

December 14, 2009

TO: Nicholas Agbobu
Engineering, Budget, and Office Operations

FROM:  Robert Swartz
Field Operations

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

This memo 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 123,540 feet or approximately 5.8 percent of the sewer system within Unincorporated County maintained by the District's South Yard.

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

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

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

PK.

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Attach.

bc: RS, FV, File (Y0TV0607A)

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

PROJECT NAME:	Y0TV0607A	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	01/15/07-03/26/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	2	MAP PAGE(S):	1593, 1646, 1647 & 1701
Report By:	Phyo Kyaw	Report Date:	12/14/09

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 123,540 feet or approximately 5.8 percent of the Unincorporated Los Angeles County sewer system maintained by the District's South Yard.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0607A included sewer lines located in 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 within your jurisdiction (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 93.4 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 6.6 percent of the inspected pipe segments within the Unincorporated County of Los Angeles area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	74,994	60.7	295
2: Good	27,323	22.1	104
3: Fair	13,159	10.6	47
4: Poor	7,127	5.8	25
5: Immediate Attention	937	0.8	4
TOTAL	123,540	100.0	475

STRUCTURAL REPORT

Our inspection revealed that approximately 87.0 percent of the inspected pipe segments within the Unincorporated County of Los Angeles were free of severe structural defects. However, the remaining 13.0 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 60 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 60 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

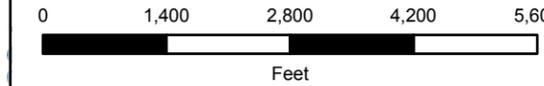
DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	43,404	35.1	186
2: Good	21,505	17.4	78
3: Fair	42,648	34.5	151
4: Poor	12,320	10.0	46
5: Immediate Attention	3,663	3.0	14
TOTAL	123,540	100.0	475

FUTURE PROJECTS

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

ENCLOSURE 1:

Project Overview Map



Legend

SMD Manholes

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

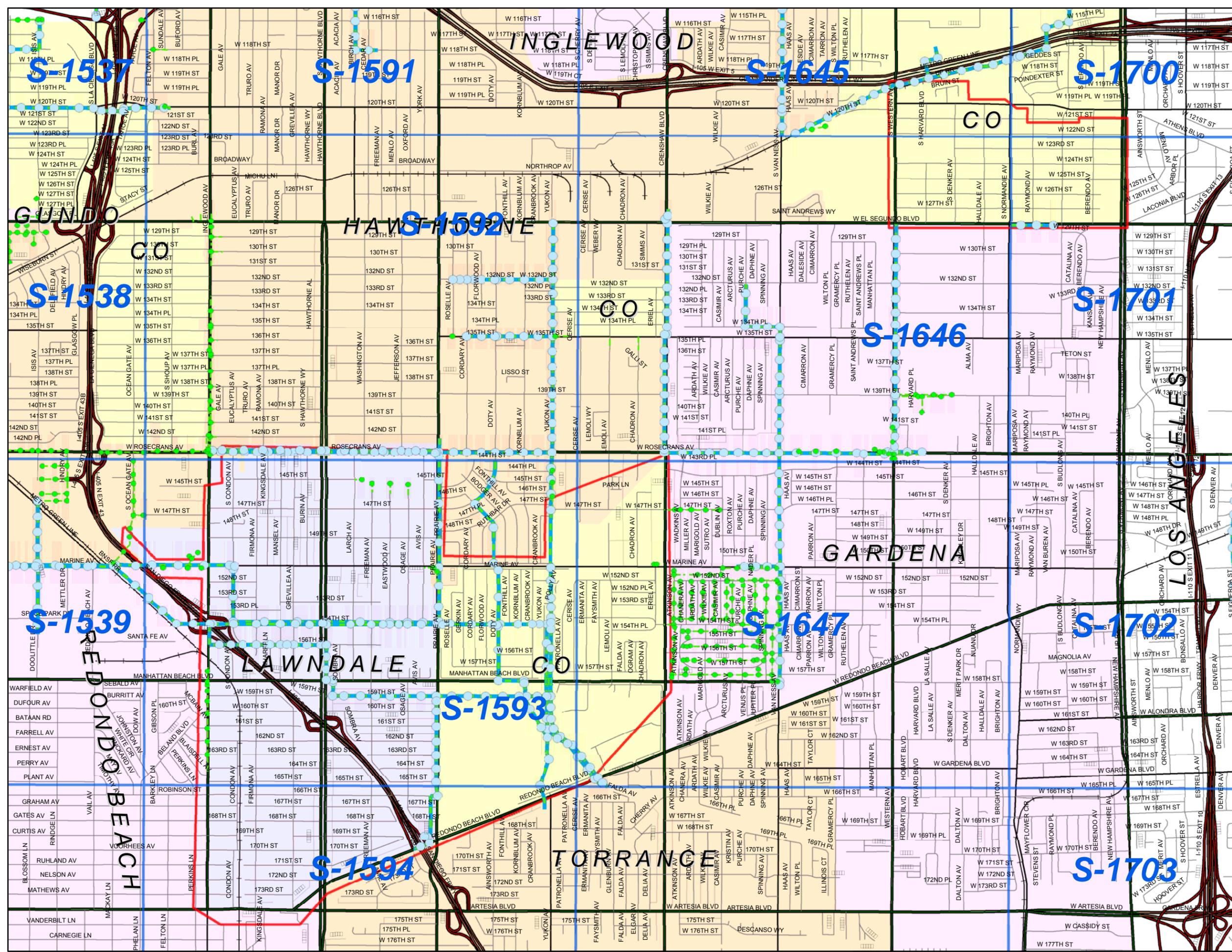
Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607A

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Y0TV0607A_OVERVIEW.mxd



ENCLOSURE 2:

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

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 COUNTY UNINCORPORATED (YOTV0607A)
 as of 03/26/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5141	1647-0006	1593-0018	154TH ST	Grease; deposits	Hydrojet (Completed 9/26/08)
2	5141	1593-0039	1593-0040	EASEMENT by CERISE □ PATRONELLA	Sag; grease	Hydrojet (Completed 10/16/09)
3	5141	1647-0137	1647-0138	EASEMENT by W 152nd ST □ ERIEL	Roots	Rodder (Completed 10/24/08)
4	5141	1647-0003	1647-0002	EASEMENT by ERMANIT □ W 154th ST	Roots, root ball lateral	Rodder (Completed 10/24/08)
5	4231	1646-0058	1646-0057	EL SEGUNDO BV	Grease; roots	Hydrojet (Completed 9/26/08) Rodder (Completed 10/10/08)
6	421D	1700-0288	1645-0353	121ST ST	Roots	Rodder (Completed 10/17/08)
7	4211	1701-0379	1701-0401	EASEMENT by RAYMOND □ W 123rd ST	Roots	Rodder (Completed 10/17/08)
8	4200	1647-0194	1647-0193	EASEMENT by LEMOLI □ W 154th PLA	Roots	Hydrojet (Completed 12/10/09) Rodder (Completed 12/10/09)
9	4134	1593-0072	1593-0071	CRANBROOK AV	Deposits; sag; roots	Rodder (Completed 10/3/08)
10	413D	1701-0466	1646-0058	EL SEGUNDO BV	Sag; camera under water	Hydrojet (Completed 10/16/09)
11	4132	1593-0071	1593-0070	CRANBROOK AV	Roots	Rodder (Completed 10/3/08)
12	4132	1647-0189	1647-0201	FALDA AV	Roots	Rodder (Completed 10/3/08)
13	4132	1647-0004	1647-0003	EASEMENT by ERMANIT □ W 154th ST	Roots	Rodder (Completed 10/24/08)
14	4131	1647-0190	1647-0189	157TH ST	Deposits; roots	Hydrojet (Completed 10/16/09)
15	4131	1647-0006	1647-0007	EASEMENT by ERMANIT □ W 152nd ST	Roots	Rodder (Completed 10/17/08)
16	4131	1701-0445	1701-0446	EL SEGUNDO BV	Roots	Rodder (Completed 10/17/08)
17	4131	1701-0402	1701-0401	EASEMENT by W 153RD ST □ RAYMOND	Roots	Hydrojet (Completed 10/16/09)
18	412O	1647-0045	1647-0046	147TH ST	Deposits	Hydrojet (Completed 9/29/08)
19	4121	1646-0053	1646-0052	EL SEGUNDO BV	Roots	Rodder (Completed 10/10/08)
20	411C	1646-0054	1646-0053	EL SEGUNDO BV	Roots	Rodder (Completed 10/10/08)
21	411A	1647-0013	1647-0012	EASEMENT (Park)	Grease	Hydrojet (Completed 9/29/08)
22	411A	1647-0146	1647-0147	EASEMENT by LEMOLI □ W 154th PL	Roots	Rodder (Completed 10/21/08)

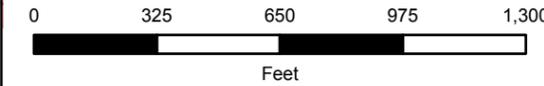
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23	411A	1645-0358	1645-0359	122ND ST	Roots	Rodder (Completed 10/10/08)
24	411A	1645-0340	1645-0334	122ND ST	Roots	Hydrojet (Completed 10/16/09)
25	4117	1647-0190	1647-0191	EASEMENT by LEMOLI □ W 157TH ST	Roots	Hydrojet (Completed 10/16/09)
26	4113	1593-0104	1593-0105	MANHATTAN BEACH BV	Roots	Rodder (Completed 10/3/08)
27	4113	1645-0354	1700-0293	EASEMENT by NORMANDIE □ W 121st ST	Roots	Rodder (Completed 10/17/08)
28	4112	1700-0266	1700-0267	VERMONT AV	Roots	Rodder (Completed 10/17/08)
29	4100	1647-0012	1647-0011	EASEMENT (Park)	Grease	Hydro (Completed 9/29/08)

ENCLOSURE 2

CCTV PROJECT
Y0TV0607A
 Supervisorial District 2
 County Unincorporated

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

QMR

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

SMD Manholes

- Other

Manhole Type

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

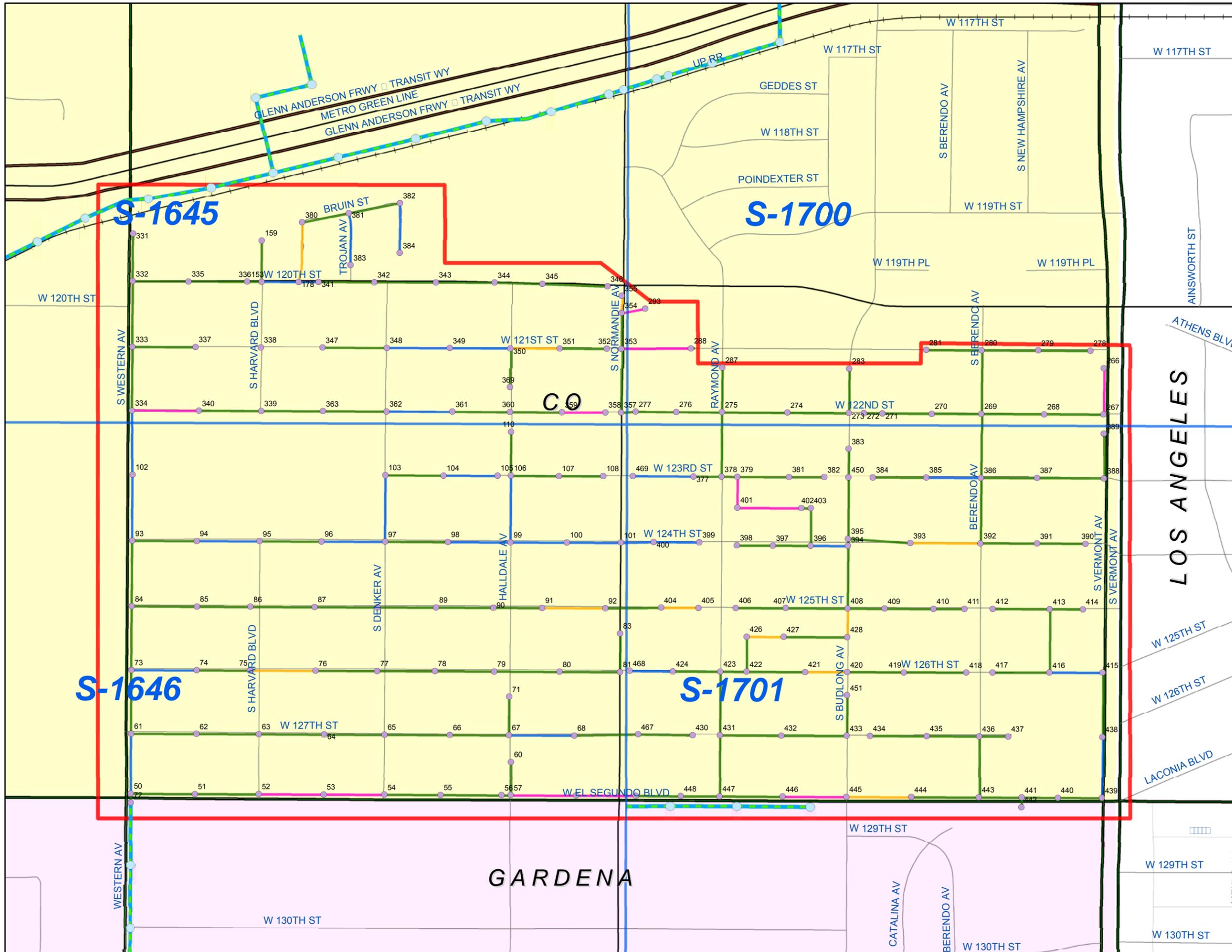
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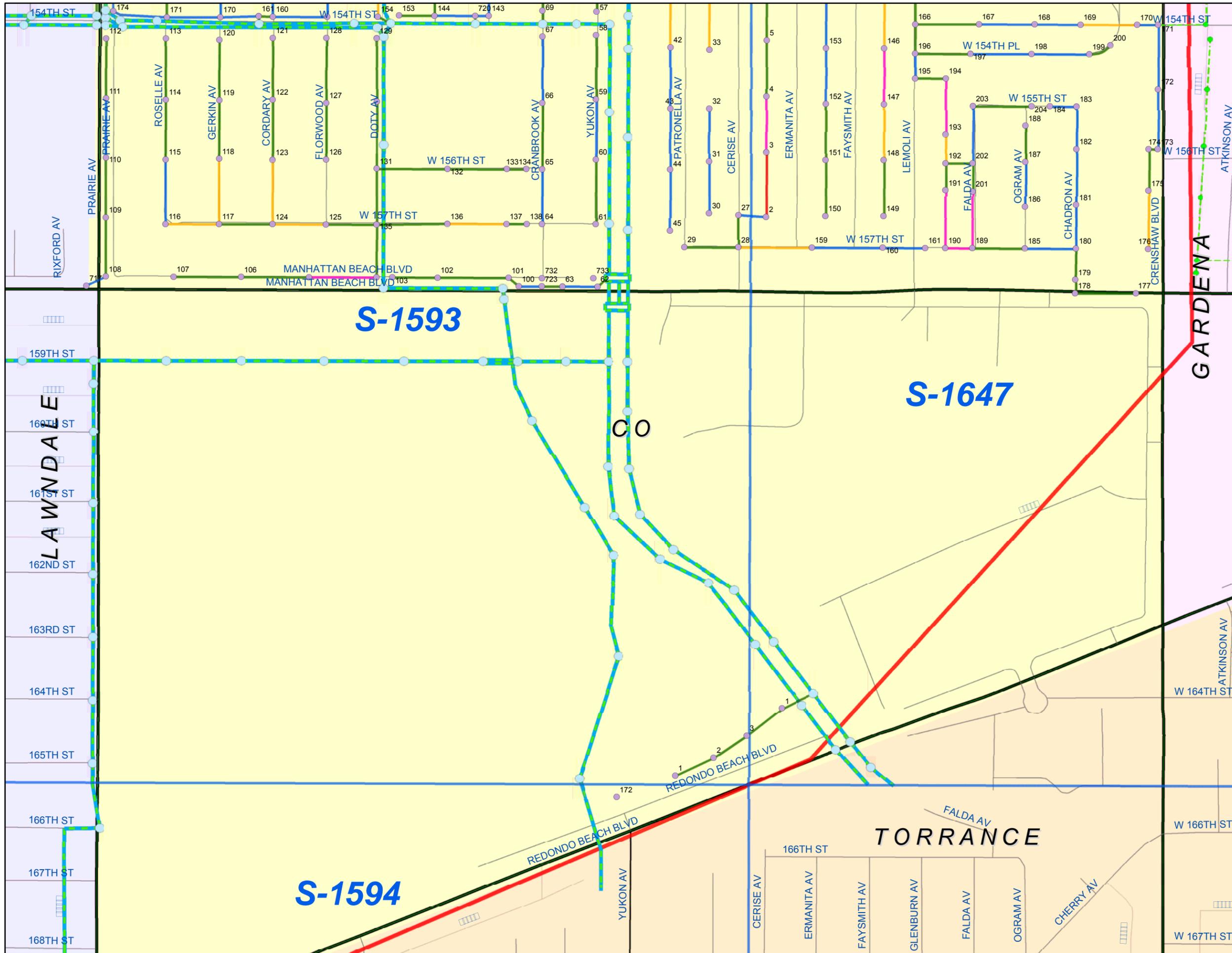
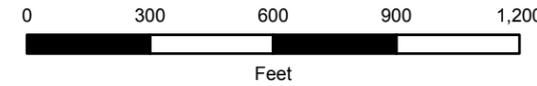
GARDENA

LOS ANGELES

ENCLOSURE 2

CCTV PROJECT
Y0TV0607A
 Supervisorial District 2
 County Unincorporated

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

- QMR**
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ENCLOSURE 3:

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

ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 COUNTY UNINCORPORATED (Y0TV0607A)
 as of 03/26/07

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5834	1646-0096	1646-0095	124TH ST	Broken with soil visible and fractures; 62'; fractures: 55', 79', 152'	Lining: MH to MH	324
2	5522	1593-0100	1593-0723	MANHATTAN BEACH BV	Hole with soil visible: 83', 86'; broken: 62'	Emergency Lining Project (completed: July 2009)	
3	5346	1647-0156	1647-0157	EASEMENT (152ND ST □ FAYSMITH)	Broken: 66', 154'; fractures (multiple locations)	Lining: MH to MH	257
4	5242	1647-0162	1647-0163	EASEMENT (154TH ST □ ERIEL)	Hole with soil visible at lateral connection: 232'; fractures: 29', 329'	Point Repair: 232'	
5	5141	1647-0203	1647-0202	FALDA AV	Broken with soil visible: 5'; fractures: 92', 264'	Structural integrity in tact. No action needed.	-
6	5141	1647-0155	1647-0156	EASEMENT (W of FAYSMITH)	Hole with soil visible inside lateral connection: 63'	Point Repair: 63'	
7	5141	1593-0035	1593-0038	EASEMENT (W of CERISE)	Broken with fractures: 166'; fractures: 23', 38'	Lining: MH to MH	170
8	5141	1593-0032	1593-0033	EASEMENT between W 157TH ST □ CERISE	Broken with fracture: 17'; fracture: 70'	Lining: MH to MH	225
9	5133	1593-0717	1593-0108	MANHATTAN BEACH BV by PRAIRIE	Broken and collapsed: 23'; fractures (multiple locations)	Emergency Point Repair (completed: April 2009); Lining: MH to MH	105
10	5131	1646-0061	1646-0050	WESTERN AV	Broken with soil visible: 25'; fracture: 114'	Structural integrity in tact. No action needed.	-
11	5131	1593-0149	1593-0150	DOTY AV	Broken at lateral 'T': 63'	Point Repair: 63'	
12	5127	1593-0061	1593-0064	157TH ST	Fracture: 180'; Broken with soil visible and fracture: 257'	Lining: MH to MH	267
13	5123	1593-0067	1593-0066	CRANBROOK AV	Broken inside lateral: 160'; fractures (multiple locations)	Lining: MH to MH	325
14	511G	1593-0108	1593-0107	MANHATTAN BEACH BV	Patch Repair: 63'-66'	Structural integrity in tact. No action needed.	-
15	4A3F	1593-0037	1593-0036	EASEMENT (152ND □ CERISE)	Fractures multiple: 1'-5', 66'-74', 113'-117', 160'-180', 200'; broken at lateral: 154'	Lining: MH to MH	208
16	4A34	1647-0128	1593-0722	EASEMENT between 152ND □ MARINE	Fractures and cracks (multiple locations)	Lining: MH to MH	246
17	4833	1593-0037	1593-0038	EASMENT (152ND □ CERISE)	Large offset: 183'; broken and fractures (multiple locations)	Lining: MH to MH	214
18	4536	1647-0129	1647-0128	EASEMENT (LEMOLI □ MARINE)	Fractures and cracks (multiple locations)	Lining: MH to MH	245
19	4536	1593-0045	1593-0044	EASEMENT (PATRONELLA □ 157TH)	Broken with fractures: 269'; fractures (multiple locations)	Lining: MH to MH	300
20	4433	1647-0159	1593-0028	157TH ST	Fracture: 112', 175'; fractures multiple: 162'; hole: 313'	Structural integrity in tact. No action needed.	-
21	433A	1647-0111	1647-0045	CHADRON AV	Fracture: 53', 107', 162'; cracks	Structural integrity in tact. No action needed.	-
22	4336	1647-0182	1647-0181	CHADRON AV	Fractures multiple: 12', 135'; fracture: 5', 221'	Lining: MH to MH	224
23	4331	1647-0181	1647-0180	CHADRON AV	Fracture: 6', 59', 77', 220'	Lining: MH to MH	223
24	4331	1647-0168	1647-0167	EASEMENT (154TH ST □ ERIEL)	Fractures multiple: 107', 232', 241'	Structural integrity in tact. No action needed.	-
25	423K	1593-0063	1593-0062	MANHATTAN BEACH BV	Fractures and cracks: multiple locations	Lining: MH to MH	216
26	423D	1593-0043	1593-0042	EASEMENT (W of PATRONELLA)	Fractures multiple: 48'-50'	Structural integrity in tact. No action needed.	-
27	423C	1701-0468	1701-0424	126TH ST	Fractures multiple: 140'; fracture: 167'	Lining: MH to MH	260
28	423B	1646-0066	1646-0065	127TH ST	Fractures: 10', 83'	Lining: MH to MH	351
29	4239	1647-0187	1647-0186	OGRAM AV	Fractures: 94', 99', 142', 200', 206'	Lining: MH to MH	210
30	4238	1593-0034	1593-0019	EASEMENT (154TH □ CERISE)	Fracture: 2'; fractures multiple: 34'	Structural integrity in tact. No action needed.	-
31	4234	1593-0031	1593-0030	EASEMENT (157TH □ CERISE)	Fracture: 17'; broken at lateral: 122'	Structural integrity in tact. No action needed.	-
32	4234	1647-0135	1647-0136	EASEMENT (152ND ST □ LEMOLI)	Broken inside lateral: 135'	Structural integrity in tact. No action needed.	-
33	4232	1647-0161	1647-0160	157TH ST	Fracture: 6', 105'	Structural integrity in tact. No action needed.	-
34	4232	1647-0154	1647-0153	EASEMENT (W of FAYSMITH)	Fracture: 254', 263'	Structural integrity in tact. No action needed.	-
35	4221	1701-0396	1701-0394	124TH ST	Fractures: 126', 133'	Structural integrity in tact. No action needed.	-
36	4200	1647-0153	1647-0152	EASEMENT (W of FAYSMITH)	Fracture: 138', 242'	Structural integrity in tact. No action needed.	-

ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 COUNTY UNINCORPORATED (Y0TV0607A)
 as of 03/26/07

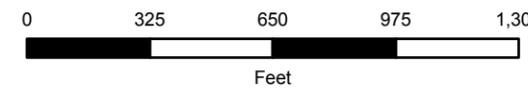
Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
37	413Q	1646-0103	1646-0097	DENKER AV	Fractures multiple: 296', 316', 333', 340'	Lining: MH to MH	350
38	413I	1593-0044	1593-0043	EASEMENT (PATRONELLA □ 157TH)	Fracture: 1', 169', 274'	Structural integrity in tact. No action needed.	-
39	413D	1647-0186	1647-0185	OGRAM AV	Fracture: 1', 65', 77'	Lining: MH to MH	199
40	413B	1646-0068	1646-0067	127TH ST	Fracture: 8', 205'	Lining: MH to MH	346
41	413A	1646-0099	1646-0098	124TH ST	Fracture: 88', 285'; cracks: multiple locations	Lining: MH to MH	331
42	4139	1647-0198	1647-0197	154TH PL	Fracture: 118'; cracks: multiple locations	Structural integrity in tact. No action needed.	-
43	4137	1646-0105	1646-0104	123RD PL	Fractures: 274', 278'; cracks	Structural integrity in tact. No action needed.	-
44	4135	1647-0183	1647-0182	CHADRON AV	Fracture: 7', 87'	Structural integrity in tact. No action needed.	-
45	4133	1593-0031	1593-0032	EASEMENT between CERISE □ PATRONELLA	Fracture: 232'	Structural integrity in tact. No action needed.	-
46	4132	1646-0095	1646-0094	124TH ST	Fracture: 222'	Structural integrity in tact. No action needed.	-
47	4132	1701-0415	1701-0416	EASEMENT (VERMONT □ 125TH)	Fracture: 209'	Structural integrity in tact. No action needed.	-
48	4132	1701-0400	1646-0101	124TH ST	Fractures: 49', 66', 76'	Structural integrity in tact. No action needed.	-
49	4132	1593-0111	1593-0110	PRAIRIE AV	Broken with fractures: 28'; 36'; fractures (multiple locations)	Emergency Lining Project (completed: March 2007)	-
50	4131	1645-0361	1645-0362	122ND ST	Broken with multiple fractures: 140'	Structural integrity in tact. No action needed.	-
51	4131	1593-0159	1593-0160	154TH ST	Fractures: 42', 79'	Structural integrity in tact. No action needed.	-
52	4131	1647-0139	1647-0140	EASEMENT (152ND ST □ FAYSMITH)	Fracture: 82', 135'	Structural integrity in tact. No action needed.	-
53	4131	1647-0151	1647-0150	EASEMENT (157TH □ FAYSMITH)	Broken inside lateral: 137', fracture: 138'	Structural integrity in tact. No action needed.	-
54	4122	1647-0044	1647-0045	147TH ST	Hole due to tap break-in: 115'	Structural integrity in tact. No action needed.	-
55	4121	1593-0170	1593-0161	154TH ST	Broken: 125'; fractures and cracks (multiple locations)	Lining: MH to MH	213
56	4121	1593-0135	1593-0104	DOTY AV	Broken: 22'; fractures and cracks (multiple locations)	Lining: MH to MH	246
57	4111	1593-0134	1593-0133	156TH AV	Broken with soil visible: 55'; fracture: 8'	Lining: MH to MH	58
58	4111	1647-0145	1647-0146	EASEMENT (LEMOLI □ 154TH)	Fractures multiple: 174'	Structural integrity in tact. No action needed.	-
59	4100	1647-0130	1647-0134	LEMOLI AV	Hole: 144'	Structural integrity in tact. No action needed.	-
60	4100	1647-0169	1647-0168	EASEMENT (154TH ST □ ERIEL)	Fracture: 173'	Structural integrity in tact. No action needed.	-

ENCLOSURE 3

CCTV PROJECT Y0TV0607A

Supervisorial District 2
County Unincorporated

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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 - 2: GOOD
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 - 5: IMMEDIATE ATTENTION

SMD Manholes

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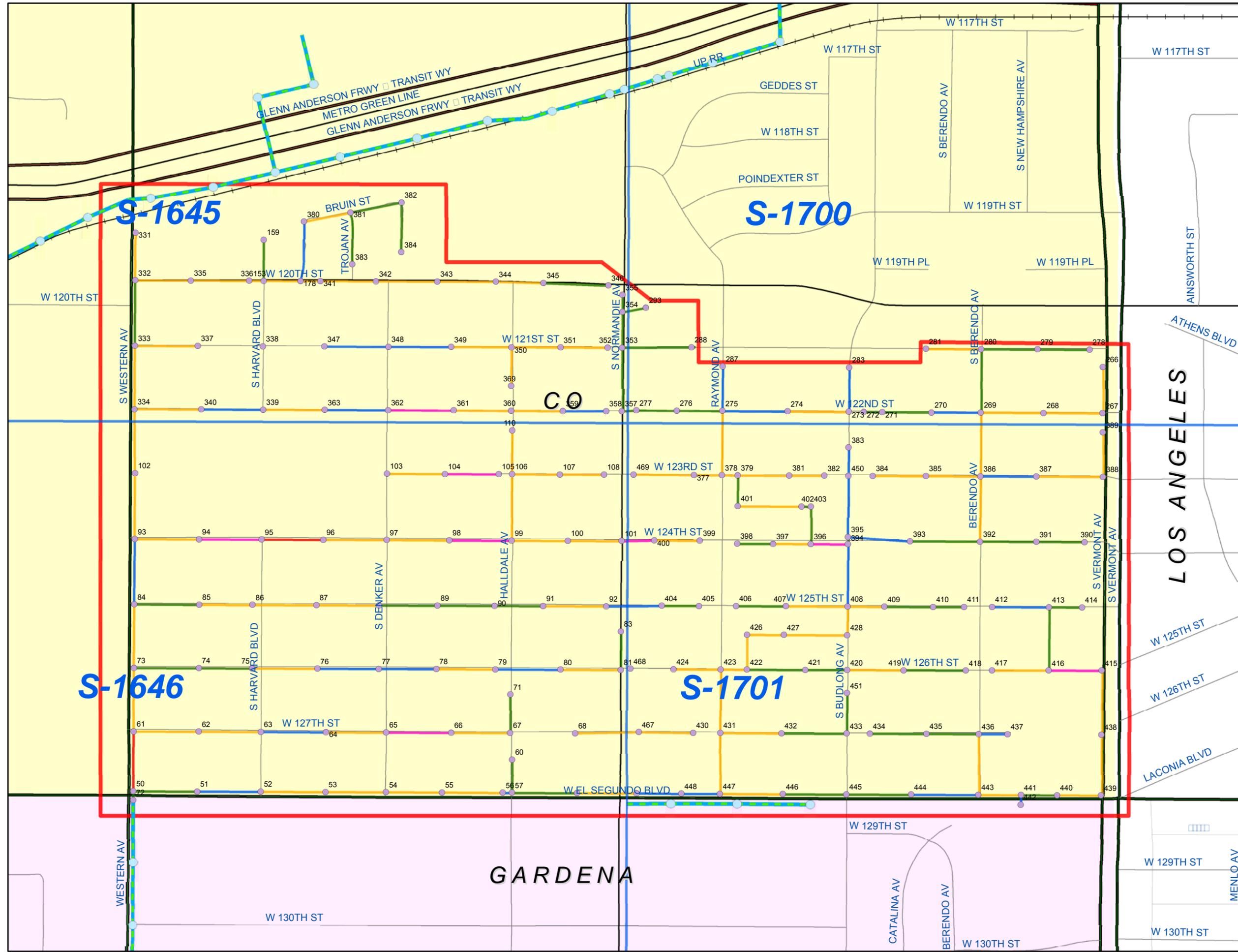
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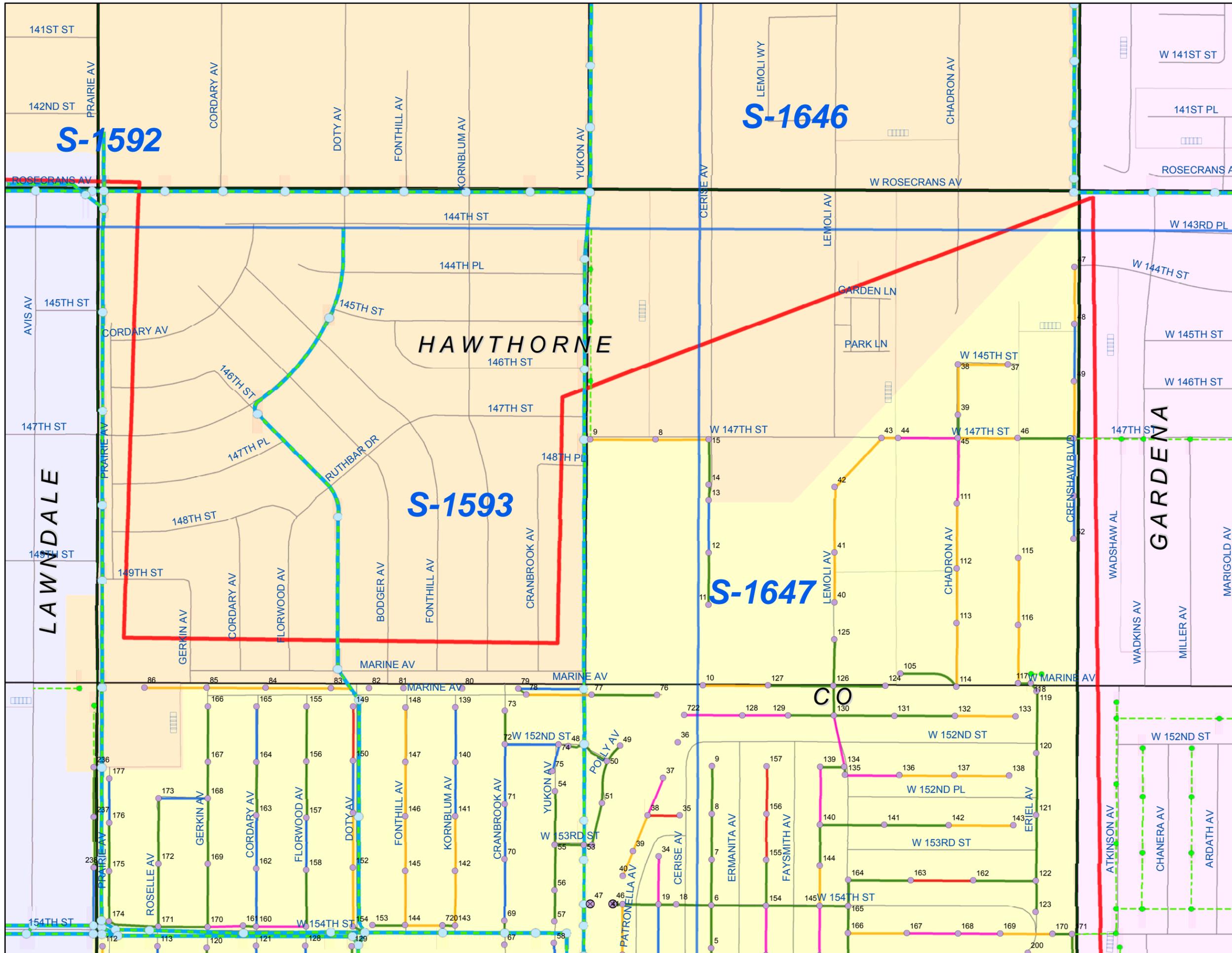
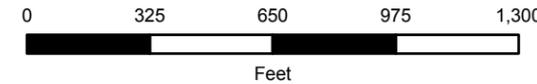
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ENCLOSURE 3

CCTV PROJECT
Y0TV0607A
 Supervisorial District 2
 County Unincorporated

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

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

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607A

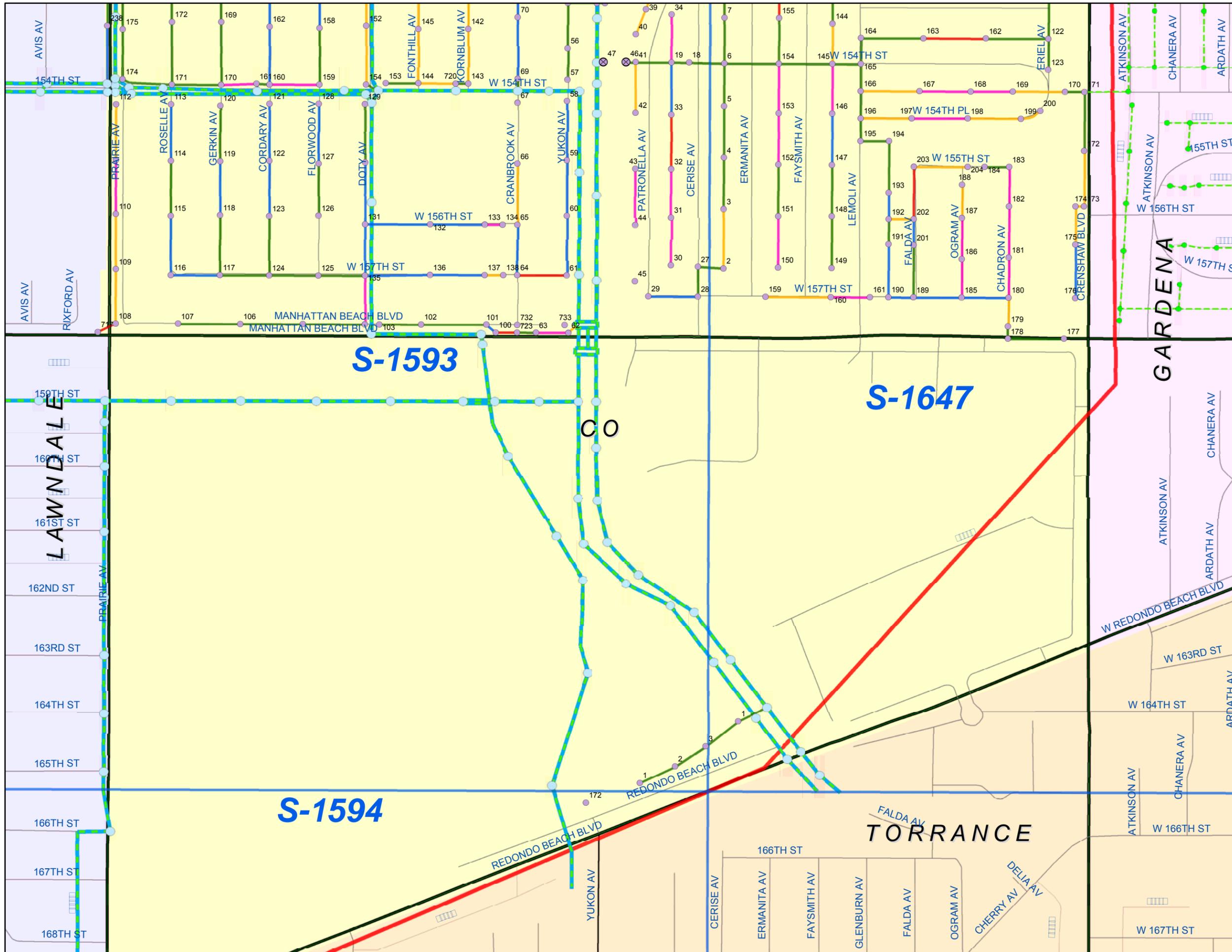
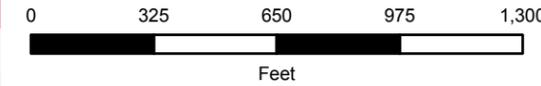
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ENCLOSURE 3

CCTV PROJECT Y0TV0607A

Supervisorial District 2
County Unincorporated

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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- Y0TV0607A

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ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 02/22/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1139	PSR: 71154
Total Pipe Length: 331.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/21/2007	Pre-Cleaned: J Jetting	Map Grid # 1646

Street: 124TH ST	Flow Control: N Not Controlled	Start MH: 1646-0096
City: ZLAS	Year Renewed	End MH: 1646-0095
Location Code: C Light Highway	Tape/Media # R311-028	pipe length: 324.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0096/1646-0095/1646	Lining Method:
	Category:

Remark::

1:800	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0096	00:00:42	6373	
	9.70	Water Level, 10 #, within 8 inch: NO	00:01:42	6374	M 2
	12.80	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:02:09	6375	
	37.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:09	6376	
	55.20	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:04:08	6377	S 2
	55.70	Crack Multiple, from 2 to 4 o'clock, within 8 inch: YES	00:04:47	6378	S 3
	62.50	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES	00:05:39	6379	S 3
	62.50	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:06:15	6380	S 3
	65.40	Broken Soil Visible, at 8 o'clock, within 8 inch: YES	00:07:07	6381	S 5
	65.40	Broken Soil Visible, at 4 o'clock, within 8 inch: YES	00:07:46	6382	S 5
	65.70	Broken Soil Visible, at 9 o'clock, within 8 inch: YES	00:09:31	6383	S 5
	65.70	Broken Soil Visible, at 3 o'clock, within 8 inch: YES	00:10:04	6384	S 5
	68.90	Broken Soil Visible, at 5 o'clock, within 8 inch: YES	00:10:45	6385	S 5
	68.90	Broken Soil Visible, at 8 o'clock, within 8 inch: YES	00:11:23	6386	S 5
	72.20	Broken Soil Visible, at 5 o'clock, within 8 inch: YES	00:12:08	6387	S 5
	72.30	Broken Soil Visible, at 8 o'clock, within 8 inch: YES	00:12:51	6388	S 5
	75.80	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:13:32	6389	S 2
	79.30	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:14:05	6390	S 2
	80.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:37	6391	
	152.40	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:17:03	6392	S 3
	153.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:37	6393	
	206.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:25	6394	
	249.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:58	6395	
	299.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:22:45	6396	
	324.10	Manhole, within 8 inch: NO, Remarks: 1646-0095	00:23:55	6397	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5834	2100	58	2	60	3.87	2	3.75



Inspection report

Date: 02/23/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 778	PSR: 73552
Total Pipe Length: 114.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0100
City: ZLAS	Year Renewed:	End MH: 1593-0723
Location Code: A Main Highway - Urban	Tape/Media #: M313-025	pipe length: 88 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0100/1593-0723/1593	Lining Method:
	Category:

Remark::

1:225	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0100	00:00:27	6793	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:36	6794	M 1
	17.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:02:14	6795	
	17.00	Hole, at 10 o'clock, within 8 inch: NO, Remarks: in lateral	00:02:48	6796	S 5
	17.00	Water Level, 10 #, within 8 inch: NO	00:03:09	6797	M 2
	24.40	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:03:37	6798	S 1
	36.90	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	00:04:35	6799	S 2
	40.10	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:05:15	6800	S 1
	46.40	Crack Circumferential, from 9 to 1 o'clock, within 8 inch: YES	00:06:02	6801	S 1
	48.00	Water Level, 5 #, within 8 inch: NO	00:06:31	6802	M 2
	58.80	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:07:07	6803	S 1
	62.00	Hole Void Visible, from 11 to 1 o'clock, within 8 inch: YES	00:08:01	6804	S 5
	62.00	Crack Circumferential, from 9 to 11 o'clock, within 8 inch: YES	00:08:42	6805	S 1
	67.40	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:09:34	6806	S 1
	68.80	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:10:07	6807	
	70.30	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Start	00:10:30	6808	S 1
	83.10	Hole Void Visible, from 10 to 2 o'clock, within 8 inch: NO	00:11:58	6809	S 5
	83.10	Broken Void Visible, from 10 to 2 o'clock, within 8 inch: NO	00:12:34	6810	S 5
	87.10	Hole Soil Visible, from 3 to 6 o'clock, within 8 inch: NO	00:13:32	6811	S 5
	87.10	Fracture Circumferential, from 2 to 8 o'clock, within 8 inch: NO	00:14:03	6812	S 2
	88.00	Abandoned Survey, within 8 inch: NO, Remarks: unable to pass hole in pi	00:14:55	6813	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5522	2211	36	5	41	2.57	1.67	2.41



Inspection report

Date: 03/09/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 383	PSR: 71116
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0156
City: ZLAS	Year Renewed:	End MH: 1647-0157
Location Code: D Easement/Right of Way	Tape/Media #: G312-033	pipe length: 256.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0157/1647-0156/1647	Lining Method:
	Category:

Remark::

1:462	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0156	00:00:38	7824	
	4.00	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:02:09	7825	S 3
	5.00	Water Level, 10 #, within 8 inch: NO	00:03:35	7826	M 2
	17.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:48	7827	
	19.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:15	7828	
	19.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:05:29	7829	M 1
	36.30	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:06:48	7830	S 4
	38.60 S1	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:07:48	7831	S 4
	38.60	Roots Fine Barrel, at 12 o'clock, within 8 inch: NO	00:07:23	7832	M 2
	68.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:21	7833	
	68.00	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:09:39	7834	M 1
	70.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:40	7835	
	89.80	Deformed, 10 #, within 8 inch: NO	00:12:22	7836	S 4
	118.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:37	7837	
	120.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:02	7838	
	127.30 F1	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:15:41	7839	S 4
	154.50	Broken, from 8 to 4 o'clock, within 8 inch: YES	00:17:15	7840	S 5
	157.40	Broken, from 8 to 4 o'clock, within 8 inch: YES	00:18:04	7841	S 5
	160.30	Deformed, 20 #, within 8 inch: NO	00:19:04	7842	S 5
	160.30	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:18:46	7843	S 3
	163.60 S2	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:20:04	7844	S 4
	167.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:43	7845	
	170.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:07	7846	



Inspection report

Date: 03/09/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 383	PSR: 71116
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:462	position	observation	MPEG	photo	grade
	<u>193.60</u>	Water Level, 20" □, within 8 inch: NO	00:24:32	7847	M 2
	204.60 S3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:25:28	7848	
	<u>210.80</u>	Water Level, 10" □, within 8 inch: NO	00:26:25	7849	M 2
	218.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:26:57	7850	
	<u>220.70</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:27:14	7851	
	<u>239.20</u> F2	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:28:38	7852	S 4
	245.60 F3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:29:18	7853	
	<u>246.90</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:29:46	7854	
	<u>248.50</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:30:02	7855	
	<u>249.90</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:30:17	7856	
	<u>251.40</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:30:36	7857	
	<u>253.90</u>	Material Change, within 8 inch: NO, Remarks: cast-iron	00:31:04	7858	
	<u>256.50</u>	Manhole, within 8 inch: NO, Remarks: 1647-0157	00:32:13	7859	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5346	2412	45	10	55	4.09	1.67	3.24





Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 259	PSR: 70988
Total Pipe Length: 335.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0162
City: ZLAS	Year Renewed:	End MH: 1647-0163
Location Code: D Easement/Right of Way	Tape/Media #: G312-020	pipe length: 335.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0162/1647-0163/1647	Lining Method:
	Category:

Remark::

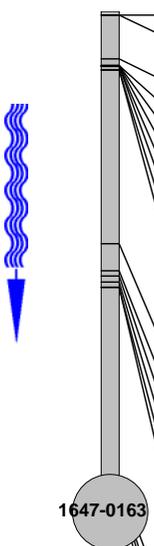
1:528	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0162	00:00:40	5377	
	0.00 S1	Water Level Sag, 20 #, within 8 inch: NO, Start	00:01:37	5378	M 2
	26.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:35	5379	
	28.40	Fracture Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:04:06	5380	S 4
	29.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:35	5381	
	29.80	Crack Multiple, from 10 to 2 o'clock, within 8 inch: NO	00:05:06	5382	S 3
	77.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:12	5383	
	79.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:36	5384	
	94.90	Deposits Attached Grease, from 12 to 4 o'clock, 10 #, within 8 inch: NO	00:08:34	5385	M 2
	109.80	Deposits Attached Grease, from 11 to 2 o'clock, 10 #, within 8 inch: NO	00:09:34	5386	M 2
	130.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:57	5387	
	132.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:21	5388	
	140.40	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	00:18:48	5389	
	140.40	Deposits Attached Grease, from 8 to 11 o'clock, 10 #, within 8 inch: YES	00:19:16	5390	M 2
	143.90 F1	Water Level Sag, 20 #, within 8 inch: NO, End	00:19:44	5391	M 2
	143.90	Water Level, 15 #, within 8 inch: NO	00:19:59	5392	M 2
	155.60 S2	Deposits Attached Grease, from 8 to 3 o'clock, 10 #, within 8 inch: YES, Start	00:20:43	5393	M 2
	180.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:58	5394	
	183.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:22:17	5395	
	190.90	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:22:40	5396	
	196.90 S3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:23:22	5397	



Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 259	PSR: 70988
Total Pipe Length: 335.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:528	position	observation	MPEG	photo	grade
	220.90 F2	Deposits Attached Grease, from 8 to 3 o'clock, 10 □, within 8 inch: YES, End	00:24:38	5398	M 2
	220.90 F3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:24:56	5399	
	230.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:25:40	5400	
	232.50	Roots Tap Barrel, from 3 to 5 o'clock, 15 □, within 8 inch: NO	00:27:09	5401	M 3
	232.50	Hole Soil Visible, from 2 to 5 o'clock, within 8 inch: NO	00:26:13	5402	S 5
	232.50	Joint Offset Medium, within 8 inch: NO	00:26:41	5403	S 1
	232.70	Fracture Circumferential, from 4 to 6 o'clock, within 8 inch: YES	00:28:01	5404	S 2
	232.70	Deformed, 15 □, within 8 inch: NO	00:28:33	5405	S 5
	233.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:29:03	5406	
	233.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:29:17	5407	M 1
	273.60	Roots Fine Joint, from 12 to 5 o'clock, within 8 inch: YES	00:30:42	5408	
	279.80	Alignment Left, within 8 inch: NO	00:31:13	5409	M 1
	280.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:31:40	5410	
	282.30	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:31:58	5411	
	283.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:32:29	5412	
	283.50	Roots Tap Lateral, at 3 o'clock, 15 □, within 8 inch: NO	00:32:45	5413	M 2
	327.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:34:12	5414	
	329.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:34:39	5415	
	329.50	Fracture Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:34:56	5416	S 4
	330.50	Tap Factory Defective, at 3 o'clock, 6", within 8 inch: NO, Remarks: offset	00:35:41	5417	M 2
	335.30	Manhole, within 8 inch: NO, Remarks: 1647-0163	00:36:25	5418	





Inspection report

Date: 02/21/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 269	PSR: 71029
Total Pipe Length: 282.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid # 1647

Street: FALDA AV	Flow Control: N Not Controlled	Start MH: 1647-0203
City: ZLAS	Year Renewed	End MH: 1647-0202
Location Code: C Light Highway	Tape/Media # G312-021	pipe length: 271.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0202/1647-0203/1647	Lining Method:
	Category:

Remark::

1:594	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0203	00:00:38	5661	
	4.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:30	5662	
	5.00	Water Level, 10 □, within 8 inch: NO	00:01:46	5663	M 2
	5.40	Hole Soil Visible, from 3 to 5 o'clock, within 8 inch: YES	00:02:06	5664	S 5
	5.40	Fracture Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:02:23	5665	S 2
	5.40	Broken, from 3 to 5 o'clock, within 8 inch: YES	00:02:45	5666	S 4
	27.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:52	5667	
	36.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:21	5668	
	65.30	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:05:24	5669	
	72.10	Roots Fine Joint, from 9 to 10 o'clock, within 8 inch: YES	00:05:54	5670	
	72.10	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:06:09	5671	S 2
	92.70 S1	Crack Multiple, from 7 to 10 o'clock, within 8 inch: YES, Start	00:07:16	5672	S 3
	107.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:10	5673	
	147.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:21	5674	
	159.30	Roots Fine Joint, from 1 to 2 o'clock, within 8 inch: YES	00:09:52	5675	
	160.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:19	5676	
	161.60 S2	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, Start	00:10:35	5677	
	180.10	Deposits Attached Grease, from 4 to 8 o'clock, 5 □, within 8 inch: NO	00:11:33	5678	M 2
	197.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:22	5679	
	206.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:55	5680	
	231.90 F1	Crack Multiple, from 7 to 10 o'clock, within 8 inch: YES, End	00:13:53	5681	S 3



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 269	PSR: 71029
Total Pipe Length: 282.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:594	position	observation	MPEG	photo	grade
	260.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:05	5682	
	263.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:23	5683	
	263.10	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:15:37	5684	M 1
	264.50	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:16:21	5685	S 3
	264.50 F2	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, End	00:16:37	5686	
	271.10	Manhole, within 8 inch: NO, Remarks: 1647-0202	00:17:23	5687	

1647-0202

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2211	22	5	27	3.14	1.67	2.7



Inspection report

Date: 02/27/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 316	PSR: 71115
Total Pipe Length: 245.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid # 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0155
City: ZLAS	Year Renewed	End MH: 1647-0156
Location Code: D Easement/Right of Way	Tape/Media # G312-025	pipe length: 243.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0155/1647-0156/1647	Lining Method:
	Category:

Remark::

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0155	00:00:39	6607	
	<u>0.00</u>	Water Level, 10 #, within 8 inch: NO	00:01:14	6608	M 2
	8.50	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:01:54	6609	
	9.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:22	6610	
	12.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:41	6611	
	59.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:31	6612	
	<u>62.70</u>	Tap Factory Defective, at 3 o'clock, 6", within 8 inch: NO	00:04:58	6613	M 2
	<u>62.70</u>	Hole Soil Visible, from 2 to 4 o'clock, within 8 inch: NO, Remarks: lateral	00:05:27	6614	S 5
	<u>62.70</u>	Broken, from 2 to 4 o'clock, within 8 inch: NO, Remarks: lateral	00:05:47	6615	S 4
	<u>70.50</u>	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:06:59	6616	S 2
	72.90	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:07:54	6617	S 1
	109.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:38	6618	
	112.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:00	6619	
	159.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:57	6620	
	159.80	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:12:13	6621	M 1
	162.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:46	6622	
	162.40	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:13:00	6623	M 1
	211.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:15:14	6624	
	212.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:46	6625	
	212.80	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:16:01	6626	M 1
	215.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:39	6627	
	215.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:16:53	6628	M 1
	237.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:31	6629	
	243.70	Manhole, within 8 inch: NO, Remarks: 1647-0156	00:20:13	6630	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2214	12	8	20	3	1.33	2



Inspection report

Date: 03/12/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 393	PSR: 73609
Total Pipe Length: 171.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/09/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0035
City: ZLAS	Year Renewed	End MH: 1593-0038
Location Code: D Easement/Right of Way	Tape/Media # G312-034	pipe length: 169.9 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0035/1593-0038/1593	Lining Method:
	Category:

Remark::

1:425	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0035	00:00:39	7997	
	5.00	Water Level, 5 #, within 8 inch: NO	00:01:55	7998	M 2
	5.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:02:15	7999	
	17.20	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:03:14	8000	S 3
	17.20	Roots Fine Barrel, from 8 to 5 o'clock, within 8 inch: NO	00:03:32	8001	M 2
	23.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:26	8002	S 3
	23.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:42	8003	
	37.80	Crack Multiple, from 12 to 4 o'clock, within 8 inch: YES	00:06:09	8004	S 3
	37.80	Roots Fine Joint, from 12 to 5 o'clock, within 8 inch: YES	00:06:26	8005	
	40.80	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:08:29	8006	S 3
	41.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:08	8007	
	41.90	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:07:22	8008	M 1
	46.30 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:09:16	8009	
	46.30 S2	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES, Start	00:09:50	8010	S 3
	65.30	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:10:53	8011	
	79.50 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:11:59	8012	
	122.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:37	8013	
	139.40	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:14:16	8014	
	148.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:15:27	8015	
	166.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:16:31	8016	
	166.80	Broken Soil Visible, from 7 to 5 o'clock, within 8 inch: YES	00:17:04	8017	S 5
	166.80	Deformed, 10 #, within 8 inch: NO	00:18:05	8018	S 4
	169.90	Manhole, within 8 inch: NO, Remarks: 1593-0038	00:19:37	8019	
	169.90 F2	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES, End	00:20:03	8020	S 3

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2211	27	5	32	3.38	1.67	2.91



Inspection report

Date: 03/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 357	PSR: 73608
Total Pipe Length: 290.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0032
City: ZLAS	Year Renewed:	End MH: 1593-0033
Location Code: D Easement/Right of Way	Tape/Media #: G312-029	pipe length: 216.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0032/1593-0033/1593	Lining Method:
	Category:

Remark::

1:495	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0032	00:00:45	7284	
	<u>0.00</u>	Water Level, 10 □, within 8 inch: NO	00:01:11	7285	M 2
	14.00 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:01:58	7286	
	<u>14.00</u>	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:02:13	7287	S 3
	15.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:07	7288	
	<u>15.00</u>	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:03:23	7289	M 1
	<u>17.30</u>	Fracture Circumferential, from 9 to 4 o'clock, within 8 inch: NO	00:04:25	7290	S 2
	<u>17.30</u>	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:04:59	7291	S 1
	<u>17.60</u>	Hole Soil Visible, from 8 to 10 o'clock, within 8 inch: YES	00:06:43	7292	S 5
	<u>17.60</u>	Roots Tap Barrel, from 8 to 10 o'clock, 15 □, within 8 inch: NO	00:07:20	7293	M 3
	<u>17.60</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:05:40	7294	
	<u>17.60</u>	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:05:55	7295	M 1
	<u>17.90</u>	Roots Fine Barrel, from 3 to 5 o'clock, within 8 inch: NO	00:07:56	7296	M 2
	<u>46.10</u>	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:09:23	7297	S 3
	<u>68.20</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:22	7298	
	<u>70.70</u>	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: NO	00:11:00	7299	S 4
	<u>70.70</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:11:37	7300	
	<u>118.50</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:12:58	7301	
	<u>121.20</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:13:29	7302	
	<u>168.90</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:14:55	7303	
	<u>171.50</u>	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:15:14	7304	
	<u>175.80</u> F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:15:46	7305	
	<u>194.60</u>	Deposits Attached Grease, from 7 to 5 o'clock, 10 □, within 8 inch: NO	00:16:36	7306	M 2
	<u>196.00</u>	Water Level, 15 □, within 8 inch: NO	00:16:58	7307	M 2



Inspection report

Date: 03/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 357	PSR: 73608
Total Pipe Length: 290.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:495	position	observation	MPEG	photo	grade
	211.70 S2	Roots Tap Joint, from 7 to 5 o'clock, 15 □, within 8 inch: YES, Start	00:17:35	7308	
	214.30	Deposits Attached Grease, from 3 to 5 o'clock, 20 □, within 8 inch: NO	00:18:41	7309	M 3
	216.10	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by heavy g	00:19:53	7310	
	216.10 F2	Roots Tap Joint, from 7 to 5 o'clock, 15 □, within 8 inch: YES, End	00:20:10	7311	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	3224	18	16	34	3	2	2.43



Inspection report

Date: 02/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 111	PSR: 73562
Total Pipe Length: 105.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/01/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0717
City: ZLAS	Year Renewed:	End MH: 1593-0108
Location Code: B Main Highway - Suburban/Rural	Tape/Media #: G312-009	pipe length: 23.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0717/1593-0108/1593	Lining Method:
	Category:

Remark: _____

1:75	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0717	00:00:40	2292	
	0.00 S1	Water Level Sag, 20 #, within 8 inch: NO, Remarks: starts, Start	00:01:18	2293	M 2
	3.50	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:01:50	2294	S 1
	18.40	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:02:58	2295	S 3
	19.00	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:03:37	2296	S 3
	21.40	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:30	2297	S 3
	23.40	Joint Offset Large, within 8 inch: NO	00:05:20	2298	S 2
	23.40	Hole, from 7 to 5 o'clock, within 8 inch: YES	00:06:23	2299	S 5
	23.40 F1	Water Level Sag, 20 #, within 8 inch: NO, Remarks: starts, End	00:07:04	2300	M 2
	23.70	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:07:37	2301	S 1
	23.70	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by hole in	00:08:11	2302	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	2200	18	4	22	2.57	2	2.44



Inspection report

Date: 03/09/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1213	PSR: 71242
Total Pipe Length: 320.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

Street: WESTERN AV	Flow Control: N Not Controlled	Start MH: 1646-0061
City: ZLAS	Year Renewed:	End MH: 1646-0050
Location Code: C Light Highway	Tape/Media #: R311-038	pipe length: 314.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0050/1646-0061/1646	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0061	00:00:38	7570	
	11.40	Water Level, 15", within 8 inch: NO	00:01:43	7571	M 2
	14.70	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:02:09	7572	
	25.40	Broken, at 10 o'clock, within 8 inch: YES, Remarks: Broken Joint	00:04:13	7573	S 5
	80.20	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:06:23	7574	
	114.40	Crack Longitudinal, at 8 o'clock, within 8 inch: NO	00:07:29	7575	S 2
	114.50	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:07:59	7576	S 2
	115.20	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:08:41	7577	S 3
	116.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:21	7578	
	186.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:11:21	7579	
	215.10	Roots Fine Joint, from 12 to 4 o'clock, within 8 inch: YES	00:12:24	7580	
	219.80	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:13:02	7581	
	229.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:30	7582	
	275.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:14:54	7583	
	314.30	Manhole, within 8 inch: NO, Remarks: 1646-0050	00:16:12	7584	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2100	12	2	14	3	2	2.8



Inspection report

Date: 02/14/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 204	PSR: 73477
Total Pipe Length: 289.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: DOTY AV	Flow Control: N Not Controlled	Start MH: 1593-0149
City: ZLAS	Year Renewed	End MH: 1593-0150
Location Code: C Light Highway	Tape/Media # G312-016	pipe length: 291 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0149/1593-0150/1593	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0149	00:00:40	4150	
	4.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:27	4151	
	<u>5.00</u>	Water Level, 5 #, within 8 inch: NO	00:01:56	4152	M 2
	6.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:08	4153	
	35.50	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:03:06	4154	
	36.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:54	4155	
	44.30	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:04:19	4156	
	60.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:20	4157	
	61.10	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: NO	00:05:34	4158	S 1
	62.30	Roots Fine Joint, from 9 to 4 o'clock, within 8 inch: YES	00:06:26	4159	
	<u>62.30</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:48	4160	S 3
	63.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:36	4161	
	<u>63.30</u>	Hole Soil Visible, from 7 to 8 o'clock, within 8 inch: NO	00:08:19	4162	S 5
	64.90	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:08:54	4163	
	67.70	Roots Fine Joint, from 10 to 5 o'clock, within 8 inch: YES	00:09:44	4164	
	87.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:51	4165	
	101.30	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:12:12	4166	
	117.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:06	4167	
	137.30	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:14:05	4168	
	159.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:46	4169	
	186.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:57	4170	
	189.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:18	4171	
	219.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:14	4172	
	261.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:22:26	4173	
	291.00	Manhole, within 8 inch: NO, Remarks: 1593-0150	00:23:33	4174	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2100	9	2	11	3	2	2.75



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 757	PSR: 73506
Total Pipe Length: 265.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 157TH ST	Flow Control: N Not Controlled	Start MH: 1593-0061
City: ZLAS	Year Renewed:	End MH: 1593-0064
Location Code: C Light Highway	Tape/Media #: M313-023	pipe length: 267.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0061/1593-0064/1593	Lining Method:
	Category:

Remark::

1:396	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0061	00:00:28	6269	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:37	6270	M 1
	5.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:01:12	6271	
	6.00	Water Level, 5", within 8 inch: NO	00:2:10	6272	M 2
	24.00	Crack Circumferential, from 11 to 1 o'clock, within 8 inch: YES	00:03:00	6273	S 1
	38.30	Deposits Attached Grease, from 4 to 8 o'clock, 5", within 8 inch: NO	00:03:59	6274	M 2
	43.60	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:04:26	6275	
	49.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:04:50	6276	
	53.70	Crack Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:05:29	6277	S 1
	59.70	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:06:13	6278	S 1
	66.40	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:07:07	6279	S 2
	72.20	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:08:45	6280	S 1
	81.10	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:09:31	6281	S 1
	82.70	Water Level, 20", within 8 inch: NO	00:09:53	6282	M 2
	93.60	Crack Circumferential, from 2 to 10 o'clock, within 8 inch: YES	00:10:29	6283	S 1
	107.40	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:11:20	6284	
	111.10	Water Level, 10", within 8 inch: NO	00:11:45	6285	M 2
	157.50	Crack Circumferential, from 7 to 11 o'clock, within 8 inch: YES	00:13:21	6286	S 1
	158.90	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:13:45	6287	
	163.20	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:14:11	6288	S 1



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 757	PSR: 73506
Total Pipe Length: 265.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:396	position	observation	MPEG	photo	grade
	<u>172.50</u>	Crack Circumferential, from 9 to 10 o'clock, within 8 inch: YES	00:15:12	6289	S 1
	<u>172.50</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:15:21	6290	S 2
	<u>172.50</u>	Roots Fine Joint, from 12 to 1 o'clock, within 8 inch: YES	00:15:47	6291	
	<u>178.50</u>	Roots Fine Joint, from 1 to 2 o'clock, within 8 inch: YES	00:16:15	6292	
	<u>178.50</u>	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:16:28	6293	S 1
	<u>180.70</u> S1	Deposits Attached Grease, from 5 to 7 o'clock, 5", within 8 inch: NO, Start	00:16:59	6294	M 2
	<u>200.00</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:17:56	6295	S 2
	<u>200.00</u>	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:18:23	6296	
	<u>206.20</u>	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:19:06	6297	S 2
	<u>209.40</u>	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	00:19:55	6298	S 2
	<u>209.40</u>	Roots Medium Joint, from 9 to 1 o'clock, 15", within 8 inch: YES	00:20:17	6299	
	<u>210.50</u>	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:20:32	6300	
	<u>233.00</u>	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:21:29	6301	
	<u>233.00</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:21:39	6302	S 2
	<u>251.50</u>	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:22:49	6303	S 1
	<u>251.50</u>	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:22:59	6304	
	<u>251.50</u> F1	Deposits Attached Grease, from 5 to 7 o'clock, 5", within 8 inch: NO, End	00:23:24	6305	M 2
	<u>257.80</u>	Hole Soil Visible, from 12 to 1 o'clock, within 8 inch: YES	00:24:17	6306	S 5
	<u>257.80</u>	Fracture Circumferential, from 7 to 12 o'clock, within 8 inch: YES	00:24:38	6307	S 2
	<u>267.20</u>	Vermin Cockroach, within 8 inch: NO	00:25:42	6308	M 1
	<u>267.20</u>	Manhole, within 8 inch: NO, Remarks: 1593-0064	00:25:56	6309	



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 754	PSR: 73513
Total Pipe Length: 326.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:363	position	observation	MPEG	photo	grade
	151.80	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:25:48	6160	
	153.20	Crack Circumferential, from 2 to 9 o'clock, within 8 inch: YES	00:26:17	6161	S 1
	156.20	Crack Circumferential, from 11 to 4 o'clock, within 8 inch: YES	00:27:01	6162	S 1
	160.50	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:27:55	6163	
	160.50	Broken, at 2 o'clock, within 8 inch: NO, Remarks: broken pipe in lateral	00:28:17	6164	S 4
	174.50	Water Level, 10", within 8 inch: NO	00:29:23	6165	M 2
	180.40	Crack Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:29:50	6166	S 1
	197.20	Water Level, 5", within 8 inch: NO	00:30:54	6167	M 2
	203.00	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:31:14	6168	
	210.50	Fracture Circumferential, from 4 to 9 o'clock, within 8 inch: YES	00:31:57	6169	S 2
	217.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:32:49	6170	
	250.20	Crack Circumferential, from 7 to 1 o'clock, within 8 inch: YES	00:34:13	6171	S 1
	251.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:34:42	6172	
	271.10	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:35:51	6173	S 1
	272.00	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:36:17	6174	
	291.90	Crack Circumferential, from 9 to 1 o'clock, within 8 inch: YES	00:37:09	6175	S 1
	302.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:37:55	6176	
	305.30	Water Level, 10", within 8 inch: NO	00:38:10	6177	M 2
	306.70	Crack Circumferential, from 11 to 12 o'clock, within 8 inch: YES	00:38:23	6178	S 1
	318.90	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:39:30	6179	S 2
	319.90	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:39:59	6180	
	324.60	Vermin Cockroach, within 8 inch: NO	00:40:34	6181	M 1
	324.60	Manhole, within 8 inch: NO, Remarks: 1593-0066	00:40:48	6182	





Inspection report

Date: 02/21/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 762	PSR: 73559
Total Pipe Length: 335.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0108
City: ZLAS	Year Renewed	End MH: 1593-0107
Location Code: A Main Highway - Urban	Tape/Media # M313-023	pipe length: 266.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0107/1593-0108/1593	Lining Method:
	Category:

Remark::

1:396	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0108	00:00:30	6395	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:45	6396	M 1
	6.00	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:01:42	6397	S 1
	6.00	Water Level, 5", within 8 inch: NO	00:02:04	6398	M 2
	46.20	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:03:29	6399	S 1
	48.90	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:04:06	6400	S 1
	52.00	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:04:28	6401	S 1
	56.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:06	6402	
	64.20	Broken Void Visible, from 9 to 3 o'clock, within 8 inch: NO, Remarks: broken pipe	00:06:09	6403	S 5
	67.20	Water Level, 10", within 8 inch: NO	00:06:59	6404	M 2
	83.80	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:07:45	6405	S 1
	96.10	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:08:53	6406	S 1
	99.10	Crack Circumferential, from 10 to 11 o'clock, within 8 inch: YES	00:09:29	6407	S 1
	99.10	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:09:51	6408	S 1
	100.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:23	6409	
	101.80	Crack Circumferential, from 10 to 1 o'clock, within 8 inch: YES	00:10:50	6410	S 1
	114.00	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:11:41	6411	S 1
	123.40	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:12:27	6412	S 1
	142.00	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:13:29	6413	S 1
	148.20	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:14:13	6414	S 1
	151.00	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:14:56	6415	
	152.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:32	6416	



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 762	PSR: 73559
Total Pipe Length: 335.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:396	position	observation	MPEG	photo	grade
	165.90	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:16:33	6417	S 1
	175.00	Crack Circumferential, from 1 to 2 o'clock, within 8 inch: YES	00:17:34	6418	S 1
	181.10	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:18:44	6419	S 1
	181.10	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:19:03	6420	
	187.20 S1	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Start	00:19:56	6421	S 1
	187.20	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:20:21	6422	
	203.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:32	6423	
	229.90	Roots Fine Joint, from 7 to 11 o'clock, within 8 inch: YES	00:23:10	6424	
	245.30	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:24:16	6425	
	252.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:25:04	6426	
	257.00	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:25:31	6427	
	1593-0107 263.00	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:26:15	6428	
	266.60	Vermin Cockroach, within 8 inch: NO	00:26:53	6429	M 1
	266.60 F1	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, End	00:27:08	6430	S 1
	266.60	Manhole, within 8 inch: NO, Remarks: 1593-0107	00:27:30	6431	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
511C	2212	23	6	29	1.21	1.5	1.26



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 275	PSR: 72907
Total Pipe Length: 309.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:363	position	observation	MPEG	photo	grade
	159.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:22:42	5834	
	161.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:23:01	5835	
	177.60 S6	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:23:58	5836	S 4
	177.60	Deformed, 10 #, within 8 inch: NO	00:24:17	5837	S 4
	188.30	Roots Fine Barrel, at 10 o'clock, within 8 inch: NO	00:25:15	5838	M 2
	188.70	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:25:42	5839	
	195.30 S7	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:26:30	5840	
	195.30	Joint Offset Medium, within 8 inch: NO	00:26:48	5841	S 1
	195.60 F6	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:27:21	5842	S 4
	201.50	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:28:26	5843	S 4
	205.10	Crack Multiple, from 8 to 3 o'clock, within 8 inch: YES	00:29:08	5844	S 3
	209.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:29:47	5845	
	209.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:30:03	5846	M 1
	211.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:30:31	5847	
	211.70	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:30:48	5848	M 1
	235.90	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:32:22	5849	S 4
	237.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:33:33	5850	S 4
	240.00	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:34:43	5851	S 3
	240.00	Deformed, 10 #, within 8 inch: NO	00:35:05	5852	S 4
	241.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:35:51	5853	
	241.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:36:08	5854	M 1
	242.70	Joint Offset Medium, within 8 inch: NO	00:36:49	5855	S 1
	243.90 F7	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:37:27	5856	
	243.90	Joint Separated Medium, within 8 inch: NO	00:37:49	5857	S 1
	243.90	Material Change, within 8 inch: NO, Remarks: cast-iron	00:38:17	5858	
	245.80	Manhole, within 8 inch: NO, Remarks: 1593-0722, bell	00:39:46	5859	

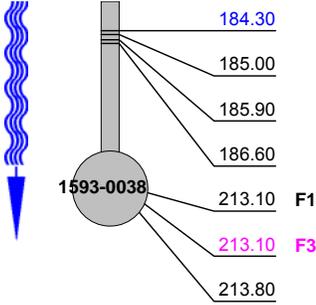
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4A34	2213	73	7	80	2.7	1.4	2.5



Inspection report

Date: 03/09/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 385	PSR: 73611
Total Pipe Length: 216.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:429	position	observation	MPEG	photo	grade
	184.30	Joint Offset Large, within 8 inch: NO	00:24:17	7902	S 2
	185.00	Tap Break-in Active, at 12 o'clock, 6", within 8 inch: NO	00:24:56	7903	
	185.90	Joint Offset Medium, within 8 inch: NO	00:25:18	7904	S 1
	186.60	Joint Offset Medium, within 8 inch: NO	00:25:49	7905	S 1
	213.10 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:27:45	7906	
	213.10 F3	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:28:03	7907	S 4
	213.80	Manhole, within 8 inch: NO, Remarks: 1593-0038	00:28:55	7908	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4833	2300	48	6	54	2.82	2	2.7



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 274	PSR: 71086
Total Pipe Length: 245.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0129
City: ZLAS	Year Renewed:	End MH: 1647-0128
Location Code: D Easement/Right of Way	Tape/Media #: G312-022	pipe length: 244.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0128/1647-0129/1647	Lining Method:
	Category:

Remark::

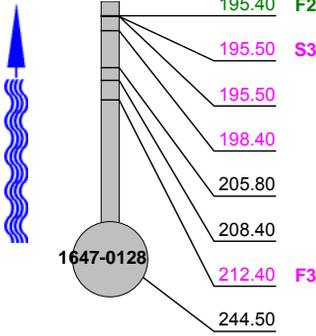
1:462	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0129	00:00:46	5779	
	0.00	Water Level, 15 #, within 8 inch: NO	00:01:30	5780	M 2
	4.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:53	5781	
	4.60	Roots Tap Lateral, at 3 o'clock, 15 #, within 8 inch: NO	00:07:08	5782	M 2
	5.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:07:54	5783	
	7.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:22	5784	
	7.10	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:08:35	5785	M 1
	17.00	Joint Offset Medium, within 8 inch: NO	00:09:29	5786	S 1
	44.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:10:41	5787	
	50.90	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:11:24	5788	S 2
	50.90	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	00:11:44	5789	S 2
	50.90	Crack Longitudinal, at 7 o'clock, within 8 inch: YES	00:12:06	5790	S 2
	54.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:04	5791	
	57.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:36	5792	
	97.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:15:04	5793	S 3
	100.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:00	5794	S 3
	105.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:55	5795	
	107.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:24	5796	
	155.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:56	5797	
	157.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:16	5798	
	162.10	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:19:58	5799	S 3
	168.30	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:20:51	5800	S 4
	172.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:21:36	5801	S 3
	189.50	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:22:33	5802	S 3



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 274	PSR: 71086
Total Pipe Length: 245.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:462	position	observation	MPEG	photo	grade
	195.40 F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:23:27	5803	S 3
	195.50 S3	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:24:01	5804	S 4
	195.50	Deformed, 10 □, within 8 inch: NO	00:24:22	5805	S 4
	198.40	Broken, from 4 to 6 o'clock, within 8 inch: YES	00:25:21	5806	S 4
	205.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:26:16	5807	
	208.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:26:50	5808	
	212.40 F3	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:27:10	5809	S 4
	244.50	Manhole, within 8 inch: NO, Remarks: 1647-0128	00:28:39	5810	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4536	2211	45	5	50	3	1.67	2.78



Inspection report

Date: 03/06/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 358	PSR: 73619
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0045
City: ZLAS	Year Renewed	End MH: 1593-0044
Location Code: D Easement/Right of Way	Tape/Media # G312-030	pipe length: 299.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0044/1593-0045/1593	Lining Method:
	Category:

Remark::

1:594	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0045	00:00:41	7312	
	4.00	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:01:38	7313	S 3
	5.00	Water Level, 5 #, within 8 inch: NO	00:02:45	7314	M 2
	6.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:16	7315	
	8.70	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:03:51	7316	S 2
	8.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:26	7317	
	8.90	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:05:15	7318	S 4
	20.80	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:06:03	7319	
	27.20	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:06:38	7320	
	30.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:07:25	7321	
	30.40	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:07:42	7322	S 3
	43.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:34	7323	
	81.60	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:39	7324	S 3
	87.90	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:11:24	7325	S 3
	96.90	Fracture Multiple, from 4 to 10 o'clock, within 8 inch: YES	00:12:20	7326	S 4
	98.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:13:08	7327	
	105.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:13:49	7328	
	105.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:14:06	7329	S 3
	129.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:15:38	7330	
	155.40	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:16:44	7331	
	155.40	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:16:58	7332	M 1
	209.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:19:53	7333	
	223.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:20:45	7334	



Inspection report

Date: 03/06/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 358	PSR: 73619
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:594	position	observation	MPEG	photo	grade
	263.40	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:23:00	7335	
	264.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:23:29	7336	
	269.10	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:24:24	7337	S 4
	269.10	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:24:52	7338	
	271.90	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:25:50	7339	S 4
	271.90	Broken, from 7 to 8 o'clock, within 8 inch: YES	00:26:10	7340	S 4
	281.00	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:27:07	7341	
	296.30 F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:28:21	7342	S 3
	299.10	Manhole, within 8 inch: NO, Remarks: BURIED, 1593-0044	00:29:29	7343	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4536	2111	40	3	43	3.33	1.5	3.07



Inspection report

Date: 02/23/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 286	PSR: 73605
Total Pipe Length: 354.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 157TH ST	Flow Control: N Not Controlled	Start MH: 1647-0159
City: ZLAS	Year Renewed:	End MH: 1593-0028
Location Code: C Light Highway	Tape/Media #: G312-023	pipe length: 319.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0159/1647-0028/1593	Lining Method:
	Category:

Remark: _____

1:561	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0159	00:00:40	6037	
	4.00	Water Level, 10 #, within 8 inch: NO, Remarks: held by tissue debris	00:01:32	6038	M 2
	5.00	Roots Tap Barrel, at 6 o'clock, 10 #, within 8 inch: NO	00:02:03	6039	M 3
	9.70 S1	Deposits Attached Encrustation, from 4 to 8 o'clock, 10 #, within 8 inch: NO, Remarks: unknown substance, Start	00:02:56	6040	M 2
	26.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:51	6041	
	26.00	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:04:04	6042	M 1
	74.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:11	6043	
	112.40	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:08:20	6044	S 4
	122.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:59	6045	
	123.60	Fracture Circumferential, from 6 to 9 o'clock, within 8 inch: YES	00:09:18	6046	S 2
	124.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:50	6047	
	126.00	Crack Circumferential, from 6 to 8 o'clock, within 8 inch: YES	00:10:27	6048	S 1
	147.20	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:11:20	6049	
	147.20	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:11:39	6050	S 2
	159.60 S2	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES, Start	00:12:32	6051	
	159.70	Fracture Circumferential, from 6 to 9 o'clock, within 8 inch: YES	00:12:59	6052	S 2
	162.70	Fracture Multiple, from 10 to 5 o'clock, within 8 inch: YES	00:13:51	6053	S 4
	174.90	Fracture Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:14:49	6054	S 2
	176.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:21	6055	
	183.40	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:15:49	6056	S 3
	223.00	Fracture Multiple, from 2 to 9 o'clock, within 8 inch: YES	00:18:36	6057	S 4
	227.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:34	6058	



Inspection report

Date: 02/23/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 286	PSR: 73605
Total Pipe Length: 354.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:561	position	observation	MPEG	photo	grade
	243.80	Fracture Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:20:31	6059	S 2
	243.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:20:49	6060	S 3
	246.50 F2	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES, End	00:21:33	6061	
	278.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:24:03	6062	
	313.60	Surface Aggregate Missing, from 2 to 4 o'clock, within 8 inch: YES	00:25:42	6063	
	313.60	Joint Offset Medium, within 8 inch: NO	00:26:12	6064	S 1
	316.80	Joint Separated Medium, within 8 inch: NO	00:26:51	6065	S 1
	316.80	Surface Aggregate Visible Unknown, from 7 to 5 o'clock, within 8 inch: YES	00:27:21	6066	S 3
	319.30 F1	Deposits Attached Encrustation, from 4 to 8 o'clock, 10", within 8 inch: NO, Remarks: unknown substance, End	00:28:03	6067	M 2
	319.30	Manhole, within 8 inch: NO, Remarks: 1593-0028	00:28:38	6068	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4333	3123	34	10	44	2.43	2	2.32



Inspection report

Date: 02/15/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 222	PSR: 71062
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1647

Street: CHADRON AV	Flow Control: N Not Controlled	Start MH: 1647-0111
City: ZLAS	Year Renewed:	End MH: 1647-0045
Location Code: C Light Highway	Tape/Media #: G312-017	pipe length: 351.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0045/1647-0111/1647	Lining Method:
	Category:

Remark::

1:429	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0111	00:00:39	4479	
	5.00	Water Level, 15", within 8 inch: NO	00:01:16	4480	M 2
	5.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:28	4481	
	6.10	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:01:43	4482	S 2
	7.00	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	00:02:55	4483	S 1
	7.00	Crack Circumferential, from 3 to 7 o'clock, within 8 inch: YES	00:02:17	4484	S 1
	7.00	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:02:33	4485	S 2
	16.60	Deposits Attached Grease, from 8 to 4 o'clock, 5", within 8 inch: YES	00:03:47	4486	M 2
	16.60 S1	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES, Start	00:4:10	4487	S 3
	32.90 S2	Water Level Sag, 20", within 8 inch: NO, Start	00:05:11	4488	M 2
	41.30 F1	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES, End	00:05:52	4489	S 3
	48.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:06:34	4490	
	53.00	Fracture Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:07:31	4491	S 4
	53.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:07:45	4492	
	54.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:24	4493	
	54.20	Deposits Attached Grease, from 2 to 3 o'clock, 10", within 8 inch: NO	00:08:40	4494	M 2
	65.60 F2	Water Level Sag, 20", within 8 inch: NO, End	00:09:16	4495	M 2
	65.60	Water Level, 15", within 8 inch: NO	00:09:32	4496	M 2
	74.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:10:24	4497	
	74.40	Deposits Attached Grease, from 3 to 9 o'clock, 5", within 8 inch: YES	00:11:02	4498	M 2
	74.40	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	00:11:21	4499	S 1
	102.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:56	4500	
	102.70	Roots Medium Lateral, at 9 o'clock, 50", within 8 inch: NO	00:13:18	4501	M 3



Inspection report

Date: 02/15/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 222	PSR: 71062
Total Pipe Length: 350.00	Survey Customer: 102.70 ZLAS	System Owner: Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	Clean Date: 02/15/2007	Pre-Cleaned: H Heavy Cleaning 02:56	Map Grid #: 45001647

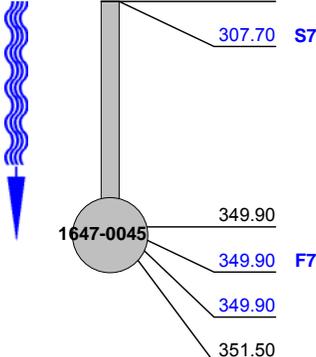
1:429	position	observation	TIME	photo	grade
	102.70	Roots Medium Lateral, at 9 o'clock, 50 □, within 8 inch: NO	00:13:48	4501	M 3
	107.60	Fracture Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:14:12	4502	S 4
	107.60	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:14:47	4503	S 3
	109.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:40	4504	
	119.40	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:16:10	4505	
	135.00	Deposits Attached Grease, from 9 to 11 o'clock, 10 □, within 8 inch: YES	00:16:59	4506	M 2
	137.60 S3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:17:31	4507	
	137.90 S4	Water Level Sag, 20 □, within 8 inch: NO, Start	00:18:01	4508	M 2
	147.30 F4	Water Level Sag, 20 □, within 8 inch: NO, End	00:18:43	4509	M 2
	147.30	Water Level, 15 □, within 8 inch: NO	00:19:01	4510	M 2
	147.30 F3	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:19:24	4511	
	159.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:20:13	4512	
	159.60	Fracture Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:20:37	4513	S 2
	159.60	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:20:54	4514	S 2
	160.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:21:33	4515	
	162.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:22:04	4516	
	162.40	Fracture Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:22:25	4517	S 4
	163.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:23:02	4518	
	215.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:24:21	4519	
	217.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:24:55	4520	
	240.80	Roots Fine Joint, from 1 to 3 o'clock, within 8 inch: YES	00:25:38	4521	
	261.90 S5	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES, Start	00:26:37	4522	
	262.00	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:26:54	4523	S 2
	263.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:27:27	4524	
	263.00	Roots Tap Lateral, at 9 o'clock, 10 □, within 8 inch: NO	00:27:42	4525	M 2
	264.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:28:23	4526	S 3
	264.70 S6	Water Level Sag, 20 □, within 8 inch: NO, Start	00:28:54	4527	M 2
	276.80	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:29:40	4528	S 3
	277.60 F6	Water Level Sag, 20 □, within 8 inch: NO, End	00:30:10	4529	M 2
	277.60	Water Level, 15 □, within 8 inch: NO	00:30:27	4530	M 2
	289.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:31:12	4531	S 3
	307.70 F5	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES, End	00:32:09	4532	
	307.70 S7	Water Level Sag, 20 □, within 8 inch: NO, Remarks: FLOW BEING HELD BY INCOMI, Start	00:33:02	4533	M 2



Inspection report

Date: 02/15/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 222	PSR: 71062
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1647

1:429	position	observation	MPEG	photo	grade
	307.70 F5	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES, End	00:32:09	4532	
	307.70 S7	Water Level Sag, 20 □, within 8 inch: NO, Remarks: FLOW BEING HELD BY INCOMI, Start	00:33:02	4533	M 2
	349.90	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:34:38	4534	S 1
	349.90 F7	Water Level Sag, 20 □, within 8 inch: NO, Remarks: FLOW BEING HELD BY INCOMI, End	00:35:05	4535	M 2
	349.90	Water Level, 10 □, within 8 inch: NO	00:35:22	4536	M 2
	351.50	Manhole, within 8 inch: NO, Remarks: 1647-0045	00:36:08	4537	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4336	312C	44	39	83	2.44	2.05	2.24



Inspection report

Date: 02/19/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 248	PSR: 71008
Total Pipe Length: 274.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: CHADRON AV	Flow Control: N Not Controlled	Start MH: 1647-0182
City: ZLAS	Year Renewed:	End MH: 1647-0181
Location Code: C Light Highway	Tape/Media #: G312-019	pipe length: 224.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0181/1647-0182/1647	Lining Method:
	Category:

Remark::

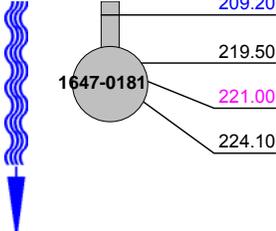
1:495	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0182	00:00:38	5032	
	4.50	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:01:15	5033	
	5.00	Water Level, 10 #, within 8 inch: NO	00:01:34	5034	M 2
	5.70	Fracture Circumferential, from 2 to 3 o'clock, within 8 inch: YES	00:01:56	5035	S 2
	5.70	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:02:13	5036	S 3
	5.70	Infil Weeper, at 3 o'clock, within 8 inch: NO	00:02:32	5037	M 2
	6.60	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:03:13	5038	
	12.30	Fracture Multiple, from 10 to 5 o'clock, within 8 inch: YES	00:03:53	5039	S 4
	22.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:34	5040	
	34.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:10	5041	
	35.70	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:05:46	5042	S 3
	80.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:11	5043	
	113.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:20	5044	
	130.30	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:10:11	5045	S 3
	133.60	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:11:18	5046	S 2
	133.60	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:11:48	5047	
	135.60	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:12:23	5048	S 3
	135.60	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES	00:12:48	5049	S 3
	136.80	Fracture Multiple, from 5 to 10 o'clock, within 8 inch: YES	00:14:28	5050	S 4
	136.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:15:06	5051	
	138.80	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:16:03	5052	S 3
	140.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:37	5053	
	171.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:41	5054	
	192.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:30	5055	



Inspection report

Date: 02/19/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 248	PSR: 71008
Total Pipe Length: 274.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:495	position	observation	MPEG	photo	grade
	<u>209.20</u>	Fracture Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:19:14	5056	S 2
	<u>219.50</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:57	5057	
	<u>221.00</u>	Fracture Multiple, from 2 to 8 o'clock, within 8 inch: YES	00:20:32	5058	S 4
	<u>224.10</u>	Manhole, within 8 inch: NO, Remarks: 1647-0181	00:21:05	5059	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4336	2200	36	4	40	3	2	2.86



Inspection report

Date: 02/19/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 249	PSR: 71006
Total Pipe Length: 215.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: CHADRON AV	Flow Control: N Not Controlled	Start MH: 1647-0181
City: ZLAS	Year Renewed:	End MH: 1647-0180
Location Code: C Light Highway	Tape/Media #: G312-019	pipe length: 223.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0180/1647-0181/1647	Lining Method:
	Category:

Remark: _____

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0181	00:00:41	5060	
	0.00	Water Level, 10", within 8 inch: NO	00:01:08	5061	M 2
	6.90	Fracture Multiple, from 2 to 9 o'clock, within 8 inch: YES	00:01:43	5062	S 4
	7.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:16	5063	
	7.50	Fracture Multiple, from 2 to 10 o'clock, within 8 inch: YES	00:02:34	5064	S 4
	17.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:17	5065	
	51.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:28	5066	
	59.00	Fracture Multiple, from 3 to 10 o'clock, within 8 inch: YES	00:05:14	5067	S 4
	69.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:56	5068	
	77.30	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:06:25	5069	S 2
	77.30	Crack Circumferential, from 2 to 9 o'clock, within 8 inch: YES	00:06:47	5070	S 1
	78.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:17	5071	
	82.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:08:05	5072	S 3
	142.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:55	5073	
	150.20	Joint Offset Medium, within 8 inch: NO	00:10:25	5074	S 1
	151.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:49	5075	
	175.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:38	5076	
	220.30	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:13:02	5077	S 2
	223.30	Manhole, within 8 inch: NO, Remarks: 1647-0180	00:13:35	5078	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4331	2100	21	2	23	2.63	2	2.56



Inspection report

Date: 03/07/2007	P.O.☐ Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 365	PSR: 70994
Total Pipe Length: 275.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/06/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid ☐ 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0168
City: ZLAS	Year Renewed	End MH: 1647-0167
Location Code: D Easement/Right of Way	Tape:Media ☐ G312-031	pipe length: 274.3 ft

Reason for inspection: F Routine Assessment	Dia:Height: C Circular 10"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0167/1647-0168/1647	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0168	00:00:40	7485	
	<u>0.00</u>	Water Level, 15 ☐, within 8 inch: NO	00:1:10	7486	M 2
	2.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:35	7487	
	5.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:09	7488	
	<u>40.20</u>	Fracture Circumferential, from 6 to 10 o'clock, within 8 inch: YES	00:04:01	7489	S 2
	44.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:39	7490	
	47.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:03	7491	
	47.20	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:05:37	7492	M 1
	56.40 S1	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, Start	00:06:19	7493	
	95.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:13	7494	
	97.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:34	7495	
	107.00 F1	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, End	00:09:06	7496	
	<u>107.00</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:09:24	7497	S 4
	145.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:51	7498	
	147.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:10	7499	
	195.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:44	7500	
	197.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:05	7501	
	<u>232.50</u>	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:14:36	7502	S 4
	<u>241.10</u>	Fracture Multiple, from 6 to 10 o'clock, within 8 inch: YES	00:15:33	7503	S 4
	249.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:15	7504	
	<u>251.00</u>	Crack Multiple, from 2 to 6 o'clock, within 8 inch: YES	00:17:09	7505	S 3
	252.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:37	7506	
	<u>252.10</u>	Roots Tap Lateral, at 3 o'clock, 15 ☐, within 8 inch: NO	00:17:53	7507	M 2
	274.30	Manhole, within 8 inch: NO, Remarks: 1647-0167	00:19:05	7508	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4331	2211	17	5	22	3.4	1.67	2.75



Inspection report

Date: 03/09/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 388	PSR: 73507
Total Pipe Length: 174.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/09/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0063
City: ZLAS	Year Renewed	End MH: 1593-0062
Location Code: B Main Highway - Suburban/Rural	Tape Media # G312-033	pipe length: 215.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0062/1593-0063/1593	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0063	00:00:39	7932	
	4.00 S1	Crack Multiple, from 9 to 3 o'clock, within 8 inch: YES, Start	00:01:33	7933	S 3
	5.00	Water Level, 10 □, within 8 inch: NO	00:02:02	7934	M 2
	35.00	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:03:40	7935	
	95.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:05:44	7936	
	99.50	Water Level, 15 □, within 8 inch: NO	00:06:27	7937	M 2
	116.90 S2	Water Level Sag, 20 □, within 8 inch: NO, Start	00:09:27	7938	M 2
	137.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:10:30	7939	
	141.60 F2	Water Level Sag, 20 □, within 8 inch: NO, End	00:10:50	7940	M 2
	141.60	Water Level, 15 □, within 8 inch: NO	00:11:05	7941	M 2
	195.70	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:13:21	7942	
	206.30 F1	Crack Multiple, from 9 to 3 o'clock, within 8 inch: YES, End	00:13:59	7943	S 3
	206.30 S4	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:14:49	7944	S 4
	212.70 F4	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:15:52	7945	S 4
	215.50	Manhole, within 8 inch: NO, Remarks: 1593-0062	00:16:37	7946	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	2500	14	10	24	3.5	2	2.67



Inspection report

Date: 03/06/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 360	PSR: 73617
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0043
City: ZLAS	Year Renewed	End MH: 1593-0042
Location Code: D Easement/Right of Way	Tape/Media # G312-030	pipe length: 299.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0042/1593-0043/1593	Lining Method:
	Category:

Remark::

1:528	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0043	00:00:43	7378	
	<u>0.00</u>	Water Level, 10 #, within 8 inch: NO	00:01:13	7379	M 2
	22.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:01	7380	
	<u>22.60</u>	Water Level, 15 #, within 8 inch: NO	00:02:19	7381	M 2
	22.60	General Observation, within 8 inch: NO, Remarks: water level high due to s	00:28:33	7382	
	<u>48.60</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:29:53	7383	S 4
	<u>52.20</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:53	7384	S 4
	79.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:31:28	7385	
	<u>111.50</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:32:45	7386	S 2
	111.50	Roots Fine Joint, from 7 to 3 o'clock, within 8 inch: YES	00:33:14	7387	
	<u>111.50</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:33:44	7388	S 2
	114.30	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:35:08	7389	
	<u>114.30</u>	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:35:32	7390	S 1
	117.30	Roots Fine Joint, from 4 to 9 o'clock, within 8 inch: YES	00:36:26	7391	
	<u>117.30</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:36:55	7392	S 2
	130.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:37:52	7393	
	<u>131.60</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:38:21	7394	S 2
	140.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:39:19	7395	
	<u>140.90</u>	Crack Circumferential, from 2 to 10 o'clock, within 8 inch: YES	00:39:56	7396	S 1
	143.40	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:40:37	7397	
	<u>174.40</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:42:13	7398	S 3
	178.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:42:52	7399	
	<u>200.60</u> S2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:44:06	7400	S 3



Inspection report

Date: 03/06/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 360	PSR: 73617
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:528	position	observation	MPEG	photo	grade
	222.90	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:45:21	7401	
	226.60	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:46:26	7402	
	239.90	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:47:35	7403	
	242.50 S3	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES, Start	00:48:30	7404	
	273.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:50:31	7405	
	298.70 F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:53:19	7406	S 3
	298.70 F3	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES, End	00:53:35	7407	
	299.80	Manhole, within 8 inch: NO, Remarks: buried, 1593-0042	00:54:47	7408	



Inspection report

Date: 03/02/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 339	PSR: 68205
Total Pipe Length: 247.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/01/2007	Pre-Cleaned: J Jetting	Map Grid #: 1701

Street: 126TH ST	Flow Control: N Not Controlled	Start MH: 1701-0468
City: ZLAS	Year Renewed:	End MH: 1701-0424
Location Code: C Light Highway	Tape/Media #: G312-028	pipe length: 260.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0424/1701-0468/1701	Lining Method:
	Category:

Remark::

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1701-0468	00:00:40	6953	
	5.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:33	6954	
	6.00	Water Level, 5", within 8 inch: NO	00:02:02	6955	M 2
	6.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:02:38	6956	S 3
	7.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:09	6957	
	15.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:54	6958	S 3
	25.60	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:04:46	6959	
	44.10	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:06:05	6960	
	53.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:55	6961	
	55.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:07:30	6962	
	76.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:37	6963	
	82.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:07	6964	
	90.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:09:52	6965	S 3
	119.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:12	6966	
	121.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:39	6967	
	140.30	Fracture Multiple, from 4 to 9 o'clock, within 8 inch: YES	00:12:49	6968	S 4
	167.50	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:14:29	6969	S 4
	172.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:10	6970	
	173.70 S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:15:52	6971	S 3
	181.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:37	6972	
	221.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:34	6973	
	250.50 F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:20:27	6974	S 3
	254.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:15	6975	
	260.10	Manhole, within 8 inch: NO, Remarks: 1701-0424	00:21:57	6976	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4235	2100	23	2	25	3.29	2	3.13



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 272	PSR: 71128
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

Street: 127TH ST	Flow Control: N Not Controlled	Start MH: 1646-0066
City: ZLAS	Year Renewed:	End MH: 1646-0065
Location Code: C Light Highway	Tape/Media # G312-022	pipe length: 351 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0066/1646-0065/1646	Lining Method:
	Category:

Remark::

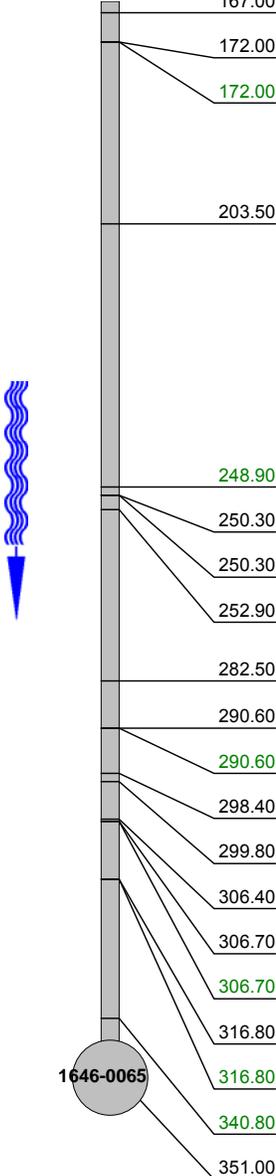
1:396	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0066	00:00:41	5712	
	0.00	Water Level, 10 #, within 8 inch: NO	00:1:10	5713	M 2
	9.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:37	5714	
	10.40	Broken, from 3 to 5 o'clock, within 8 inch: YES	00:02:44	5715	S 4
	10.40	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:3:10	5716	S 3
	10.40	Surface Aggregate Visible, from 2 to 5 o'clock, within 8 inch: YES	00:02:20	5717	
	10.50	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:03:39	5718	S 2
	10.50	Fracture Circumferential, from 8 to 9 o'clock, within 8 inch: YES	00:04:04	5719	S 2
	10.50	Fracture Multiple, from 10 to 3 o'clock, within 8 inch: YES	00:04:57	5720	S 4
	11.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:56	5721	
	61.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:42	5722	
	82.70	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:08:29	5723	S 3
	82.80	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:08:58	5724	S 3
	83.40 S1	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, Start	00:09:31	5725	S 2
	83.40	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:10:08	5726	S 3
	90.20 F1	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, End	00:11:09	5727	S 2
	101.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:53	5728	
	106.50	Crack Multiple, from 9 to 4 o'clock, within 8 inch: YES	00:12:42	5729	S 3
	107.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:30	5730	
	132.60	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:14:43	5731	S 3
	150.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:50	5732	
	152.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:26	5733	S 3



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 272	PSR: 71128
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

1:396	position	observation	MPEG	photo	grade
	167.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:19	5734	
	172.00	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:17:58	5735	S 1
	172.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:52	5736	S 3
	203.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:16	5737	
	248.90	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:21:44	5738	S 3
	250.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:22:18	5739	
	250.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:22:33	5740	M 1
	252.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:23:07	5741	
	282.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:24:30	5742	
	290.60	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:25:08	5743	
	290.60	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:25:30	5744	S 3
	298.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:26:13	5745	
	299.80	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:26:34	5746	
	306.40	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:27:09	5747	S 1
	306.70	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:27:45	5748	
	306.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:28:01	5749	S 3
	316.80	Roots Fine Joint, from 7 to 3 o'clock, within 8 inch: YES	00:29:07	5750	
	316.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:29:31	5751	S 3
	340.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:31:35	5752	S 3
	351.00	Manhole, within 8 inch: NO, Remarks: 1646-0065	00:32:31	5753	





Inspection report

Date: 02/13/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 191	PSR: 71013
Total Pipe Length: 220.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: OGRAM AV	Flow Control: N Not Controlled	Start MH: 1647-0187
City: ZLAS	Year Renewed:	End MH: 1647-0186
Location Code: C Light Highway	Tape/Media #: G312-015	pipe length: 209.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0186/1647-0187/1647	Lining Method:
	Category:

Remark::

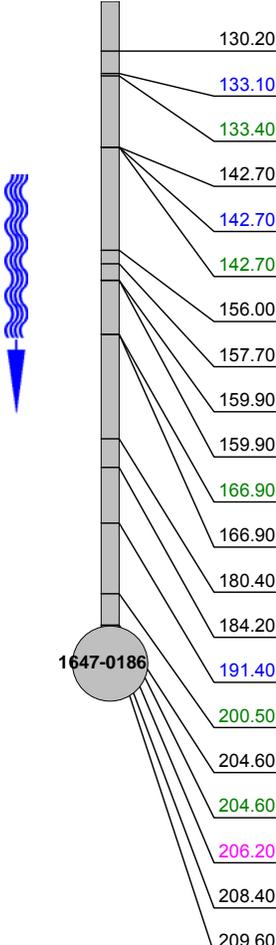
1:297	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0187	00:00:44	3862	
	0.00	Water Level, 10 #, within 8 inch: NO	00:01:21	3863	M 2
	13.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:56	3864	
	19.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:22	3865	
	19.20	Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: NO	00:02:56	3866	S 2
	19.20	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: NO	00:03:23	3867	S 1
	20.40	Crack Multiple, from 2 to 10 o'clock, within 8 inch: YES	00:04:05	3868	S 3
	41.30	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:05:12	3869	
	70.10	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:06:13	3870	S 2
	70.10	Crack Multiple, from 3 to 6 o'clock, within 8 inch: YES	00:06:48	3871	S 3
	71.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:18	3872	
	78.80	Roots Fine Joint, from 9 to 10 o'clock, within 8 inch: YES	00:07:56	3873	
	78.80	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:08:23	3874	S 1
	81.80	Crack Circumferential, from 3 to 8 o'clock, within 8 inch: YES	00:09:16	3875	S 1
	94.20	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:10:09	3876	S 3
	94.20	Joint Offset Medium, within 8 inch: NO	00:10:34	3877	S 1
	95.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:58	3878	
	95.40	Crack Longitudinal, at 3 o'clock, within 8 inch: NO	00:11:19	3879	S 2
	99.90	Fracture Multiple, from 9 to 11 o'clock, within 8 inch: YES	00:12:05	3880	S 4
	99.90	Crack Multiple, from 7 to 9 o'clock, within 8 inch: YES	00:12:30	3881	S 3
	99.90	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:12:44	3882	S 2
	100.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:34	3883	
	102.70	Water Level, 15 #, within 8 inch: NO	00:13:55	3884	M 2



Inspection report

Date: 02/13/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 191	PSR: 71013
Total Pipe Length: 220.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:297	position	observation	MPEG	photo	grade
	130.20	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:15:36	3885	
	133.10	Water Level, 10 #, within 8 inch: NO, Remarks: held by tissue debris	00:16:36	3886	M 2
	133.40	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:17:22	3887	S 3
	142.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:38	3888	
	142.70	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:19:17	3889	S 2
	142.70	Crack Multiple, from 10 to 2 o'clock, within 8 inch: YES	00:19:42	3890	S 3
	156.00	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:21:07	3891	
	157.70	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:21:42	3892	
	159.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:22:23	3893	
	159.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:22:41	3894	M 1
	166.90	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:23:45	3895	S 3
	166.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:24:01	3896	
	180.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:25:09	3897	
	184.20	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:25:40	3898	
	191.40	Water Level, 15 #, within 8 inch: NO	00:26:05	3899	M 2
	200.50	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:26:59	3900	S 3
	204.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:27:36	3901	
	204.60	Crack Multiple, from 8 to 10 o'clock, within 8 inch: NO	00:27:49	3902	S 3
	206.20	Fracture Multiple, from 1 to 8 o'clock, within 8 inch: YES	00:28:38	3903	S 4
	208.40	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:29:20	3904	S 1
	209.60	Manhole, within 8 inch: NO, Remarks: 1647-0186	00:29:55	3905	





Inspection report

Date: 03/05/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 354	PSR: 73601
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0034
City: ZLAS	Year Renewed	End MH: 1593-0019
Location Code: D Easement/Right of Way	Tape/Media # G312-029	pipe length: 254.9 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0019/1593-0034/1593	Lining Method:
	Category:

Remark::

1:330	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0034	00:00:45	7180	
	2.00	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:01:47	7181	S 3
	2.00	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:02:02	7182	S 3
	2.00	Roots Fine Barrel, at 8 o'clock, within 8 inch: NO	00:02:17	7183	M 2
	4.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:15	7184	S 4
	5.00	Water Level, 10 #, within 8 inch: NO	00:04:11	7185	M 2
	22.30	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:05:00	7186	
	22.30	Crack Multiple, from 2 to 10 o'clock, within 8 inch: YES	00:05:18	7187	S 3
	28.80	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:06:15	7188	S 1
	28.80	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:06:40	7189	S 2
	34.30	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:07:26	7190	S 2
	34.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:8:10	7191	S 4
	35.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:43	7192	
	38.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:09:05	7193	
	76.20	Joint Offset Medium, within 8 inch: NO	00:10:21	7194	S 1
	76.20	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:10:38	7195	S 1
	107.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:11:55	7196	
	109.10	Crack Multiple, from 9 to 2 o'clock, within 8 inch: YES	00:12:27	7197	S 3
	110.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:12:58	7198	
	130.60	Roots Fine Joint, from 3 to 10 o'clock, within 8 inch: YES	00:13:46	7199	
	133.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:14:31	7200	S 3
	133.90	Roots Fine Joint, from 10 to 5 o'clock, within 8 inch: YES	00:14:46	7201	



Inspection report

Date: 03/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 354	PSR: 73601
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:330	position	observation	MPEG	photo	grade
	146.40	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:15:44	7202	
	146.40	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:16:05	7203	S 1
	155.40	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:17:10	7204	S 3
	155.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:17:25	7205	
	156.20	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:17:55	7206	
	158.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:18:16	7207	
	163.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:44	7208	
	170.00	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:20:04	7209	S 2
	170.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:20:21	7210	
	172.70	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, Start	00:21:27	7211	
	213.60	Roots Medium Lateral, from 8 to 10 o'clock, 15", within 8 inch: NO	00:23:36	7212	M 3
	215.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:25:18	7213	
	216.70	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:26:21	7214	
	230.50	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES, End	00:27:27	7215	
	246.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:29:07	7216	
	249.20	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:30:12	7217	S 3
	249.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:30:30	7218	
	251.40	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:31:38	7219	
	251.40	Roots Tap Lateral, at 3 o'clock, 15", within 8 inch: NO	00:31:58	7220	M 2
	252.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:32:41	7221	
	252.20	Crack Circumferential, from 2 to 3 o'clock, within 8 inch: YES	00:32:59	7222	S 1
	253.20	Tap Factory Active, at 6 o'clock, 6", within 8 inch: NO	00:33:48	7223	
	253.20	Crack Multiple, from 5 to 7 o'clock, within 8 inch: NO	00:34:08	7224	S 3
	254.20	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:35:00	7225	S 1
	254.20	Roots Fine Barrel, from 7 to 6 o'clock, within 8 inch: NO	00:35:18	7226	M 2
	254.90	Manhole, within 8 inch: NO, Remarks: DROP 1593-0019	00:36:24	7227	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4238	3124	44	11	55	2.32	2.2	2.29



Inspection report

Date: 03/05/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 355	PSR: 73606
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid # 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0031
City: ZLAS	Year Renewed	End MH: 1593-0030
Location Code: D Easement/Right of Way	Tape/Media # G312-029	pipe length: 255.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0030/1593-0031/1593	Lining Method:
	Category:

Remark::

1:396	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0031	00:00:40	7228	
	5.00	Water Level, 10 #, within 8 inch: NO	00:02:06	7229	M 2
	9.60	Roots Fine Joint, from 4 to 9 o'clock, within 8 inch: YES	00:02:30	7230	
	17.10	Crack Multiple, from 4 to 2 o'clock, within 8 inch: NO	00:03:24	7231	S 3
	18.00	Tap Factory Defective, at 2 o'clock, 4", within 8 inch: NO	00:03:58	7232	M 2
	18.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:43	7233	S 4
	18.60	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:05:01	7234	
	20.80	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:05:35	7235	
	30.90	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:06:26	7236	S 3
	57.90	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:07:34	7237	
	61.20 S1	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES, Start	00:08:04	7238	
	67.20	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:09:06	7239	S 4
	68.90	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:09:38	7240	
	71.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:10:00	7241	
	72.00	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:10:14	7242	S 2
	72.10	Joint Offset Medium, within 8 inch: NO	00:10:46	7243	S 1
	90.50 F1	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES, End	00:11:42	7244	
	90.50	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:11:58	7245	S 2
	90.50	Crack Circumferential, from 9 to 11 o'clock, within 8 inch: YES	00:12:12	7246	S 1
	119.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:13:29	7247	
	122.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:13:46	7248	
	122.90	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:14:01	7249	S 2
	156.70	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:15:18	7250	S 3
	156.70	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:15:33	7251	S 1



Inspection report

Date: 03/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 355	PSR: 73606
Total Pipe Length: 255.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:396	position	observation	MPEG	photo	grade
	170.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:16:22	7252	
	173.10	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:17:06	7253	
	201.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:18	7254	S 3
	221.40	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:19:12	7255	
	221.90	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:19:27	7256	S 2
	223.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:19:54	7257	
	247.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:20:39	7258	
	248.10	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:20:53	7259	S 2
	250.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:21:23	7260	
	255.60	Manhole, within 8 inch: NO, Remarks: 1593-0030	00:22:13	7261	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4234	2200	33	4	37	2.36	2	2.31



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 266	PSR: 71094
Total Pipe Length: 291.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0135
City: ZLAS	Year Renewed:	End MH: 1647-0136
Location Code: D Easement/Right of Way	Tape/Media #: G312-021	pipe length: 291 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0135/1647-0136/1647	Lining Method:
	Category:

Remark::

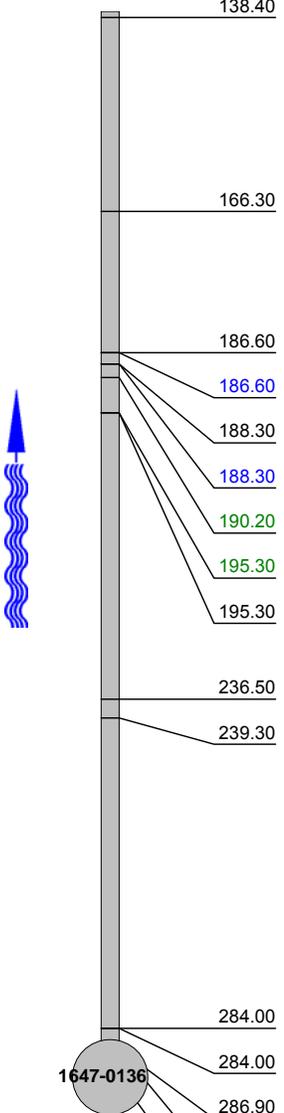
1:330	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0135	00:00:42	5580	
	5.00	Water Level, 10 □, within 8 inch: NO	00:01:28	5581	M 2
	9.40	S1 Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, Start	00:01:54	5582	
	14.10	Roots Tap Barrel, from 6 to 8 o'clock, 10 □, within 8 inch: NO	00:03:23	5583	M 3
	17.80	F1 Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, End	00:04:46	5584	
	17.80	Roots Tap Joint, from 3 to 9 o'clock, 15 □, within 8 inch: YES	00:05:07	5585	
	21.20	Roots Tap Joint, from 3 to 9 o'clock, 15 □, within 8 inch: YES	00:06:33	5586	
	24.20	Roots Tap Joint, from 2 to 10 o'clock, 20 □, within 8 inch: YES	00:07:17	5587	
	27.30	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:08:24	5588	
	33.20	Roots Tap Joint, from 7 to 10 o'clock, 15 □, within 8 inch: YES	00:09:06	5589	
	34.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:36	5590	
	35.40	Deposits Attached Grease, from 3 to 9 o'clock, 10 □, within 8 inch: NO	00:09:57	5591	M 2
	37.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:25	5592	
	59.20	S2 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:11:14	5593	
	59.20	Joint Offset Medium, within 8 inch: NO	00:11:31	5594	S 1
	88.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:54	5595	
	88.00	Roots Tap Lateral, at 9 o'clock, 15 □, within 8 inch: NO	00:13:08	5596	M 2
	90.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:39	5597	
	94.90	F2 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:14:03	5598	
	135.60	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:15:40	5599	S 3
	135.60	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:15:55	5600	S 2
	135.60	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO	00:16:49	5601	M 2
	135.60	Deformed, 10 □, within 8 inch: NO	00:17:06	5602	S 4
	135.60	Fracture Multiple, from 8 to 10 o'clock, within 8 inch: NO	00:17:26	5603	S 4
	135.90	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:18:01	5604	S 3



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 266	PSR: 71094
Total Pipe Length: 291.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:330	position	observation	MPEG	photo	grade
	138.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:31	5605	
	166.30	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	00:19:25	5606	
	186.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:19	5607	
	186.60	Roots Tap Lateral, at 9 o'clock, 15", within 8 inch: NO	00:20:36	5608	M 2
	188.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:15	5609	
	188.30	Roots Tap Lateral, at 3 o'clock, 15", within 8 inch: NO	00:21:33	5610	M 2
	190.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:22:28	5611	S 3
	195.30	Fracture Longitudinal, at 1 o'clock, within 8 inch: YES	00:23:18	5612	S 3
	195.30	Roots Fine Joint, at 1 o'clock, within 8 inch: YES	00:23:32	5613	
	236.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:24:57	5614	
	239.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:25:17	5615	
	284.00	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:26:44	5616	M 1
	284.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:26:32	5617	
	286.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:27:11	5618	
	286.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:27:25	5619	M 1
	291.00	Manhole, within 8 inch: NO, Remarks: buried, 1647-0136	00:28:22	5620	





Inspection report

Date: 02/23/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 283	PSR: 70987
Total Pipe Length: 210.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 157TH ST	Flow Control: N Not Controlled	Start MH: 1647-0161
City: ZLAS	Year Renewed:	End MH: 1647-0160
Location Code: C Light Highway	Tape/Media # G312-023	pipe length: 260 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0160/1647-0161/1647	Lining Method:
	Category:

Remark::

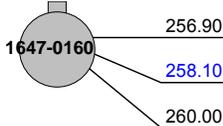
1:594	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0161	00:00:40	5989	
	5.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:41	5990	
	5.00	Water Level, 5", within 8 inch: NO	00:01:54	5991	M 2
	6.60	Fracture Multiple, from 7 to 10 o'clock, within 8 inch: YES	00:02:20	5992	S 4
	6.60	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:02:41	5993	
	6.60	Fracture Circumferential, from 3 to 6 o'clock, within 8 inch: YES	00:03:27	5994	S 2
	7.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:06	5995	
	11.00	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:05:09	5996	S 3
	13.90	Crack Multiple, from 2 to 9 o'clock, within 8 inch: YES	00:07:10	5997	S 3
	13.90	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:06:35	5998	
	105.50	Fracture Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:10:26	5999	S 2
	105.50	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:10:56	6000	S 2
	106.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:31	6001	
	126.60	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:13:00	6002	S 2
	129.50	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:13:56	6003	S 2
	130.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:36	6004	
	135.00	Roots Fine Joint, from 7 to 2 o'clock, within 8 inch: YES	00:15:30	6005	
	135.00	Crack Circumferential, from 8 to 11 o'clock, within 8 inch: YES	00:15:55	6006	S 1
	156.60	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:17:38	6007	S 4
	157.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:18:56	6008	
	195.80	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:20:29	6009	S 1
	197.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:11	6010	
	208.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:22:02	6011	



Empire Pipe Cleaning
 1788 North Neville St.
 Orange, Ca. 92865
 Tel: (714) 639-8352, Fax: (714) 283-8578

Inspection report

Date: 02/23/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 283	PSR: 70987
Total Pipe Length: 210.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:594	position	observation	MPEG	photo	grade		
		Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:23:56	6012			
		Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:24:21	6013	S 2		
		Manhole, within 8 inch: NO, Remarks: 1647-0161	00:25:12	6014			
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	2100	28	2	30	2.33	2	2.31



Inspection report

Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 303	PSR: 71113
Total Pipe Length: 265.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0154
City: ZLAS	Year Renewed:	End MH: 1647-0153
Location Code: D Easement/Right of Way	Tape/Media #: G312-024	pipe length: 265.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0153/1647-0154/1647	Lining Method:
	Category:

Remark::

1:561	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0154	00:00:53	6408	
	2.00	Tap Factory Active, at 6 o'clock, 6", within 8 inch: NO, Remarks: drop lateral	00:02:41	6409	
	4.00	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:04:06	6410	S 1
	4.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:19	6411	
	5.00	Water Level, 5", within 8 inch: NO	00:04:52	6412	M 2
	24.30	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:05:35	6413	
	39.60	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:32	6414	S 3
	39.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:06:46	6415	
	42.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:07:26	6416	
	48.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:08:04	6417	
	53.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:44	6418	
	53.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:08:58	6419	M 1
	56.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:31	6420	
	56.00	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:09:46	6421	M 1
	103.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:45	6422	
	103.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:12:03	6423	M 1
	106.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:32	6424	
	141.20	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:13:47	6425	S 2
	150.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:14:23	6426	
	152.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:51	6427	
	154.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:06	6428	
	203.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:21	6429	
	205.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:39	6430	



Inspection report

Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 303	PSR: 71113
Total Pipe Length: 265.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:561	position	observation	MPEG	photo	grade
	<u>243.10</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:17:45	6431	
	<u>243.10</u>	Crack Multiple, from 10 to 5 o'clock, within 8 inch: YES	00:18:03	6432	S 3
	<u>252.10</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:51	6433	
	<u>254.00</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:31	6434	
	<u>254.50</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:20:05	6435	S 4
	<u>254.50</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:20:20	6436	
	<u>256.00</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:12	6437	
	<u>256.00</u>	Roots Tap Lateral, at 9 o'clock, 25 □, within 8 inch: NO	00:21:33	6438	M 2
	<u>263.60</u>	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:23:49	6439	
	<u>263.60</u>	Fracture Multiple, from 7 to 4 o'clock, within 8 inch: YES	00:24:28	6440	S 4
	<u>265.40</u>	Manhole, within 8 inch: NO, Remarks: 1647-0153	00:25:11	6441	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	2213	17	7	24	2.83	1.4	2.18



Inspection report

Date: 03/01/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 334	PSR: 68302
Total Pipe Length: 200.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/28/2007	Pre-Cleaned: J Jetting	Map Grid #: 1701

Street: 124TH ST	Flow Control: N Not Controlled	Start MH: 1701-0396
City: ZLAS	Year Renewed:	End MH: 1701-0394
Location Code: F Sidewalk	Tape/Media #: G312-027	pipe length: 136.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0394/1701-0396/1701	Lining Method:
	Category:

Remark:

1:350	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1701-0396	00:00:40	6902	
	6.00	Water Level, 10", within 8 inch: NO	00:01:19	6903	M 2
	119.30	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:04:50	6904	S 2
	119.30	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:05:19	6905	S 1
	126.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:46	6906	S 4
	133.00	Fracture Multiple, from 2 to 10 o'clock, within 8 inch: YES	00:07:53	6907	S 4
	136.30	Manhole, within 8 inch: NO, Remarks: 1701-0394	00:08:32	6908	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4221	2100	11	2	13	2.75	2	2.6



Inspection report

Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 304	PSR: 71112
Total Pipe Length: 275.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0153
City: ZLAS	Year Renewed:	End MH: 1647-0152
Location Code: D Easement/Right of Way	Tape/Media #: G312-024	pipe length: 274.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0152/1647-0153/1647	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0153	00:00:37	6442	
	<u>0.00</u>	Water Level, 10 #, within 8 inch: NO	00:01:02	6443	M 2
	35.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:54	6444	
	38.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:14	6445	
	86.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:26	6446	
	<u>86.60</u>	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:03:39	6447	M 1
	<u>87.10</u>	Roots Fine Joint, from 1 to 5 o'clock, within 8 inch: YES	00:04:14	6448	
	<u>88.90</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:40	6449	
	137.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:01	6450	
	<u>138.00</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:46	6451	S 4
	<u>138.00</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:07:00	6452	
	<u>140.00</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:29	6453	
	188.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:22	6454	
	190.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:41	6455	
	239.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:52	6456	
	<u>241.80</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:40	6457	
	<u>242.60</u>	Fracture Multiple, from 6 to 10 o'clock, within 8 inch: YES	00:13:08	6458	S 4
	274.60	Manhole, within 8 inch: NO, Remarks: 1647-0152	00:14:29	6459	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	2111	8	3	11	4	1.5	2.75



Inspection report

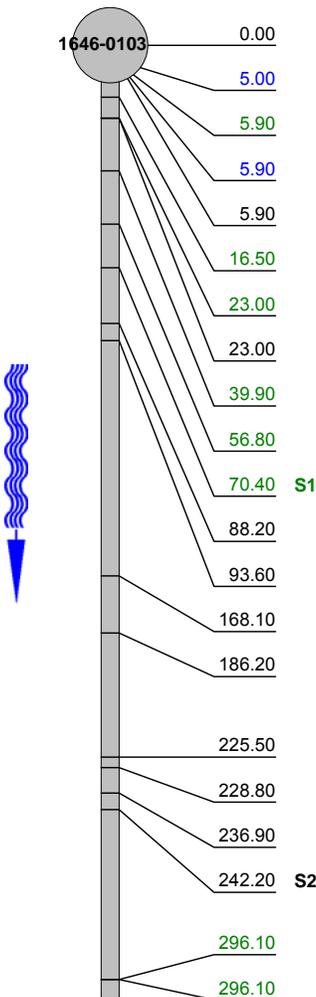
Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 256	PSR: 71157
Total Pipe Length: 355.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

Street: DENKER AV	Flow Control: N Not Controlled	Start MH: 1646-0103
City: ZLAS	Year Renewed:	End MH: 1646-0097
Location Code: C Light Highway	Tape/Media # G312-020	pipe length: 350.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0097/1646-0103/1646	Lining Method:
	Category:

Remark::

1:726	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0103	00:00:39	5269	
	5.00	Water Level, 10 #, within 8 inch: NO	00:01:46	5270	M 2
	5.90	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:02:10	5271	S 3
	5.90	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:02:47	5272	S 2
	5.90	Surface Roughness Increased, from 7 to 5 o'clock, within 8 inch: YES	00:03:39	5273	
	16.50	Crack Multiple, from 7 to 4 o'clock, within 8 inch: YES	00:04:52	5274	S 3
	23.00	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:05:32	5275	S 3
	23.00	Crack Circumferential, from 3 to 4 o'clock, within 8 inch: YES	00:06:00	5276	S 1
	39.90	Crack Multiple, from 7 to 3 o'clock, within 8 inch: YES	00:06:58	5277	S 3
	56.80	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:08:05	5278	S 3
	70.40 S1	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES, Start	00:08:55	5279	S 3
	88.20	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:09:43	5280	
	93.60	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	00:10:06	5281	
	168.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:13:09	5282	
	186.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:07	5283	
	225.50	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:16:10	5284	
	228.80	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:16:50	5285	
	236.90	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:17:37	5286	
	242.20 S2	Roots Fine Joint, from 12 to 1 o'clock, within 8 inch: YES, Start	00:18:21	5287	
	296.10	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:21:54	5288	S 3
	296.10	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:22:11	5289	S 3





Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 256	PSR: 71157
Total Pipe Length: 355.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

1:726	position	observation	MPEG	photo	grade
	<u>310.00</u> F1	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES, End	00:23:58	5290	S 3
	<u>310.00</u> F2	Roots Fine Joint, from 12 to 1 o'clock, within 8 inch: YES, End	00:24:13	5291	
	<u>316.80</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:25:13	5292	S 4
	<u>316.80</u>	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:25:29	5293	
	<u>330.30</u>	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:26:32	5294	S 3
	<u>333.70</u>	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:27:03	5295	S 3
	<u>333.70</u>	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:27:22	5296	S 3
	<u>333.70</u>	Crack Multiple, from 8 to 10 o'clock, within 8 inch: YES	00:27:37	5297	S 3
	<u>337.00</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:28:34	5298	S 3
	<u>340.20</u>	Fracture Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:29:04	5299	S 2
	<u>340.20</u>	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:29:22	5300	S 3
	<u>340.20</u>	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:29:38	5301	S 3
	<u>340.20</u>	Crack Multiple, from 8 to 3 o'clock, within 8 inch: YES	00:29:58	5302	S 3
	<u>340.20</u>	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:30:15	5303	S 3
	<u>350.50</u>	Manhole, within 8 inch: NO, Remarks: 1646-0097	00:31:52	5304	



Inspection report

Date: 03/06/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 359	PSR: 73618
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0044
City: ZLAS	Year Renewed:	End MH: 1593-0043
Location Code: D Easement/Right of Way	Tape/Media #: G312-030	pipe length: 299.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0043/1593-0044/1593	Lining Method:
	Category:

Remark::

1:495	position	observation	MPEG	photo	grade
	<u>0.00</u>	Water Level, 5' □, within 8 inch: NO	00:01:33	7344	M 2
	<u>0.00</u>	Manhole, within 8 inch: NO, Remarks: BURIED, 1593-0044	00:00:48	7345	
	<u>1.80</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:02:22	7346	S 4
	<u>1.80</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:45	7347	
	<u>14.60</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:44	7348	
	<u>25.10</u>	Crack Circumferential, from 5 to 7 o'clock, within 8 inch: YES	00:05:03	7349	S 1
	<u>43.70</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:37	7350	S 3
	<u>50.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:07:35	7351	S 3
	<u>68.90</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:30	7352	
	<u>76.80</u>	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:09:28	7353	S 3
	<u>97.70</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:11:17	7354	S 2
	<u>97.70</u>	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:11:41	7355	S 2
	<u>98.00</u>	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:12:25	7356	S 2
	<u>98.00</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:12:48	7357	S 2
	<u>101.10</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:13:59	7358	S 3
	<u>122.90</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:15:02	7359	
	<u>137.20</u>	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:15:56	7360	S 2
	<u>145.90</u> S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:17:21	7361	S 3
	<u>163.90</u>	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:19:00	7362	
	<u>169.30</u>	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:19:59	7363	S 3
	<u>171.10</u>	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:20:34	7364	
	<u>193.70</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:21:59	7365	
	<u>200.10</u>	Roots Fine Joint, from 9 to 5 o'clock, within 8 inch: YES	00:23:02	7366	



Inspection report

Date: 03/06/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 359	PSR: 73618
Total Pipe Length: 300.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:495	position	observation	MPEG	photo	grade
	212.10	Roots Fine Joint, from 3 to 4 o'clock, within 8 inch: YES	00:23:57	7367	
	221.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:24:54	7368	
	222.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:25:34	7369	
	245.50	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:27:15	7370	
	248.20	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:28:00	7371	
	254.30	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:28:39	7372	
	274.50	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:29:34	7373	S 3
	274.70	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:30:29	7374	S 3
	276.70	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:31:04	7375	
	295.70 F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:32:00	7376	S 3
	299.40	Manhole, within 8 inch: NO, Remarks: 1593-0043	00:34:00	7377	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4139	2100	42	2	44	2.63	2	2.59



Inspection report

Date: 02/14/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 207	PSR: 71011
Total Pipe Length: 205.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: OGRAM AV	Flow Control: N Not Controlled	Start MH: 1647-0186
City: ZLAS	Year Renewed:	End MH: 1647-0185
Location Code: C Light Highway	Tape/Media #: G312-016	pipe length: 198.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0185/1647-0186/1647	Lining Method:
	Category:

Remark::

1:264	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0186	00:00:39	4228	
	1.00	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:01:15	4229	S 3
	1.00	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES	00:01:34	4230	S 3
	5.00	Water Level, 10", within 8 inch: NO	00:02:12	4231	M 2
	24.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:02:51	4232	
	28.30	Tap Break-in Intruding, at 3 o'clock, 6", 1, within 8 inch: NO	00:03:36	4233	M 2
	45.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:23	4234	
	45.50	Roots Tap Lateral, at 3 o'clock, 10", within 8 inch: NO	00:04:41	4235	M 2
	47.20	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:05:18	4236	
	47.20	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:05:54	4237	S 1
	50.10	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:06:37	4238	
	51.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:04	4239	
	51.30	Roots Tap Lateral, at 9 o'clock, 10", within 8 inch: NO	00:07:21	4240	M 2
	65.20	Crack Multiple, from 10 to 8 o'clock, within 8 inch: YES	00:08:34	4241	S 3
	65.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:08:48	4242	
	73.10	Water Level, 15", within 8 inch: NO	00:09:23	4243	M 2
	77.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:09:55	4244	S 4
	93.00	Fracture Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:10:52	4245	S 2
	105.50	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:11:38	4246	S 3
	106.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:06	4247	
	108.10	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:12:35	4248	S 3



Inspection report

Date: 02/14/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 207	PSR: 71011
Total Pipe Length: 205.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:264	position	observation	MPEG	photo	grade
	111.10	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:13:27	4249	
	111.10	Fracture Circumferential, from 6 to 8 o'clock, within 8 inch: YES	00:13:46	4250	S 2
	111.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:21	4251	
	111.90	Roots Tap Lateral, at 9 o'clock, 10 □, within 8 inch: NO	00:14:37	4252	M 2
	113.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:15:30	4253	S 3
	113.70	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:15:50	4254	
	114.10 S1	Water Level Sag, 20 □, within 8 inch: NO, Start	00:16:45	4255	M 2
	119.80 S2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:17:55	4256	S 3
	119.80 S3	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, Start	00:18:14	4257	
	126.00 F3	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End	00:19:15	4258	
	181.50 F2	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:21:39	4259	S 3
	187.60 S4	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:22:17	4260	S 3
	195.70 F1	Water Level Sag, 20 □, within 8 inch: NO, End	00:23:23	4261	M 2
	195.70	Water Level, 10 □, within 8 inch: NO	00:23:37	4262	M 2
	195.70	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES	00:24:18	4263	S 2
	197.80 F4	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:24:46	4264	S 3
	198.80	Manhole, within 8 inch: NO, Remarks: 1647-0185	00:25:17	4265	





Inspection report

Date: 02/21/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 262	PSR: 71130
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid # 1646

Street: 127TH ST	Flow Control: N Not Controlled	Start MH: 1646-0068
City: ZLAS	Year Renewed:	End MH: 1646-0067
Location Code: C Light Highway	Tape/Media # G312-021	pipe length: 345.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0067/1646-0068/1646	Lining Method:
	Category:

Remark::

1:660	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0068	00:00:41	5476	
	<u>0.00</u>	Water Level, 10 #, within 8 inch: NO	00:01:07	5477	M 2
	6.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:33	5478	
	<u>8.20</u>	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:02:13	5479	S 3
	<u>8.20</u>	Crack Multiple, from 3 to 11 o'clock, within 8 inch: YES	00:02:39	5480	S 3
	<u>11.60</u>	Crack Multiple, from 7 to 10 o'clock, within 8 inch: YES	00:03:27	5481	S 3
	12.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:59	5482	
	49.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:5:10	5483	
	65.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:56	5484	
	95.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:02	5485	
	<u>113.90</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:07:52	5486	S 2
	<u>113.90</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:08:14	5487	S 3
	114.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:49	5488	
	161.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:13	5489	
	164.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:43	5490	
	180.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:54	5491	
	186.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:19	5492	
	<u>195.00</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:15:01	5493	S 3
	<u>205.30</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:04	5494	S 4
	<u>205.30</u>	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:16:22	5495	S 3
	226.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:30	5496	
	<u>238.40</u> S1	Crack Multiple, from 7 to 4 o'clock, within 8 inch: YES, Start	00:18:13	5497	S 3
	249.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:22	5498	
	<u>261.10</u>	Deposits Attached Other, from 7 to 9 o'clock, 10 #, within 8 inch: YES	00:20:19	5499	M 2



Inspection report

Date: 02/21/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 262	PSR: 71130
Total Pipe Length: 350.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/20/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

1:660	position	observation	MPEG	photo	grade
		<p style="color: green;">288.40 F1 Crack Multiple, from 7 to 4 o'clock, within 8 inch: YES, End</p> <p>289.50 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO</p> <p>345.70 Manhole, within 8 inch: NO, Remarks: 1646-0067</p>	<p style="color: green;">00:21:56</p> <p>00:22:30</p> <p>00:24:17</p>	<p style="color: green;">5500</p> <p>5501</p> <p>5502</p>	<p style="color: green;">S 3</p>

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4138	2200	30	4	34	3	2	2.83



Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 253	PSR: 71158
Total Pipe Length: 334.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

1:627	position	observation	MPEG	photo	grade
	<u>265.10</u>	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:29:55	5206	S 3
	<u>278.30</u>	Water Level, 15", within 8 inch: NO	00:30:39	5207	M 2
	<u>282.00</u>	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	00:31:06	5208	S 3
	<u>282.00</u>	Crack Circumferential, from 4 to 7 o'clock, within 8 inch: YES	00:31:23	5209	S 1
	<u>285.40</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:32:12	5210	S 4
	<u>285.40</u>	Surface Aggregate Visible, from 3 to 4 o'clock, within 8 inch: NO, Remarks: Not evident	00:36:24	5211	
	<u>286.50</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:37:13	5212	
	<u>287.90</u>	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:38:00	5213	S 1
	<u>287.90</u>	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:38:15	5214	S 1
	<u>287.90</u>	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:38:30	5215	S 2
	<u>287.90</u>	Joint Offset Medium, within 8 inch: NO	00:38:58	5216	S 1
	<u>299.20</u>	Roots Fine Barrel, from 6 to 8 o'clock, within 8 inch: NO	00:40:40	5217	M 2
	<u>324.80</u>	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:42:14	5218	S 1
	<u>324.80</u>	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:42:31	5219	S 2
	<u>326.20</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:43:08	5220	
	<u>327.40</u>	Joint Offset Medium, within 8 inch: NO	00:43:39	5221	S 1
	<u>327.40</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:44:00	5222	S 3
	<u>328.50</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:44:48	5223	
	<u>328.50</u>	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:45:04	5224	M 1
	<u>331.00</u>	Manhole, within 8 inch: NO, Remarks: 1646-0098	00:45:52	5225	



Inspection report

Date: 02/14/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 205	PSR: 71025
Total Pipe Length: 301.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/08/2007	Pre-Cleaned: J Jetting	Map Grid # 1647

Street: 154TH PL	Flow Control: N Not Controlled	Start MH: 1647-0198
City: ZLAS	Year Renewed	End MH: 1647-0197
Location Code: F Sidewalk	Tape/Media # G312-016	pipe length: 250.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0197/1647-0198/1647	Lining Method:
	Category:

Remark::

1:495	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0198	00:00:44	4175	
	5.00	Water Level, 10 #, within 8 inch: NO	00:01:34	4176	M 2
	10.10	Roots Fine Joint, from 9 to 5 o'clock, within 8 inch: YES	00:02:00	4177	
	10.10	Crack Multiple, from 7 to 11 o'clock, within 8 inch: YES	00:02:19	4178	S 3
	45.20	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:03:38	4179	
	45.20	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:03:53	4180	S 2
	46.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:28	4181	
	47.60	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	00:05:15	4182	S 3
	47.60	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:05:29	4183	S 2
	47.60	Roots Fine Joint, from 9 to 10 o'clock, within 8 inch: YES	00:06:57	4184	
	65.90	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:08:15	4185	
	101.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:34	4186	
	118.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:31	4187	S 4
	134.20	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:11:19	4188	
	156.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:19	4189	
	161.70	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:12:54	4190	S 3
	184.20	Water Level, 15 #, within 8 inch: NO	00:13:47	4191	M 2
	189.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:14:38	4192	S 3
	189.30	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:14:23	4193	
	198.50	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:15:20	4194	



Inspection report

Date: 02/14/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 205	PSR: 71025
Total Pipe Length: 301.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:495	position	observation	MPEG	photo	grade
	207.90	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:16:15	4195	
	207.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:38	4196	S 3
	212.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:18	4197	
	213.50	Roots Fine Joint, from 2 to 10 o'clock, within 8 inch: YES	00:17:42	4198	
	222.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:34	4199	
	222.50	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:48	4200	S 3
	225.90	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:19:39	4201	
	241.60	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:20:56	4202	S 3
	241.60	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:21:16	4203	
	247.80	Fracture Longitudinal, at 5 o'clock, within 8 inch: YES	00:22:18	4204	S 3
	247.80	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES	00:22:36	4205	S 3
	247.80	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:23:00	4206	
	250.70	Manhole, within 8 inch: NO, Remarks: 1647-0197	00:23:56	4207	



Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 254	PSR: 71164
Total Pipe Length: 290.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

Street: 123RD ST	Flow Control: N Not Controlled	Start MH: 1646-0105
City: ZLAS	Year Renewed:	End MH: 1646-0104
Location Code: C Light Highway	Tape/Media #: G312-020	pipe length: 335.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0104/1646-0105/1646	Lining Method:
	Category:

Remark::

1:726	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0105	00:00:46	5226	
	5.00	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:01:40	5227	
	<u>7.80</u>	Water Level, 5" , within 8 inch: NO	00:02:05	5228	M 2
	8.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:26	5229	
	<u>38.30</u>	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:03:39	5230	S 3
	59.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:33	5231	
	62.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:05	5232	
	<u>75.10</u>	Crack Multiple, from 7 to 4 o'clock, within 8 inch: YES	00:05:48	5233	S 3
	<u>88.60</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:06:47	5234	S 3
	100.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:33	5235	
	103.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:54	5236	
	127.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:48	5237	
	140.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:26	5238	
	<u>173.20</u>	Crack Multiple, from 8 to 3 o'clock, within 8 inch: YES	00:10:40	5239	S 3
	194.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:39	5240	
	205.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:10	5241	
	255.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:36	5242	
	265.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:11	5243	
	<u>274.60</u>	Fracture Multiple, from 8 to 3 o'clock, within 8 inch: YES	00:14:57	5244	S 4
	<u>278.20</u>	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:15:52	5245	S 3
	279.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:21	5246	
	292.50	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:17:08	5247	

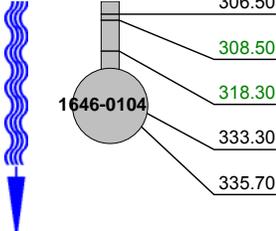


Empire Pipe Cleaning
 1788 North Neville St.
 Orange, Ca. 92865
 Tel: (714) 639-8352, Fax: (714) 283-8578

Inspection report

Date: 02/20/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 254	PSR: 71164
Total Pipe Length: 290.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1646

1:726	position	observation	MPEG	photo	grade
	306.50	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:17:59	5248	
	308.50	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:31	5249	S 3
	318.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:19:21	5250	S 3
	333.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:20:25	5251	
	335.70	Manhole, within 8 inch: NO, Remarks: 1646-0104	00:20:52	5252	



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



Inspection report

Date: 02/19/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 246	PSR: 71009
Total Pipe Length: 210.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/12/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: CHADRON AV	Flow Control: N Not Controlled	Start MH: 1647-0183
City: ZLAS	Year Renewed:	End MH: 1647-0182
Location Code: C Light Highway	Tape/Media #: G312-019	pipe length: 144.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0182/1647-0183/1647	Lining Method:
	Category:

Remark: _____

1:375	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0183	00:00:41	4998	
	5.00	Water Level, 10", within 8 inch: NO	00:01:27	4999	M 2
	6.80	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:01:43	5000	S 3
	6.80	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:01:57	5001	S 3
	7.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:36	5002	
	13.40	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:03:06	5003	
	15.40	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES	00:03:30	5004	S 3
	27.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:28	5005	
	27.80	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:04:42	5006	S 3
	28.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:19	5007	
	68.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:28	5008	
	85.60	Fracture Multiple, from 7 to 10 o'clock, within 8 inch: YES	00:07:12	5009	S 4
	86.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:37	5010	
	88.20	Fracture Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:08:01	5011	S 2
	89.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:29	5012	
	91.10	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:08:47	5013	S 3
	141.30	Roots Tap Lateral, at 3 o'clock, 15", within 8 inch: NO	00:10:54	5014	M 2
	141.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:33	5015	
	142.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:26	5016	
	142.90	Roots Tap Lateral, at 9 o'clock, 25", within 8 inch: NO	00:11:49	5017	M 2
	144.20	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by tap roo	00:13:15	5018	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4135	2300	21	6	27	3	2	2.7



Inspection report

Date: 03/05/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 356	PSR: 73607
Total Pipe Length: 260.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0031
City: ZLAS	Year Renewed:	End MH: 1593-0032
Location Code: D Easement/Right of Way	Tape/Media #: G312-029	pipe length: 260.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0031/1593-0032/1593	Lining Method:
	Category:

Remark::

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0031	00:00:46	7262	
	5.00	Water Level, 10 #, within 8 inch: NO	00:01:32	7263	M 2
	27.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:16	7264	
	30.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:02:35	7265	
	79.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:59	7266	
	81.60	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:19	7267	
	114.20	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:05:16	7268	
	127.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:06:01	7269	
	130.00	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:06:22	7270	
	131.60	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, Start	00:06:44	7271	
	131.70	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:07:01	7272	S 2
	179.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:41	7273	
	181.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:09:04	7274	
	202.40	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:10:03	7275	S 1
	230.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:11:13	7276	
	232.60	Fracture Multiple, from 10 to 8 o'clock, within 8 inch: YES	00:12:01	7277	S 4
	233.20	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:12:32	7278	
	233.50	Fracture Longitudinal, at 9 o'clock, within 8 inch: NO	00:12:53	7279	S 3
	235.00	Crack Multiple, from 3 to 10 o'clock, within 8 inch: YES	00:13:26	7280	S 3
	253.60	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:14:26	7281	S 3
	260.20	Manhole, within 8 inch: NO, Remarks: 1593-0032	00:15:09	7282	
	260.20	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, End	00:15:45	7283	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2100	16	2	18	2.67	2	2.57



Inspection report

Date: 02/21/2007	P.O. # Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 264	PSR: 71153
Total Pipe Length: 337.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid # 1646

Street: 124TH ST	Flow Control: N Not Controlled	Start MH: 1646-0095
City: ZLAS	Year Renewed	End MH: 1646-0094
Location Code: C Light Highway	Tape/Media # G312-021	pipe length: 350.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0094/1646-0095/1646	Lining Method:
	Category:

Remark::

1:875	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1646-0095	00:00:41	5532	
	5.00	Water Level, 10 #, within 8 inch: NO	00:01:29	5533	M 2
	21.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:03	5534	
	90.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:54	5535	
	143.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:13	5536	
	166.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:02	5537	
	221.80	Fracture Multiple, from 2 to 9 o'clock, within 8 inch: YES	00:08:02	5538	S 4
	221.80	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:08:18	5539	
	223.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:51	5540	
	241.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:09:56	5541	S 3
	242.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:27	5542	
	285.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:34	5543	
	297.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:12:25	5544	S 3
	305.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:16	5545	
	346.70	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:14:29	5546	S 2
	346.70	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:15:03	5547	S 2
	346.70	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:15:55	5548	S 2
350.20	Manhole, within 8 inch: NO, Remarks: 1646-0094	00:16:56	5549		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2100	16	2	18	2.67	2	2.57



Inspection report

Date: 03/02/2007	P.O.☐ Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 341	PSR: 68322
Total Pipe Length: 286.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/01/2007	Pre-Cleaned: J Jetting	Map Grid ☐: 1701

Street: 0	Flow Control: N Not Controlled	Start MH: 1701-0415
City: ZLAS	Year Renewed	End MH: 1701-0416
Location Code: D Easement/Right of Way	Tape:Media ☐ G312-028	pipe length: 249.5 ft

Reason for inspection: F Routine Assessment	Dia:Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0415/1701-0416/1701	Lining Method:
	Category:

Remark::

1:625	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1701-0415	00:00:41	6988	
	<u>6.00</u>	Water Level, 10 ☐, within 8 inch: NO	00:02:30	6989	M 2
	6.90	S1 Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, Start	00:03:03	6990	
	22.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:04:36	6991	
	25.10	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:05:05	6992	
	29.10	F1 Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, End	00:05:49	6993	
	52.20	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO	00:06:59	6994	
	<u>65.10</u>	Water Level, 15 ☐, within 8 inch: NO	00:07:35	6995	M 2
	66.90	S2 Roots Fine Joint, at 1 o'clock, within 8 inch: YES, Start	00:07:57	6996	
	<u>66.90</u>	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	00:08:19	6997	S 3
	71.40	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:09:07	6998	
	<u>71.40</u>	Crack Longitudinal, at 12 o'clock, within 8 inch: NO	00:09:28	6999	S 2
	74.10	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:10:00	7000	
	89.20	F2 Roots Fine Joint, at 1 o'clock, within 8 inch: YES, End	00:11:05	7001	
	125.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:12:32	7002	
	168.90	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:13:59	7003	
	171.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:14:24	7004	
	<u>209.10</u>	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:15:57	7005	S 4
	209.10	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:16:18	7006	
	217.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:17:10	7007	
	<u>218.60</u>	Water Level, 10 ☐, within 8 inch: NO	00:17:28	7008	M 2
	<u>235.60</u>	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:18:15	7009	S 3
	235.60	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:18:29	7010	
	249.50	Manhole, within 8 inch: NO, Remarks: 1701-0416	00:19:39	7011	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2300	12	6	18	3	2	2.57



Inspection report

Date: 02/16/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1095	PSR: 71198
Total Pipe Length: 353.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: J Jetting	Map Grid #: 1645

Street: 122ND ST	Flow Control: N Not Controlled	Start MH: 1645-0361
City: ZLAS	Year Renewed:	End MH: 1645-0362
Location Code: C Light Highway	Tape/Media #: R311-024	pipe length: 348.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0361/1645-0362/1645	Lining Method:
	Category:

Remark::

1:875	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1645-0361	00:00:42	5622	
	6.00	Water Level, 5" □, within 8 inch: NO	00:01:32	5623	M 2
	12.00	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:02:05	5624	
	27.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:52	5625	
	51.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:50	5626	
	81.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:59	5627	
	101.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:49	5628	
	140.20	Fracture Multiple, from 10 to 3 o'clock, within 8 inch: YES	00:08:06	5629	S 4
	141.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:00	5630	
	148.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:27	5631	
	182.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:43	5632	
	187.60	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:11:31	5633	S 2
	187.60	Crack Multiple, from 8 to 10 o'clock, within 8 inch: YES	00:12:04	5634	S 3
	202.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:00	5635	
	229.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:06	5636	
	242.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:47	5637	
	296.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:39	5638	
	298.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:01	5639	
	348.80	Manhole, within 8 inch: NO, Remarks: 1645-0362	00:19:03	5640	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2100	9	2	11	3	2	2.75



Inspection report

Date: 02/15/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 707	PSR: 73486
Total Pipe Length: 268.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 154TH ST	Flow Control: N Not Controlled	Start MH: 1593-0159
City: ZLAS	Year Renewed:	End MH: 1593-0160
Location Code: C Light Highway	Tape/Media #: M313-019	pipe length: 264.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0159/1593-0160/1593	Lining Method:
	Category:

Remark::

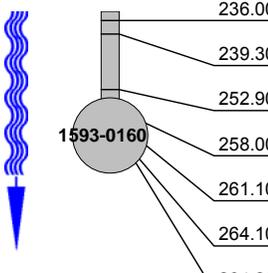
1:561	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0159	00:00:27	5231	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:37	5232	M 1
	4.00	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:01:17	5233	S 2
	6.00	Water Level, 10", within 8 inch: NO	00:02:15	5234	M 2
	14.60	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	00:02:50	5235	S 1
	42.10	Broken, from 7 to 8 o'clock, within 8 inch: YES	00:04:48	5236	S 4
	42.10	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:05:05	5237	S 1
	79.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:07:07	5238	S 3
	80.40	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:07:45	5239	
	84.90	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:08:14	5240	S 2
	143.50	Crack Circumferential, from 8 to 9 o'clock, within 8 inch: YES	00:11:05	5241	S 1
	156.10	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:12:28	5242	S 1
	174.50	Crack Circumferential, from 9 to 12 o'clock, within 8 inch: YES	00:14:14	5243	S 1
	181.00	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	00:15:10	5244	S 1
	181.90	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:15:41	5245	
	190.20	Crack Circumferential, from 7 to 11 o'clock, within 8 inch: YES	00:16:38	5246	S 1
	193.40	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:17:14	5247	S 2
	205.30	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	00:18:43	5248	S 1
	208.40	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:19:22	5249	S 2
	220.80	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:20:27	5250	S 1
	226.70	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:21:18	5251	S 1
	233.00	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:22:25	5252	S 1



Inspection report

Date: 02/15/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 707	PSR: 73486
Total Pipe Length: 268.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:561	position	observation	MPEG	photo	grade
	<u>236.00</u>	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	00:23:09	5253	S 1
	<u>239.30</u>	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:23:56	5254	S 1
	<u>252.90</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:25:05	5255	S 1
	<u>258.00</u>	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:25:52	5256	S 1
	<u>261.10</u>	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	00:26:31	5257	S 1
	<u>264.10</u>	Vermin Cockroach, within 8 inch: NO	00:27:10	5258	M 1
	<u>264.20</u>	Manhole, within 8 inch: NO, Remarks: 1593-0160	00:27:24	5259	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2112	31	4	35	1.41	1.33	1.4



Inspection report

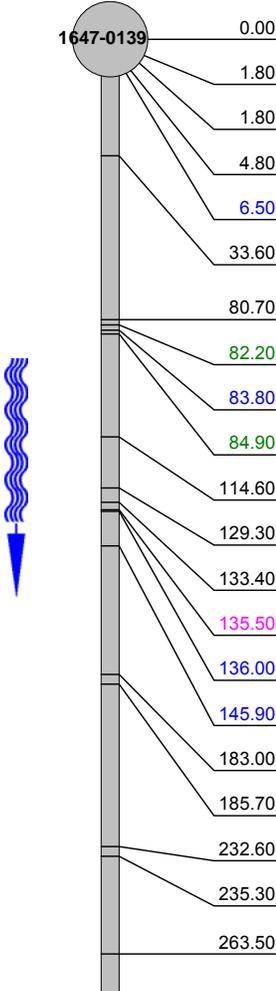
Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 299	PSR: 71097
Total Pipe Length: 309.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0139
City: ZLAS	Year Renewed:	End MH: 1647-0140
Location Code: D Easement/Right of Way	Tape/Media #: G312-024	pipe length: 307.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0139/1647-0140/1647	Lining Method:
	Category:

Remark::

1:660	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0139	00:00:39	6342	
	1.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:32	6343	
	1.80	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:01:46	6344	M 1
	4.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:21	6345	
	6.50	Water Level, 15", within 8 inch: NO	00:02:34	6346	M 2
	33.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:19	6347	
	80.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:38	6348	
	82.20	S1 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES, Start	00:04:58	6349	S 3
	83.80	Tap Factory Defective, at 3 o'clock, 6", within 8 inch: NO, Remarks: fractured	00:05:46	6350	M 2
	84.90	F1 Fracture Longitudinal, at 2 o'clock, within 8 inch: YES, End	00:06:17	6351	S 3
	114.60	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:07:40	6352	
	129.30	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:08:32	6353	
	133.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:09:23	6354	
	135.50	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:10	6355	S 4
	136.00	Tap Factory Defective, at 3 o'clock, 6", within 8 inch: NO	00:10:42	6356	M 2
	145.90	Deposits Attached Grease, from 11 to 1 o'clock, 5", within 8 inch: NO	00:11:32	6357	M 2
	183.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:48	6358	
	185.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:08	6359	
	232.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:24	6360	
	235.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:51	6361	
	263.50	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	00:15:42	6362	

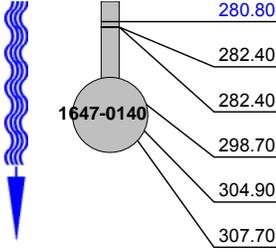




Inspection report

Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 299	PSR: 71097
Total Pipe Length: 309.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:660	position	observation	MPEG	photo	grade
	<u>280.80</u>	Deposits Attached Grease, from 2 to 3 o'clock, 10" <input type="checkbox"/> , within 8 inch: NO	00:16:29	6363	M 2
	<u>282.40</u>	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:00	6364	
	<u>282.40</u>	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:17:15	6365	M 1
	<u>298.70</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:18:16	6366	
	<u>304.90</u>	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:19:33	6367	
	<u>307.70</u>	Manhole, within 8 inch: NO, Remarks: 1647-0140	00:20:16	6368	



1647-0140

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2512	10	12	22	3.33	1.71	2.2



Inspection report

Date: 02/27/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 314	PSR: 71110
Total Pipe Length: 275.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/16/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0151
City: ZLAS	Year Renewed:	End MH: 1647-0150
Location Code: D Easement/Right of Way	Tape/Media #: G312-025	pipe length: 276.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0150/1647-0151/1647	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0151	00:00:39	6571	
	<u>5.00</u>	Water Level, 10 #, within 8 inch: NO	00:01:58	6572	M 2
	35.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:49	6573	
	38.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:12	6574	
	70.00	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:05:24	6575	
	72.50 S1	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES, Start	00:05:57	6576	
	86.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:54	6577	
	89.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:18	6578	
	137.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:32	6579	
	<u>138.30</u>	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:11:01	6580	S 4
	140.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:41	6581	
	153.30 F1	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES, End	00:12:24	6582	
	<u>153.30</u>	Crack Multiple, from 9 to 3 o'clock, within 8 inch: YES	00:12:40	6583	S 3
	189.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:49	6584	
	189.40 S2	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES, Start	00:15:07	6585	
	191.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:35	6586	
	191.60	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:15:49	6587	M 1
	239.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:26	6588	
	242.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:19:57	6589	
	269.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:28:06	6590	
	<u>269.20</u>	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES	00:28:58	6591	S 2
	269.20 F2	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES, End	00:29:17	6592	
	271.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:30:46	6593	
	276.80	Manhole, within 8 inch: NO, Remarks: 1647-0150	00:37:14	6594	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2111	9	3	12	3	1.5	2.4



Inspection report

Date: 02/12/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 179	PSR: 71060
Total Pipe Length: 320.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/07/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 147TH ST	Flow Control: N Not Controlled	Start MH: 1647-0044
City: ZLAS	Year Renewed:	End MH: 1647-0045
Location Code: C Light Highway	Tape/Media #: G312-014	pipe length: 325.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0044/1647-0045/1647	Lining Method:
	Category:

Remark::

1:528	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0044	00:00:40	3565	
	0.00	Deposits Attached Grease, from 2 to 5 o'clock, 10 #, within 8 inch: NO	00:01:32	3566	M 2
	2.00 S1	Deposits Attached Grease, from 8 to 4 o'clock, 20 #, within 8 inch: NO, Start	00:02:17	3567	M 3
	5.00	Water Level, 10 #, within 8 inch: NO	00:03:12	3568	M 2
	6.40 F1	Deposits Attached Grease, from 8 to 4 o'clock, 20 #, within 8 inch: NO, End	00:03:34	3569	M 3
	14.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:4:10	3570	
	24.80 S2	Water Level Sag, 25 #, within 8 inch: NO, Start	00:04:58	3571	M 2
	26.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:31	3572	
	47.50 F2	Water Level Sag, 25 #, within 8 inch: NO, End	00:08:01	3573	M 2
	64.20 S3	Water Level Sag, 25 #, within 8 inch: NO, Start	00:09:11	3574	M 2
	66.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:46	3575	
	81.80 F3	Water Level Sag, 25 #, within 8 inch: NO, End	00:11:56	3576	M 2
	81.80	Water Level, 15 #, within 8 inch: NO	00:12:11	3577	M 2
	111.80	Deposits Attached Grease, from 8 to 4 o'clock, 10 #, within 8 inch: YES	00:14:16	3578	M 2
	115.30	Deposits Attached Grease, from 1 to 4 o'clock, 15 #, within 8 inch: NO	00:14:46	3579	M 3
	115.30	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:15:13	3580	S 2
	115.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:15:40	3581	
	115.90	Hole, from 3 to 5 o'clock, within 8 inch: NO	00:16:00	3582	S 4
	119.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:50	3583	
	126.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:17:48	3584	
	133.80 S4	Deposits Attached Grease, from 1 to 5 o'clock, 10 #, within 8 inch: YES, Start	00:18:49	3585	M 2
	164.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:20:13	3586	
	173.00	Deposits Attached Grease, from 8 to 4 o'clock, 20 #, within 8 inch: NO	00:20:56	3587	M 3
	177.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:28	3588	



Inspection report

Date: 02/12/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 179	PSR: 71060
Total Pipe Length: 320.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/07/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

1:528	position	observation	MPEG	photo	grade
	232.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:23:33	3589	
	239.10 S5	Water Level Sag, 20 □, within 8 inch: NO, Start	00:24:18	3590	M 2
	244.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:24:55	3591	
	244.10	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:25:13	3592	M 1
	252.30	Water Level, 30 □, within 8 inch: NO	00:26:09	3593	M 2
	277.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:45:16	3594	
	292.80	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:47:26	3595	
	312.50	Deposits Attached Grease, from 9 to 3 o'clock, 20 □, within 8 inch: YES	00:48:58	3596	M 3
	322.10	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	00:51:12	3597	S 2
	324.00 F4	Deposits Attached Grease, from 1 to 5 o'clock, 10 □, within 8 inch: YES, End	00:51:45	3598	M 2
	325.10 F5	Water Level Sag, 20 □, within 8 inch: NO, End	00:52:19	3599	M 2
	325.10	Water Level, 20 □, within 8 inch: NO	00:52:42	3600	M 2
	325.30	Manhole, within 8 inch: NO, Remarks: 1647-0045	00:53:02	3601	



Inspection report

Date: 02/16/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 709	PSR: 73489
Total Pipe Length: 190.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 154TH ST	Flow Control: N Not Controlled	Start MH: 1593-0170
City: ZLAS	Year Renewed:	End MH: 1593-0161
Location Code: C Light Highway	Tape/Media #: M313-020	pipe length: 213.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0170/1593-0161/1593	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0170	00:00:26	5304	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:35	5305	M 1
	6.10	Water Level, 15", within 8 inch: NO	00:01:21	5306	M 2
	24.00	Crack Circumferential, from 1 to 5 o'clock, within 8 inch: YES	00:02:37	5307	S 1
	33.20	Crack Circumferential, from 8 to 2 o'clock, within 8 inch: YES	00:03:19	5308	S 1
	45.20	Crack Circumferential, from 11 to 3 o'clock, within 8 inch: YES	00:04:05	5309	S 1
	46.40 S1	Deposits Attached Grease, from 5 to 7 o'clock, 5", within 8 inch: YES, Start	00:04:32	5310	M 2
	54.60 S2	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Start	00:05:09	5311	S 1
	64.10	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	00:05:50	5312	S 2
	86.60	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:07:17	5313	
	125.00	Broken, from 1 to 2 o'clock, within 8 inch: YES	00:09:14	5314	S 4
	147.30	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO	00:10:32	5315	
	184.10	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO	00:12:51	5316	
	213.20	Vermin Cockroach, within 8 inch: NO	00:14:31	5317	M 1
	213.20	Manhole, within 8 inch: NO, Remarks: 1593-0161	00:14:46	5318	
	213.20 F2	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, End	00:15:19	5319	S 1
	213.20 F1	Deposits Attached Grease, from 5 to 7 o'clock, 5", within 8 inch: YES, End	00:15:29	5320	M 2

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2312	11	8	19	1.57	1.6	1.58



Inspection report

Date: 02/16/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 723	PSR: 73462
Total Pipe Length: 96.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/14/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 156TH ST	Flow Control: N Not Controlled	Start MH: 1593-0134
City: ZLAS	Year Renewed:	End MH: 1593-0133
Location Code: C Light Highway	Tape/Media #: M313-020	pipe length: 58.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0134/1593-0133/1593	Lining Method:
	Category:

Remark: _____

1:150	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1593-0134	00:00:26	5508	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:39	5509	M 1
	6.00	Water Level, 5" □, within 8 inch: NO	00:01:32	5510	M 2
	7.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:43	5511	
	8.40	Crack Circumferential, from 11 to 2 o'clock, within 8 inch: YES	00:02:05	5512	S 1
	52.60	Water Level, 10" □, within 8 inch: NO	00:03:47	5513	M 2
	55.00	Broken, from 5 to 7 o'clock, within 8 inch: YES	00:04:13	5514	S 4
	58.20	Vermin Cockroach, within 8 inch: NO	00:04:52	5515	M 1
	58.20	Manhole, within 8 inch: NO, Remarks: 1593-0133	00:05:04	5516	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2212	5	6	11	2.5	1.5	1.83



Inspection report

Date: 02/26/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 796	PSR: 71103
Total Pipe Length: 265.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/22/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0145
City: ZLAS	Year Renewed:	End MH: 1647-0146
Location Code: D Easement/Right of Way	Tape/Media #: M313-026	pipe length: 265.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0145/1647-0146/1647	Lining Method:
	Category:

Remark::

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0145	00:00:29	7103	
	6.00	Water Level, 10", within 8 inch: NO	00:05:00	7104	M 2
	49.90	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:06:33	7105	
	52.50	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:06:57	7106	
	101.80	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:08:47	7107	
	102.80	Crack Circumferential, from 1 to 3 o'clock, within 8 inch: YES	00:09:12	7108	S 1
	104.40	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:09:45	7109	
	135.80	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:11:03	7110	
	141.50	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:11:39	7111	
	153.00	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:12:36	7112	
	153.10	Roots Medium Lateral, at 2 o'clock, 20", within 8 inch: NO	00:12:52	7113	M 3
	155.50	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:13:18	7114	
	155.50	Roots Fine Lateral, at 10 o'clock, within 8 inch: NO	00:13:34	7115	M 1
	159.60	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:13:55	7116	
	174.80	Fracture Multiple, from 10 to 2 o'clock, within 8 inch: YES	00:15:34	7117	S 4
	204.20	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:17:08	7118	
	206.90	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:17:35	7119	
	255.20	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:19:27	7120	
	258.10	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:19:41	7121	
	265.30	Manhole, within 8 inch: NO, Remarks: 1647-0146	00:20:13	7122	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	3121	5	6	11	2.5	2	2.2



Inspection report

Date: 02/22/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 276	PSR: 71089
Total Pipe Length: 279.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 02/15/2007	Pre-Cleaned: J Jetting	Map Grid #: 1647

Street: LEMOLI AV	Flow Control: N Not Controlled	Start MH: 1647-0130
City: ZLAS	Year Renewed:	End MH: 1647-0134
Location Code: C Light Highway	Tape/Media #: G312-022	pipe length: 280 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0130/1647-0134/1647	Lining Method:
	Category:

Remark::

1:700	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0130	00:00:39	5860	
	2.00	Deposits Attached Grease, from 9 to 3 o'clock, 10 #, within 8 inch: NO	00:01:23	5861	M 2
	5.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:08	5862	
	7.50 S1	Deposits Attached Grease, from 9 to 3 o'clock, 10 #, within 8 inch: NO, Start	00:02:44	5863	M 2
	13.80	Water Level, 15 #, within 8 inch: NO	00:03:12	5864	M 2
	35.30 S2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:03:56	5865	
	98.60 F1	Deposits Attached Grease, from 9 to 3 o'clock, 10 #, within 8 inch: NO, End	00:06:36	5866	M 2
	122.90 F2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:07:39	5867	
	144.00	Hole, from 8 to 10 o'clock, within 8 inch: YES	00:08:47	5868	S 4
	159.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:09:32	5869	
	171.20	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:10:18	5870	
	280.00	Manhole, within 8 inch: NO, Remarks: 1647-0134	00:13:23	5871	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2400	4	8	12	4	2	2.4



Inspection report

Date: 03/07/2007	P.O. #: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 364	PSR: 70995
Total Pipe Length: 226.00	Survey Customer: ZLAS	System Owner: ZLAS	Clean Date: 03/06/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1647

Street: 0	Flow Control: N Not Controlled	Start MH: 1647-0169
City: ZLAS	Year Renewed:	End MH: 1647-0168
Location Code: D Easement/Right of Way	Tape/Media #: G312-031	pipe length: 224.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 10"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0168/1647-0169/1647	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1647-0169	00:00:41	7472	
	0.00	Water Level, 15", within 8 inch: NO	00:01:09	7473	M 2
	6.60	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:01:30	7474	
	20.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:19	7475	
	22.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:37	7476	
	70.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:59	7477	
	72.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:20	7478	
	120.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:48	7479	
	123.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:21	7480	
	171.00	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:07:49	7481	
	173.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:15	7482	
	173.60	Fracture Multiple, from 3 to 9 o'clock, within 8 inch: YES	00:08:48	7483	S 4
	224.40	Manhole, within 8 inch: NO, Remarks: 1647-0168	00:10:47	7484	

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

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506B	193,883	9.2	COMPLETE
2006-2007	Y0TV0607A	123,540	5.8	COMPLETE
2007-2008	Y0TV0708G	359,110	17.0	COMPLETE
2008-2009	Y0TV0809D	116,855	5.5	REPORT PENDING
2009-2010	Y0TV0910A	139,343	6.6	
2009-2010	Y0TV0910D	300,619	14.2	
2010-2011	Y0TV0910B	370,384	17.5	
2010-2011	Y0TV1011C	306,486	14.5	
2012-2013		106,189	5.0	
2012-2013		3,779	0.2	
2013-2014		26,580	1.2	
2014-2015		69,265	3.3	
TOTAL		2,116,033	100.0	