



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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

December 9, 2008

IN REPLY PLEASE

REFER TO FILE: SM-1

Mr. John Knipe, City Engineer
City of Westlake Village
31200 Oak Crest Drive
Westlake Village, CA 91361

Attention Ms Roxanne Hughes

Dear Mr Knipe.

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0506F

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 18,079 feet or approximately 10.4 percent of the City of Westlake Village's sewer system.

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

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

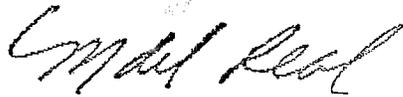
Mr John Knipe
December 9, 2008
Page 2

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

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or at rswartz@dpw.lacounty.gov

Very truly yours,

GAIL FARBER
Director of Public Works



MANUEL DEL REAL
Assistant Deputy Director
Sewer Maintenance Division

PK kk
1590

Enc.

bc: Programs Development (Ghazarian)

bc. MdR, KL, RS, FV, [File \(Y0TV0506F\)](#), SPINDLE

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

PROJECT NAME:	Y0TV0506F	PROJECT MGR:	Fernando Villaluna
PROJECT DATE:	06/27/06 – 08/04/06	CONTACT NO:	(626) 300-3380
SUP. DISTRICT(s):	3	MAP PAGE(S):	1065
Report By:	Phyo Kyaw	Report Date:	11/17/08

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 18,079 feet or approximately 10.4 percent of the City of Westlake Village’s sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0506F included sewer lines located in Unincorporated County of Los Angeles area and the Cities of Agoura Hills, Calabasas, Hidden Hills, Malibu, Rancho Palos Verdes and Westlake Village. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 94.1 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 5.9 percent of the inspected pipe segments within the City of Westlake Village 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	9,151	50.6	52
2: Good	7,077	39.2	35
3: Fair	784	4.3	5
4: Poor	596	3.3	3
5: Immediate Attention	471	2.6	2
TOTAL	18,079	100.0	97

STRUCTURAL REPORT

Our inspection revealed that 100 percent of the inspected pipe segments within the City of Westlake Village were free of severe structural defects as indicated in the Quick Structural Rating Table shown below. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	15,931	88.1	87
2: Good	2,021	11.2	9
3: Fair	127	0.7	1
4: Poor	0	0.0	0
5: Immediate Attention	0	0.0	0
TOTAL	18,079	100.0	97

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of Westlake Village. For your reference, the CCTV Sewer Inspection project schedule for the City of Westlake Village is listed in Enclosure 5.

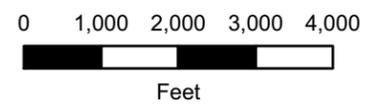
ENCLOSURE 1:

Project Overview Map

PROJECT OVERVIEW MAP

**CCTV PROJECT
Y0TV0506F**

Supervisorial District 3 & 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
Verdes, Westlake Village &
County Unincorporated



Legend

SMD Sanitary Sewers

- Other
- 4
- 8
- 10
- 12
- 15
- 18

SMD Manholes

- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

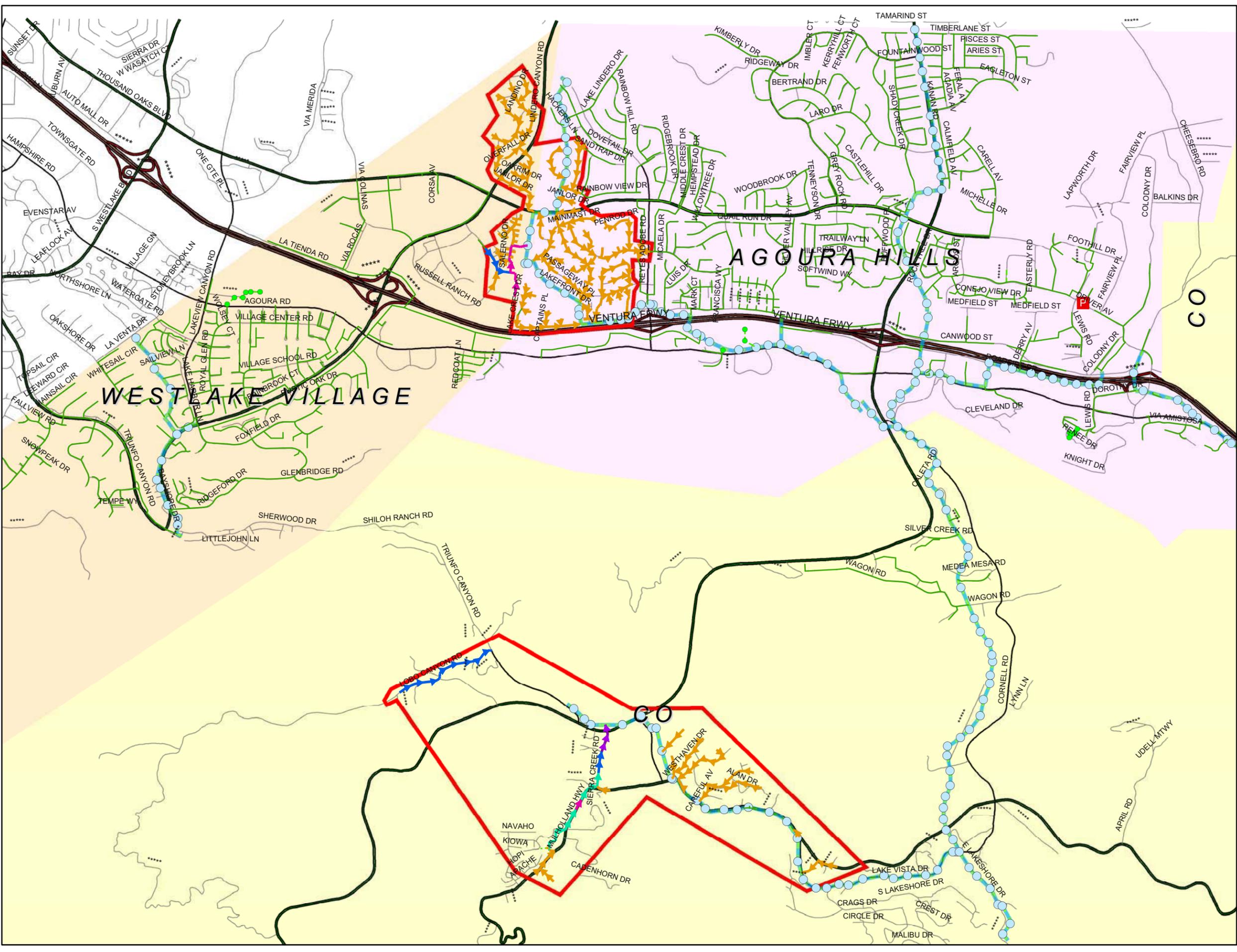
SMD Pump Satations

SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0506F

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ENCLOSURE 2:

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

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CITY OF WESTLAKE VILLAGE (Y0TV0506F)
 as of 08/04/06

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5132	1065-0142	1065-0140	LOGWOOD RD	Infiltration gusher; Deposits; Sag	Hydrojet (Completed 10/22/08)
2	4100	1065-0137	1065-0129	LOGWOOD RD	Infiltration runner	No action needed.
3	4100	1065-0674	1065-0667	SEINE CT	Infiltration runner	No action needed.
4	4100	1065-0667	1065-0666	MARSEILLE WAY	Infiltration runner	No action needed.

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

Item No.	QMR	Start MH	End MH	Street	Observation
1	5100	1065-0705	1065-0666	CLERMONT CT	Deposit settlement in lateral

ENCLOSURE 2

CCTV PROJECT Y0TV0506F

Supervisorial District 3
WESTLAKE VILLAGE

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

QMR

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

SMD Manholes

- Other

MH Type

- Standard
- Siphon
- Trap
- Shallow
- Drop
- SMD Pump Satations
- SMD Treatment Plants

Maintained by Others:

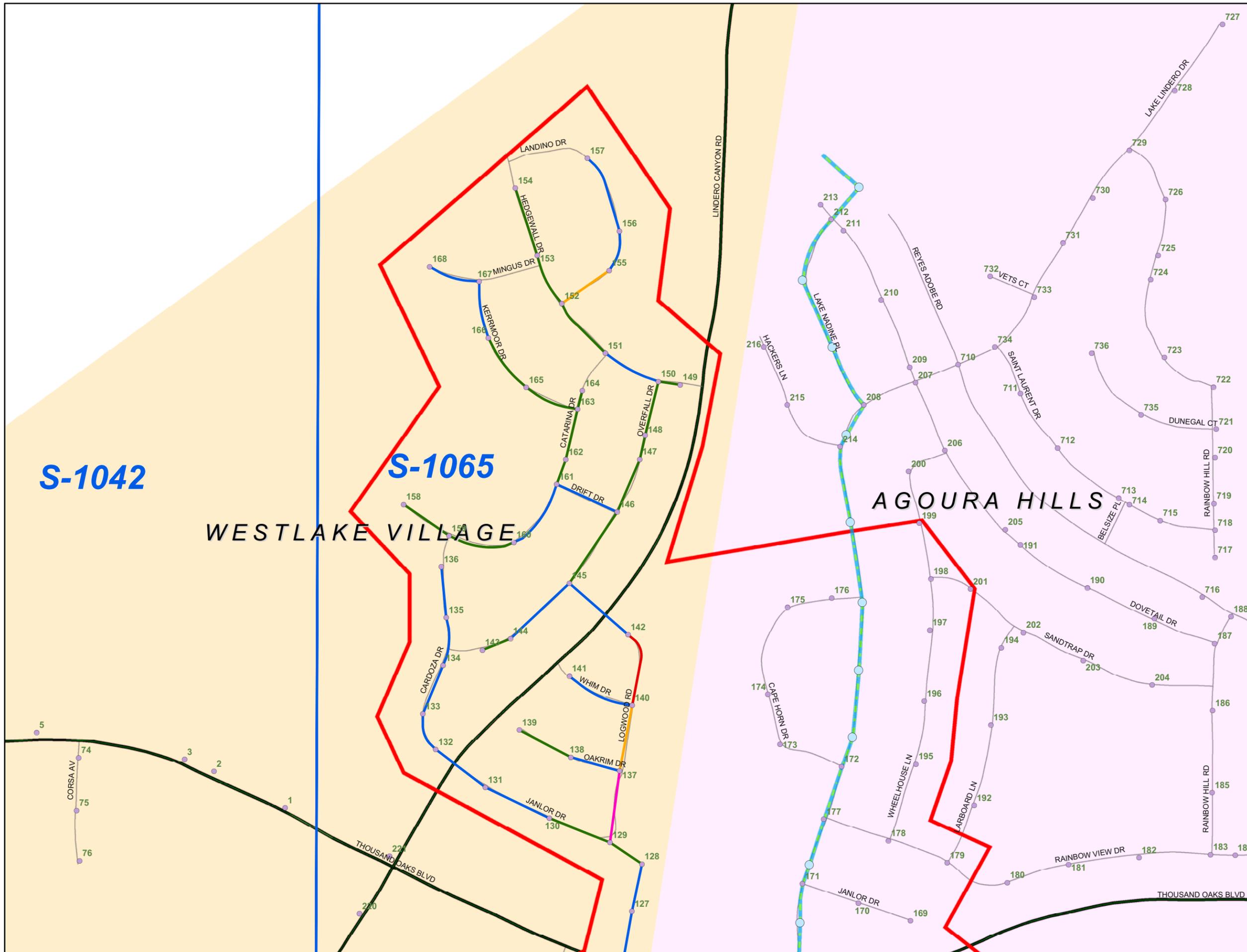
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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ENCLOSURE 2

CCTV PROJECT Y0TV0506F

Supervisorial District 3
WESTLAKE VILLAGE

QUICK MAINTENANCE RATING (QMR)



Legend Feet

SMD Sanitary Sewers

QMR

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

SMD Manholes

- Other (Circle with cross)

MH Type

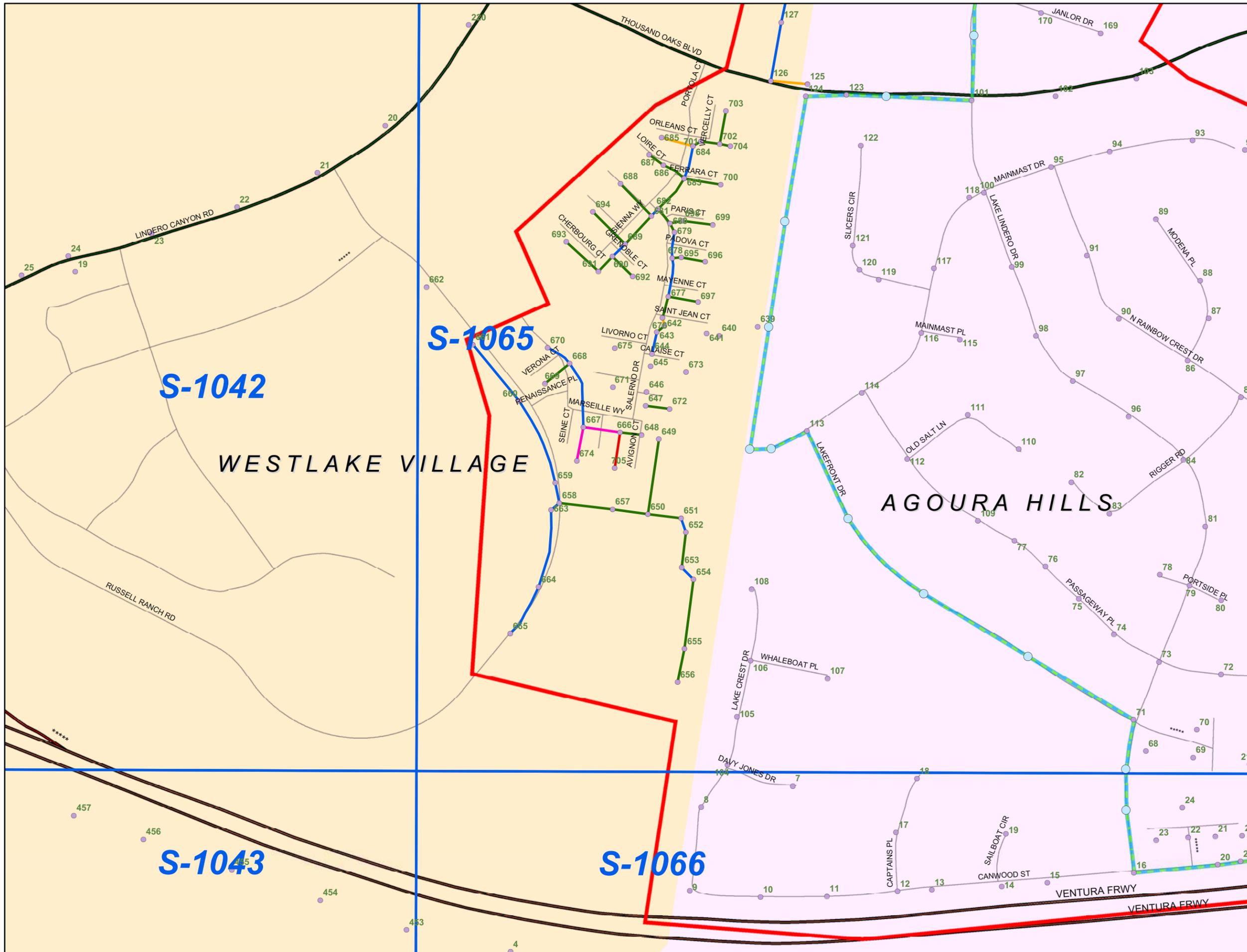
- Standard (Purple dot)
- Siphon (Purple diamond)
- Trap (Purple square)
- Shallow (Purple triangle)
- Drop (Purple inverted triangle)
- SMD Pump Stations (Red square with 'P')
- SMD Treatment Plants (Black square with 'WTP')
- Maintained by Others:
 - Trunk Sewerlines (Thick green line)
 - Non SMD Sanitary Sewers (Dashed green line)
 - Trunk Mh (Blue circle)
 - Non SMD Maintained MH (Green dot)

- SMD Operations Maps (Blue outline)
- CCTV Project Area (Red outline)

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ENCLOSURE 3:

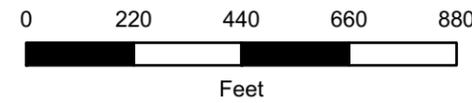
- Quick Structural Rating Map

ENCLOSURE 3

CCTV PROJECT Y0TV0506F

Supervisorial District 3
WESTLAKE VILLAGE

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

QSR

- 1: EXCELLENT
- 2: GOOD
- 3: FAIR

SMD Manholes

- Other

MH Type

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

Maintained by Others:

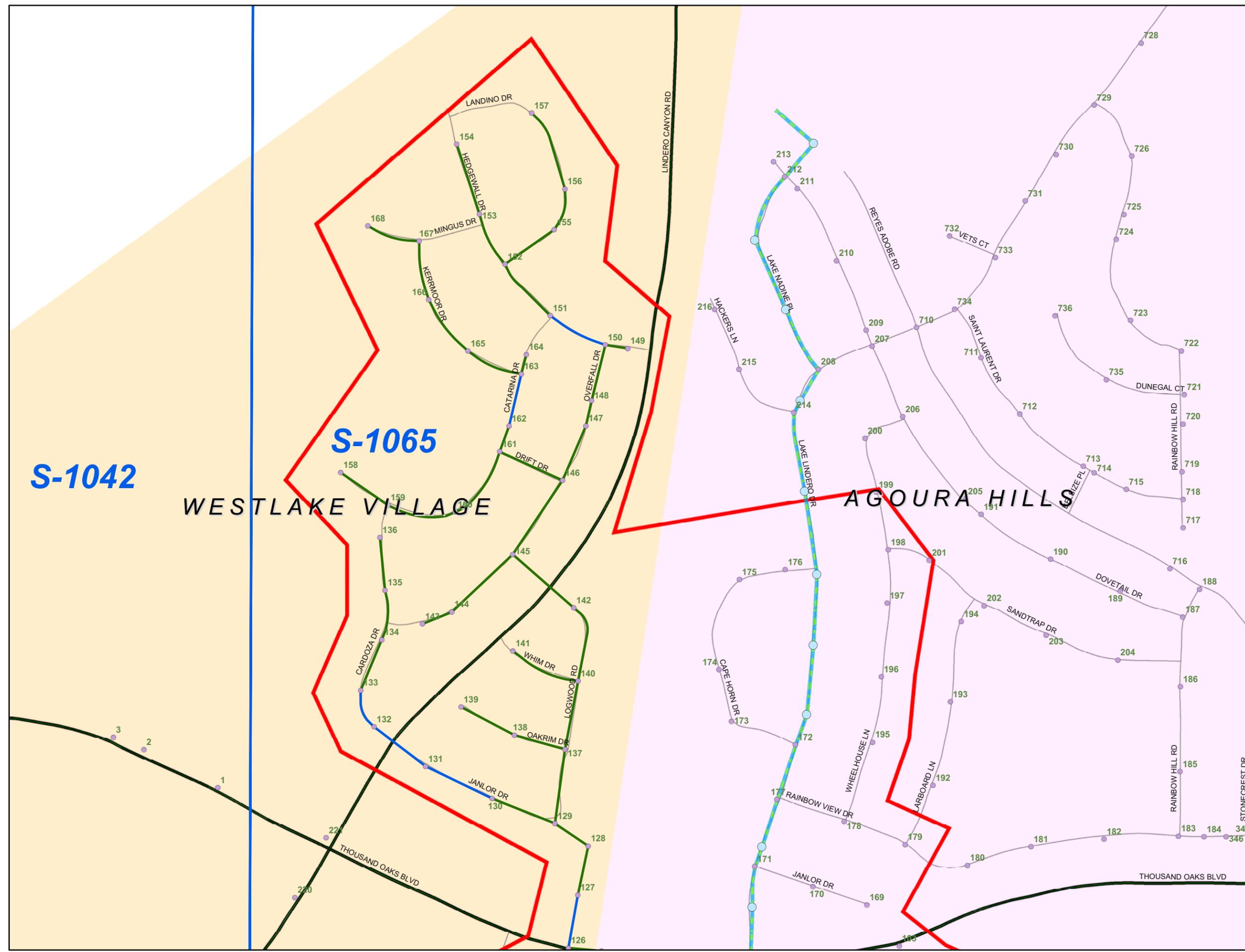
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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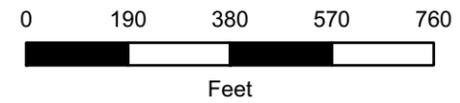


ENCLOSURE 3

CCTV PROJECT Y0TV0506F

Supervisorial District 3
WESTLAKE VILLAGE

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

QSR

- 1: EXCELLENT (green line)
- 2: GOOD (blue line)
- 3: FAIR (yellow line)

SMD Manholes

- Other (circle with cross)

MH Type

- Standard (purple dot)
- Siphon (purple diamond)
- Trap (purple square)
- Shallow (purple triangle)
- Drop (purple inverted triangle)

- SMD Pump Stations (red square with 'P')
- SMD Treatment Plants (black square with 'WTP')

Maintained by Others:

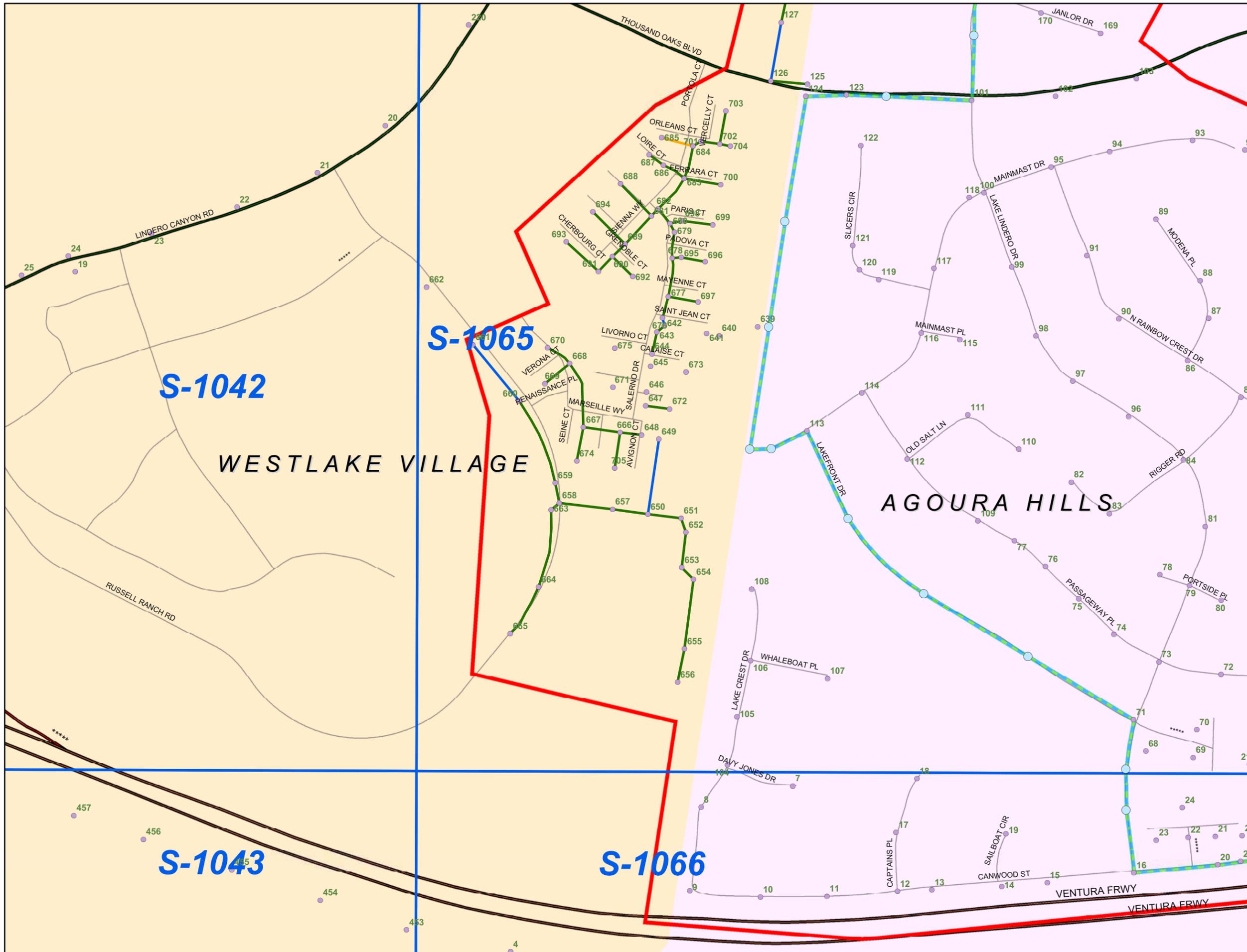
- Trunk Sewerlines (thick green line)
- Non SMD Sanitary Sewers (dashed green line)
- Trunk Mh (blue circle)
- Non SMD Maintained MH (green dot)

- SMD Operations Maps (blue outline)
- CCTV Project Area (red outline)

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ENCLOSURE 4:

Sample Inspection Report



Inspection report

Date: 20060714	P.O.#: YOTV0506F	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 708	PSR: 33764
Total Pipe Length: 330.00	Survey Customer: LACDPW	System Owner: WLV	Clean Date: 05/10/2006	Pre-Cleaned: J Jetting	Map Grid #: 1065

Street: LOGWOOD RD	Flow Control: N Not Controlled	Start MH: 1065-0142
City: WLV	Year Renewed:	End MH: 1065-0140
Location Code: C Light Highway	Tape/Media #: M001	pipe length: 343.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 1065	Lining Method:
	Category:

Remark:

1 462	position	observation	MPEG	photo	grade
	0.10	Manhole, within 8 inch: NO, Remarks: 1065-0142	00:00:41	42	
	7.00	Water Level, 10 %, within 8 inch: NO	00:02:02	43	M 2
	11.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:02:20	44	
	23.60	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:02:57	45	
	30.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:27	46	
	37.00	Alignment Right, within 8 inch: NO	00:04:06	47	M 1
	43.20	Alignment Right, within 8 inch: NO	00:04:26	48	M 1
	61.40	General Observation, within 8 inch: NO, Remarks: PIPE JOINT LENGTH 6 FT	00:05:18	49	
	67.30	Alignment Right, within 8 inch: NO	00:05:47	50	M 1
	68.60	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:06:02	51	
	75.20	Alignment Right, within 8 inch: NO	00:06:27	52	M 1
	81.10	Alignment Right, within 8 inch: NO	00:06:44	53	M 1
	93.60	Alignment Right, within 8 inch: NO	00:07:11	54	M 1
	100.50	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:07:34	55	
	113.20	Alignment Right, within 8 inch: NO	00:08:07	56	M 1
	125.00	Alignment Right, within 8 inch: NO	00:08:35	57	M 1
	132.10	Water Level Sag, 40 %, within 8 inch: NO, Start	00:09:19	58	M 3
	137.30	Water Level Sag, 40 %, within 8 inch: NO, End	00:12:43	59	M 3
	156.60	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:13:53	60	
	169.30	Deposits Attached Encrustation, from 10 to 4 o'clock, 10 %, within 8 inch: NO	00:14:33	61	M 2
	175.20	Deposits Attached Encrustation, from 7 to 5 o'clock, 10 %, within 8 inch: NO	00:14:59	62	M 2
	188.20	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:15:36	63	
	189.80	Deposits Attached Encrustation, from 7 to 5 o'clock, 5 %, within 8 inch: NO, Start	00:15:58	64	M 2



Inspection report

Date: 20060714	P.O.#: YOTV0506F	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 708	PSR: 33764
Total Pipe Length: 330.00	Survey Customer: LACDPW	System Owner: WLV	Clean Date: 05/10/2006	Pre-Cleaned: J Jetting	Map Grid #: 1065

1.462	position	observation	MPEG	photo	grade
	206.80	Infil Gusher, from 12 to 3 o'clock, within 8 inch: YES	00:16:56	65	M 5
	208.10	Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO	00:17:15	66	
	238.90	Water Level, 50 %, within 8 inch: NO	00:18:50	67	M 2
	254.60	Water Level, 10 %, within 8 inch: NO	00:21:23	68	M 2
	264.50	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:21:56	69	
	277.10	F2 Deposits Attached Encrustation, from 7 to 5 o'clock, 5 %, within 8 inch: NO, End	00:22:30	70	M 2
	318.10	Deposits Attached Encrustation, from 7 to 5 o'clock, 10 %, within 8 inch: NO	00:23:44	71	M 2
	331.70	Water Level, 40 %, within 8 inch: NO	00:24:24	72	M 2
	334.20	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:24:44	73	
	335.10	Deposits Attached Encrustation, from 7 to 5 o'clock, 10 %, within 8 inch: NO	00:25:06	74	M 2
	343.20	Manhole, within 8 inch: NO, Remarks: 1065-0140	00:26:16	75	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	5132	0	39	39	0	1.86	1.86

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

Westlake Village**CCTV PROJECT SCHEDULE**

FISCAL YEAR	YARD	SUP DIST	PROJECT NAME	LENGTH (FT)*
2005-2006	S	3	Y0TV0506F	18,079
2009-2010	S	3	3_1	155,902
			TOTAL (FT)	173,981
			TOTAL (MILES)	33

* Approximate length as of July 2005, actual project length may vary.