



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

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

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

December 9, 2008

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr Ramiro Adeva, City Engineer  
City of Agoura Hills  
30001 Ladyface Court  
Agoura Hills, CA 91301

Attention Mr Jay Patel

Dear Mr Adeva.

### **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 29,407 feet or approximately 10.2 percent of the City of Agoura Hills' sewer system

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

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

Mr Ramiro Adeva  
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](mailto:rswartz@dpw.lacounty.gov).

Very truly yours,

GAIL FARBER  
Director of Public Works



*For* MANUEL DEL REAL  
Assistant Deputy Director  
Sewer Maintenance Division

PK kk  
1589

Enc

bc: Programs Development (Ghazarian, Pilker)

bc: KL, RS, FV, File (Project 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 & 1066
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 29,407 feet or approximately 10.2 percent of the City of Agoura Hills’ 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:

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

## MAINTENANCE REPORT

Our inspection revealed that approximately 90.4 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 9.6 percent of the inspected pipe segments within the City of Agoura Hills 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	5,837	19.9	31
2: Good	15,446	52.5	58
3: Fair	5,292	18.0	25
4: Poor	2,212	7.5	9
5: Immediate Attention	620	2.1	3
TOTAL	29,407	100.0	126

## STRUCTURAL REPORT

Our inspection revealed that approximately 96.7 percent of the inspected pipe segments within the City of Agoura Hills were free of severe structural defects. However, the remaining 3.3 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 4 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection reports for these 4 segments are included in Enclosure 4.

### QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	23,363	79.4	100
2: Good	3,751	12.8	16
3: Fair	1,321	4.5	6
4: Poor	796	2.7	3
5: Immediate Attention	176	0.6	1
TOTAL	29,407	100.0	126

## **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 Agoura Hills. For your reference, the CCTV Sewer Inspection project schedule for the City of Agoura Hills is listed in Enclosure 5.

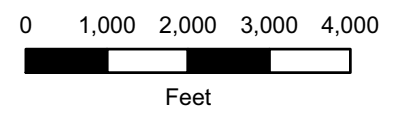
ENCLOSURE 1:

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 Stations

SMD Treatment Plants

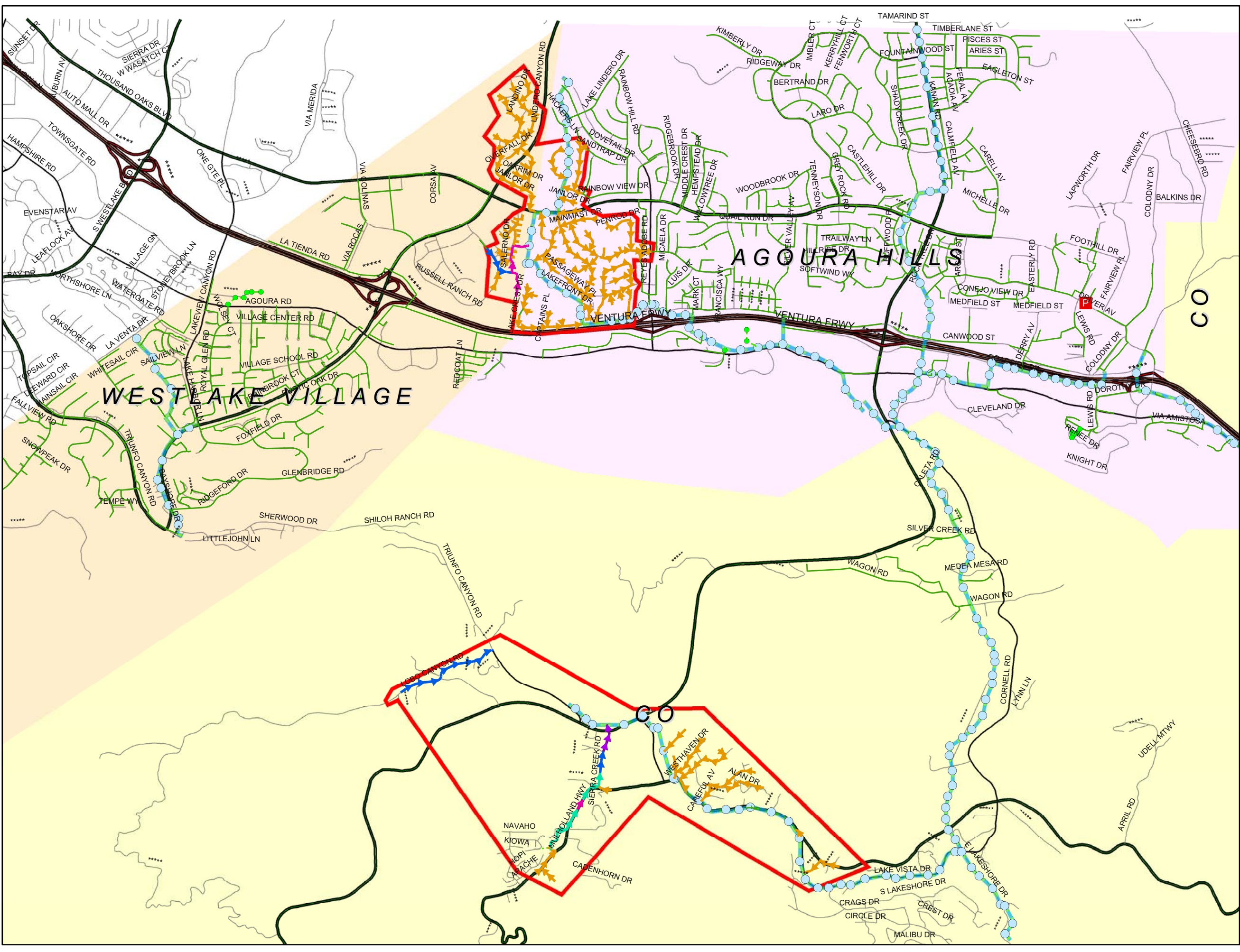
#### Maintained by Others:

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

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SEPTEMBER 2008

Y0TV0506F\_Overview.mxd



## ENCLOSURE 2:

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



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

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5148	1065-0095	1065-0091	RAINBOW CREST	Deposits	Hydrojet (Completed 10/22/08)
2	5100	1065-0050	1065-0049	EASEMENT by CANWOOD and PASSAGEWAY	Deposits	Hydrojet (Completed 10/22/08)
3	5100	1066-0069	1066-0068	LAKE LINDERO Dr	Deposits	Hydrojet (Completed 11/12/08)
4	422D	1066-0027	1065-0049	EASEMENT by CANWOOD and REYESADOBE	Roots	Rodder (Completed 10/22/08))
5	4139	1066-0010	1066-0011	CANWOOD ST	Deposits	Hydrojet (Completed 10/29/08)
6	4131	1065-0079	1065-0073	LAKE LINDERO Dr	Deposits	Hydrojet (Completed 10/22/08)
7	4131	1065-0018	1065-0019	JON DODSON	Camera underwater	Hydrojet (Completed 03/02/07)
8	4131	1066-0012	1066-0013	CANWOOD ST	Deposits	Hydrojet (Completed 10/29/08)
9	4131	1066-0008	1066-0009	LAKE CREST DR	Deposits; Infiltration Weeper	Hydrojet (Completed 11/12/08)
10	4121	1065-0015	1065-0019	RAINBOW CREST	Camera underwater	Hydrojet (Completed 10/22/08)
11	4111	1065-0197	1065-0196	WHEELHOUSE LN	Deposits	Hydrojet (Completed 11/12/08)

The following line segments 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, these lines were not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

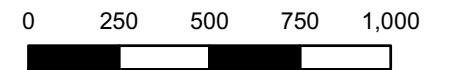
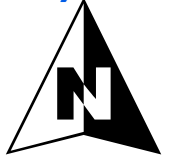
Item No.	QMR	Start MH	End MH	Street	Observation
1	4111	1065-0039	1065-0345	ALDREN CT	Roots in lateral

# ENCLOSURE 2

## CCTV PROJECT Y0TV0506F

Supervisorial District 3  
AGOURA HILLS

### QUICK MAINTENANCE RATING (QMR)



Legend Feet

#### SMD Sanitary Sewers

##### QMR

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

#### SMD Manholes

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

#### Maintained by Others:

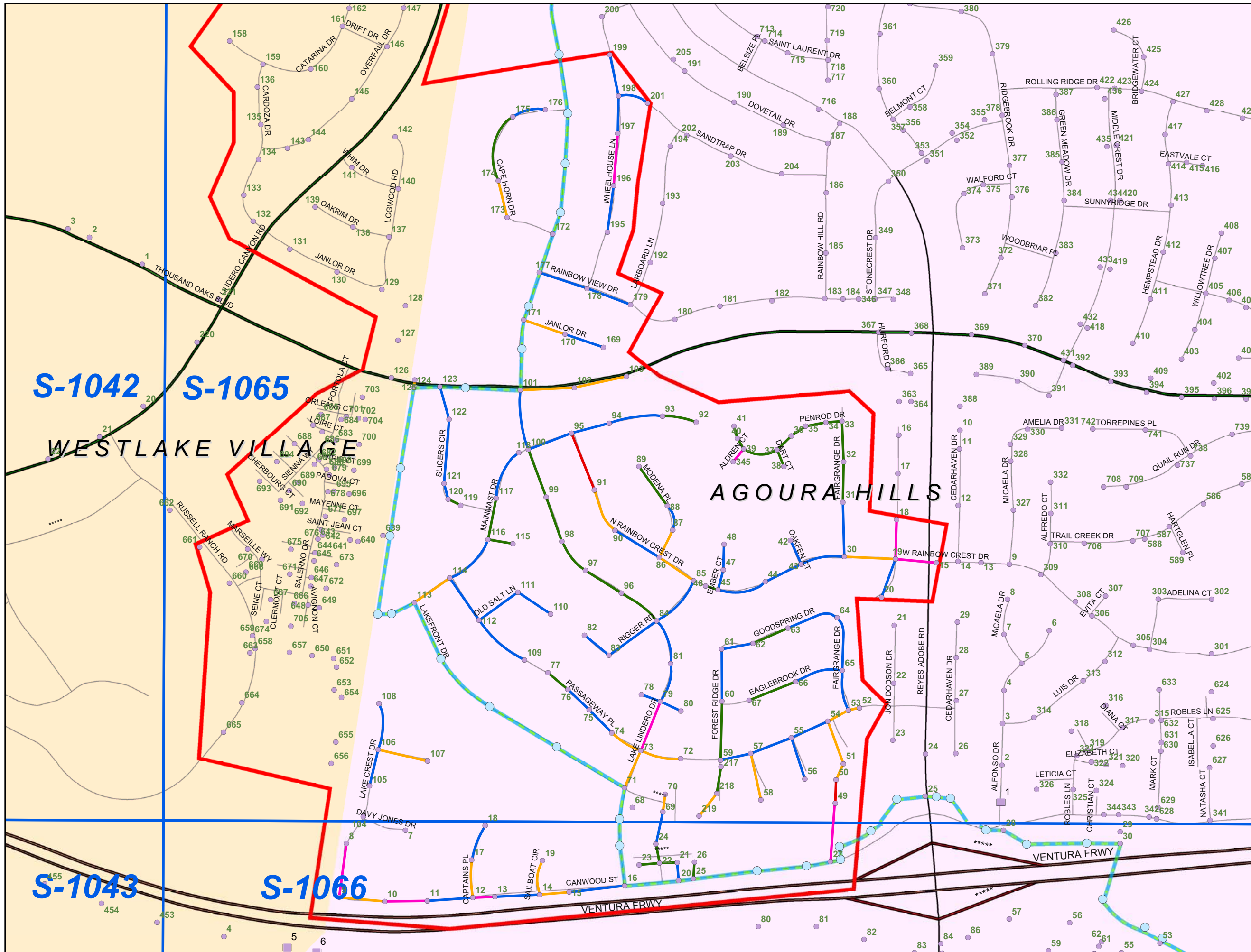
- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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S-1042 S-1065

WESTLAKE VILLAGE

AGOURA HILLS

S-1043

S-1066

## ENCLOSURE 3:

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

ENCLOSURE 3  
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST  
 CITY OF AGOURA HILLS (Y0TV0506F)  
 as of 08/04/06

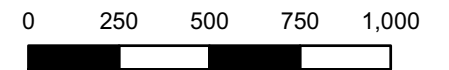
Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5231	1066-0024	1065-0069	EASEMENT by LAKE LINDERO Dr and CANWOOD ST	Broken and deformed: 12', 24;	Lining: MH to MH	176
2	4121	1065-0118	1065-0117	MAINMAST DR	Fractures: 5'	Structural integrity in tact. No action needed.	-
3	4100	1065-0085	1065-0086	RAINBOW CREST	Fractures: 8'	Lining: MH to MH	230
4	4100	1065-0196	1065-0195	WHEELHOUSE LN	Fracture: 1'	Structural integrity in tact. No action needed.	-

# ENCLOSURE 3

## CCTV PROJECT Y0TV0506F

Supervisorial District 3  
AGOURA HILLS

### QUICK STRUCTURAL RATING (QSR)



Legend Feet

#### SMD Sanitary Sewers

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

#### SMD Manholes

- Other (Circle with cross)
- Standard (Purple dot)
- Siphon (Purple diamond)
- Trap (Purple diamond)
- Shallow (Purple square)
- Drop (Purple triangle)
- SMD Pump Stations (Red square with 'P')
- SMD Treatment Plants (Black square with 'WTP')

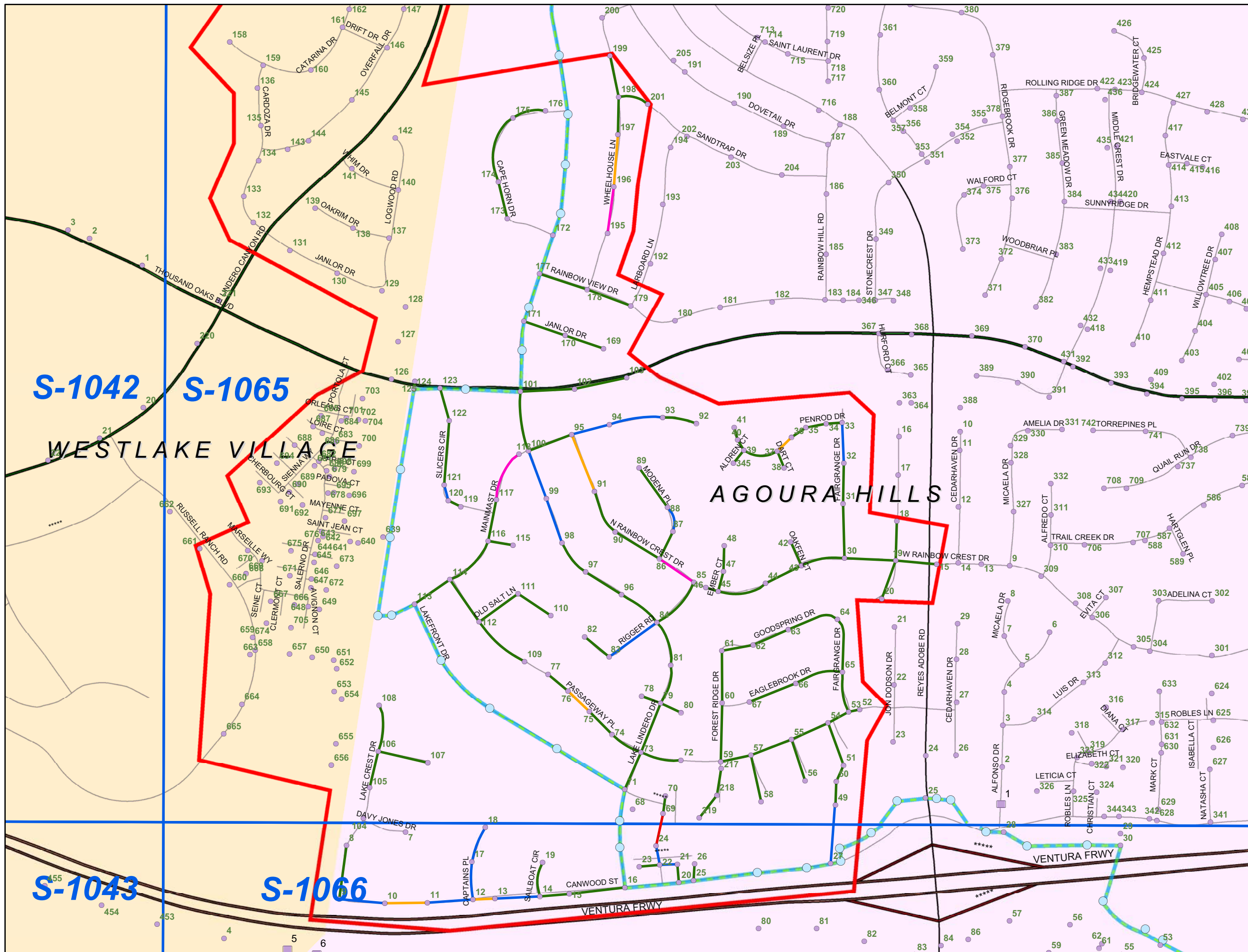
#### Maintained by Others:

- 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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SEPTEMBER 2008

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S-1042 S-1065

WESTLAKE VILLAGE

AGOURA HILLS

S-1043

S-1066

## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

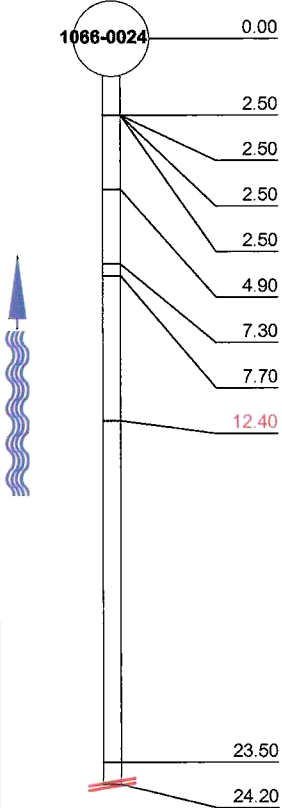
Date: <b>20060731</b>	P.O.#: <b>YOTV056E</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>Anthony Hernandez</b>	section number: <b>779</b>	PSR: <b>33925</b>
Total Pipe Length: <b>176.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAS</b>	Clean Date:	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1066</b>

Street: <b>LAKE LINDERO Dr</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1066-0024</b>
City: <b>ZLAS</b>	Year Renewed:	End MH: <b>1065-0069</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>A004</b>	Total length surveyed: <b>24.7 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Joint length:
Drain. Area: <b>1066</b>	Lining:
	Category:

Comment:  
 Location details: **CANWOOD ST**

1:75	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1066-0024	00:01:07	630	
	2.50	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:02:04	631	
	2.50	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:02:37	632	
	2.50	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	00:03:09	633	
	2.50	Crack Circumferential, from 6 to 8 o'clock, within 8 inch: YES	00:03:43	634	
	4.90	Water Level, 10 %, within 8 inch: NO	00:04:08	635	
	7.30	Crack Multiple, from 7 to 5 o'clock, within 8 inch: NO	00:04:35	636	
	7.70	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:05:10	637	
	12.40	Broken, from 7 to 5 o'clock, within 8 inch YES	00:06:26	638	S 5
	23.50	Crack Longitudinal, at 8 o'clock, within 8 inch: NO	00:07:20	639	
	24.20	Abandoned Survey, within 8 inch: NO, Remarks: DUE TO BROKEN PIPE	00:11:05	640	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	0000	5	0	5	5	0	5



National Plant Services, INC.  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
 Tel: (800) 445-3614, Fax: (562) 495-1628

## Inspection report

Date: <b>20060720</b>	P.O.#: <b>YOTV0506F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>984</b>	PSR: <b>33857</b>
Total Pipe Length: <b>295.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date:	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>MAINMAST DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1065-0118</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1065-0117</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>G012</b>	Total length surveyed: <b>355.7 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Joint length: <b>5.0</b>
Drain. Area: <b>1065</b>	Lining:
	Category:

Comment:  
 Location details: **Lake Lindero Dr**

1 875	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0118	00:00:45	2209	
	3.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: NO	00:01:58	2210	
	8.00	Water Level, 10 %, within 8 inch: NO	00:02:47	2211	
	8.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:3:10	2212	
	20.90	Alignment Left, within 8 inch: NO	00:03:54	2213	
	43.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:54	2214	
	69.10	General Observation, within 8 inch: NO, Remarks: joint length 5'	00:06:21	2215	
	80.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:01	2216	
	118.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:42	2217	
	147.40	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:03	2218	
	165.80	Tap Break-in Active, at 3 o'clock, 4" within 8 inch: NO	00:11:07	2219	
	180.40	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:12:01	2220	
	203.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:13:12	2221	
	216.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:14:05	2222	
	259.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:15:51	2223	
	287.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:17:19	2224	
	300.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:18:13	2225	
	344.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:20:06	2226	
	351.60	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:21:06	2227	
	351.80	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:21:27	2228	
	355.70	Vermin Cockroach, within 8 inch: NO	00:22:26	2229	
	355.70	Manhole, within 8 inch: NO, Remarks: 1065-0117	00:22:49	2230	

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





## Inspection report

Date: <b>20060720</b>	P.O.#: <b>YOTV0506F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>989</b>	PSR: <b>33825</b>
Total Pipe Length: <b>230.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date:	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>RAINBOW CREST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1065-0085</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1065-0086</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>G012</b>	Total length surveyed: <b>208.4 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Joint length: <b>5.0</b>
Drain. Area: <b>1065</b>	Lining:
	Category:

Comment:  
 Location details: **Rigger Rd**

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0085	00:00:43	2275	
	3.00	Alignment Left, within 8 inch: NO	00:01:32	2276	
	8.00	Water Level, 10 %, within 8 inch: NO	00:02:16	2277	
	10.00	Fracture Multiple, from 12 to 5 o'clock, within 8 inch: YES	00:03:21	2278	
	31.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:04:23	2279	
	34.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:51	2280	
	92.50	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:06:53	2281	
	92.50	Roots Medium Lateral, at 9 o'clock, 20 %, within 8 inch: NO	00:07:16	2282	
	95.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:07:46	2283	
	96.80	Water Level, 20 %, within 8 inch: NO	00:08:09	2284	
	126.70	General Observation, within 8 inch: NO, Remarks: joint length 5'	00:09:27	2285	
	153.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:10:30	2286	
	156.30	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:11:01	2287	
	203.60	Water Level, 10 %, within 8 inch: NO	00:12:43	2288	
	207.00	Deposits Settled Compacted, from 5 to 7 o'clock, 10 %, within 8 inch: NO	00:13:12	2289	
	208.30	Deposits Settled Compacted, from 3 to 5 o'clock, 15 %, within 8 inch: YES	00:13:47	2290	
	208.40	Abandoned Survey, within 8 inch: NO, Remarks: completes inspection of e	00:14:25	2291	

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



## Inspection report

Date: <b>20060714</b>	P.O.#: <b>YOTV056E</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>Anthony Hernandez</b>	section number: <b>738</b>	PSR: <b>33701</b>
Total Pipe Length: <b>271.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAS</b>	Clean Date:	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>WHEELHOUSE LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>1065-0196</b>
City: <b>ZLAS</b>	Year Renewed:	End MH: <b>1065-0195</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>A001</b>	Total length surveyed: <b>273.7 ft</b>

Purpose: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Joint length:
Drain. Area: <b>1065</b>	Lining:
	Category:

Comment:  
 Location details: **RAINBOW VIEW**

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0196	00:00:57	175	
	1.00	Fracture Multiple, from 8 to 4 o'clock, within 8 inch: NO	00:02:52	176	
	1.30	Infil Weeper, from 2 to 2 o'clock, within 8 inch: NO	00:03:27	177	
	7.00 <b>S2</b>	Deposits Attached Encrustation, from 7 to 5 o'clock, 5 %, within 8 inch: NO, Start	00:05:30	178	
	7.00 <b>S1</b>	Deposits Attached Grease, from 5 to 7 o'clock, 5 %, within 8 inch: NO, Start	00:05:09	179	
	7.00	Water Level, 5 %, within 8 inch: NO	00:05:50	180	
	17.10	General Observation, within 8 inch: NO, Remarks: PIPE JOINT LENGTH 5	00:06:48	181	
	23.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:39	182	
	30.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:11	183	
	78.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:45	184	
	101.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:44	185	
	134.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:57	186	
	171.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:15	187	
	206.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:53	188	
	208.50	Alignment Right, within 8 inch: NO	00:15:30	189	
	209.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:47	190	
	242.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:53	191	
	269.80 <b>F2</b>	Deposits Attached Encrustation, from 7 to 5 o'clock, 5 %, within 8 inch: NO, End	00:18:12	192	
	269.80 <b>F1</b>	Deposits Attached Grease, from 5 to 7 o'clock, 5 %, within 8 inch: NO, End	00:17:53	193	
	273.70	Manhole, within 8 inch: NO, Remarks: 1065-0195	00:19:42	194	

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

## ENCLOSURE 5:

### CCTV Sewer Inspection Project Schedule

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**Agoura Hills****CCTV PROJECT SCHEDULE**

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<b>FISCAL YEAR</b>	<b>YARD</b>	<b>SUP DIST</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)*</b>
2005-2006	S	3	Y0TV0506F	29,407
2009-2010	S	3	3_1	160,618
2014-2015	S	3	3_2	97,132
<b>TOTAL (FT)</b>				<b>287,157</b>
<b>TOTAL (MILES)</b>				<b>54</b>

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