



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

March 10, 2009

IN REPLY PLEASE
REFER TO FILE: **SM-1**

Mr Robert Yalda
Director of Public Works/City Engineer
City of Calabasas
100 Civic Center Way
Calabasas, CA 91302

Attention Mr Alex Farassati

Dear Mr Yalda.

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 inspection of 34,145 feet or approximately 9.2 percent of the City of Calabasas' 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 Infrastructure Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

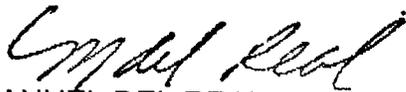
Mr Robert Yalda
March 10, 2009
Page 2

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

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr Robert Swartz at (626) 300-3367, 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
1647

Enc.

bc: Programs Development (Ghazarian)

bc: MdR, 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): | 1191 & 1192 |
| Report By: | Phyo Kyaw | Report Date: | 02/19/09 |

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 inspection of 34,145 feet or approximately 9.2 percent of the City of Calabasas' sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP) Quick Rating methodology to rank the structural and maintenance ratings 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 requires 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 87.6 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 12.4 percent of the inspected pipe segments within the City of Calabasas 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 | 3,928 | 11.5 | 20 |
| 2: Good | 20,246 | 59.3 | 102 |
| 3: Fair | 5,746 | 16.8 | 29 |
| 4: Poor | 3,485 | 10.2 | 17 |
| 5: Immediate Attention | 740 | 2.2 | 4 |
| TOTAL | 34,145 | 100.0 | 172 |

STRUCTURAL REPORT

Our inspection revealed that approximately 96.8 percent of the inspected pipe segments within the City of Calabasas were free of severe structural defects. However, the remaining 3.2 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 6 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 6 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|------------------------|------------------|-------------------------------------|--------------|
| 1: Excellent | 24,826 | 72.7 | 125 |
| 2: Good | 5,025 | 14.7 | 25 |
| 3: Fair | 3,186 | 9.4 | 16 |
| 4: Poor | 141 | 0.4 | 1 |
| 5: Immediate Attention | 967 | 2.8 | 5 |
| TOTAL | 34,145 | 100.0 | 172 |

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television inspection of the remaining sewer lines within the City of Calabasas according to the following schedule.

| FISCAL YEAR | PROJECT NAME | LENGTH (FT) | PERCENTAGE OF SYSTEM |
|--------------------|---------------------|--------------------|-----------------------------|
| 2005-2006 | Y0TV0506F | 34,145 | 9.2 |
| 2011-2012 | 3_3 | 253,558 | 68.5 |
| 2014-2015 | 3_2 | 82,540 | 22.3 |
| TOTAL | | 370,243 | 100.0 |

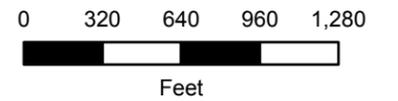
ENCLOSURE 1:

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

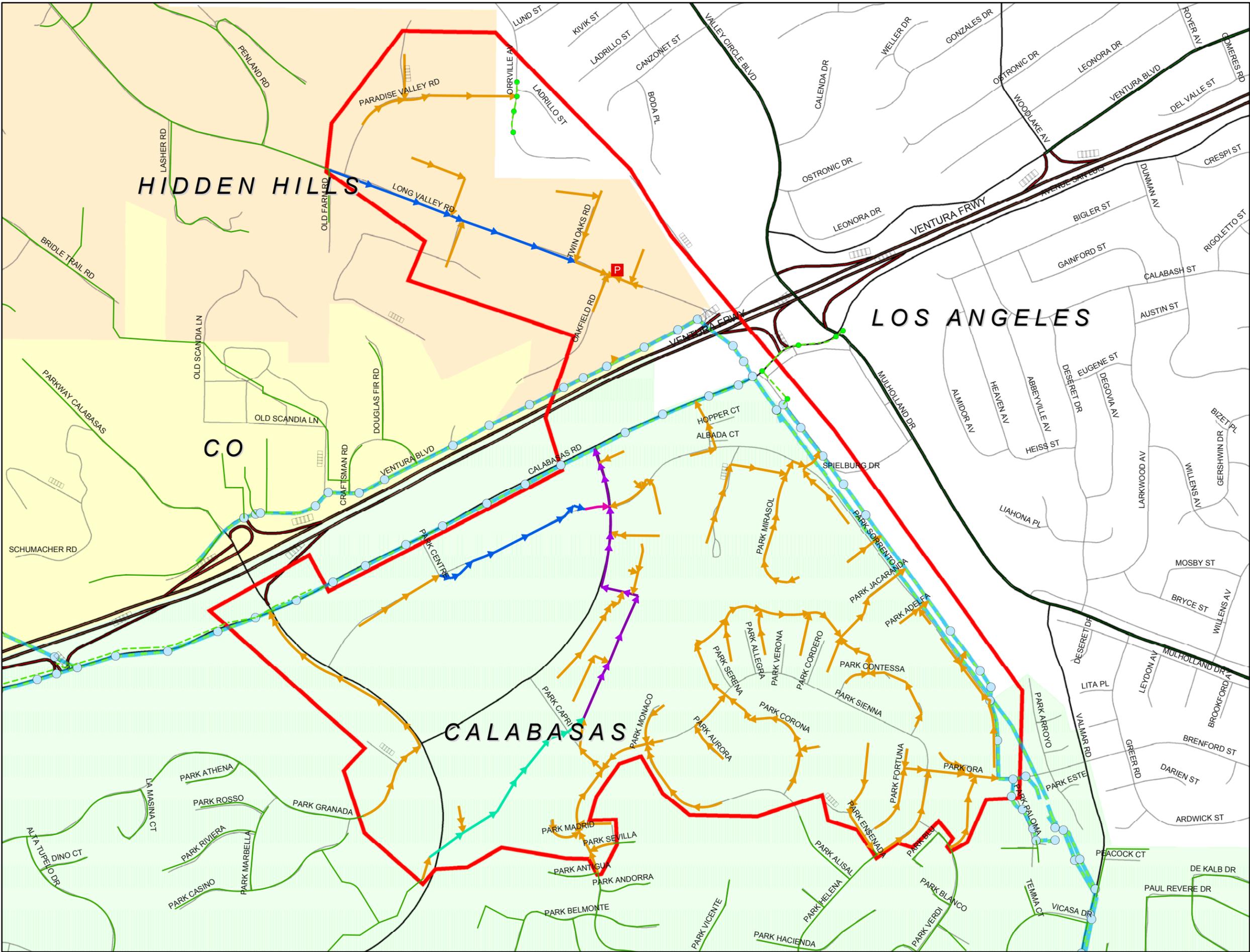
- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

- 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 CALABASAS (Y0TV0506F)
 as of 08/04/06

| Item No. | QMR | Start MH | End MH | Street | Observation | Corrective Action Taken |
|----------|------|-----------|-----------|---|-------------------------------------|--|
| 1 | 5225 | 1191-0259 | 1191-0262 | PARK SIENNA | Obstacle: 124' | Remove obstacle; Hydrojet (completed 11/13/08) |
| 2 | 5124 | 1191-0196 | 1191-0195 | PARK MIRASOL | Obstacle: 110' | Remove obstacle; Hydrojet (completed 10/31/08) |
| 3 | 5123 | 1191-0214 | 1191-0215 | PARK JACARANDA RD | Root ball | Rodder (completed 10/21/08) |
| 4 | 5123 | 1191-0281 | 1191-0282 | PARK SORRENTO | Debris: End MH 1191-0282 | Clean MH 1191-0282 (completed 11/13/08) |
| 5 | 422D | 1191-0340 | 1191-0171 | COMMONS WAY | Camera underwater | Hydrojet (completed 11/13/08) |
| 6 | 4131 | 1191-0227 | 1191-0226 | EASEMENT between PARK VERONA and PARK CORDERO | Roots | Rodder on a 6-Month periodic (last cleaned 10/21/08) |
| 7 | 4131 | 1191-0251 | 1191-0250 | PARK CORONA | Roots; deposits: Start MH 1191-0251 | Rodder; Clean MH 1191-0251 (completed 10/31/08) |
| 8 | 412F | 1191-0264 | 1191-0263 | PARK ENSENADA | Deposits: End MH 1191-0263 | Clean MH 1191-0263 (completed 2/18/09) |
| 9 | 412A | 1191-0194 | 1191-0195 | PARK MIRASOL | Camera underwater | Hydrojet (completed 10/31/08) |
| 10 | 4127 | 1191-0226 | 1191-0225 | EASEMENT by PARK CORDERO | Roots: End MH 1191-0225 | Rodder; clean MH1191-0225 (completed 10/21/08) |
| 11 | 4125 | 1191-0163 | 1191-0162 | PARK CAPRI | Roots | Hydrojet (completed 10/30/08) |
| 12 | 4124 | 1191-0252 | 1191-0159 | EASEMENT by PARK CAPRI and PARK BIENNA | Corrosion | Hydrojet (completed 10/30/08) |
| 13 | 4123 | 1192-0274 | 1192-0272 | PARK MONTE | Grease | Hydrojet (completed 01/13/09) |
| 14 | 4123 | 1191-0259 | 1191-0256 | PARK SIENNA | Roots | Rodder (completed 10/30/08) |
| 15 | 4123 | 1191-0159 | 1191-0160 | EASEMENT by PARK CAPRI and PARK GRANADA | Camera underwater | Hydrojet (completed 10/30/08) |
| 16 | 4123 | 1191-0211 | 1191-0210 | PARK OLIVO RD | Roots; grease | Hydrojet (completed 01/13/09) |
| 17 | 4122 | 1191-0162 | 1191-0161 | PARK CAPRI | Roots; grease | Hydrojet (completed 01/13/09) |
| 18 | 4121 | 1191-0225 | 1191-0223 | EASEMENT by PARK CORDERO and PARK CONTESSA | Roots: Start MH 1191-0225 | Rodder; clean MH 1191-0225 (completed 10/21/08) |
| 19 | 4114 | 1191-0236 | 1191-0233 | EASEMENT between PARK SERENA and PARK ALLEGRA | Roots: End MH 1191-0233 | Clean MH 1191-0233 (completed 2/18/09) |
| 20 | 4100 | 1191-0233 | 1191-0234 | EASEMENT between PARK SERENA and PARK ALLEGRA | Roots | Rodder (completed 10/21/08) |

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, 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 | 4126 | 1191-0204 | 1191-0205 | PARK SORRENTO | Roots in lateral |

ENCLOSURE 2

CCTV PROJECT Y0TV0506F

Supervisory District 3
CALABASAS

QUICK MAINTENANCE RATING (QMR)



0 290 580 870 1,160

Legend Feet

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 Stations
- SMD Treatment Plants

Maintained by Others:

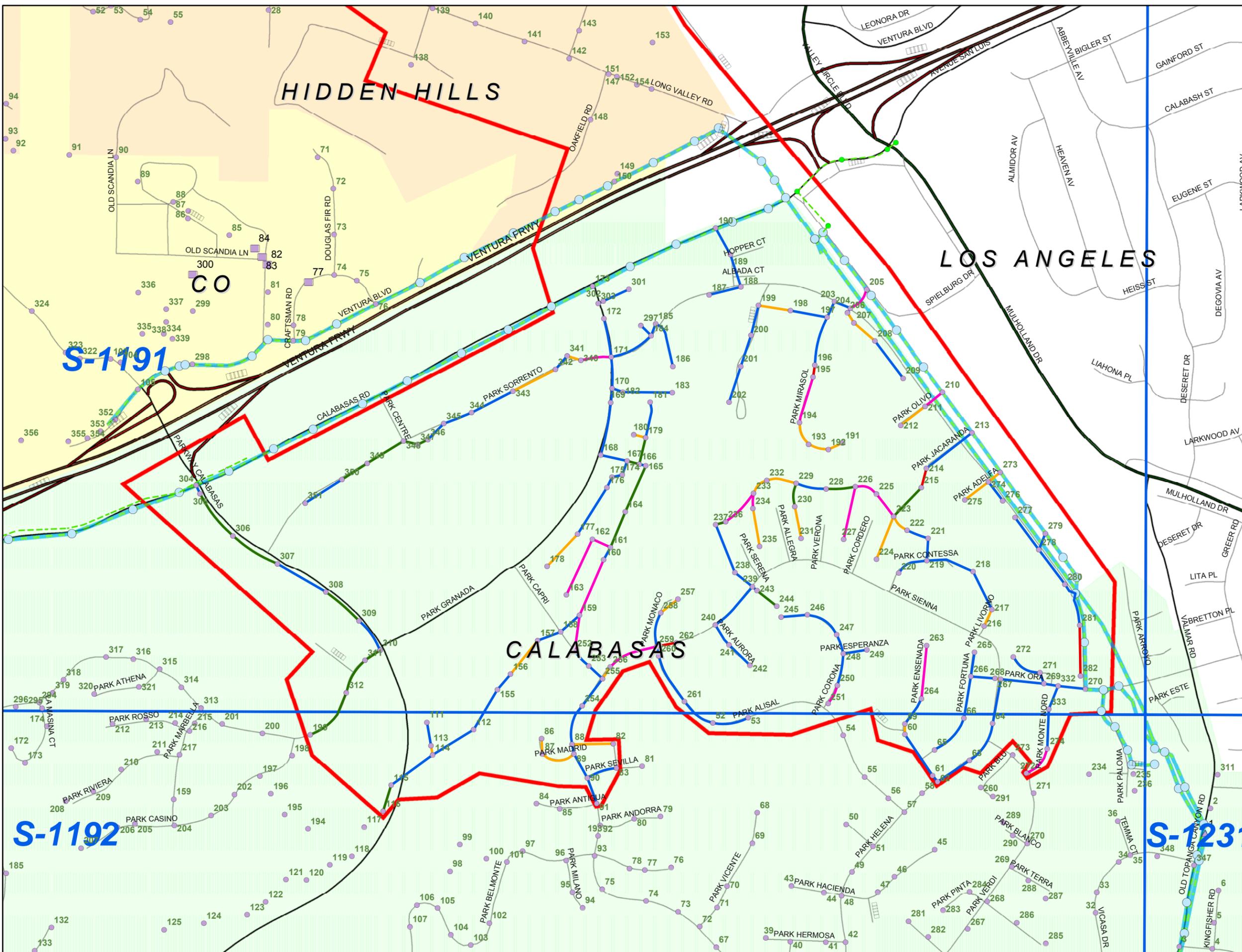
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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SEPTEMBER 2008

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ENCLOSURE 3:

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

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

| Item No. | QSR | Start MH | End MH | Street | Observation: Location | Proposed Corrective Method | Length of Repair (FT) |
|----------|------|-----------|-----------|--|---|--|-----------------------|
| 1 | 5141 | 1192-0063 | 1192-0064 | PARK HELENA | Hole with soil visible and fractures: 176' | Structural integrity intact. No action needed. | - |
| 2 | 5141 | 1192-0091 | 1192-0090 | PARK SIENNA | Hole with soil visible and fractures: 163' | Structural integrity intact. No action needed. | - |
| 3 | 5141 | 1191-0201 | 1191-0202 | EASEMENT by PARK SORRENTO and PARK MIRASOL | Hole with soil visible and fractures: 225' | Structural integrity intact. No action needed. | - |
| 4 | 5132 | 1191-0333 | 1191-0332 | PARK MONTE | Hole with void visible: 177'; multiple cracks | Lining: MH to MH | 187 |
| 5 | 5121 | 1191-0232 | 1191-0233 | EASEMENT by PARK ALLEGRA | Hole and fractures: 18' | Lining: MH to MH | 201 |
| 6 | 4131 | 1191-0250 | 1191-0248 | PARK CORONA | Fractures and cracks | Structural integrity intact. No action needed. | - |

ENCLOSURE 3

CCTV PROJECT Y0TV0506F

Supervisory District 3
CALABASAS

QUICK STRUCTURAL RATING (QSR)



0 290 580 870 1,160



Legend Feet

SMD Sanitary Sewers

QSR

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

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

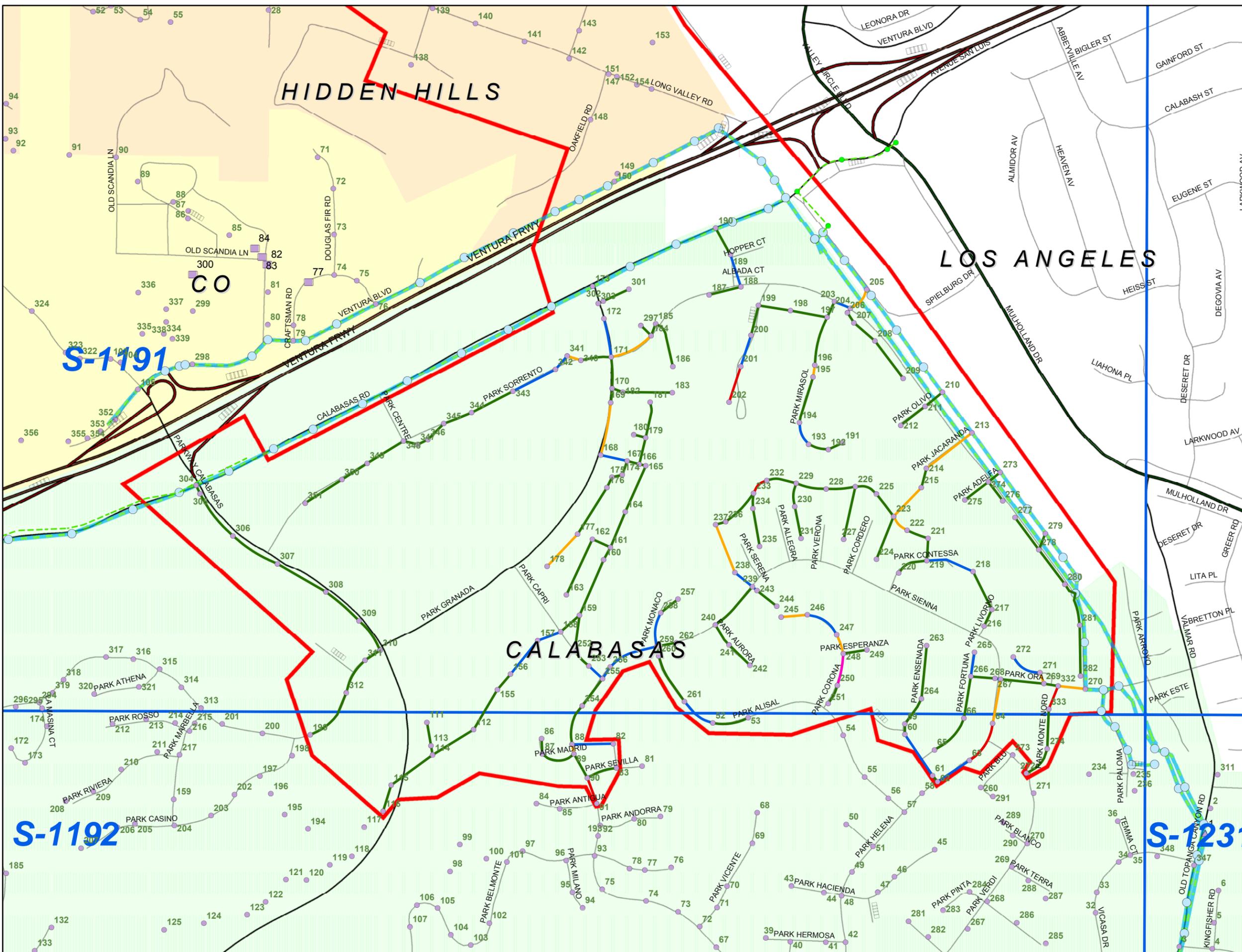
SMD Operations Maps

- CCTV Project Area

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SEPTEMBER 2008

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S-1191

S-1192

S-1231

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060705 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 839 | PSR: 31188 |
| Total Pipe Length: 299.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1192 |

| | | |
|---------------------------------------|---------------------------------------|--------------------------------------|
| Street: PARK HELENA | Flow Control: N Not Controlled | Start MH: 1192-0063 |
| City: CAL | Year Renewed: | End MH: 1192-0064 |
| Location Code: C Light Highway | Tape/Media #: G002 | Total length surveyed: 238 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1192 | Lining: |
| | Category: |

Comment:
 Location details: **Park Ensenada**

| 1:600 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1192-0063 | 00:00:58 | 265 | |
| | 8.10 | Deposits Attached Grease, from 7 to 5 o'clock, 5 %, within 8 inch: NO | 00:02:13 | 266 | |
| | 8.10 | Water Level, 15 %, within 8 inch: NO | 00:01:57 | 267 | |
| | 55.80 | General Observation, within 8 inch: NO, Remarks: joint length 5' | 00:04:13 | 268 | |
| | 78.20 | Deposits Attached Grease, from 7 to 5 o'clock, 5 %, within 8 inch: NO | 00:05:16 | 269 | |
| | 131.50 | Deposits Attached Grease, from 7 to 5 o'clock, 5 %, within 8 inch: NO | 00:07:14 | 270 | |
| | 146.60 | Alignment Left, within 8 inch: NO | 00:08:04 | 271 | |
| | 161.90 | Alignment Left, within 8 inch: NO | 00:08:49 | 272 | |
| | 177.30 | Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES | 00:10:08 | 273 | |
| | 177.90 | Hole Soil Visible, from 9 to 10 o'clock, within 8 inch: NO | 00:10:48 | 274 | |
| | 185.30 | Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO | 00:11:41 | 275 | |
| | 187.40 | Deposits Attached Grease, from 7 to 5 o'clock, 5 %, within 8 inch: NO | 00:12:10 | 276 | |
| | 227.80 | Alignment Left, within 8 inch: NO | 00:13:50 | 277 | |
| | 238.00 | Manhole, within 8 inch: NO, Remarks: 1192-0064 | 00:14:40 | 278 | |

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



National Plant Services, INC.
 1461 Harbor Avenue
 Long Beach, CA 90813-2741
 Tel: (800) 445-3614, Fax: (562) 495-1528

Inspection report

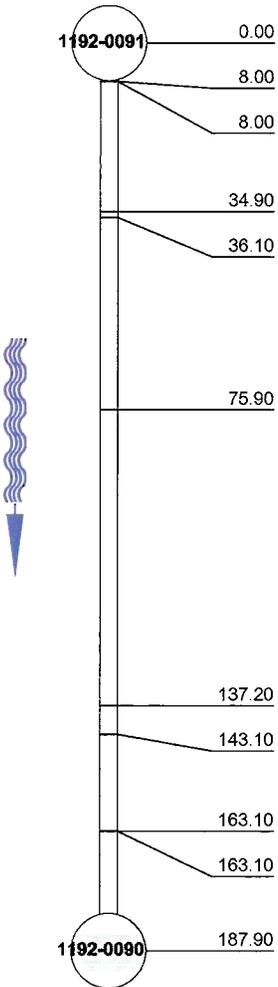
| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060706 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 862 | PSR: 31213 |
| Total Pipe Length: 180.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1192 |

| | | |
|---------------------------------------|---------------------------------------|--|
| Street: PARK SIENNA | Flow Control: N Not Controlled | Start MH: 1192-0091 |
| City: CAL | Year Renewed: | End MH: 1192-0090 |
| Location Code: C Light Highway | Tape/Media #: G003 | Total length surveyed: 187.9 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1192 | Lining: |
| | Category: |

Comment:
 Location details: **Park Antigua**

| 1:475 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1192-0091 | 00:00:43 | 587 | |
| | 8.00 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:01:55 | 588 | |
| | 8.00 | Water Level, 10 %, within 8 inch: NO | 00:01:38 | 589 | |
| | 34.90 | Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES | 00:03:05 | 590 | |
| | 36.10 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:03:28 | 591 | |
| | 75.90 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:04:56 | 592 | |
| | 137.20 | General Observation, within 8 inch: NO, Remarks: joint length 5' | 00:07:07 | 593 | |
| | 143.10 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:07:36 | 594 | |
| | 163.10 | Fracture Multiple, from 12 to 5 o'clock, within 8 inch: YES | 00:09:25 | 595 | |
| | 163.10 | Hole Void Visible, at 12 o'clock, within 8 inch: YES | 00:09:01 | 596 | |
| | 187.90 | Manhole, within 8 inch: NO, Remarks: 1192-0090 | 00:10:49 | 597 | |





National Plant Services, INC.
 1461 Harbor Avenue
 Long Beach, CA 90813-2741
 Tel: (800) 445-3614, Fax: (562) 495-1528

Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060707 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 879 | PSR: 31356 |
| Total Pipe Length: 229.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1191 |

| | | |
|-------------------------------------|---------------------------------------|--|
| Street: 0 | Flow Control: N Not Controlled | Start MH: 1191-0201 |
| City: CAL | Year Renewed: | End MH: 1191-0202 |
| Location Code: G Parking Lot | Tape/Media #: G004 | Total length surveyed: 233.7 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1191 | Lining: |
| | Category: |

Comment:
 Location details: **Park Sorrento**

| 1:575 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1191-0201 | 00:00:44 | 837 | |
| | 8.00 | Water Level, 15 %, within 8 inch: NO | 00:01:53 | 838 | |
| | 17.40 | Roots Fine Lateral, at 9 o'clock, within 8 inch: NO | 00:02:51 | 839 | |
| | 17.40 | Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO | 00:02:35 | 840 | |
| | 42.70 | Water Level, 10 %, within 8 inch: NO | 00:03:50 | 841 | |
| | 62.80 | General Observation, within 8 inch: NO, Remarks: joint length 3' | 00:05:17 | 842 | |
| | 175.30 | Deposits Attached Other, from 10 to 2 o'clock, 5 %, within 8 inch: NO | 00:08:34 | 843 | |
| | 225.20 | Fracture Multiple, from 7 to 2 o'clock, within 8 inch: YES | 00:10:51 | 844 | |
| | 225.50 | Hole Void Visible, from 9 to 10 o'clock, within 8 inch: NO | 00:11:20 | 845 | |
| | 227.10 | Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO | 00:11:49 | 846 | |
| | 229.30 | Obstacle External Pipe or Cable, at 7 o'clock, 5 %, within 8 inch: NO, Remarks: bar | 00:12:35 | 847 | |
| | 233.70 | Manhole, within 8 inch: NO, Remarks: 1191-0202 | 00:13:16 | 848 | |

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



Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060703 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 837 | PSR: 31234 |
| Total Pipe Length: 186.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1191 |

| | | |
|---|---------------------------------------|--|
| Street: PARK MONTE | Flow Control: N Not Controlled | Start MH: 1191-0333 |
| City: CAL | Year Renewed: | End MH: 1191-0332 |
| Location Code: D Easement/Right of Way | Tape/Media #: G001 | Total length surveyed: 186.6 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1191 | Lining: Category: |

Comment:
 Location details: **Park Ora**

| 1:465 | position | observation | MPEG | photo | grade |
|-------|-----------------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1191-0333 | 00:00:58 | 218 | |
| | 0.20 | Water Level, 10 %, within 8 inch: NO | 00:01:30 | 219 | |
| | 3.40 S1 | Deposits Attached Other, from 8 to 4 o'clock, 5 %, within 8 inch: NO, Remarks: calcium, Start | 00:02:00 | 220 | |
| | 5.30 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:02:28 | 221 | |
| | 7.20 | Water Level, 15 %, within 8 inch: NO | 00:02:49 | 222 | |
| | 7.30 | Tap Factory Active, at 3 o'clock, 4" within 8 inch: NO | 00:3:10 | 223 | |
| | 14.50 | Water Level, 10 %, within 8 inch: NO | 00:04:03 | 224 | |
| | 35.60 | Alignment Down, within 8 inch: NO | 00:05:13 | 225 | |
| | 35.60 | General Photo, within 8 inch: NO | 00:05:00 | 226 | |
| | 37.60 | Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO | 00:05:35 | 227 | |
| | 44.10 F1 | Deposits Attached Other: from 8 to 4 o'clock, 5 %, within 8 inch: NO, Remarks: calcium, End | 00:06:05 | 228 | |
| | 73.20 | Joint Offset Medium, within 8 inch: NO | 00:07:31 | 229 | |
| | 74.50 | Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO | 00:07:55 | 230 | |
| | 77.80 | Alignment Down, within 8 inch: NO | 00:08:23 | 231 | |
| | 105.10 | Fracture Circumferential, from 9 to 3 o'clock, within 8 inch: YES | 00:09:31 | 232 | |
| | 106.20 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:09:52 | 233 | |
| | 115.60 | General Observation, within 8 inch: NO, Remarks: joint length 5' | 00:10:33 | 234 | |
| | 121.90 | Alignment Down, within 8 inch: NO | 00:10:56 | 235 | |
| | 154.80 | Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES | 00:13:15 | 236 | |
| | 154.80 | Intruding Sealing Ring Hanging, from 10 to 12 o'clock, 5 %, within 8 inch: NO | 00:12:21 | 237 | |
| | 154.80 | Roots Fine Joint, at 3 o'clock, within 8 inch: YES | 00:12:48 | 238 | |
| | 160.30 | Fracture Circumferential, from 2 to 10 o'clock, within 8 inch: YES | 00:13:53 | 239 | |
| | 177.80 | Infil Weeper: from 2 to 5 o'clock, within 8 inch: NO | 00:14:59 | 240 | |
| | 177.90 | Hole Void Visible, from 2 to 5 o'clock, within 8 inch: NO | 00:15:36 | 241 | |
| | 184.20 | Fracture Longitudinal, at 03 o'clock, within 8 inch: YES | 00:16:54 | 242 | |



National Plant Services, INC.
 1461 Harbor Avenue
 Long Beach, CA 90813-2741
 Tel: (800) 445-3614, Fax: (562) 495-1528

Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060703 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 837 | PSR: 31234 |
| Total Pipe Length: 186.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1191 |

| 1-465 | position | observation | MPEG | photo | grade |
|-------|----------|--|----------|-------|-------|
| | 184.20 | Fracture Longitudinal, at 03 o'clock, within 8 inch: YES | 00:16:54 | 242 | |
| | 186.60 | Manhole, within 8 inch: NO, Remarks: 1191-0332 | 00:17:30 | 243 | |



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



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Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060802 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 1092 | PSR: 31384 |
| Total Pipe Length: 124.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1191 |

| | | |
|---|---------------------------------------|---------------------------------------|
| Street: 0 | Flow Control: N Not Controlled | Start MH: 1191-0232 |
| City: CAL | Year Renewed: | End MH: 1191-0233 |
| Location Code: D Easement/Right of Way | Tape/Media #: G019 | Total length surveyed: 53.9 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1191 | Lining: |
| | Category: |

Comment:
 Location details: **Park Allegra**

| 1:150 | position | observation | MPEG | photo | grade |
|-------|----------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1191-0232 | 00:00:43 | 3487 | |
| | 0.00 | Water Level, 15 %, within 8 inch: NO | 00:01:03 | 3488 | |
| | 2.10 | Deposits Attached Grease, from 10 to 2 o'clock, 5 %, within 8 inch: NO | 00:01:40 | 3489 | |
| | 18.60 | Hole Void Visible, from 10 to 2 o'clock, within 8 inch: YES | 00:03:35 | 3490 | |
| | 18.60 | Fracture Circumferential, from 2 to 10 o'clock, within 8 inch: YES | 00:04:11 | 3491 | |
| | 20.80 | Tap Factory Active, at 9 o'clock, 6" within 8 inch: NO | 00:04:44 | 3492 | |
| | 53.80 | Tap Break-in Intruding, at 9 o'clock, 4" 1. within 8 inch: NO | 00:08:02 | 3493 | |
| | 53.90 | Roots Medium Lateral, from 8 to 10 o'clock, 10 %, within 8 inch: NO | 00:08:29 | 3494 | |
| | 53.90 | Abandoned Survey, within 8 inch: NO, Remarks: completes inspection of e | 00:08:58 | 3495 | |

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



Inspection report

| | | | | | |
|-------------------------------------|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|
| Date: 20060705 | P.O.#: YOTV0506F | Weather: 1 Dry | Surveyed By: Gilbert Contreras | section number: 852 | PSR: 31401 |
| Total Pipe Length: 222.00 | Survey Customer: LACDPW | System Owner: CAL | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1191 |

| | | |
|---------------------------------------|---------------------------------------|--|
| Street: PARK CORONA | Flow Control: N Not Controlled | Start MH: 1191-0250 |
| City: CAL | Year Renewed: | End MH: 1191-0248 |
| Location Code: C Light Highway | Tap/Media #: G002 | Total length surveyed: 240.9 ft |

| | |
|--------------------------------------|--|
| Purpose: F Routine Assessment | Dia/Height: C Circular 8/8 |
| Use: SS Sanitary | Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0 |
| Drain. Area: 1191 | Lining: |
| | Category: |

Comment:
 Location details: **Park Esperanza**

| 1 600 | position | observation | MPEG | photo | grade |
|-------|-----------------|---|----------|-------|-------|
| | 0.00 | Manhole, within 8 inch: NO, Remarks: 1191-0250 | 00:00:44 | 435 | |
| | 5.00 | Roots Tap Joint, from 3 to 9 o'clock, 15 %, within 8 inch: YES | 00:01:45 | 436 | |
| | 8.00 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:02:45 | 437 | |
| | 8.00 | Water Level, 5 %, within 8 inch: NO | 00:02:28 | 438 | |
| | 36.10 | Fracture Circumferential, from 2 to 3 o'clock, within 8 inch: YES | 00:04:35 | 439 | |
| | 36.10 | Roots Fine Joint, from 10 to 5 o'clock, within 8 inch: YES | 00:04:04 | 440 | |
| | 56.70 | Deposits Attached Other. from 3 to 9 o'clock, 5 %, within 8 inch: NO | 00:05:30 | 441 | |
| | 64.30 S1 | Deposits Attached Other. from 8 to 4 o'clock, 5 %, within 8 inch: NO, Remarks: calcium, Start | 00:06:06 | 442 | |
| | 73.20 | Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO | 00:06:40 | 443 | |
| | 85.90 F1 | Deposits Attached Other, from 8 to 4 o'clock, 5 %, within 8 inch: NO, Remarks: calcium, End | 00:07:21 | 444 | |
| | 105.00 | Fracture Multiple, from 3 to 10 o'clock, within 8 inch: YES | 00:08:19 | 445 | |
| | 106.50 | Deposits Attached Other, from 8 to 4 o'clock, 5 %, within 8 inch: NO | 00:08:40 | 446 | |
| | 124.80 | General Observation, within 8 inch: NO, Remarks: joint length 5' | 00:09:33 | 447 | |
| | 157.00 | Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO | 00:10:49 | 448 | |
| | 209.50 | Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES | 00:13:00 | 449 | |
| | 229.60 | Fracture Circumferential, from 2 to 9 o'clock, within 8 inch: YES | 00:14:12 | 450 | |
| | 235.10 | Deposits Attached Grease, from 4 to 8 o'clock, 5 %, within 8 inch: NO | 00:14:47 | 451 | |
| | 240.90 | Manhole, within 8 inch: NO, Remarks: 1191-0248 | 00:15:30 | 452 | |

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