

DONALD L. WOLFE, 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 www.ladpw.org

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IN REPLY PLEASE REFER TO FILE: W-9

Mr Steve Forster, Director of Public Works City of La Mirada 15515 Phoebe Avenue La Mirada, CA 90638

Dear Mr. Forster

October 25, 2006

CONDITION ASSESSMENT PROGRAM FISCAL YEAR 2005-06 PROJECT Y0TV0506A

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 162,807 feet or approximately 31 percent of the City of La Mirada's sewer system. This work was completed as part of Fiscal Year 2005-06 project Y0TV0506A.

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

- Condition Assessment Report
- Project Overview Map (Enclosure 1)
- · Quick Maintenance Rating Report, Priority List of Identified Deficiencies, and Quick Maintenance Rating Map (Enclosure 2)
- Quick Structural Rating Report, Priority List of Identified Deficiencies, and Quick Infrastructure Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Steve Forster October 25, 2006 Page 2

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. John Adkins, Monday through Thursday, 7 a.m. to 6 p.m., at (626) 300-3367.

Very truly yours,

DONALD L. WOLFE Director of Public Works

MANUEL DEL REAL

Assistant Deputy Director

Waterworks and Sewer Maintenance Division

JA:sb

W:\Y0TV0506A\Final-Report\Cover Letter.doc

Enc.

bc: MdR, KL, JA, File (Y0TV0506A), SPINDLE

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

PROJECT NAME: Y0TV0506A PROJECT MGR: Sameer Hamad PROJECT DATE: 09/12/05 – 12/31/05 CONTACT NO: (626) 300-3363

SUP. DISTRICT(s): 4 MAP PAGE(S): 2080, 2129, and 2130

Report By: Kari Eskridge Report Date: 08/30/2006

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 162,807 feet or approximately 31 percent of the City of La Mirada's sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0506A included sewer lines located in both the Unincorporated County of Los Angeles area and in the City of La Mirada. Enclosed for your reference is an overview map of the project area (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or infrastructure defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects and failure is unlikely in the foreseeable future, while a grade of 5 indicates that a pipe segment requires immediate attention and that the pipe has either failed or will likely fail within the next 5 years. A detailed breakdown of the 5 possible defect grades is as follows:

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

MAINTENANCE REPORT

Our inspection revealed that approximately 98 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 2 percent of the inspected pipe segments within the City of La Mirada area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. Enclosure 2 includes a color-coded map showing the quick maintenance rating for each pipe segment and outlines the observation from the CCTV inspection and the corrective action taken by our maintenance staff. All of the action items listed in Enclosure 2 have been completed.

QUICK MAINTENANCE RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|---------------------------|------------------------|---|--------------|
| 1: Excellent | 1,870 | 1.15 | 7 |
| 2: Good | 148,556 | 91.25 | 601 |
| 3: Fair | 9,151 | 5.62 | 38 |
| 4: Poor | 2,056 | 1.26 | 9 |
| 5: Immediate Attention | 1,174 | 0.72 | 5 |
| TOTAL | 162,807 | 100.00 | 660 |

STRUCTURAL REPORT

Our inspection revealed that approximately 98 percent of the inspected pipe segments within the City of La Mirada were free of sever structural defects. However, the remaining 2 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Infrastructure Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. Items 1 through 10 in Enclosure 3 will be repaired in the next 18 months utilizing District forces and contractors. A copy of the actual inspection report for these 10 segments is included in Enclosure 4. The remaining segments listed in Enclosure 3 will be repaired in the future 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.

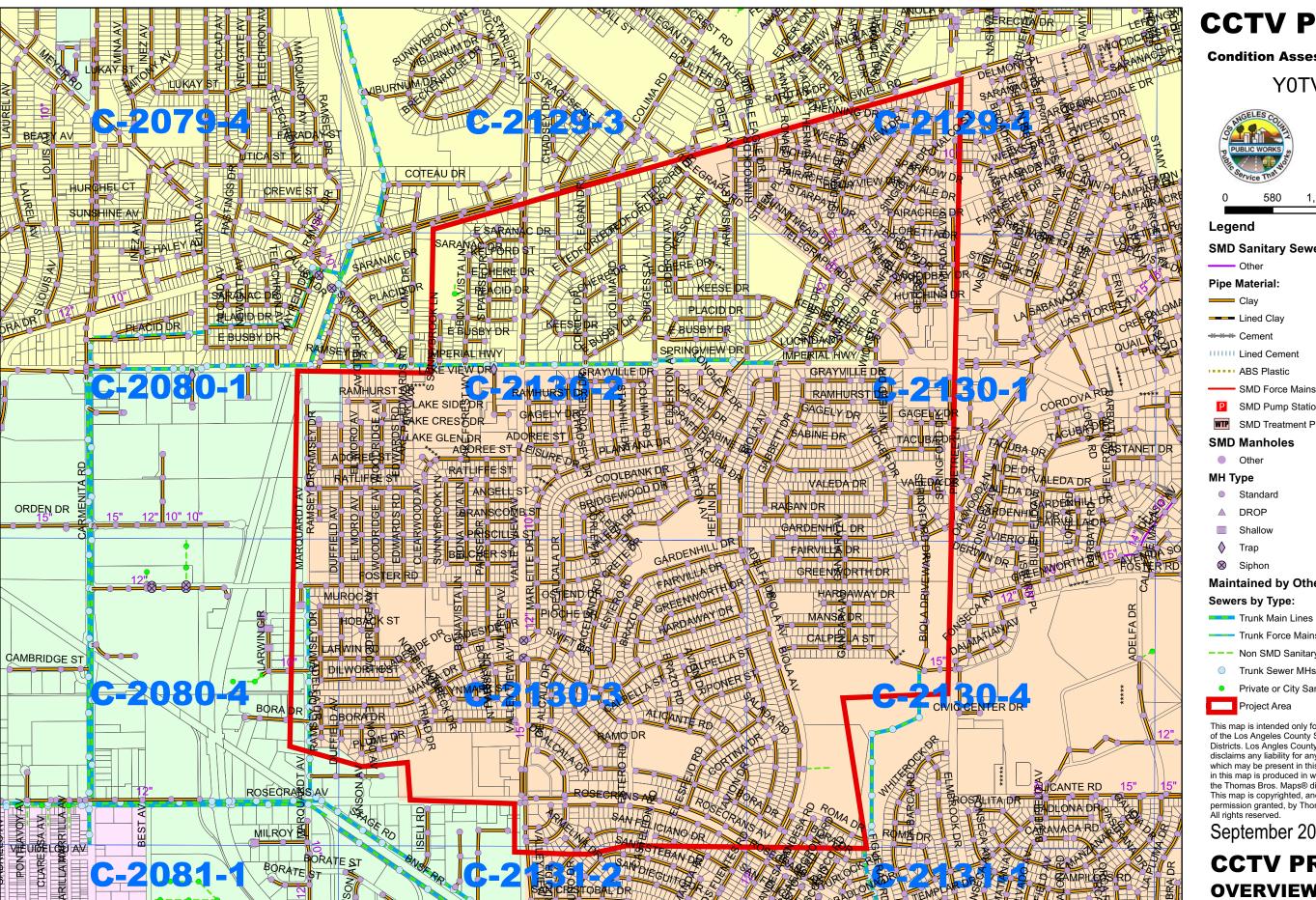
The following Quick Infrastructure Rating Table outlines the recommended repairs and any additional action required for each pipe segment listed. (Enclosure 3)

QUICK INFRASTRUCTURE RATING TABLE

| DEFECT GRADE | PIPE LENGTH (FT) | PERCENT TOTAL INSPECTED PIPE LENGTH | NO. SEGMENTS |
|---------------------------|------------------------|---|--------------|
| 1: Excellent | 96,203 | 59.09 | 408 |
| 2: Good | 12,705 | 7.80 | 52 |
| 3: Fair | 50,174 | 30.82 | 184 |
| 4: Poor | 2,021 | 1.24 | 9 |
| 5: Immediate Attention | 1,704 | 1.05 | 7 |
| TOTAL | 162,807 | 100.00 | 660 |

ENCLOSURE 1:

Project Maps



ENCLOSURE 1

CCTV PROJECT

Condition Assessment Projects

Y0TV0506A





1,160 1,740

Legend

SMD Sanitary Sewers

Other

Pipe Material:

—— Clay

Lined Clay

** Cement

Lined Cement

ABS Plastic

SMD Pump Stations

WTP SMD Treatment Plants

SMD Manholes

MH Type

Standard

▲ DROP

Shallow

Trap

⊗ Siphon

Maintained by Others

Sewers by Type:

Trunk Main Lines

Trunk Force Mains

--- Non SMD Sanitary Sewers

Trunk Sewer MHs

Private or City Sanitary Sewer MHs



Project Area

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps® digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps®. All rights reserved.

September 2005

CCTV PROJECT OVERVIEW MAP

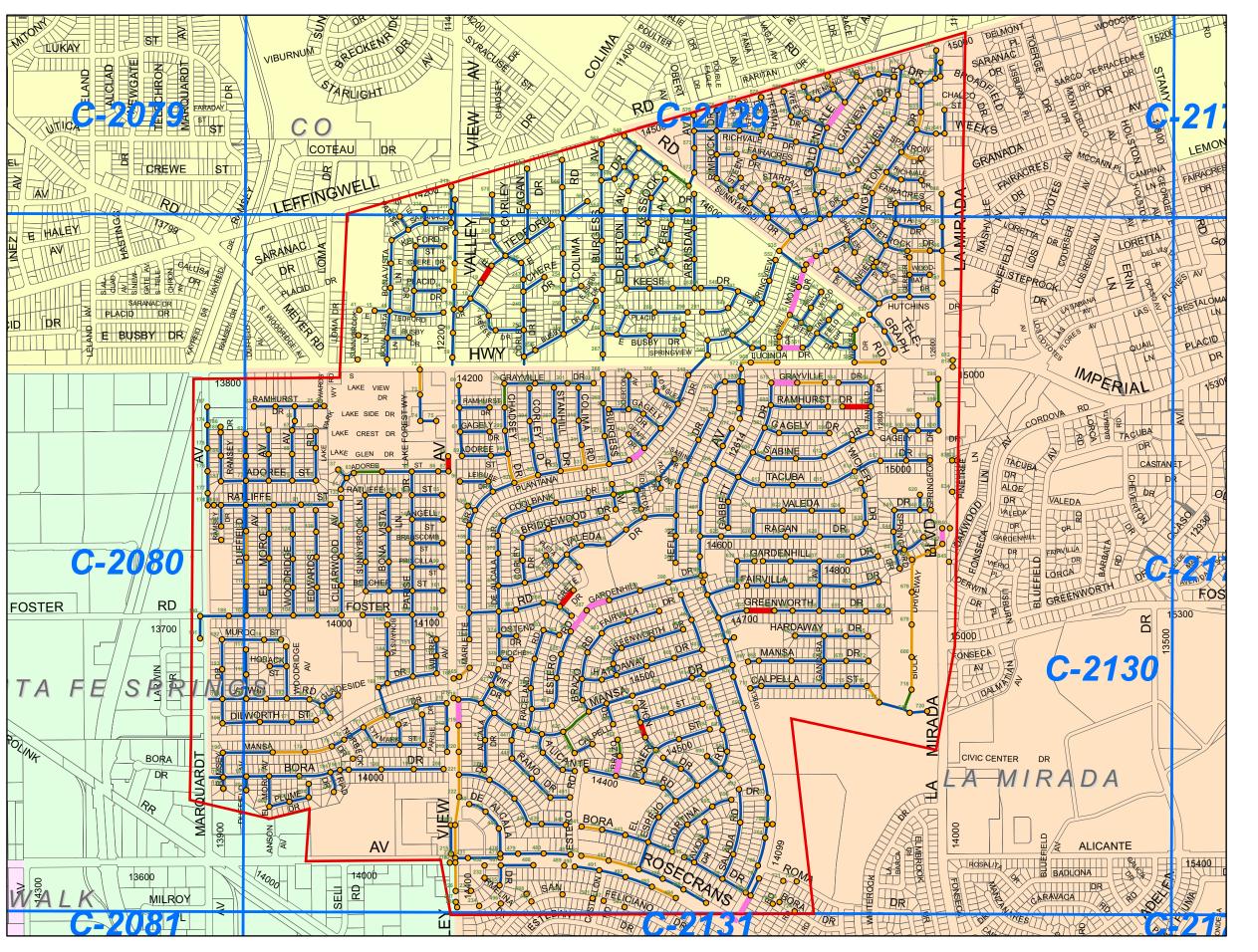
ENCLOSURE 2:

QMR Report
Priority List of Identified Deficiencies
Quick Maintenance Rating Map

ENCLOSURE 2

QMR REPORT and PRIORITY LIST FOR IDENTIFIED DEFICIENCIES - CITY OF LA MIRADA (YOTV0506A)

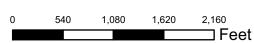
| Item No. | Jurisdiction | MMS | QMR | Observation | Corrective Action Taken |
|-------------|--------------|--------|------|---------------------------------|--|
| 2 | LAM | 114113 | 5123 | ROOTS | Rod M/L and re-televise |
| 3 | LAM | 113910 | 5122 | ROOTS | Rod M/L and re-televise |
| 4 | LAM | 113968 | 5122 | ROOTS | Rod M/L and put on 90-day periodic |
| 5 | LAM | 114095 | 5122 | DEBRIS | Hydro clean M/L and re-televise |
| 6 | LAM | 114443 | 5122 | OBSTACLES IN JOINT | Rod M/L and re-televise |
| | | | | | On former 18-month periodic, reativate |
| 7 | LAM | 114136 | 4224 | WATER LEVEL (CAMERA UNDERWATER) | rodder 90-day periodic until refoamed. |
| 8 | LAM | 115086 | 4134 | INFILTRATION RUNNER | Mill saw M/L and re-televise |
| 10 | LAM | 114188 | 4131 | ENCRUSTATION | Mill saw M/L and re-televise |
| 11 | LAM | 114326 | 4131 | ROCKS | Hydro clean M/L and re-televise |
| | | | | | On former 18-month periodic, reativate |
| 12 | LAM | 114135 | 4123 | WATER LEVEL (CAMERA UNDERWATER) | rodder 90-day periodic until refoamed. |
| 13 | LAM | 113840 | 4122 | WATER LEVEL (CAMERA UNDERWATER) | Hydro clean M/L and re-televise |
| 16 | LAM | 114013 | 4122 | WATER LEVEL (CAMERA UNDERWATER) | Rod M/L and re-televise |
| 17 | LAM | 114088 | 4122 | ROOTS | Rod M/L and re-televise |
| 18 | LAM | 113816 | 4121 | WATER MARK @ 60% | M/L always has heavy flow |
| 19 | LAM | 113960 | 4121 | ROOTS | Rod M/L and re-televise |



ENCLOSURE 2 CCTV PROJECT Y0TV0506A







Legend

Manhole

Quick Maintenance Rating

- 1: EXCELLENT

4: POOR

____ 2: GOOD

- 3: FAIR

5: IMMEDIATE ATTENTION

SMD Operations Maps

CCTV Project Area

Quick
Maintenance
Rating
(QMR)
As of 06/15/06

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June 2006

CCTV PROJECT

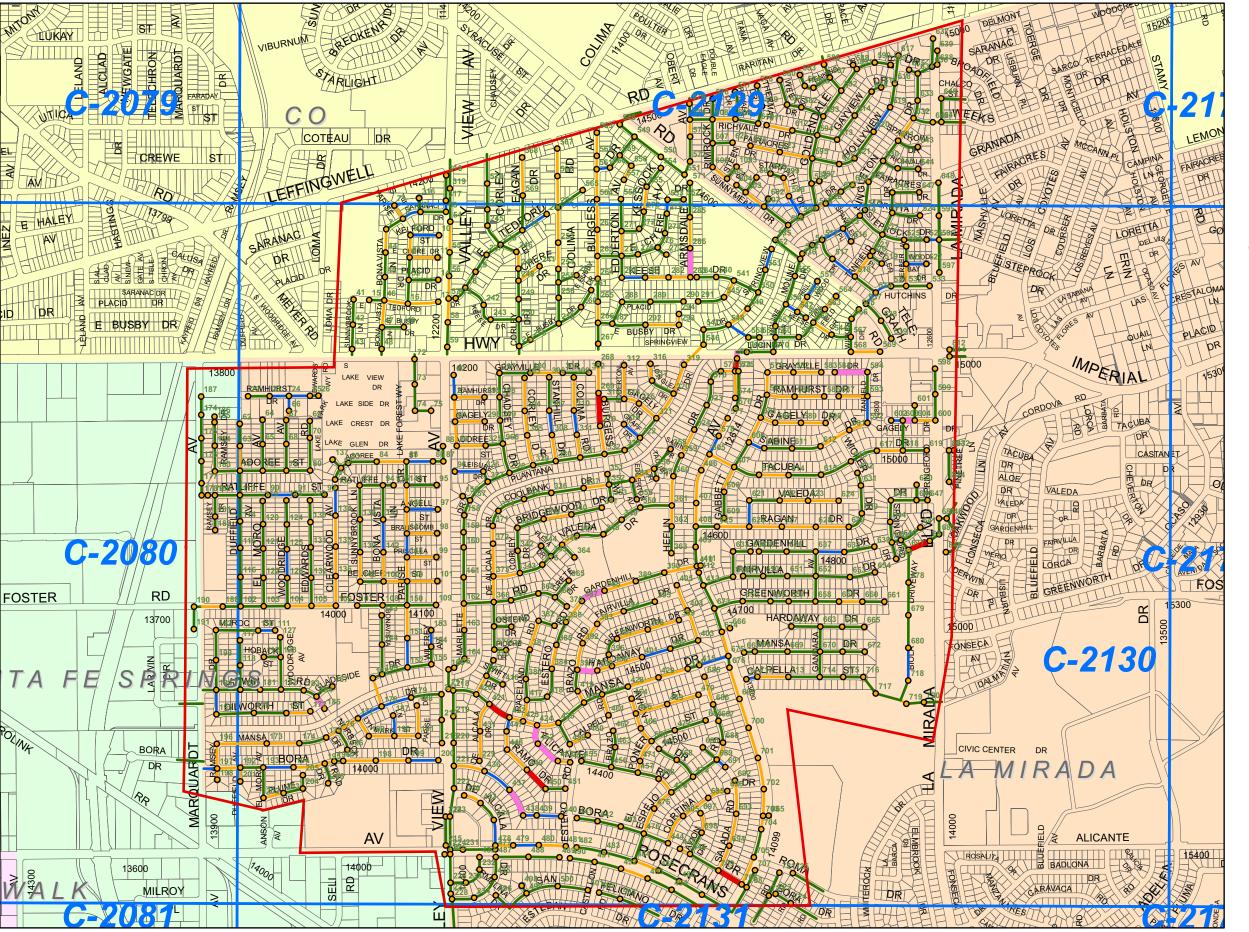
ENCLOSURE 3:

QSR Report
Priority List of Identified Deficiencies
Quick Structural Rating Map

ENCLOSURE 3

QSR REPORT and PRIORITY LIST FOR IDENTIFIED DEFICIENCIES - CITY OF LA MIRADA (Y0TV0506A) $\,$ 04-03-06

| | | | | | 04-03-00 | | | |
|-------------|-----------------|--------------|-----------|--|---|---------------------------------------|--------------------------|--------------------------|
| Item No. | Jurisdiction | PSR (MMS) | QSR | Observation | Comments | Proposed Corrective Method | Length of Repair (FT) | Estimated Repair Cost |
| | | | | | | | | |
| 1 | LAM | 114077 | 5100 | BVV: Broken Void Visible, 10-2 o'clock, within 8 | Soil erosion occurring | Point repair at 148' from U/S manhole | | \$5,000 |
| | | | 0.00 | | 3 | | | , -, |
| 2 | LAM | 113811 | 5100 | B: Broken, 7-12 o'clock, within 8 inches: yes | Broken pipe in flow line | Point repair at 2' from U/S manhole | | \$5,000 |
| | | | | HSV: Hole Soil Visible, 9 o'clock, within 8 inches: yes | | Point repair at 155' from U/S manhole | | \$5,000 |
| 3 | LAM | 114082 | 5141 | FM: Fracture Multiple, from 3-10 o'clock, within 8 inches: yes | Broken area just above water level, multiple fractures along bottom half of pipe | line entire line | 322 | \$19,320 |
| | LAW | 114002 | 3141 | FM: Fracture Multiple, 12-12 o'clock, within 8 | lifactures along bottom hall of pipe | inte critic inte | 322 | Ψ13,320 |
| 4 | LAM | 114058 | 4232 | inches: yes FM: Fracture Multiple, 3-9 o'clock, within 8 inches: yes | Segment should be broken to broken soil visible, many broken and fractured areas in this pipe segment | line entire line | 214 | \$12,840 |
| - | LAW | 114000 | 7202 | FM: Fracture Multiple, 7-2 o'clock, within 8 | Jeginent | inte critic inte | 217 | Ψ12,040 |
| 5 | LAM | 113861 | 4236 | inches: yes B: Broken, 7-1 o'clock, within 8 inches: yes | Broken pipe in flow line, multiple fractures exist just after broken pipe | line entire line | 242 | \$14,520 |
| | | | | BSV: Broken Soil visible, 9-11 o'clock, within 8 | | | | |
| | | | | inches: yes | Duckey area just above water line, and reviting | Deint venein et 50! | | |
| 6 | LAM | 114052 | 5141 | FM: Fracture Multiple, from 8-4 o'clock, within 8 inches: yes | Broken area just above water line, and multiple fractures cover remaining segment of pipe | Point repair at 50' from U/S manhole | | \$6,000 |
| \vdash | LAW | 114032 | 3141 | o inches, yes | Tractures cover remaining segment or pipe | ITOTTI U/S ITIATITIOLE | | \$0,000 |
| 7 | LAM | 113838 | 5132 | BSV: Broken Soil visible, 4 o'clock, within 8 inch | | Point repair at 262' from U/S manhole | | \$5,000 |
| 8 | LAM | 114261 | 5132 | HSV: Hole Soil Visible, 3-4 o'clock, within 8 inch | Hole in flow line, also multiple cracks in same pipe | Point repair at 32' from U/S manhole | | \$5,000 |
| | | | 0.02 | The state of the s | | Point repair at 26' | | φο,σσσ |
| 9 | LAM | 113953 | 4100 | B: Broken, 8-10 o'clock, within 8 inches: yes | Broken at joint | from U/S manhole | | \$5,000 |
| | | | | | Broken pipe above flow line, roots growing through | · · | | |
| 10 | LAM | 113952 | 5100 | BSV: Broken Soil visible, 2 o'clock, within 8 inch | hole | from U/S manhole | | \$5,000 |
| The se | gments below, 1 | 11-17, will | be repair | red in the future as part of the ongoing Acc | cumulative Capital Outlay Project (ACOP). | | | |
| | | Ι | | FM: Fracture Multiple, 5-11 o'clock, within 8 | | | | |
| | | | | inches: no | | | | |
| | | | | FM: Fracture Multiple, 1-3 o'clock, within 8 | fracture from 5-11 o'clock looks more like broken | | | |
| 11 | LAM | 114299 | 4212 | inches: yes | pipe, just above flow line | lining entire line | | |
| | | | | FM: Fracture Multiple, 11-1 o'clock, within 8 | | | | |
| 12 | LAM | 114142 | 4132 | inches: yes | This pipe segment is broken, not fractured | lining entire line | | |
| | | | | FM: Fracture Multiple, 3-8 o'clock, within 8 | | | | |
| 13 | LAM | 114069 | 4134 | inches: yes | Fracture in flow line | lining entire line | | |
| 14 | ZLAC | 114257 | 4136 | FM: Fracture Multiple, 7-9 o'clock, within 8 inches: yes | fracture near flow line | lining entire line | | |
| <u> </u> | | | | FM: Fracture Multiple, 4-8 o'clock, within 8 | | | | |
| 15 | LAM | 114084 | 4134 | inches: yes | fractures in flow line | lining entire line | | |
| | | | | FM: Fracture Multiple, 12-12 o'clock, within 8 | More fractures near bottom of pipe/ within area of | | | |
| 16 | LAM | 113966 | 4133 | inches: yes | flow | lining entire line | | |
| 17 | LAM | 114136 | 413B | FM: Fracture Multiple, 10-4 o'clock, within 8 inches: yes | fracture near top of pipe, above flow | lining entire line | | |
| 17 | L/\lvi | 117100 | ם טוד ו | Intolico. 300 | mastare mear top or pipe, above new | Immig critic inic | l . | |



ENCLOSURE 3

CCTV PROJECT

Y0TV0506A





□ Feet

Legend

Manhole

Quick InfraStructure Rating

- 1: Excellent

___ 2: Good

— 3: Fair

4: Poor

5: Immediate Attention

SMD Operations Maps

CCTV Project Area

Quick InfraStructure Rating (QSR) As of 06/15/06

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June 2006

CCTV PROJECT

ENCLOSURE 4:

Infrastructure Inspection Reports for Grades 4 and 5



Inspection report

| Date: 11/22/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 634 | PSR: 114082 |
|---------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

 Street:
 RAMO DR
 Flow Control:
 Start MH:
 2130-0450

 City:
 LAM
 Year Renewed
 End MH:
 2130-0449

 Location Code: B Main Highway - Suburban/Rural
 Tape/Media #:
 23
 pipe length:
 321.9 ft

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,285 ft. Pipe Length: 285

Lining Method:

Drain. Area: 2130 Category:

| 1:528 | position | code | observation | MPEG | photo | grade |
|-----------|----------|------|--|----------|-------|-------|
| | 0.00 | АМН | Upstream Manhole, Survey Begins | 00:00:36 | | |
| | 0.00 | MWL | Water Level, 5 % of cross sectional area, from 05 to 07 o'clock | 00:00:46 | | M 2 |
| 2130-0450 | 0.00 | MWM | Water Mark, 5 % of cross sectional area, from 05 to 07 o'clock | 00:00:54 | | M 2 |
| | 7.50 | TFA | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: NO, Remark: ROOTS | 00:01:42 | 241a | |
| | 46.00 | CL | Crack Longitudinal, at 12 o'clock, within 8 inch: YES | 00:02:58 | 242a | S 2 |
| | 46.90 | TFA | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: NO | 00:03:22 | 243a | |
| | 47.10 | CC | Crack Circumferential, from 09 to 10 o'clock, within 8 inch: YES | 00:03:42 | 244a | S 1 |
| | 55.30 | CM | Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES | 00:04:39 | 245a | S 3 |
| | 55.30 | RTJ | Roots Tap Joint, at 10 o'clock, 5 %, within 8 inch: YES | 00:04:52 | 246a | |
| | 59.40 | CL | Crack Longitudinal, at 03 o'clock, within 8 inch: YES | 00:05:27 | 247a | S 2 |
| | 59.40 | CL | Crack Longitudinal, at 09 o'clock, within 8 inch: YES | 00:05:50 | 248a | S 2 |
| | 60.70 | CM | Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES | 00:06:23 | 249a | S 3 |
| | 60.90 | CM | Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES | 00:06:52 | 250a | S 3 |
| | 63.80 | CC | Crack Circumferential, from 01 to 04 o'clock, within 8 inch: YES | 00:07:23 | 251a | S 1 |
| | 77.70 | TFA | Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: NO | 00:07:57 | 252a | |
| | 88.10 | CL | Crack Longitudinal, at 07 o'clock, within 8 inch: YES | 00:08:31 | 253a | S 2 |
| | 107.80 | TFA | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: NO, Remark: | 00:09:06 | 254a | |
| | 140.90 | TFA | ROOTS Tap Factory Made Active, at 02 o´clock, 6", within 8 inch: NO | 00:09:59 | 255a | |
| | 152.00 | CM | Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES | 00:10:51 | 256a | S 3 |
| | 155.20 | HSV | Hole Soil Visible, at 09 o'clock, within 8 inch: YES | 00:11:18 | 257a | S 5 |
| | 155.20 | FM | Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES | 00:11:58 | 258a | S 4 |
| | 168.40 | TFA | Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: NO | 00:12:24 | 259a | |
| | 170.50 | CL | Crack Longitudinal, at 07 o'clock, within 8 inch: YES | 00:12:51 | 260a | S 2 |
| | 202.00 | TFA | Tap Factory Made Active, at 02 o´clock, 6", within 8 inch: NO | 00:13:32 | 261a | |



5141

2200

36

MACKONE DEVELOPMENT, INC. 2244 BEVERLY BOULEVARD LOS ANGELES, CA 90057 Tel: (213) 252-9506, Fax: (213) 252-9527

Inspection report

| Date: | P.O.#: | Weather: | Surveyed By: | section number: | PSR: |
|--------------------|-------------------------------|----------------------|--------------|----------------------------------|----------------------------|
| 11/22/2005 | Y0TV0506A | 1 Dry | J.ALEJOS | 634 | 114082 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| | | | 26-007.00 | | LAW | | J Jet | ting | 213 | U |
|----------|-----------|----------|-----------|---------------------|------------------------|--------------------------|------------------|----------|-------|-------|
| | 1:528 | position | code | observatio | on | | | MPEG | photo | grade |
| \ | | 226.10 | TFA | Tap Factor | ry Made Active, at 10 | o´clock, 6", within 8 ir | nch: NO | 00:14:08 | 262a | |
| | | 262.50 | TFA | Tap Factor ROOTS | ry Made Active, at 02 | o´clock, 6", within 8 ir | nch: NO, Remark: | 00:14:57 | 263a | |
| Ť | | 279.20 | CM | Crack Mult | tiple, from 11 to 04 o | clock, within 8 inch: Y | ES | 00:15:42 | 264a | S 3 |
| | | 286.80 | TFA | Tap Factor | y Made Active, at 10 | o'clock, 6", within 8 ir | nch: NO | 00:16:08 | 265a | |
| | | 314.10 | TFA | Tap Factor | y Made Active, at 02 | o´clock, 6", within 8 ir | nch: NO | 00:16:49 | 266a | |
| | 2130-0449 | 321.90 | | SLIGHT CI | IRCULAR CRACKS 1 | THROUGHOUT 15% | OF REACH | 00:17:42 | | |
| | | 321.90 | | SLIGHT LO | ONGITUDE CRACKS | THROUGHOUT 10% | 6 OF REACH | 00:18:13 | | |
| | \ | 321.90 | | END OF S | EGMENT | | | 00:18:26 | | |
| | | 321.90 | | MATERIAL | S FOUND-VCP | | | 00:18:43 | | |
| | | | | | | | | | | |
| | QSR | QMR | | SPR | MPR | OPR | SPRI | MPRI | | OPRI |

2.57

2.5



Inspection report

| | | - | - | | | |
|---------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|--|
| Date: 11/29/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 481 | PSR: 114077 | |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 | |

| I | Street: | BORA DR | Flow Control: | | Start MH: | 2130-0445 |
|---|---------------|------------------------------------|---------------|----|--------------|-----------|
| I | City: | LAM | Year Renewed | | End MH: | 2130-0446 |
| I | Location Code | ≘: B Main Highway - Suburban/Rural | Tape/Media #: | 28 | pipe length: | 156.02 ft |

Reason for inspection: F Dia/Height: C 8/8

Material: 8" VCP,122 FT. Pipe Length: Use of Sewer: SS

Lining Method:

Drain. Area: 2130 Category:

| | 1:400 | position | code | observatio | on | | | MPEG | photo | grade |
|----------|-----------|----------------------------|------------------|--|---------------------|-----------------------|-------------|----------------------------------|---------|-------|
| | | | | | | | | | | |
| | 2130-0445 | 0.00 | AMH | Upstream I | Manhole, Survey Be | egins | | 00:00:35 | | |
| | | 0.00 | MWL | Water Level, 0 % of cross sectional area | | | 00:00:37 | | M 2 | |
| | | 0.00 | MWM | Water Mark | k, 0 % of cross sec | tional area | | 00:00:50 | | M 2 |
| | | 6.10 | TFA | Tap Factor | y Made Active, at 0 | 2 o´clock, 6", within | 8 inch: NO | 00:01:07 | 470a | |
| \ | | 46.48 | TFA | Tap Factor | y Made Active, at 0 | 2 o´clock, 6", within | 8 inch: NO | 00:01:49 | 471a | |
| | | 74.14 | TFA | Tap Factor | y Made Active, at 1 | 0 o´clock, 6", within | 8 inch: NO | 00:02:24 | 472a | |
| • | | 108.01 | TFA | Tap Factor | y Made Active, at 0 | 2 o´clock, 6", within | 8 inch: NO | 00:03:04 | 473a | |
| | 2130-0446 | 148.90 156.02 156.02 | BVV EOS MF | Broken Voi End of Seg Materials F | yment | o 02 oʻclock, within | 8 inch: YES | 00:04:14 00:04:50 00:05:00 | 474a, b | S 5 |
| | QSR | QMR | | SPR | MPR | OPR | SPRI | MPRI | | OPRI |
| | 5100 | 2200 | + | 5 | 4 | 9 | 5 | 2 | | 3 |



Inspection report

| | | - | - | | |
|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Date: 11/22/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 625 | PSR: 114058 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| ı | Street: | ALICANTE RD | Flow Control: | | Start MH: | 2130-0452 |
|---|---------------|------------------------------------|---------------|----|--------------|-----------|
| ı | City: | LAM | Year Renewed | | End MH: | 2130-0424 |
| ı | Location Code | e: B Main Highway - Suburban/Rural | Tape/Media #: | 23 | pipe length: | 176.2 ft |

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,214 FT. Pipe Length: 214

2130 Lining Method: Category:

Drain. Area: **2130**

| 1:450 | position | code | observation | | | MPEG | photo | grade |
|-----------|---|------------------------------|--|---|---|--|---|------------|
| | 0.00 | АМН | Upstream Manhole, Survey B | eains | | 00:00:40 | | |
| 2130-0452 | 0.00 | MWL | Water Level, 5 % of cross se | | 07 o´clock | 00:00:52 | | M 2 |
| | 0.00 | MWM | Water Mark, 5 % of cross see | | | 00:01:03 | | M 2 |
| | 22.10 | TFA | Tap Factory Made Active, at | | | 00:01:53 | 228a | |
| | 63.10 70.70 75.70 79.80 87.80 | CM TFA CS TFA CM | Crack Multiple, from 02 to 04 Tap Factory Made Active, at 7 ROOTS Crack Spiral, from 09 to 02 of Tap Factory Made Active, at 0 CRACKED Crack Multiple, from 09 to 02 | 10 o'clock, 6", within 8 inclock, within 8 inch: YE 02 o'clock, 6", within 8 in | nch: NO, Remark: S nch: NO, Remark: | 00:03:11 00:03:38 00:04:13 00:04:53 00:06:14 | 229a 230a 231a 232a, b 233a | \$3 \$2 |
| | 93.50 | FM | Fracture Multiple, from 12 to | 12 o'clock, within 8 inch | : YES | 00:07:11 | 234a | S 4 |
| | 96.70 | FM | Fracture Multiple, from 03 to (| 09 o´clock, within 8 inch | : YES | 00:07:49 | 235a | S 4 |
| 2130-0424 | 176.20 176.20 | | END OF SEGMENT MATERIALS FOUND-VCP | | | 00:12:00 00:12:28 | | |
| | | | | | | | | |
| QSR | QMR | | SPR MPR | OPR | SPRI | MPRI | 1 (| OPRI |



Inspection report

| | | • | • | | |
|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Date: 11/23/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 440 | PSR: 114052 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| Street: | MANSA DR | Flow Control: | | Start MH: | 2130-0422 |
|---------------|------------------------------------|---------------|----|--------------|-----------|
| City: | LAM | Year Renewed | | End MH: | 2130-0421 |
| Location Code | e: B Main Highway - Suburban/Rural | Tape/Media #: | 24 | pipe length: | 301.46 ft |

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,268 FT. Pipe Length: 268

Drain. Area: 2130 Lining Method: Category:

| | 1:750 | position | code | observatio | on | | | MPEG | photo | grade |
|-------------|-----------|----------|------|-------------|-------------------------|-------------------------|---------------|----------|-------|-------|
| | | | | | | | | | | |
| | 2 30-0422 | 0.00 | AMH | Upstream I | Manhole, Survey Be | gins | | 00:00:34 | | |
| | | 0.00 | MWL | Water Leve | vel, 20 % of cross se | ctional area, from 04 | to 08 o'clock | 00:00:50 | | M 2 |
| | | 0.00 | MWM | Water Mar | rk, 25 % of cross se | ctional area, from 03 | to 09 o'clock | 00:01:04 | | M 2 |
| | | 41.70 | TFA | Tap Factor | ory Made Active, at 02 | 2 o'clock, 6", within 8 | inch: NO | 00:01:55 | 20a | |
| | | 50.14 | BSV | Broken So | oil Visible, from 09 to | 11 o'clock, within 8 in | nch: YES | 00:02:54 | 21a | S 5 |
| | | 50.14 | FM | Fracture M | Multiple, from 08 to 0 | 4 o'clock, within 8 inc | h: YES | 00:03:11 | 22a | S 4 |
| | | 51.56 | FL | Fracture Lo | ongitudinal, at 04 o | clock, within 8 inch: Y | ES | 00:04:14 | 23a | S 3 |
| (((| | 52.48 | CM | Crack Mult | tiple, from 11 to 04 c | clock, within 8 inch: | YES | 00:04:46 | 24a | S 3 |
| | | 72.41 | TFA | Tap Factor | ory Made Active, at 1 | o'clock, 6", within 8 | inch: NO | 00:05:21 | 25a | |
| | | 94.18 | TBA | Tap Break | c-In Active, at 02 o'cl | ock, 6", within 8 inch: | NO | 00:05:58 | 26a | |
| > | | 143.41 | TFC | Tap Factor | ry Made Capped, at | 02 o'clock, 6", within | 8 inch: NO | 00:07:09 | 27a | |
| | | 152.46 | TFA | Tap Factor | ry Made Active, at 1 | o´clock, 6", within 8 | inch: NO | 00:08:01 | 28a | |
| • | | 195.58 | TFA | Tap Factor | ory Made Active, at 0 | 2 o´clock, 6", within 8 | inch: NO | 00:09:22 | 29a | |
| | | 244.91 | TFA | Tap Factor | ory Made Active, at 02 | 2 o´clock, 6", within 8 | inch: NO | 00:10:34 | 30a | |
| | | 293.73 | TFA | Tap Factor | ory Made Active, at 02 | 2 o'clock, 6", within 8 | inch: NO | 00:11:51 | 31a | |
| | | 301.46 | SLTR | Slight Long | gitudinal Cracks Thr | oughout Reach 10% | | 00:12:21 | | |
| | 2420 0424 | 301.46 | EOS | End of Seg | gment | | | 00:12:27 | | |
| | 2130-0421 | 301.46 | MF | Materials F | Found-VCP | | | 00:12:39 | | |
| | QSR | QMR | _ | SPR | MPR | OPR | SPRI | MPRI | | OPRI |
| | 5141 | 2200 | | 15 | MPR 4 | 19 | 3.75 | MPRI 2 | | 3.17 |



MACKONE DEVELOPMENT, INC. 2244 BEVERLY BOULEVARD LOS ANGELES, CA 90057

Tel: (213) 252-9506, Fax: (213) 252-9527

Inspection report

| | | - | - | | |
|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|---------------------|
| Date: 12/30/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 268 | PSR: 113953 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| Street: | IMPERIAL HWY | Flow Control: | | Start MH: | 2130-0572 |
|---------------------------------------|--------------|---------------|----|--------------|-----------|
| City: | LAM | Year Renewed | | End MH: | 2130-TRNK |
| Location Code: A Main Highway - Urban | | Tape/Media #: | 61 | pipe length: | 46.58 ft |

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,68 FT. Pipe Length: 68

Drain. Area: 2130 Lining Method: Category:

Category: Remark:: 1:125 position code observation **MPEG** photo grade 00:00:21 0.00 AMH Upstream Manhole, Survey Begins 2130-0572 0.00 00:00:33 M 2 **MWL** Water Level, 5 % of cross sectional area, from 05 to 07 o'clock 0.00 MWM Water Mark, 15 % of cross sectional area, from 05 to 07 o'clock 00:00:43 M 2 Broken, from 08 to 10 o'clock, within 8 inch: YES 00:01:53 DAGS Deposits Attached Grease, 5 % of cross sectional area, from 10 to 02 o'clock, within 8 inch: YES 30.92 00:02:09 458a M 2 46.58 EOS End of Segment 00:02:37 2130-TRNK 46.58 Materials Found-VCP 00:02:45 OPRI QSR QMR SPR MPR OPR SPRI MPRI 4100 2300 10 2.5



Inspection report

| Date: 12/30/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 267 | PSR: 113952 |
|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| Street: | BIOLA AV | Flow Control: | Start MH: | 2130-0573 |
|---------------|---------------------------|------------------|--------------|-----------|
| City: | LAM | Year Renewed | End MH: | 2130-0572 |
| Location Code | e: A Main Highway - Urban | Tape/Media #: 61 | pipe length: | 176.87 ft |

Reason for inspection: F Dia/Height: C 8/8

Material: 8" VCP,139 FT. Pipe Length: SS Use of Sewer:

Lining Method:

Drain. Area: 2130 Category:

| 1:450 | position | code | observatio | n | | | MPEG | photo | grade |
|-----------|--------------|------|-------------|------------------------------|--------------------------|------------------|----------|-------|-------|
| 2130-0573 | 0.00 | АМН | Upstream N | <i>Ո</i> anhole, Survey Begi | ins | | 00:00:38 | | |
| | 0.00 | MWL | Water Leve | el, 5 % of cross section | onal area, from 05 to | 07 o'clock | 00:00:50 | | M 2 |
| | 0.00 | MWM | Water Mark | x, 15 % of cross sect | ional area, from 05 to | 0 07 o'clock | 00:00:59 | | M 2 |
| | <u>68.55</u> | RMJ | Roots Med | um Joint, from 09 to | 04 o'clock, 5 %, with | nin 8 inch: YES | 00:02:06 | 445a | |
| | 119.50 | RMJ | Roots Med | um Joint, from 01 to | 04 o´clock, 5 %, with | nin 8 inch: YES | 00:03:01 | 446a | |
| | 128.25 | BSV | Broken Soi | l Visible, at 02 o´clocl | k, within 8 inch: NO | | 00:03:56 | 447a | S 5 |
| | 128.25 | RMJ | Roots Medi | um Joint, at 02 o´cloo | ck, 10 %, within 8 inc | ch: NO | 00:04:09 | 448a | |
| | 130.08 | TBA | Tap Break- | In Active, at 02 o´cloo | ck, 6", within 8 inch: N | NO | 00:04:40 | 449a | |
| | 130.08 | RMJ | Roots Med | um Joint, from 08 to | 04 o´clock, 10 %, wi | thin 8 inch: YES | 00:05:01 | 450a | |
| | 176.87 | FRTR | Fine Roots | Throughout Reach 2 | 20% | | 00:05:49 | | |
| 2130-0572 | 176.87 | EOS | End of Seg | ment | | | 00:05:54 | | |
| | 176.87 | MF | Materials F | ound-VCP | | | 00:06:08 | | |
| | | | | | | | | | |
| QSR | QMR | | SPR | MPR | OPR | SPRI | MPRI | | OPRI |
| 5100 | 2200 | | 5 | 4 | 9 | 5 | 2 | | 3 |



Inspection report

| | | • | • | | |
|----------------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Date: 12/22/2005 | P.O.#: Y0TV0506A | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 196 | PSR: 113861 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

 Street:
 GAGELY DR
 Flow Control:
 Start MH:
 2130-0604

 City:
 LAM
 Year Renewed
 End MH:
 2130-0603

 Location Code: B Main Highway - Suburban/Rural
 Tape/Media #:
 53
 pipe length:
 242.87 ft

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,129 FT. Pipe Length: 129

Lining Method:

Drain. Area: 2130 Category:

| | 1:600 | position | code | observatio | n | | | MPEG | photo | grade |
|-----------|-------------------------|----------|------|--|-------------------------|-------------------------|---------------------|----------|-------|-------|
| | | | | | | | | | | |
| | 2130-0604 | 0.00 | АМН | Upstream N | Manhole, Survey Beg | ins | | 00:00:25 | | |
| | | 0.00 | MWL | Water Leve | el, 15 % of cross sec | tional area, from 04 t | o 08 o'clock | 00:00:37 | | M 2 |
| | | 0.00 | MWM | Water Mark | k, 15 % of cross sec | tional area, from 04 t | o 08 o´clock | 00:00:46 | | M 2 |
| | | 13.43 | CM | Crack Multi | ple, from 04 to 09 o | clock, within 8 inch: \ | 'ES | 00:01:41 | 501a | S 3 |
| | 14.04 | | FL | Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | | | | 00:02:10 | 502a | S 3 |
| | | 14.04 | FL | Fracture Lo | ongitudinal, at 09 o´cl | ock, within 8 inch: YE | ES | 00:02:27 | 503a | S 3 |
| | | 14.04 | СМ | Crack Multi | ple, from 09 to 04 o' | clock, within 8 inch: \ | 'ES | 00:02:45 | 504a | S 3 |
| ııı | | 15.05 | TFD | Tap Factor | y Made Defective, at | 10 o'clock, 6", within | 8 inch: NO, Remark: | 00:03:08 | 505a | M 2 |
| | 16.17 | 16.17 | CL | Crack Longitudinal, at 08 o'clock, within 8 inch: YES | | | | 00:03:32 | 506a | S 2 |
| (| 16.17 38.44 49.53 | | CL | Crack Longitudinal, at 04 o'clock, within 8 inch: YES | | 00:03:44 | 507a | S 2 | | |
| \$ | | | TFA | Tap Factor | y Made Active, at 02 | o'clock, 6", within 8 i | nch: NO | 00:04:25 | 508a | |
| Ť | | | FM | Fracture Multiple, from 07 to 02 o'clock, within 8 inch: YES | | 00:04:39 | 509a | S 4 | | |
| 1 | | 50.55 | В | Broken, from 11 to 01 o'clock, within 8 inch: YES | | | | 00:05:48 | 510a | S 4 |
| | | 52.99 | CM | Crack Multiple, from 12 to 04 o'clock, within 8 inch: YES | | | 00:07:00 | 511a | S 3 | |
| | | 89.40 | TFA | Tap Factor | y Made Active, at 10 | o'clock, 6", within 8 i | nch: NO | 00:08:03 | 512a | |
| | | 100.79 | CM | Crack Multi | ple, from 08 to 04 o | clock, within 8 inch: \ | 'ES | 00:09:03 | 513a | S 3 |
| | | 102.11 | TFA | Tap Factor | y Made Active, at 02 | o'clock, 6", within 8 i | nch: NO | 00:09:21 | 514a | |
| | | 152.86 | TFA | Tap Factor | y Made Active, at 10 | o'clock, 6", within 8 i | nch: NO | 00:10:48 | 515a | |
| | | 158.76 | TFA | Tap Factor | y Made Active, at 02 | o'clock, 6", within 8 i | nch: NO | 00:11:16 | 516a | |
| | | 216.53 | TFA | Tap Factor | y Made Active, at 02 | o'clock, 6", within 8 i | nch: NO | 00:13:00 | 517a | |
| | | 242.87 | EOS | End of Seg | ment | | | 00:13:53 | | |
| | 2130-0603 | 242.87 | MF | Materials F | ound-VCP | | | 00:14:03 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | QSR | QMR | | SPR | MPR | OPR | SPRI | MPRI | | OPRI |
| | 4236 | 2300 | | 30 | 6 | 36 | 3 | 2 | | 2.77 |



MACKONE DEVELOPMENT, INC. 2244 BEVERLY BOULEVARD LOS ANGELES, CA 90057

Tel: (213) 252-9506, Fax: (213) 252-9527

Inspection report

| | | - | - | | |
|--------------------------------------|-------------------------------|----------------------|--------------------------|-------------------------------|----------------------------|
| Date: P.O.#: 11/30/2005 Y0TV0506A | | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 452 | PSR: 113838 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| Street: | BORA DR | Flow Control: | | Start MH: | 2130-0709 |
|---------------|------------------------------------|---------------|----|--------------|-----------|
| City: | LAM | Year Renewed | | End MH: | 2130-0706 |
| Location Code | e: B Main Highway - Suburban/Rural | Tape/Media #: | 29 | pipe length: | 289.35 ft |

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,291 FT. Pipe Length: 291

Drain. Area: 2130 Lining Method: Category:

| | 4.705 | | | -1 | | | MDEO | | |
|----------|-----------|-------------------------------|-------------------|---|---|----------|----------------------------------|----------------------|------------|
| | 1:725 | position | code | observation | | | MPEG | photo | grade |
| | 2130-0709 | 0.00 0.00 0.00 52.68 | AMH MWL MWM | Upstream Manhole, Survey Begins Water Level, 10 % of cross sectional a Water Mark, 10 % of cross sectional a Tap Factory Made Active, at 02 o'clock | 00:00:34 00:00:52 00:01:01 00:02:02 | 495a | M 2 M 2 | | |
| | | 101.91 117.57 | TFA TFA | Tap Factory Made Active, at 10 o'clock | | | 00:03:04 00:03:32 | 496a 497a | |
| Ť | | 179.00 | TFA | Tap Factory Made Active, at 02 o'clock | Tap Factory Made Active, at 02 o´clock, 6", within 8 inch: NO | | | | |
| | | 241.04 273.49 273.49 | TFA BSV FL | Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: NO Broken Soil Visible, at 04 o'clock, within 8 inch: YES Fracture Longitudinal, at 04 o'clock, within 8 inch: YES | | | 00:05:32 00:06:42 00:06:58 | 499a 500a 501a | S 5 S 3 |
| | | 273.79 | СМ | Crack Multiple, from 08 to 11 o'clock, v | ES | 00:07:30 | 502a | S 3 | |
| | 2130-0706 | 289.35 | EOS | End of Segment | | 00:08:03 | | | |
| | | 289.35 | MF | Materials Found-VCP | | | 00:08:15 | | |
| | QSR | QMR | | SPR MPR | OPR | SPRI | MPRI | | OPRI |
| \vdash | 5132 | 2200 | + | 11 4 | 15 | 3.67 | 2 | | 3 |



Inspection report

| Date: 05/04/2006 | P.O.#: | Weather: 1 Dry | Surveyed By: J.ALEJOS | section number: 689 | PSR: |
|---------------------|------------------|-------------------|--------------------------|---------------------------|----------------------------|
| Total Pipe Length: | Survey Customer: | System Owner: | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 1537 |

 Street:
 0
 Flow Control:
 Start MH:
 2130-0681

 City:
 LA MIRADA
 Year Renewed
 End MH:
 2130-0677

 Location Code: D Easement/Right of Way
 Tape/Media #:
 1A
 pipe length:
 194.26 ft

Reason for inspection: Dia/Height: C 15/15

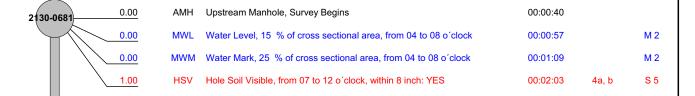
Use of Sewer: SS Sanitary Material: 15" VCP Pipe Length:

Drain. Area:

Lining Method:
Category:

Remark::

1:475 position code observation MPEG photo grade



194.26 MF Materials Found-VCP 00:07:20
2130-0677 194.26 EOS End of Segment 00:07:35

| QSR | QMR | SPR | MPR | OPR | SPRI | MPRI | OPRI |
|------|------|-----|-----|-----|------|------|------|
| 5100 | 2200 | 5 | 4 | 9 | 5 | 2 | 3 |



Inspection report

| | | - | - | | |
|--------------------------------------|-------------------------------|----------------------|--------------------------|---------------------------|----------------------------|
| Date: P.O.#: 10/31/2005 Y0TV0506A | | Weather: 1 Drv | Surveyed By: J.ALEJOS | section number: 526 | PSR: 114261 |
| 10/01/2000 | 10110000A | , Diy | U.ALLUUU | 320 | 114201 |
| Total Pipe Length: | Survey Customer: 26-007.00 | System Owner: LAM | Clean Date: | Pre-Cleaned: J Jetting | Map Grid #: 2130 |

| ı | Street: | BURGESS AV | Flow Control: | | Start MH: | 2130-0269 |
|---|---------|------------|---------------|----|--------------|-----------|
| ı | City: | LAM | Year Renewed | | End MH: | 2130-0270 |
| City: LAM Location Code: B Main Highway - Suburban/Rui | | | Tape/Media #: | 12 | pipe length: | 245.52 ft |

Reason for inspection: F Dia/Height: C 8/8

Use of Sewer: SS Material: 8" VCP,354 FT. Pipe Length: 354

Lining Method:

Drain. Area: 2130 Category:

| | 1:600 | position | code | observatio | on . | | | MPEG | photo | grade |
|-----------|---|----------|------|---|--------------------------|--------------------------|------------------|----------|-------|-------|
| | | | | | | | | | | |
| | 2130-0269 | 0.00 | АМН | Upstream N | Manhole, Survey Begi | ins | | 00:00:42 | | |
| | | 0.00 | MWL | Water Leve | el, 5 % of cross section | onal area, at 07 o´clo | ck | 00:00:56 | | M 2 |
| | | 0.00 | MWM | Water Mark | k, 10 of cross sectiona | al area, from 05 to 07 | 7 o´clock | 00:01:09 | | M 2 |
| | | 32.44 | HSV | Hole Soil V | isible, from 03 to 04 c | clock, within 8 inch: | YES | 00:02:12 | 221a | S 5 |
| | | 32.44 | CM | Crack Multi | iple, from 04 to 08 o'c | clock, within 8 inch: Y | ËS | 00:02:42 | 222a | S 3 |
| | | 43.63 | TFA | Tap Factor | y Made Active, at 02 o | o´clock, 6", within 8 in | nch: NO | 00:03:05 | 223a | |
| \$ | | | | | | | | | | |
| | | 100.69 | RFJ | Roots Fine | Joint, from 10 to 02 of | clock, within 8 inch: | YES | 00:04:11 | 224a | |
| | | 101.91 | TFA | Tap Factor | y Made Active, at 10 o | o´clock, 6", within 8 in | nch: YES | 00:04:28 | 225a | |
| 4 | | 106.89 | RTJ | Roots Tap | Joint, from 01 to 02 o | 'clock, 10 %, within | 8 inch: YES | 00:05:06 | 226a | |
| | | 107.91 | TFA | Tap Factor | y Made Active, at 02 o | o´clock, 6", within 8 in | nch: NO, Remark: | 00:05:26 | 227a | |
| | | 179.00 | СМ | Crack Multi | iple, from 01 to 03 o´c | clock, within 8 inch: Y | 'ES | 00:06:52 | 228a | S 3 |
| | | 179.92 | TFA | Tap Factor | y Made Active, at 02 o | o'clock, 6", within 8 in | nch: NO | 00:07:10 | 229a | |
| | | 182.46 | TFA | Tap Factor | y Made Active, at 10 | o'clock, 6", within 8 in | nch: NO | 00:07:33 | 230a | |
| | | 240.84 | TFA | Tap Factor | y Made Active, at 02 o | o'clock, 6", within 8 in | nch: NO | 00:08:42 | 231a | |
| | | 242.16 | RTJ | Roots Tap | Joint, from 10 to 03 o | ´clock, 50 %, within | 8 inch: YES | 00:09:22 | 232a | |
| | | 243.28 | TFA | Tap Factory Made Active, at 10 o´clock, 6", within 8 inch: NO | | | | 00:11:23 | 233a | |
| | 2 30-0270 245.52 INC Inspection incomplete due to TAP ROOTS | | | | | | 00:15:10 | 234a | | |
| | | | | | | | | | | |
| | QSR | QMR | | SPR | MPR | OPR | SPRI | MPRI | | OPRI |
| | 5132 | 2200 | | 11 | 4 | 15 | 3.67 | 2 | | 3 |