



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

GAIL FARBER, Director

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

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

April 18, 2013

Mr. Bruno Callu, City Engineer
City of Cudahy
5220 Santa Ana Street
Cudahy, California 90201-6097

Attention Mr. Larry Galvan

Dear Mr. Callu:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0910B

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 74,557 feet or 100 percent of the City of Cudahy's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP) 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)
- High Water Levels and Infiltration List and 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)

Mr. Bruno Callu
May 2, 2013
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should 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, where appropriate, incorporated into our enhanced maintenance 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 our ongoing Accumulative Capital Outlay Program.

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 rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division



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Enc.

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

PROJECT NAME:	Y0TV0910B	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	05/05/2010	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	1	MAP PAGE(S):	1863,1864
Report By:	Hanna Kebede	Report Date:	04/03/2013

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 74,557 feet or approximately 100 percent of the City of Cudahy's (City) sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project Y0TV0910B included sewer lines located in the Cities of South El Monte, Cudahy, Pico Rivera, and Santa Fe Springs and unincorporated areas in the County of Los Angeles. Enclosed for your reference is an overview map of the project area in your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

Grade	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

MAINTENANCE REPORT

Our inspection revealed that approximately 95.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 4.8 percent of the inspected pipe segments within the City of Cudahy had a PACP maintenance grade of 3, 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).

In addition, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	285	0.4	1
2: Minor to Moderate	70,714	94.8	263
3: Moderate	1,656	2.2	6
4: Significant	1,836	2.5	6
5: Most Significant	66	0.1	1
TOTAL	74,557	100.0	277

Lateral Notices

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. A letter will be sent to the property owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that approximately 1 percent of the system televised has adequate capacity. However, the remaining 99 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which have indicated camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50% or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore,

additional review of all pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50% capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

Infiltration

Our inspection revealed that approximately 0.6 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration has been found are listed on the Infiltration table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project.

A map showing the sewer lines with high water levels and infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 88.4 percent of the inspected pipe segments within the City of Cudahy were free of severe structural defects. However, the remaining 11.6 percent of the inspected pipe segments had a PACP structural grade of 4 and 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 34 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 34 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

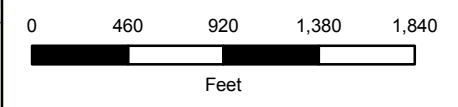
DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	29,931	40.1	113
2: Minor to Moderate	1,450	1.9	6
3: Moderate	34,537	46.4	124
4: Significant	4,429	5.9	17
5: Most Significant	4,210	5.7	17
TOTAL	74,557	100.0	277

ENCLOSURE 1:

Project Overview Map

OVERVIEW CCTV PROJECT Y0TV0910B

City of Cudahy



Legend

— SMD Sewer

SMD Manholes

- ⊙ Other
- Manhole Type**
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- Ⓟ Pump Stations

Maintained by Others

Trunk Lines:

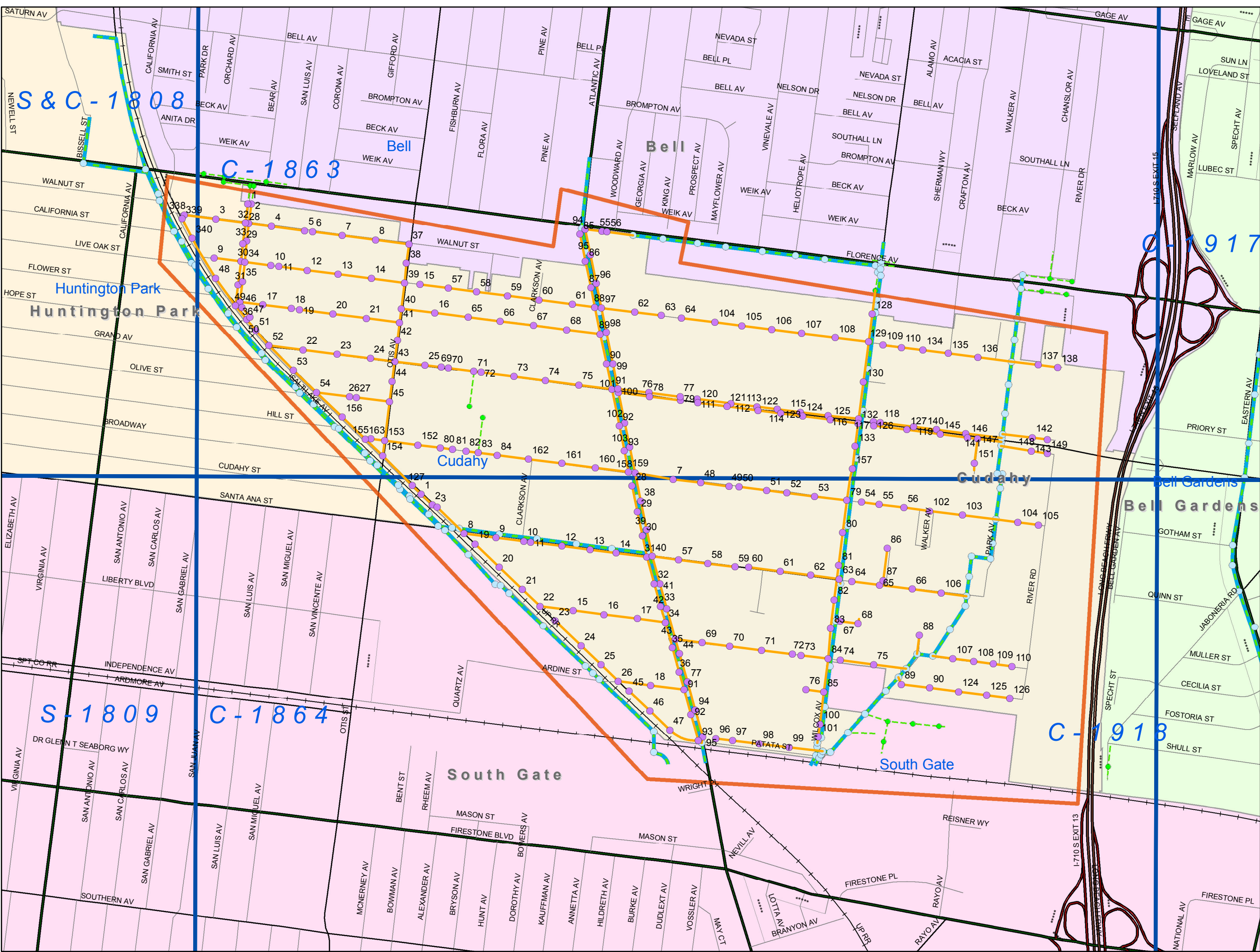
- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- - - Non SMD Sewer
- Non SMD Manholes
- ▭ Y0TV0910B
- ▭ SMD Operations Maps

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April 2013



ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map
- High Water Levels
- Infiltration
- High Water Levels and Infiltration Map
- Sample Lateral Notice Letter

ENCLOSURE 2
QUICK MAINTENANCE RATING REPORT PRIORITY LIST
CITY OF CUDAHY (Y0TV0910B)
as of 05/05/2010

NO.	QMR	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION TAKEN	COMPLETED DATE
1	5100	1864-0101	1864-TRNK	WILCOX AV	High water level; grease; roaches	Rodded	12/22/2011
2	4121	1863-0017	1863-0036	FLOWER ST	Infiltration	No action needed.	N/A
3	4121	1863-0027	1863-0045	OLIVE ST	Camera underwater	Rodded	11/15/2011
4	4121	1863-0128	1863-0129	WILCOX AV	High water mark	Rodded	11/15/2011
5	4122	1863-0130	1863-0131	WILCOX AV	High water level; roots at lateral	Rodded	12/22/2011
6	4131	1863-0137	1863-0138	LIVE OAK ST	High water level	Rodded	11/15/2011
7	3121	1864-0001	1864-0002	SALT LAKE AV	High water level	Rodded	11/15/2011
8	3121	1864-0009	1864-0010	SANTA ANA ST	Roots	Rodded	11/15/2011
9	3121	1864-0013	1864-0014	SANTA ANA ST	Roots; roots at lateral	Rodded	11/15/2011
10	3121	1864-0073	1864-0084	CECELIA ST	Debris; roaches	Rodded	12/28/2011
11	4122	1864-0081	1864-0082	WILCOX AV	High water level	Hydrojet	02/02/2012
12	3122	1864-0082	1864-0083	WILCOX AV	High water level	Rodded	12/22/2011
13	3223	1864-0083	1864-0084	WILCOX AV	High water level; roots	Rodded	12/22/2011

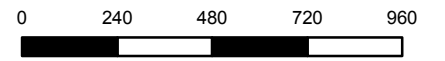
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

City of Cudahy

QUICK MAINTENANCE RATING (QMR)



Legend

- SMD Sanitary Sewers QMR**
- 1: MINOR
 - 2: MINOR TO MODRATE
 - 3: MODRATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- Pump Stations

Maintained by Others

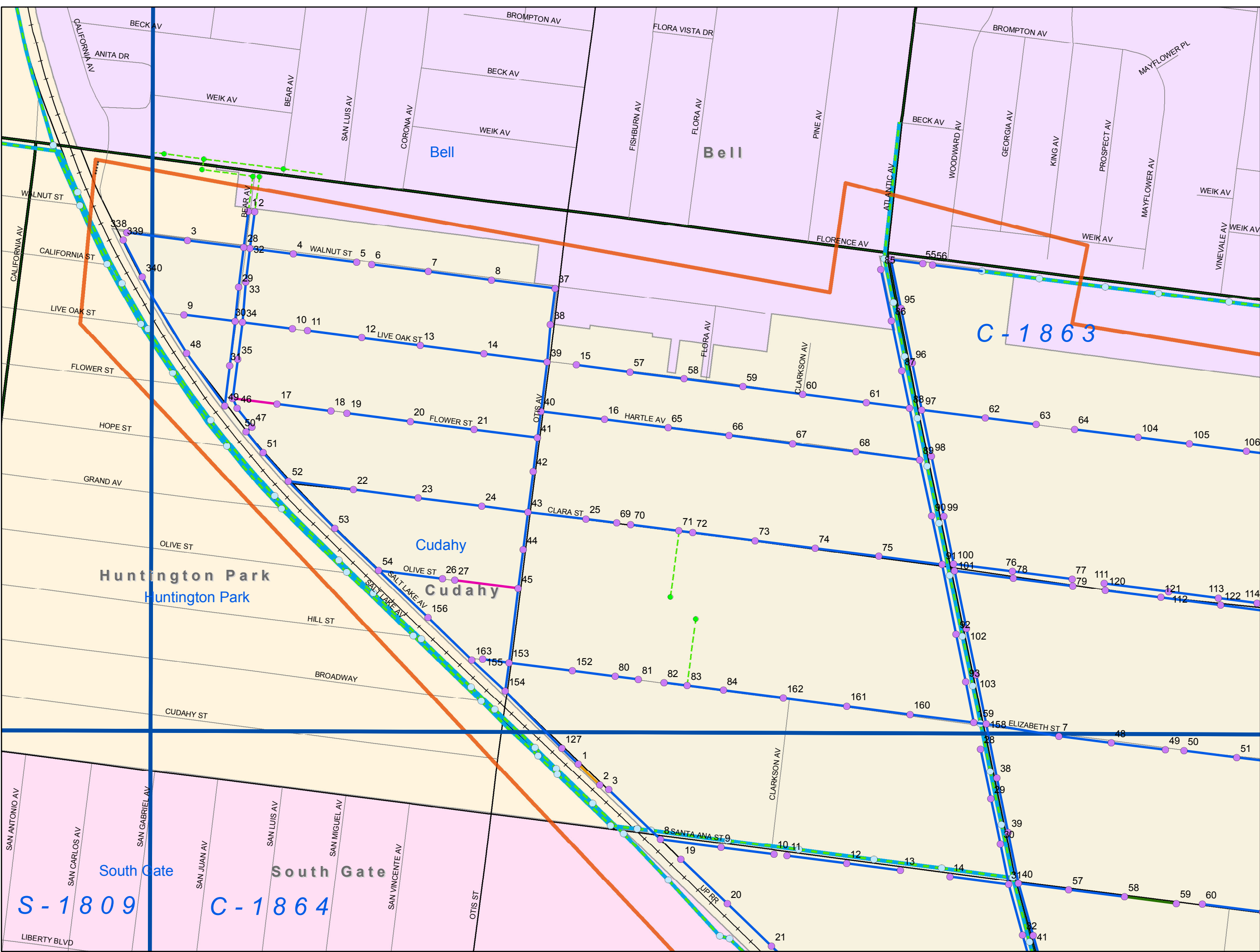
- Trunk Lines:**
- Trunk Main Lines
 - Trunk Force Mains
 - Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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April 2013



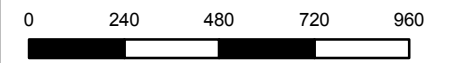
ENCLOSURE 2

CCTV PROJECT

Y0TV0910B

City of Cudahy

QUICK MAINTENANCE RATING (QMR)



Legend

- SMD Sanitary Sewers**
QMR
- 1: MINOR
 - 2: MINOR TO MODRATE
 - 3: MODRATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

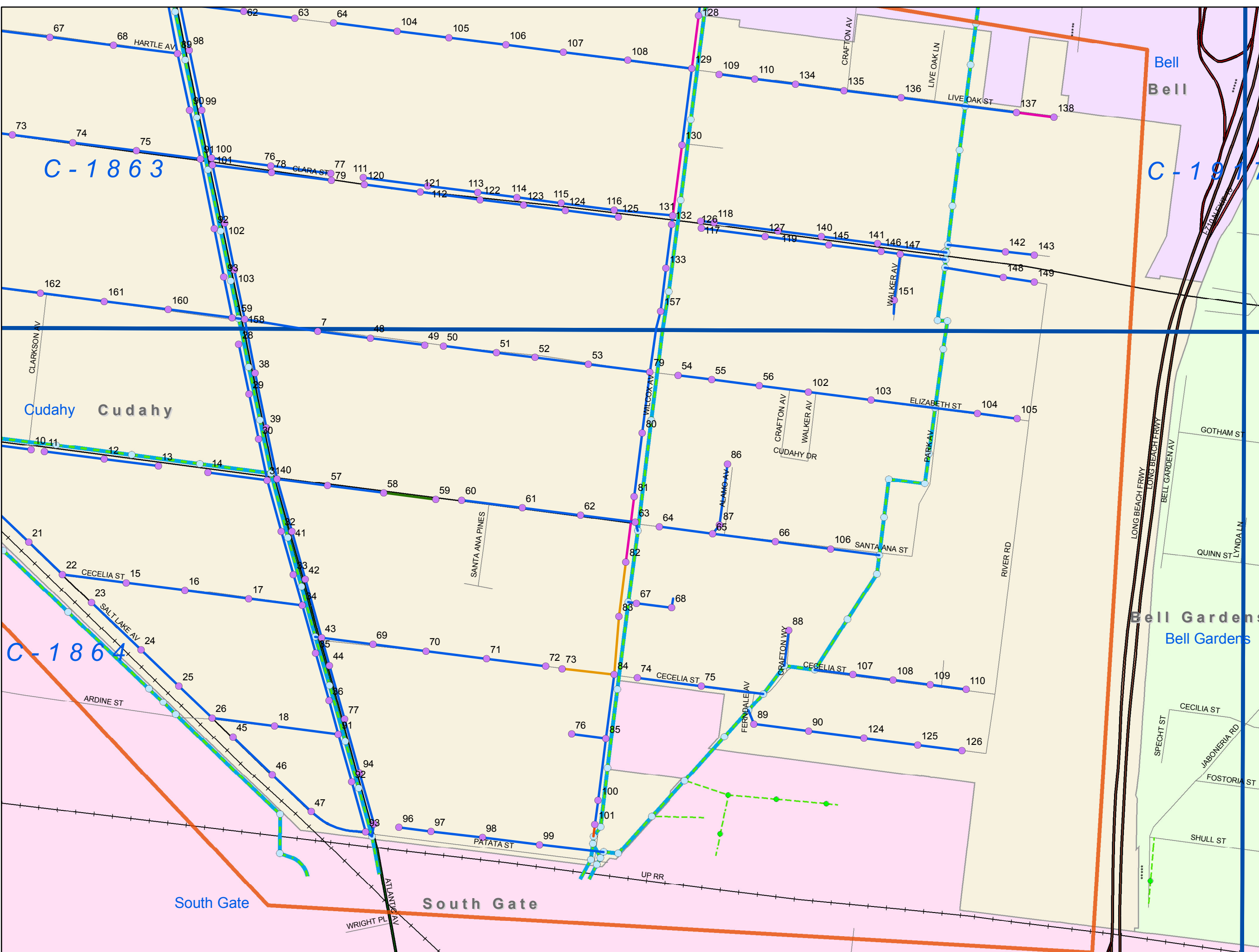
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- Pump Stations

Maintained by Others

- Trunk Lines:**
- Trunk Main Lines
 - Trunk Force Mains
 - Trunk Manholes
- Non SMD Sewer**
- Non SMD Sewer
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ENCLOSURE 2
HIGH WATER LEVELS
CITY OF CUDAHY (Y0TV0910B)
as of 05/05/2010

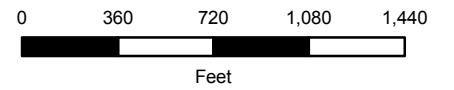
ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (FT)
1	4121	1863-0027	1863-0045	OLIVE ST	Camera underwater (100%)	50
2	4121	1863-0128	1863-0129	WILCOX AV	Water mark (65%)	258
3	4131	1863-0137	1863-0138	LIVE OAK ST	High water level (50%)	25
4	3121	1864-0001	1864-0002	SALT LAKE AV	High water level (50%)	70
5	4122	1864-0081	1864-0082	WILCOX AV	Camera underwater (100%)	227
6	3122	1864-0082	1864-0083	WILCOX AV	High water level (50%)	61
7	3223	1864-0083	1864-0084	WILCOX AV	High water level (50%)	68
8	5100	1864-0101	1864-TRNK	WILCOX AV	High water level (50%); water mark (75%)	8

ENCLOSURE 2
INFILTRATION
CITY OF CUDAHY (YOTV0910B)
as of 05/05/2010

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	Proposed Corrective Method
1	4121	1863-0017	1863-0036	FLOWER ST	Infiltration (runner): 117'	Infiltration is minimal. No action needed.
2	4131	1863-0137	1863-0138	LIVE OAK ST	Infiltration (runner): 13'	Infiltration is minimal. No action needed.

ENCLOSURE 2 CCTV PROJECT Y0TV0910B

City of Cudahy
**HIGH WATER LEVEL
AND
INFILTRATION**



Legend

- High Water Level
- Infiltration

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- Pump Stations

Maintained by Others

- Trunk Main Lines
- Trunk Force Mains
- Trunk Manholes

Non SMD Sewer

- Non SMD Sewer
- Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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April 2013





GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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

{date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Dear:

SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at XXXX to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, XXXX, Sewer Maintenance Division, at XXXX.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

RAJESH PATEL
Assistant Deputy Director
Sewer Maintenance Division

XX:

Enc.

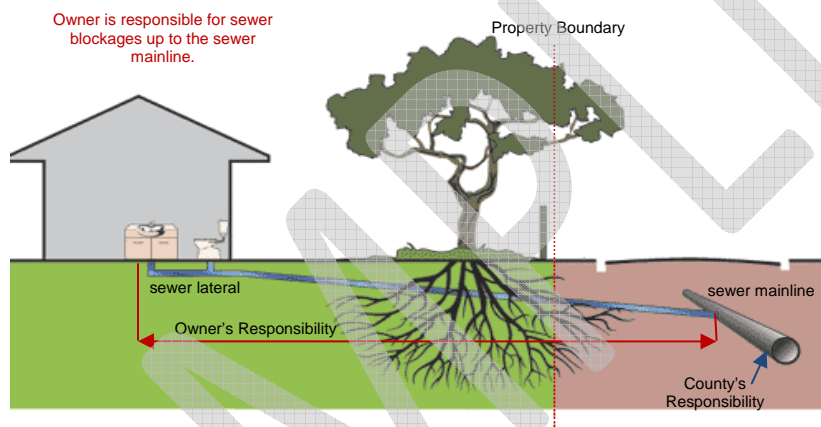
XXXX
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

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

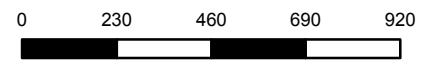
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF CUDAHY (YOTV0910B)
as of 05/05/2010

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE ACTION	REPAIR (FT)
1	5342	1863-0116	1863-0131	CLARA ST	Broken/hole: 286, 295; cracks	Point Repairs: 286, 295	
2	5242	1864-0025	1864-0026	SALT LAKE AV	Hole: 29, 231; fractures: 78, 228	Lining: MH to MH	275
3	5232	1864-0021	1864-0022	SALT LAKE AV	Hole: 42, 46; cracks	Point Repair (sleeve): 42'	
4	5200	1864-0045	1864-0046	SALT LAKE AV	Hole: 3, 259	Structural integrity intact. No action needed.	
5	5142	1863-0142	1863-0143	CLARA ST	Broken/fractures : 156-162; cracks	Lining: MH to MH	275
6	5141	1863-0076	1863-0077	CLARA ST	Hole: 129; fractures/cracks: multiple locations	Lining: MH to MH	339
7	5141	1864-0095	1864-TRNK	ATLANTIC AV	Hole (repair patch): 18 -21	Lining: MH to MH	27
8	513D	1863-0093	1863-0159	ATLANTIC AV	Hole: 223; cracks	Lining: MH to MH	294
9	513B	1864-0034	1864-0035	ATLANTIC AV	Hole: 7	Structural integrity intact. No action needed.	
10	5138	1864-0046	1864-0047	SALT LAKE AV	Hole: 7; cracks	Structural integrity intact. No action needed.	
11	5137	1864-0018	1864-0026	ARDINE ST	Hole: 216; cracks	Structural integrity intact. No action needed.	
12	5133	1863-0096	1863-0097	ATLANTIC AV	Hole: 121	Structural integrity intact. No action needed.	
13	5133	1863-0114	1863-0115	CLARA ST	Hole: 25	Point Repair (sleeve): 25	
14	5132	1863-0025	1863-0069	CLARA ST	Hole: 10	Structural integrity intact. No action needed.	
15	5112	1864-0057	1864-0058	SANTA ANA ST	Hole: 109	Structural integrity intact. No action needed.	
16	5100	1863-0033	1863-0034	BEAR ST	Hole: 33	Structural integrity intact. No action needed.	
17	5100	1863-0087	1863-0088	ATLANTIC AV	Hole: 48	Structural integrity intact. No action needed.	
18	433C	1863-0051	1863-0052	SALT LAKE AV	Fractures & cracks (multiple locations)	Lining: MH to MH	315
19	433A	1863-0148	1863-TRNK	CLARA ST	Fractures & cracks (multiple locations)	Lining: MH to MH	269
20	4339	1863-0053	1863-0054	SALT LAKE AV	Fractures & cracks (multiple locations)	Lining: MH to MH	350
21	4239	1863-0052	1863-0053	SALT LAKE AV	Fractures & cracks (multiple locations)	Lining: MH to MH	335
22	4200	1864-0019	1864-0020	SALT LAKE AV	Broken: 180; fractures: 253	Structural integrity intact. No action needed.	
23	4136	1863-0034	1863-0035	BEAR ST	Hole: 7; fractures	Structural integrity intact. No action needed.	
24	4134	1864-0023	1864-0024	SALT LAKE AV	Broken : 208; fractures	Structural integrity intact. No action needed.	
25	4134	1863-0148	1863-0149	CLARA ST	Fractures: 259; cracks	Structural integrity intact. No action needed.	
26	4133	1864-0008	1864-0009	SANTA ANA ST	Fractures: 210; cracks	Structural integrity intact. No action needed.	
27	4132	1863-0155	1863-0153	ELIZABETH ST	Fractures: 1; cracks	Structural integrity intact. No action needed.	
28	4131	1863-0029	1863-0030	BEAR ST	Broken: 201	Structural integrity intact. No action needed.	
29	4131	1863-0040	1863-0041	OTIS AV	Fractures: 76	Structural integrity intact. No action needed.	
30	4111	1864-0066	1864-0106	SANTA ANA ST	Fractures: 185; cracks	Structural integrity intact. No action needed.	
31	4111	1863-0104	1863-0105	LIVE OAK ST	Fractures: 327	Structural integrity intact. No action needed.	
32	4100	1864-0103	1864-TRNK	ELIZABETH ST	Broken/fractures: 264	Structural integrity intact. No action needed.	
33	4100	1863-0047	1863-0050	SALT LAKE AV	Fractures: 1	Structural integrity intact. No action needed.	
34	4100	1863-0105	1863-0106	LIVE OAK ST	Fractures: 13	Structural integrity intact. No action needed.	

ENCLOSURE 3 CCTV PROJECT Y0TV0910B

City of Cudahy

QUICK STRUCTURAL RATING (QSR)



Legend

- SMD Sanitary Sewers**
QSR
- 1: MINOR
 - 2: MINOR TO MODRATE
 - 3: MODRATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

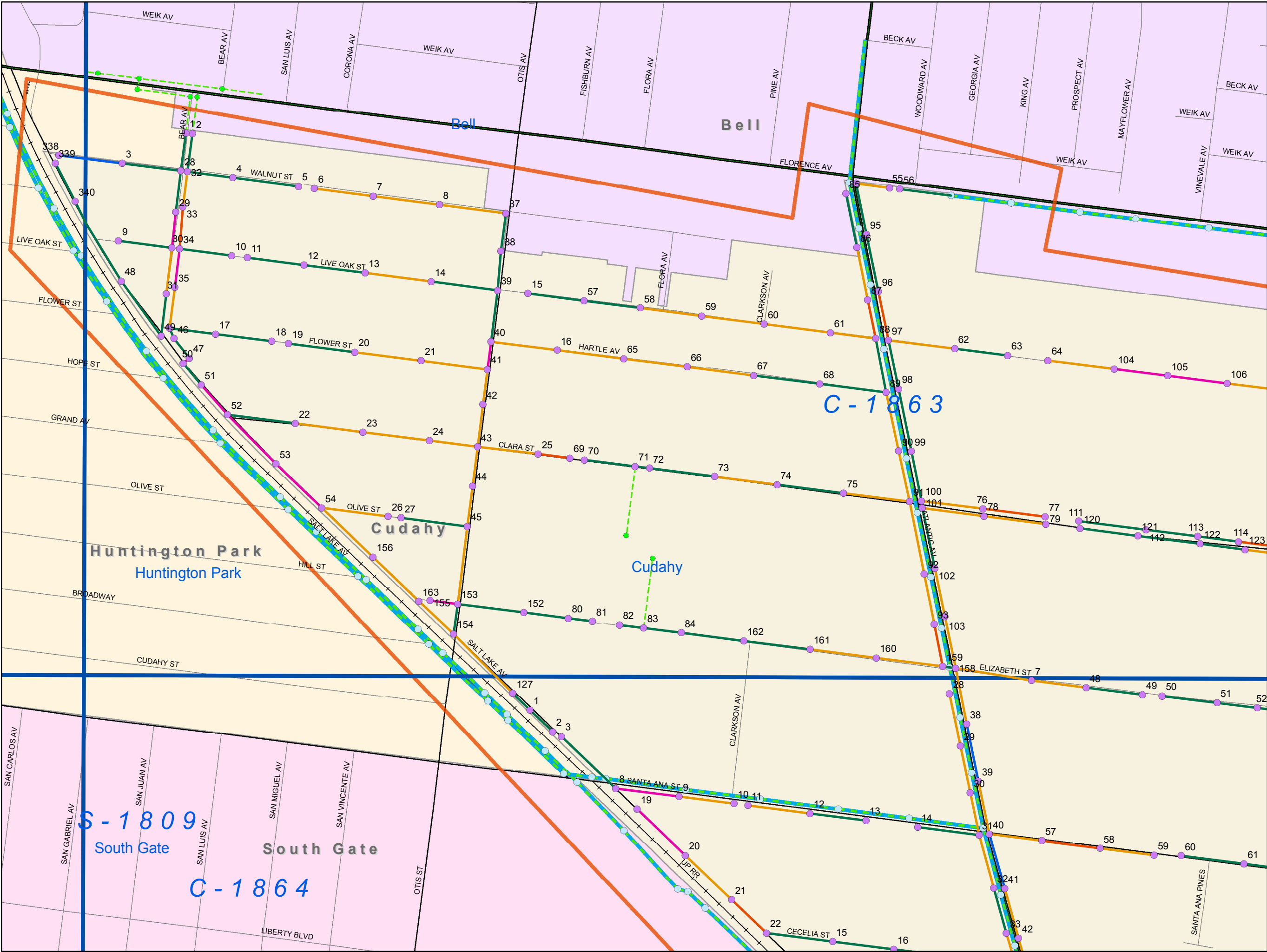
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- Pump Stations

Maintained by Others

- Trunk Lines:**
- Trunk Main Lines
 - Trunk Force Mains
 - Trunk Manholes
- Non SMD Sewer**
- Non SMD Sewer
 - Non SMD Manholes
- Y0TV0910B
SMD Operations Maps

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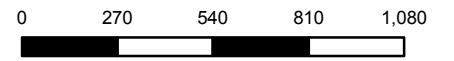
April 2013



ENCLOSURE 3 CCTV PROJECT Y0TV0910B

City of Cudahy

QUICK STRUCTURAL RATING (QSR)



Legend Feet

SMD Sanitary Sewers

- QSR**
- 1: MINOR
 - 2: MINOR TO MODRATE
 - 3: MODRATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT

SMD Manholes

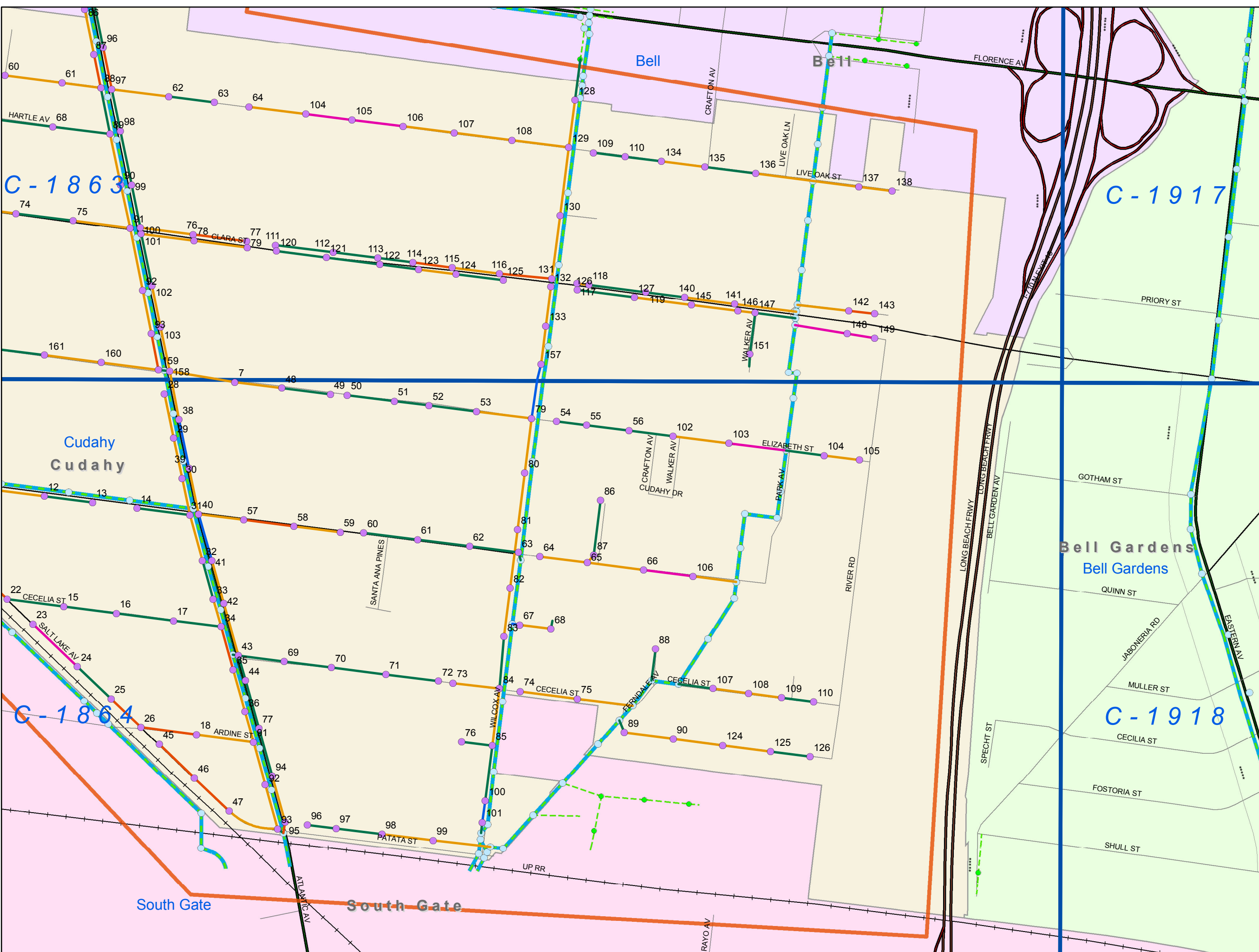
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- Pump Stations

Maintained by Others

- Trunk Lines:**
- Trunk Main Lines
 - Trunk Force Mains
 - Trunk Manholes
- Non SMD Sewer**
- Non SMD Sewer
 - Non SMD Manholes
- Y0TV0910B
- SMD Operations Maps

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April 2013



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20100520	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2455	PSR: 53075
Total Pipe Length: 320	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/20/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0116
City: CUD	Year Renewed	End MH: 1863-0131
Location Code: C Light Highway	Tape/Media #:	pipe length: 297.33 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 320
Drain. Area: 0116/1863-0131/1863	Lining Method:
	Category:

Remark:: **HOLE AT 295FT**

1:675	position	observation	grade
			0 FT //
			5.05 FT // 00:00:44
			9.1 FT // 00:00:57
			9.1 FT // 00:00:57
			55.88 FT // 00:02:45
	0.00	Upstream Manhole, Survey Begins 1863-0116	
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 15 % of cross sectional area	M 2
	5.05	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	9.10	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	55.88	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	103.65	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	143.92	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	158.89	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	163.55	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	214.13	Tap Factory Made Abandoned, at 10 o'clock, 6", within 8 inch: YES	
	243.82	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	254.14	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	275.19	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	281.11	Crack Circumferential, from 03 to 06 o'clock, within 8 inch: YES	S 1
	286.55	Hole Soil Visible, from 03 to 09 o'clock, within 8 inch: YES	S 5
	286.55	Hole, from 03 to 09 o'clock, within 8 inch: YES	S 5
	288.40	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	290.05	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	295.81	Hole Void Visible, from 03 to 06 o'clock, within 8 inch: YES	S 5
	297.33	Downstream Manhole, Survey Ends 1863-0131	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5342	2200	36	4	40	3.6	2	3.33



Inspection report

Date: 20100518	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2216	PSR: 53064
Total Pipe Length: 314	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: LIVE OAK ST	Flow Control: N Not Controlled	Start MH: 1863-0105
City: CUD	Year Renewed:	End MH: 1863-0106
Location Code: C Light Highway	Tape/Media #:	pipe length: 347.2 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 314
Drain. Area: 0105/1863-0106/1863	Lining Method:
	Category:

Remark:: **NONE**

1:775	position	observation	grade
			0 FT //
			13.43 FT // 00:01:17
			13.43 FT // 00:01:17
			29.74 FT // 00:02:06
			32.31 FT // 00:02:22
	1863-0105	Upstream Manhole, Survey Begins 1863-0105	
	0.00		
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	13.43	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	29.74	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	32.31	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	59.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	79.82	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	106.44	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	129.93	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	162.79	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	180.29	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	212.94	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	239.64	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	251.27	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	289.99	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	313.51	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	343.06	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	1863-0106	Downstream Manhole, Survey Ends 1863-0106	
	347.20		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



Inspection report

Date: 20100519	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2414	PSR: 53024
Total Pipe Length: 251	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/19/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0025
City: CUD	Year Renewed	End MH: 1864-0026
Location Code: F Sidewalk	Tape/Media #:	pipe length: 272 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 251
Drain. Area: 0025/1864-0026/1864	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:625	position	observation	grade
			0 FT //
			14.47 FT // 00:01:16
			29.76 FT // 00:01:49
			29.76 FT // 00:01:49
			38.1 FT // 00:02:17
	1864-0025	Downstream Manhole, Survey Begins 1864-0026	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	14.47	Tap Factory Made, at 03 o'clock, 6", within 8 inch: YES	
	29.76	Hole Soil Visible, from 10 to 11 o'clock, within 8 inch: YES	S 5
	38.10	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	
	70.06	Joint Offset Medium	S 1
	77.35	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	
	78.65	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	133.93	Tap Factory Made Capped, at 02 o'clock, 4", within 8 inch: YES	
	169.78	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	228.41	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	S 4
	231.82	Hole Void Visible, from 11 to 12 o'clock, within 8 inch: YES	S 5
	253.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	1864-0026	Upstream Manhole, Survey Ends 1864-0025	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5242	2200	19	4	23	3.8	2	3.29



Inspection report

Date: 20100518	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2223	PSR: 53021
Total Pipe Length: 253	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0021
City: CUD	Year Renewed:	End MH: 1864-0022
Location Code: F Sidewalk	Tape/Media #:	pipe length: 260.53 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 253
Drain. Area: 0021/1864-0022/1864	Lining Method:
	Category:

Remark:: **NONE**

1:600	position	observation	grade
			0 FT //
			6.93 FT // 00:00:54
			36.84 FT // 00:02:00
			38.02 FT // 00:02:11
			38.02 FT // 00:02:11
	1864-0021	Upstream Manhole, Survey Begins 1864-0021	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	6.93	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	36.84	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	38.02	Crack Multiple, from 09 to 02 o'clock, within 8 inch: YES	S 3
	42.96	Hole Soil Visible, from 11 to 02 o'clock, within 8 inch: YES	S 5
	46.36	Hole Void Visible, from 11 to 02 o'clock, within 8 inch: YES	S 5
	62.37	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	75.71	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	168.80	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	207.27	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	223.57	Crack Circumferential, from 09 to 02 o'clock, within 8 inch: YES	S 1
	260.53	Downstream Manhole, Survey Ends 1864-0022	
	1864-0022		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5232	2200	17	4	21	3.4	2	3



Inspection report

Date: 20100607	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2657	PSR: 52921
Total Pipe Length: 296	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0045
City: CUD	Year Renewed	End MH: 1864-0046
Location Code: C Light Highway	Tape/Media #:	pipe length: 263.63 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 296
Drain. Area: 0045/1864-0046/1864	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:600	position	observation	grade
			0 FT //
			3.51 FT // 00:00:47
			3.51 FT // 00:00:47
			41.64 FT // 00:02:11
			86.65 FT // 00:03:34
	1864-0045	Downstream Manhole, Survey Begins 1864-0046	
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 10 of cross sectional area	M 2
	3.51	Hole Soil Visible, at 12 o'clock, within 8 inch: YES	S 5
	41.64	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	66.68	Water Level, 5 of cross sectional area	M 2
	86.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	137.57	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	179.36	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	257.10	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	259.70	Hole Soil Visible, at 12 o'clock, within 8 inch: YES	S 5
	263.63	Upstream Manhole, Survey Ends 1864-0045	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2300	10	6	16	5	2	3.2



Inspection report

Date: 20100602	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2628	PSR: 52978
Total Pipe Length: 159	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/02/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0142
City: CUD	Year Renewed	End MH: 1863-0143
Location Code: C Light Highway	Tape/Media #:	pipe length: 265.03 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 159
Drain. Area: 0142/1863-0143/1863	Lining Method:
	Category:

Remark:: **MH #'S REVERSED ON MAP**

1:600	position	observation	grade
	0.00	Upstream Manhole, Survey Begins 1863-0143	0 FT //
	0.00	Water Level, 5 % of cross sectional area	6.78 FT // 00:00:57
	0.00	Water Mark, 5 % of cross sectional area	16.48 FT // 00:01:25
	6.78	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	16.48 FT // 00:01:25
	16.48	Crack Circumferential, from 02 to 04 o'clock, within 8 inch: YES	40.61 FT // 00:02:25
	40.61	Crack Multiple, from 06 to 09 o'clock, within 8 inch: YES	
	43.46	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	
	50.61	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	82.08	Crack Multiple, from 01 to 04 o'clock, within 8 inch: YES	
	107.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	124.53	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	129.02	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	
	131.69	Crack Longitudinal, at 02 o'clock, within 8 inch: YES	
	156.76	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	
	160.91	Broken, from 07 to 09 o'clock, within 8 inch: YES	
	162.12	Broken, at 03 o'clock, within 8 inch: YES	
	184.12	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	200.32	Crack Circumferential, from 08 to 11 o'clock, within 8 inch: YES	
	203.32	Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	
	209.32	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	
	211.94	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	
	239.65	Crack Multiple, from 06 to 09 o'clock, within 8 inch: YES	
	258.63	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: CRACK	
	259.98	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	
	265.03	Downstream Manhole, Survey Ends 1863-0142	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5142	2300	41	6	47	2.73	2	2.61



Inspection report

Date: 20100611	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2716	PSR: 52845
Total Pipe Length: 67	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/10/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: ATLANTIC AV	Flow Control: N Not Controlled	Start MH: 1864-0095
City: CUD	Year Renewed	End MH: 1864-TRNK
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 31.82 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 67
Drain. Area: 0095/1864-TRNK/1864	Lining Method:
	Category:

Remark:: **BROCKEN PIPE**

1:75	position	observation	grade
			0 FT //
			0.98 FT // 00:01:01
			0.98 FT // 00:01:01
			6.75 FT // 00:01:52
			13.11 FT // 00:02:18
	1864-0095	Upstream Manhole, Survey Begins 1864-0095	
	0.00	Water Level, 0 % of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	0.98	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	6.75	Water Level, Sag in pipe, 20 % of cross sectional area	M 2
	13.11	Crack Circumferential, from 07 to 09 o'clock, within 8 inch: YES	S 1
	18.31	Hole Soil Visible, from 10 to 02 o'clock, within 8 inch: YES	S 5
	21.01	Fracture Multiple, from 07 to 10 o'clock, within 8 inch: YES	S 4
	22.16	Crack Spiral, from 08 to 05 o'clock, within 8 inch: YES	S 2
	1864-TRNK	Downstream Manhole, Survey Ends 1864-TRNK	
	31.82		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2300	13	6	19	2.6	2	2.38



Inspection report

Date: 20100526	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2514	PSR: 53052
Total Pipe Length: 226	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/26/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: ATLANTIC AV	Flow Control: N Not Controlled	Start MH: 1863-0093
City: CUD	Year Renewed	End MH: 1863-0159
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 297.47 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 226
Drain. Area: 0093/1863-0159/1863	Lining Method:
	Category:

Remark:: **NONE**

1:561	position	observation	grade
			0 FT //
			5.58 FT // 00:00:42
			12.96 FT // 00:01:01
			12.96 FT // 00:01:01
			21.88 FT // 00:01:29
	1863-0093	Upstream Manhole, Survey Begins 1863-0093	
	<u>0.00</u>	Water Level, 15 % of cross sectional area	M 2
	<u>0.00</u>	Water Mark, 25 % of cross sectional area	M 2
	<u>5.58</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	<u>12.96</u>	Crack Circumferential, from 02 to 06 o'clock, within 8 inch: YES	S 1
	<u>21.88</u>	Crack Multiple, from 10 to 04 o'clock, within 8 inch: YES	S 3
	<u>29.38</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	<u>30.45</u>	Crack Circumferential, from 09 to 03 o'clock, within 8 inch: YES	S 1
	<u>51.76</u>	Crack Multiple, from 06 to 01 o'clock, within 8 inch: YES	S 3
	<u>56.60</u>	Deposits Attached Grease, 10 % of cross sectional area, from 10 to 02 o'clock, within 8 inch: YES	M 2
	<u>71.31</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	<u>84.12</u>	Crack Multiple, from 06 to 01 o'clock, within 8 inch: YES	S 3
	<u>111.20</u>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	<u>116.34</u>	Deposits Attached Grease, 5 % of cross sectional area, from 10 to 02 o'clock, within 8 inch: YES	M 2
	<u>119.34</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	<u>135.14</u>	Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES	S 1
	<u>150.29</u>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	<u>162.26</u>	Crack Multiple, from 06 to 11 o'clock, within 8 inch: YES	S 3
	<u>175.68</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	<u>179.34</u>	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	
	<u>182.86</u>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	<u>198.14</u> S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	S 3
	<u>223.00</u>	Hole Soil Visible, from 08 to 11 o'clock, within 8 inch: YES	S 5
	<u>223.02</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	



Inspection report

Date: 20100526	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2514	PSR: 53052
Total Pipe Length: 226	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/26/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

1:561	position	observation	grade
		<p>Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES</p> <p>Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end S 3</p> <p>Downstream Manhole, Survey Ends 1863-0159</p>	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
513D	2400	86	8	94	2.87	2	2.76



Inspection report

Date: 20100527	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2500	PSR: 52908
Total Pipe Length: 270	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/27/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: ATLANTIC AV	Flow Control: N Not Controlled	Start MH: 1864-0034
City: CUD	Year Renewed	End MH: 1864-0035
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 242.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 270
Drain. Area: 0034/1864-0035/1864	Lining Method:
	Category:

Remark:: **NONE**

1:550	position	observation	grade
			0 FT //
			7.03 FT // 00:00:48
			7.03 FT // 00:00:48
			21.22 FT // 00:01:30
			21.22 FT // 00:01:30
	1864-0034	Upstream Manhole, Survey Begins 1864-0034	
	0.00		
	0.00	Water Level, 10 of cross sectional area	M 2
	0.00	Water Mark, 20 % of cross sectional area	M 2
	7.03	Hole Soil Visible, from 11 to 02 o'clock, within 8 inch: YES	S 5
	21.22	Crack Circumferential, from 07 to 01 o'clock, within 8 inch: YES	S 1
	33.44	Crack Circumferential, from 06 to 01 o'clock, within 8 inch: YES	S 1
	49.85	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	88.82	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	136.73	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	140.55	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	146.99	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	155.93	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	S 3
	187.86	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	208.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	241.85	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	S 3
	1864-0035	Downstream Manhole, Survey Ends 1864-0035	
	242.05		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
513C	2200	62	4	66	2.82	2	2.75



Inspection report

Date: 20100607	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2658	PSR: 52922
Total Pipe Length: 291	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0046
City: CUD	Year Renewed	End MH: 1864-0047
Location Code: C Light Highway	Tape/Media #:	pipe length: 263.81 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 291
Drain. Area: 0046/1864-0047/1864	Lining Method:
	Category:

Remark:: **NONE**

1:600	position	observation	grade
			0.01 FT //
			3.8 FT // 00:01:06
			3.8 FT // 00:01:06
			7.28 FT // 00:04:15
			7.28 FT // 00:04:15
1864-0046	0.01	Upstream Manhole, Survey Begins 1864-0046	
	0.01	Water Level, 10 % of cross sectional area	M 2
	0.01	Water Mark, 20 % of cross sectional area	M 2
	3.80	Tap Break-In Active, at 10 o'clock, 6", within 8 inch: YES	
	7.28	Hole Void Visible, at 12 o'clock, within 8 inch: YES	S 5
	8.41	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	66.93	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	76.14	Crack Circumferential, from 03 to 06 o'clock, within 8 inch: YES	S 1
	83.35	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	105.65	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	S 3
	131.16	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	147.37	Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES	S 3
	148.76	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	180.13	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	189.47	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES	S 3
	199.86	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	217.43	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	230.85	Crack Multiple, from 09 to 04 o'clock, within 8 inch: YES	S 3
	233.89	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	237.15	Crack Circumferential, from 01 to 04 o'clock, within 8 inch: YES	S 1
	250.27	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	251.30	Crack Multiple, from 07 to 10 o'clock, within 8 inch: YES	S 3
1864-0047	263.81	Downstream Manhole, Survey Ends 1864-0047	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5138	2200	31	4	35	2.82	2	2.69



Inspection report

Date: 20100519	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2410	PSR: 53017
Total Pipe Length: 342	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/19/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: ARDINE ST	Flow Control: N Not Controlled	Start MH: 1864-0018
City: CUD	Year Renewed	End MH: 1864-0026
Location Code: C Light Highway	Tape/Media #:	pipe length: 341.14 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 342
Drain. Area: 0018/1864-0026/1864	Lining Method:
	Category:

Remark:: **NONE**

1:775	position	observation	grade
	0.00	Upstream Manhole, Survey Begins 1864-0026	0 FT //
	0.00	Water Level, 5 % of cross sectional area	6.89 FT // 00:01:05
	0.00	Water Mark, 5 % of cross sectional area	42.85 FT // 00:02:11
	6.89	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	75.89 FT // 00:03:42
	42.85	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	96.42 FT // 00:04:21
	75.89	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	96.42	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	121.75	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	135.16	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	170.86	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	171.88	Crack Circumferential, from 06 to 11 o'clock, within 8 inch: YES	S 1
	173.38	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	189.73	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
	203.11	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	215.99	Broken Soil Visible, from 11 to 01 o'clock, within 8 inch: YES	S 5
	223.65	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	245.84	Crack Multiple, from 10 to 02 o'clock, within 8 inch: YES	S 3
	247.49	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	281.85	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	S 3
	286.23	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	300.81	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	311.14	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	S 3
	329.04	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES	S 3
	338.02	Crack Multiple, from 05 to 12 o'clock, within 8 inch: YES	S 3
	341.14	Downstream Manhole, Survey Ends 1864-0018	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5137	2200	27	4	31	3	2	2.82



Inspection report

Date: 20100527	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2496	PSR: 53055
Total Pipe Length: 260	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/27/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: ATLANTIC AV	Flow Control: N Not Controlled	Start MH: 1863-0096
City: CUD	Year Renewed	End MH: 1863-0097
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 286.16 ft
Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8	
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 260	
Drain. Area: 0096/1863-0097/1863	Lining Method:	
Remark: NONE	Category:	

Remark: **NONE**

1:650	position	observation	grade
			0 FT //
			11.66 FT // 00:01:11
			59.63 FT // 00:02:31
			121.7 FT // 00:04:13
			121.7 FT // 00:04:13
	1863-0096	Upstream Manhole, Survey Begins 1863-0096	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	11.66	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	59.63	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	121.70	Hole Soil Visible, at 09 o'clock, within 8 inch: YES	S 5
	123.09	Tap Factory Made Abandoned, at 09 o'clock, 6", within 8 inch: YES	
	152.01	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	159.11	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	184.64	Crack Multiple, from 12 to 07 o'clock, within 8 inch: YES	S 3
	187.43	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	198.00	Tap Factory Made Abandoned, at 10 o'clock, 6", within 8 inch: YES	
	211.20	Crack Circumferential, from 07 to 03 o'clock, within 8 inch: YES	S 1
	245.85	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	1863-0097	Downstream Manhole, Survey Ends 1863-0097	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	2200	15	4	19	3	2	2.71



Inspection report

Date: 20100520	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2453	PSR: 53073
Total Pipe Length: 242	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/20/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0114
City: CUD	Year Renewed	End MH: 1863-0115
Location Code: C Light Highway	Tape/Media #:	pipe length: 303.22 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 242
Drain. Area: 0114/1863-0115/1863	Lining Method:
	Category:

Remark:: **NONE**

1:675	position	observation	grade
			0 FT //
			25.69 FT // 00:01:43
			25.69 FT // 00:01:43
			26.75 FT // 00:02:03
			77.52 FT // 00:03:41
	1863-0114	Upstream Manhole, Survey Begins 1863-0114	
	0.00		
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 15 % of cross sectional area	M 2
	25.69	Broken Void Visible, from 08 to 10 o'clock, within 8 inch: YES	S 5
	26.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	77.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	97.89	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	127.62	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	152.99	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	199.45	Tap Factory Made Abandoned, at 09 o'clock, 6", within 8 inch: YES	
	218.73	Crack Circumferential, from 01 to 06 o'clock, within 8 inch: YES	S 1
	220.04	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	226.93	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	248.01	Crack Circumferential, from 09 to 03 o'clock, within 8 inch: YES	S 1
	278.18	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	301.18	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	303.22	Downstream Manhole, Survey Ends 1863-0115	
	1863-0115		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	2200	16	4	20	2.67	2	2.5



Inspection report

Date: 20100607	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2655	PSR: 53110
Total Pipe Length: 168	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0025
City: CUD	Year Renewed	End MH: 1863-0069
Location Code: C Light Highway	Tape/Media #:	pipe length: 333.35 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 168
Drain. Area: 0025/1863-0069/1863	Lining Method:
	Category:

Remark:: **MH #'S REVERSED ON MAP**

1:750	position	observation	grade
			0 FT //
			4.52 FT // 00:01:16
			6.95 FT // 00:01:27
			9.97 FT // 00:01:54
			9.97 FT // 00:01:54
	0.00	Upstream Manhole, Survey Begins 1863-0069	
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	4.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	6.95	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	9.97	Broken, at 12 o'clock, within 8 inch: YES	S 5
	55.00	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	57.45	Tap Factory Made Abandoned, at 02 o'clock, 6", within 8 inch: YES	
	78.21	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	111.14	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	138.01	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	161.75	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	177.49	Tap Break-In Active, at 09 o'clock, 4", within 8 inch: YES	
	215.70	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	218.23	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	229.85	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	264.54	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	265.71	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	301.10	Water Level, 10 % of cross sectional area	M 2
	306.58	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	316.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	319.10	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	333.35	Downstream Manhole, Survey Ends 1863-0025	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5132	2300	11	6	17	3.67	2	2.83



Inspection report

Date: 20100521	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2519	PSR: 52932
Total Pipe Length: 308	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/21/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SANTA ANA ST	Flow Control: N Not Controlled	Start MH: 1864-0057
City: CUD	Year Renewed	End MH: 1864-0058
Location Code: C Light Highway	Tape/Media #:	pipe length: 312.79 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 308
Drain. Area: 0057/1864-0058/1864	Lining Method:
	Category:

Remark:: **NONE**

1:700	position	observation	grade
			0 FT //
			2.02 FT // 00:00:30
			2.02 FT // 00:00:30
			8.29 FT // 00:00:56
			10.78 FT // 00:01:08
1864-0057	0.00	Upstream Manhole, Survey Begins 1864-0058	
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	2.02	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	8.29	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	10.78	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	55.59	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	58.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	98.24	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	105.59	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	107.85	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	109.35	Hole, at 12 o'clock, within 8 inch: YES	S 5
	161.20	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	163.86	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	214.22	Tap Factory Made, at 10 o'clock, 6", within 8 inch: YES	
	216.98	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	267.26	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	270.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
1864-0058	312.79	Downstream Manhole, Survey Ends 1864-0057	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5112	2200	7	4	11	2.33	2	2.2



Inspection report

Date: 20100507	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2107	PSR: 53118
Total Pipe Length: 221	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: BEAR ST	Flow Control: N Not Controlled	Start MH: 1863-0033
City: CUD	Year Renewed	End MH: 1863-0034
Location Code: C Light Highway	Tape/Media #:	pipe length: 238.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 221
Drain. Area: 0033/1863-0034/1863	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:550	position	observation	grade
			0 FT //
			33.72 FT // 00:02:00
			33.72 FT // 00:02:00
			61.42 FT // 00:03:09
			102.66 FT // 00:04:48
	1863-0033	Downstream Manhole, Survey Begins 1863-0034	
	0.00		
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	33.72	Broken Void Visible, from 02 to 04 o'clock, within 8 inch: YES	S 5
	61.42	Tap Break-In Capped, at 03 o'clock, 6", within 8 inch: YES	M 2
	102.66	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	165.12	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	223.27	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	1863-0034	Upstream Manhole, Survey Ends 1863-0033	
	238.05		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2300	5	6	11	5	2	2.75



Inspection report

Date: 20100526	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2508	PSR: 53046
Total Pipe Length: 208	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/26/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: ATLANTIC AV	Flow Control: N Not Controlled	Start MH: 1863-0087
City: CUD	Year Renewed	End MH: 1863-0088
Location Code: B Main Highway - Suburban/Rural	Tape/Media #:	pipe length: 257.21 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 208
Drain. Area: 0087/1863-0088/1863	Lining Method:
	Category:

Remark:: **MH #'S REVERSED ON MAP**

1:575	position	observation	grade
			0 FT //
			34.39 FT // 00:01:39
			48.79 FT // 00:02:11
			48.79 FT // 00:02:11
			103.93 FT // 00:04:07
	1863-0087	Downstream Manhole, Survey Begins 1863-0088	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	34.39	Tap Factory Made Capped, at 10 o'clock, 4", within 8 inch: YES	
	48.79	Hole Void Visible, from 01 to 03 o'clock, within 8 inch: YES	S 5
	103.93	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	148.54	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	205.43	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	257.21	Upstream Manhole, Survey Ends 1863-0087	
	1863-0088		

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



Inspection report

Date: 20100512	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2208	PSR: 53135
Total Pipe Length: 207	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1863-0051
City: CUD	Year Renewed	End MH: 1863-0052
Location Code: C Light Highway	Tape/Media #:	pipe length: 312.11 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 207
Drain. Area: 0051/1863-0052/1863	Lining Method:
	Category:

Remark:: **NONE**

1:700	position	observation	grade
			0 FT //
			23.07 FT // 00:01:56
			52.09 FT // 00:02:59
			52.09 FT // 00:02:59
			58.08 FT // 00:03:45
1863-0051	0.00	Upstream Manhole, Survey Begins 1863-0051	
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 15 % of cross sectional area	M 2
	23.07	Tap Break-In Active, at 10 o'clock, 6", within 8 inch: YES	
	52.09	Crack Multiple, from 12 to 07 o'clock, within 8 inch: YES	S 3
	58.08	Crack Multiple, from 12 to 05 o'clock, within 8 inch: YES	S 3
	61.01	Fracture Circumferential, from 03 to 05 o'clock, within 8 inch: YES	S 2
	67.16	Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 4
	82.35	Fracture Multiple, from 02 to 06 o'clock, within 8 inch: YES	S 4
	91.21	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	S 3
	107.45	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	151.11	F1 Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	S 3
	171.91	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	S 3
	184.83	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	210.38	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	231.38	Fracture Circumferential, from 02 to 05 o'clock, within 8 inch: YES	S 2
	243.37	Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 4
	247.87	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	257.99	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	S 3
	272.96	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	286.15	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	287.44	Crack Multiple, from 07 to 02 o'clock, within 8 inch: YES	S 3
	293.57	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	S 3
1863-0052	312.11	Downstream Manhole, Survey Ends 1863-0052	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
433C	2200	76	4	80	3.04	2	2.96



Inspection report

Date: 20100602	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2631	PSR: 52986
Total Pipe Length: 323	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/02/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0148
City: CUD	Year Renewed:	End MH: 1863-TRNK
Location Code: C Light Highway	Tape/Media #:	pipe length: 268.72 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 323
Drain. Area: 0148/1863-TRNK/1863	Lining Method:
	Category:

Remark:: **NONE**

1:528	position	observation	grade
			0 FT //
			41.76 FT // 00:02:10
			41.76 FT // 00:02:10
			44.7 FT // 00:02:31
			44.7 FT // 00:02:31
	1863-0148	Upstream Manhole, Survey Begins 1863-0148	
	<u>0.00</u>		
	<u>0.00</u>	Water Level, 5 % of cross sectional area	M 2
	<u>0.00</u>	Water Mark, 5 % of cross sectional area	M 2
	<u>41.76</u>	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES	S 3
	<u>44.70</u>	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	<u>52.20</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	<u>69.57</u>	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES	S 3
	<u>74.44</u> S1	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES, start	S 3
	<u>77.25</u>	Fracture Longitudinal, at 03 o'clock, within 8 inch: YES	S 3
	<u>88.29</u> F1	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES, end	S 3
	<u>92.60</u>	Deposits Ingress Gravel, 5 % of cross sectional area, from 05 to 07 o'clock, within 8 inch: YES	M 2
	<u>93.63</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	<u>133.55</u>	Crack Circumferential, from 01 to 02 o'clock, within 8 inch: YES	S 1
	<u>139.42</u>	Fracture Longitudinal, at 09 o'clock, within 8 inch: YES	S 3
	<u>143.93</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	<u>160.07</u>	Fracture Longitudinal, at 09 o'clock, within 8 inch: YES	S 3
	<u>162.93</u>	Fracture Multiple, from 08 to 10 o'clock, within 8 inch: YES	S 4
	<u>163.44</u>	Fracture Longitudinal, at 04 o'clock, within 8 inch: YES	S 3
	<u>186.70</u>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	<u>191.52</u>	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: CRACK	M 2
	<u>195.74</u>	Fracture Longitudinal, at 04 o'clock, within 8 inch: YES	S 3
	<u>197.22</u>	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	S 2
	<u>210.87</u>	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	S 2
	<u>228.68</u>	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	S 4



Inspection report

Date: 20100602	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2631	PSR: 52986
Total Pipe Length: 323	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/02/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

1:528	position	observation	grade
		Crack Multiple, from 02 to 05 o'clock, within 8 inch: YES	S 3
		Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
		Downstream Manhole, Survey Ends 1863-TRNK	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
433B	2400	56	8	64	2.95	2	2.78



Inspection report

Date: 20100512	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2210	PSR: 53137
Total Pipe Length: 332	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1863-0053
City: CUD	Year Renewed	End MH: 1863-0054
Location Code: C Light Highway	Tape/Media #:	pipe length: 345.27 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 332
Drain. Area: 0053/1863-0054/1863	Lining Method:
	Category:

Remark:: **NONE**

1:775	position	observation	grade
			0 FT //
			3.37 FT // 00:00:57
			52.69 FT // 00:02:49
			52.69 FT // 00:02:49
			81.06 FT // 00:03:58
	1863-0053	Upstream Manhole, Survey Begins 1863-0053	
	0.00	Water Level, 15 % of cross sectional area	M 2
	0.00	Water Mark, 20 % of cross sectional area	M 2
	3.37	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	52.69	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	S 3
	81.06	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	122.87	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	150.78	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	154.34	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	159.78	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	191.30	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	192.53	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	222.71	Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 4
	240.92	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	255.50	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	271.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	309.46	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
	319.65	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	330.01	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	335.82	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
	338.86	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
	1863-0054	Downstream Manhole, Survey Ends 1863-0054	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4339	2200	39	4	43	3.25	2	3.07



Inspection report

Date: 20100512	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2209	PSR: 53136
Total Pipe Length: 363	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1863-0052
City: CUD	Year Renewed	End MH: 1863-0053
Location Code: C Light Highway	Tape/Media #:	pipe length: 332.77 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 363
Drain. Area: 0052/1863-0053/1863	Lining Method:
	Category:

Remark:: **NONE**

1:750	position	observation	grade
			0 FT //
			11.14 FT // 00:01:09
			11.14 FT // 00:01:09
			17.14 FT // 00:01:43
			17.14 FT // 00:01:43
	1863-0052	Upstream Manhole, Survey Begins 1863-0052	
	0.00		
	0.00	Water Level, 10 % of cross sectional area	M 2
	0.00	Water Mark, 15 % of cross sectional area	M 2
	11.14	Crack Multiple, from 08 to 11 o'clock, within 8 inch: YES	S 3
	17.14	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	S 3
	32.13	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	62.77	Crack Circumferential, from 02 to 06 o'clock, within 8 inch: YES	S 1
	68.48	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	86.30	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	101.61	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	113.48	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	159.02	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	S 3
	208.28	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	218.62	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	267.04	Crack Circumferential, from 03 to 06 o'clock, within 8 inch: YES	S 1
	283.07	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	314.41	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	320.21	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	1863-0053	Downstream Manhole, Survey Ends 1863-0053	
	332.77		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4239	2200	37	4	41	2.85	2	2.73



Inspection report

Date: 20100518	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2221	PSR: 53019
Total Pipe Length: 350	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0019
City: CUD	Year Renewed	End MH: 1864-0020
Location Code: F Sidewalk	Tape/Media #:	pipe length: 257.03 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 350
Drain. Area: 0019/1864-0020/1864	Lining Method:
	Category:

Remark:: **A THE FLOW**

1:575	position	observation	grade
			0 FT //
			36.95 FT // 00:01:39
			88.4 FT // 00:03:20
			145.86 FT // 00:05:14
			180.82 FT // 00:06:32
	1864-0019	Downstream Manhole, Survey Begins 1864-0020	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	36.95	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	88.40	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	145.86	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	180.82	Fracture Multiple, from 11 to 02 o'clock, within 8 inch: YES	S 4
	191.30	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	220.68	Water Level, 0 % of cross sectional area	M 2
	245.65	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	253.00	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	S 4
	257.03	Upstream Manhole, Survey Ends 1864-0019	
1864-0020			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	2300	8	6	14	4	2	2.8



Inspection report

Date: 20100507	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2108	PSR: 53119
Total Pipe Length: 204	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: BEAR ST	Flow Control: N Not Controlled	Start MH: 1863-0034
City: CUD	Year Renewed	End MH: 1863-0035
Location Code: C Light Highway	Tape/Media #:	pipe length: 208.02 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 204
Drain. Area: 0034/1863-0035/1863	Lining Method:
	Category:

Remark:: **NONE**

1:475	position	observation	grade
			0 FT //
			5.46 FT // 00:00:53
			5.46 FT // 00:00:53
			32.99 FT // 00:02:00
			32.99 FT // 00:02:00
	1863-0034	Upstream Manhole, Survey Begins 1863-0034	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	5.46	Fracture Circumferential, from 06 to 10 o'clock, within 8 inch: YES	S 2
	32.99	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	39.64	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	79.53	Tap Break-In Capped, at 09 o'clock, 6", within 8 inch: YES	M 2
	119.37	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	120.56	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	122.36	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	S 3
	126.04	Crack Multiple, from 06 to 10 o'clock, within 8 inch: YES	S 3
	129.53	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	S 3
	163.19	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	S 4
	195.53	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	208.02	Downstream Manhole, Survey Ends 1863-0035	
	1863-0035		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4136	2300	24	6	30	3	2	2.73



Inspection report

Date: 20100519	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2412	PSR: 53022
Total Pipe Length: 374	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/19/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1864-0023
City: CUD	Year Renewed	End MH: 1864-0024
Location Code: F Sidewalk	Tape/Media #:	pipe length: 211 ft
Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8	
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 374	
Drain. Area: 0023/1864-0024/1864	Lining Method:	
	Category:	

Remark: **BROKEN PIPE AT 211FT REVERSED TO COMPLET**

1:475	position	observation	grade
			0 FT //
			1.18 FT // 00:00:40
			1.18 FT // 00:00:40
			15.49 FT // 00:01:20
			44.96 FT // 00:02:22
	1864-0023	Downstream Manhole, Survey Begins 1864-0024	
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	1.18	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	15.49	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	44.96	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: YES	
	97.62	Crack Multiple, from 12 to 05 o'clock, within 8 inch: YES	S 3
	107.82	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: YES	
	109.08	Fracture Multiple, from 11 to 05 o'clock, within 8 inch: YES	S 4
	149.47	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	156.80	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	S 3
	205.32	Crack Multiple, from 10 to 02 o'clock, within 8 inch: YES	S 3
	208.80	Fracture Circumferential, from 07 to 11 o'clock, within 8 inch: YES	S 2
	210.05	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: YES	
	211.00	Survey Abandoned, Remark: BROKEN PIPE	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4134	2200	18	4	22	3	2	2.75



Inspection report

Date: 20100602	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2630	PSR: 52985
Total Pipe Length: 169	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/02/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: CLARA ST	Flow Control: N Not Controlled	Start MH: 1863-0148
City: CUD	Year Renewed	End MH: 1863-0149
Location Code: C Light Highway	Tape/Media #:	pipe length: 266.67 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 169
Drain. Area: 0148/1863-0149/1863	Lining Method:
	Category:

Remark:: **MH #'S REVERSED ON MAP**

1:600	position	observation	grade
			0 FT //
			11.13 FT // 00:01:35
			34.68 FT // 00:02:27
			106.6 FT // 00:05:29
			125.78 FT // 00:06:22
1863-0148	0.00	Upstream Manhole, Survey Begins 1863-0149	
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	11.13	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	34.68	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	106.60	Tap Break-In Active, at 09 o'clock, 6", within 8 inch: YES	
	125.78	Crack Multiple, from 02 to 10 o'clock, within 8 inch: YES	S 3
	138.01	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	S 2
	147.93	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	173.28	Crack Multiple, from 08 to 03 o'clock, within 8 inch: YES	S 3
	213.77	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	236.19	Fracture Longitudinal, at 03 o'clock, within 8 inch: YES	S 3
	242.19	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	S 2
	258.41	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	259.79	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	262.62	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	266.67	Downstream Manhole, Survey Ends 1863-0148	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4134	2200	20	4	24	2.86	2	2.67



Inspection report

Date: 20100517	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2251	PSR: 53006
Total Pipe Length: 335	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/17/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SANTA ANA ST	Flow Control: N Not Controlled	Start MH: 1864-0008
City: CUD	Year Renewed	End MH: 1864-0009
Location Code: C Light Highway	Tape/Media #:	pipe length: 260.05 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 335
Drain. Area: 0008/1864-0009/1864	Lining Method:
	Category:

Remark:: **NONE**

1:600	position	observation	grade
			0 FT //
			5.72 FT // 00:01:32
			5.72 FT // 00:01:32
			22.55 FT // 00:02:14
			68.33 FT // 00:03:32
	1864-0008	Upstream Manhole, Survey Begins 1864-0009	
	0.00		
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	5.72	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	22.55	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	68.33	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	70.16	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	72.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	126.25	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	
	128.99	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	176.30	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	192.35	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	210.20	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	230.05	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	260.05	Downstream Manhole, Survey Ends 1864-0008	
	1864-0009		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2200	13	4	17	3.25	2	2.83



Inspection report

Date: 20100607	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2656	PSR: 52990
Total Pipe Length: 145	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 06/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: ELIZABETH ST	Flow Control: N Not Controlled	Start MH: 1863-0153
City: CUD	Year Renewed	End MH: 1863-0155
Location Code: C Light Highway	Tape/Media #:	pipe length: 139.21 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 145
Drain. Area: 0153/1863-0155/1863	Lining Method:
	Category:

Remark:: **MH #'S REVERSED ON MAP**

1:325	position	observation	grade
			0 FT // 1 FT // 00:01:14 1 FT // 00:01:14 8.73 FT // 00:01:49 76.38 FT // 00:03:45
	1863-0153	Upstream Manhole, Survey Begins 1863-0155	
	0.00	Water Level, 0 % of cross sectional area	M 2
	0.00	Water Mark, 5 % of cross sectional area	M 2
	1.00	Fracture Multiple, from 09 to 02 o'clock, within 8 inch: YES	S 4
	8.73	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	76.38	Crack Multiple, from 08 to 01 o'clock, within 8 inch: YES	S 3
	77.42	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	
	79.85	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	92.27	Water Level, 0 % of cross sectional area	M 2
	134.78	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	1863-0155	Downstream Manhole, Survey Ends 1863-0153	
	139.21		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2300	10	6	16	3.33	2	2.67



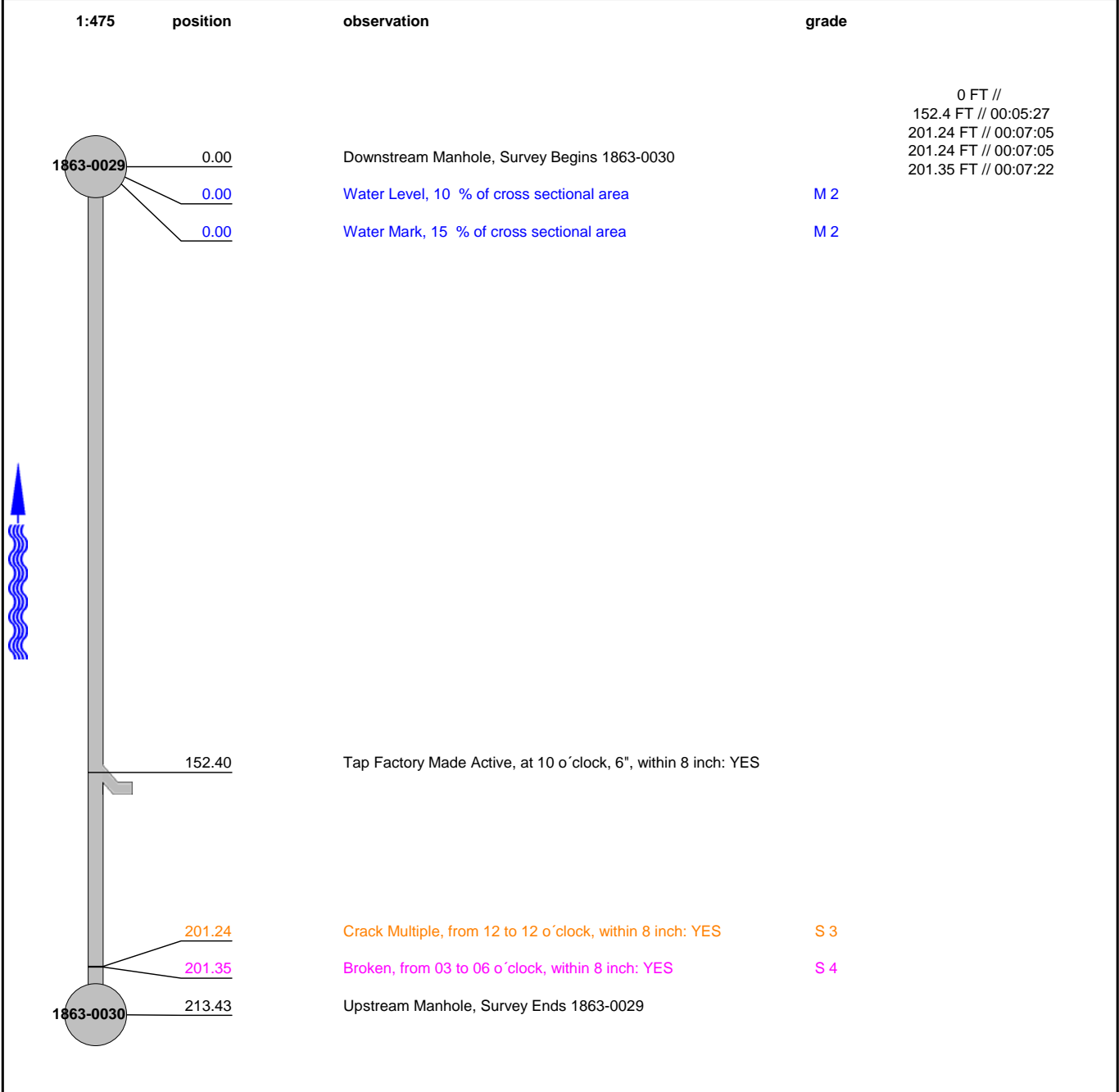
Inspection report

Date: 20100507	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2103	PSR: 53114
Total Pipe Length: 188	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/07/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: BEAR ST	Flow Control: N Not Controlled	Start MH: 1863-0029
City: CUD	Year Renewed:	End MH: 1863-0030
Location Code: C Light Highway	Tape/Media #:	pipe length: 213.43 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 188
Drain. Area: 0029/1863-0030/1863	Lining Method:
	Category:

Remark:: **A THE FLOW**



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	7	4	11	3.5	2	2.75



Inspection report

Date: 20100513	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2238	PSR: 53125
Total Pipe Length: 146	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/13/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: OTIS AV	Flow Control: N Not Controlled	Start MH: 1863-0040
City: CUD	Year Renewed	End MH: 1863-0041
Location Code: C Light Highway	Tape/Media #:	pipe length: 148.44 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 146
Drain. Area: 0040/1863-0041/1863	Lining Method:
	Category:

Remark:: **NONE**

1:350	position	observation	grade
			0 FT //
			24.74 FT // 00:01:15
			69.38 FT // 00:02:39
			76.88 FT // 00:03:02
			76.88 FT // 00:03:02
	1863-0040	Upstream Manhole, Survey Begins 1863-0040	
	0.00		
	0.00	Water Level, 15 % of cross sectional area	M 2
	0.00	Water Mark, 20 % of cross sectional area	M 2
	24.74	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	
	69.38	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	76.88	Fracture Multiple, from 11 to 04 o'clock, within 8 inch: YES	S 4
	78.04	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	137.58	Tap Factory Made Capped, at 10 o'clock, 6", within 8 inch: YES	
	144.93	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 3
	1863-0041	Downstream Manhole, Survey Ends 1863-0041	
	148.44		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	7	4	11	3.5	2	2.75



Inspection report

Date: 20100524	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2545	PSR: 52941
Total Pipe Length: 304	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/24/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: SANTA ANA ST	Flow Control: N Not Controlled	Start MH: 1864-0066
City: CUD	Year Renewed	End MH: 1864-0106
Location Code: C Light Highway	Tape/Media #:	pipe length: 336.14 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 304
Drain. Area: 0066/1864-0106/1864	Lining Method:
	Category:

Remark:: **NONE**

1:750	position	observation	grade
			0 FT //
			7.14 FT // 00:01:03
			37.22 FT // 00:02:04
			61.03 FT // 00:02:53
			81.93 FT // 00:03:37
	1864-0066	Upstream Manhole, Survey Begins 1864-0066	
	0.00		
	0.00	Water Level, 15 % of cross sectional area	M 2
	0.00	Water Mark, 20 of cross sectional area	M 2
	7.14	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	37.22	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	61.03	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	
	81.93	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	121.17	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	129.76	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	185.39	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	S 4
	187.37	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	195.59	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	237.67	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	255.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	267.21	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	286.93	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	309.15	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	336.14	Downstream Manhole, Survey Ends 1864-0106	
	1864-0106		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2200	5	4	9	2.5	2	2.25



Inspection report

Date: 20100518	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2215	PSR: 53063
Total Pipe Length: 283	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/18/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: LIVE OAK ST	Flow Control: N Not Controlled	Start MH: 1863-0104
City: CUD	Year Renewed:	End MH: 1863-0105
Location Code: C Light Highway	Tape/Media #:	pipe length: 352.18 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 283
Drain. Area: 0104/1863-0105/1863	Lining Method:
	Category:

Remark:: **NONE**

1:800	position	observation	grade
			0 FT //
			12.62 FT // 00:00:52
			15.22 FT // 00:01:03
			44.75 FT // 00:02:03
			68.57 FT // 00:02:53
	1863-0104	Upstream Manhole, Survey Begins 1863-0104	
	0.00	Water Level, 5 % of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	12.62	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	
	15.22	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	34.22	Water Level, 10 % of cross sectional area	M 2
	44.75	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	68.57	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	92.27	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	118.98	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	127.51	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	163.26	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	174.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	189.33	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	194.75	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	236.80	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	281.52	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	
	326.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	327.35	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	331.74	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	338.75	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	S 1
	1863-0105	Downstream Manhole, Survey Ends 1863-0105	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2300	5	6	11	2.5	2	2.2



Inspection report

Date: 20100525	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2540	PSR: 52853
Total Pipe Length: 350	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/25/2010	Pre-Cleaned: J Jetting	Map Grid #: 1864

Street: ELIZABETH ST	Flow Control: N Not Controlled	Start MH: 1864-0103
City: CUD	Year Renewed	End MH: 1864-TRNK
Location Code: C Light Highway	Tape/Media #:	pipe length: 283.57 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 350
Drain. Area: 0103/1864-TRNK/1864	Lining Method:
	Category:

Remark:: **NONE**

1:650	position	observation	grade
			0 FT //
			22.4 FT // 00:01:39
			24.7 FT // 00:01:56
			75.73 FT // 00:03:43
			78.64 FT // 00:03:58
	1864-0103 0.00	Upstream Manhole, Survey Begins 1864-0103	
	0.00	Water Level, 15 % of cross sectional area	M 2
	0.00	Water Mark, 20 % of cross sectional area	M 2
	22.40	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	24.70	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	75.73	Tap Factory Made, at 03 o'clock, 6", within 8 inch: YES	
	78.64	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	129.38	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	132.00	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	182.84	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	185.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	
	221.59	Tap Factory Made, at 03 o'clock, 6", within 8 inch: YES	
	224.08	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	
	267.63	Fracture Multiple, from 11 to 05 o'clock, within 8 inch: YES	S 4
	1864-TRNK 283.57	Downstream Manhole, Survey Ends 1864-TRNK	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



Inspection report

Date: 20100512	P.O.#: Y0TV0910B	Weather: 1 Dry	Surveyed By: J SALAS	section number: 2206	PSR: 53132
Total Pipe Length: 42	Survey Customer: LACDPW	System Owner: CUD	Clean Date: 05/12/2010	Pre-Cleaned: J Jetting	Map Grid #: 1863

Street: SALT LAKE AV	Flow Control: N Not Controlled	Start MH: 1863-0047
City: CUD	Year Renewed:	End MH: 1863-0050
Location Code: C Light Highway	Tape/Media #:	pipe length: 6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 42
Drain. Area: 0047/1863-0050/1863	Lining Method:
	Category:

Remark:: **NONE**

1:25	position	observation	grade
			0 FT //
			1.49 FT // 00:01:03
			1.49 FT // 00:01:03
			6 FT // 00:02:04
	1863-0047	0.00 Upstream Manhole, Survey Begins 1863-0047	
	0.00	Water Level, 10 of cross sectional area	M 2
	0.00	Water Mark, 10 % of cross sectional area	M 2
	1.49	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	S 4
	1863-0050	6.00 Downstream Manhole, Survey Ends 1863-0050	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67