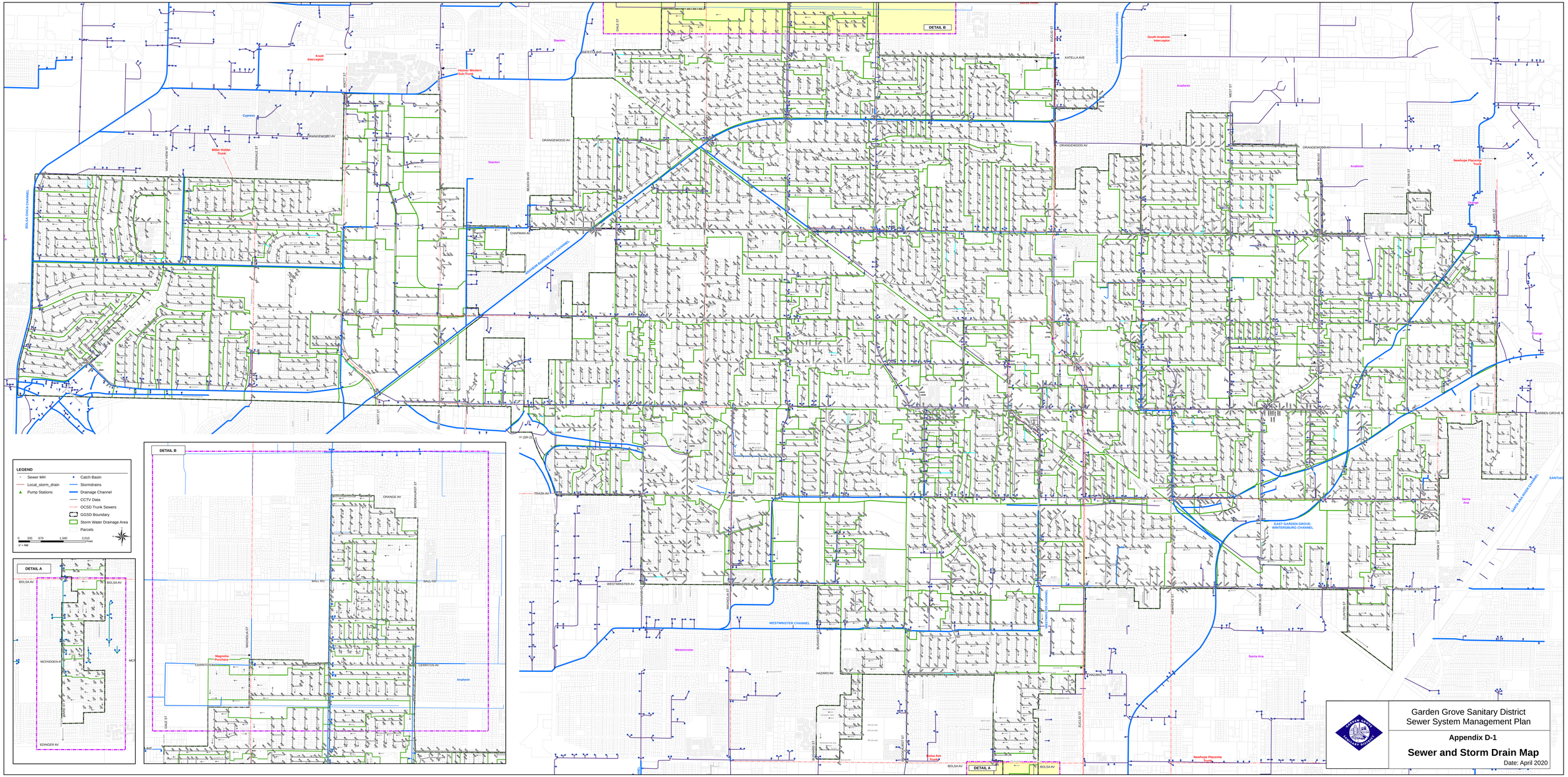
Appendix D-1

Sewer and Storm Drain Map



Garden Grove Sanitary District
Sewer System Management Plan

Appendix D-1

Sewer and Storm Drain Map

Date: April 2020

Appendix D-2

Pump Station Description

APPENDIX D-2

PUMP STATION DESCRIPTION

D2-1 Belgrave Pump Station

The Belgrave Sewage Pump Station is submersible pump station located adjacent to and behind 5856 Belgrave Avenue, Garden Grove, CA. The pump station is located within a Montessori school parking lot, just north of Belgrave Channel, an Orange County Flood Control District facility. The station was originally constructed in the early 1960's by the Midway City Sanitary District and upgraded/rebuilt in 2013 by the Garden Grove Sanitary District. The ground elevation at the pump station site is 29.0 ft amsl.

Belgrave Pump Station serves a 277.8 acre tributary area consisting of mostly low density residential, as well as some medium density, community residential, and light commercial areas.

Pumps

Belgrave Pump Station has two (2) WEMCO Hydrostal submersible pumps (Model F6K-M) with screw-centrifugal impellers. The pumps are driven by 60 HP motors. Per the certified pump testing curves, the pump deliver 1,400 gpm at a total dynamic head of 86 to 89 feet when operating at 1750 rpm. The Garden Grove Sanitary District has an identical spare pump, which can be installed at the facility if one pump has to be removed for service.

Wet Well

The wet well is a reinforced concrete, T-Lock lined rectangular structure with dimensions 7' by 11.17', and 19.83' high. The bottom of the structure is located at elevation 8.0 ft. amsl.

Forcemain

The wastewater tributary to the Belgrave Pump Station is pumped through approximately 3,700 ft of 12 inch diameter DR 14 PVC forcemain piping. The forcemain was constructed in 1999. It extends from the south side of the dry well, towards the Belgrave Channel, and east along the north side of the channel past Valley View, to the OCSD's Miller-Holder Trunk Sewer located in Springdale Street.

D2-2 Tiffany Pump Station

The Tiffany Sewage Pump Station is submersible pump station located at 12775 Valley View St. Garden Grove, CA. It has a ground surface elevation of 24.74 ft amsl. The station sits at the southwest corner of an office complex parking lot located on the south west corner of Valley View St and Tiffany Ave. The station was originally constructed in the early 1960's by the Midway City Sanitary District and transferred to the Garden Grove Sanitary District in 1997. The Garden Grove Sanitary District constructed the new Tiffany Pump Station in 2010.

Tiffany Pump Station serves a 222.2 acre tributary area consisting of mostly low density residential with some light commercial areas.

Pumps

Tiffany Pump Station has two (2) WEMCO Hydrostal submersible pumps (Model F6K-H) with screw-centrifugal impellers. The pumps are driven by 75 HP motors. Per the certified pump curves, the pumps deliver 1,560 gpm at a total dynamic head of 104 feet when operating at 1785 rpm.

Wet Well

The wet well is a reinforced concrete, T-Lock lined rectangular structure with overall inside dimensions of 19.67' wide, 29' long, and 29' high at the operational wet well. The bottom elevation is -5.26 ft. amsl. The wet well is divided onto an operational storage section which is 12' long, and an emergency storage section which is 16' long. The emergency storage is separated from the pump operational storage by a 1' thick and 7' high weir structure (top elevation of 8.21 feet amsl).

Forcemain

The wastewater tributary to the Tiffany Pump Station is pumped through approximately 5,370 ft of 12 inch diameter PVC pipe. The forcemain extends from the north-east side of the dry well. It then extends south-east on the north side of the Garden Grove Freeway off ramp at Valley View Street, and east on the north side of the Garden Grove Freeway to the OCSD's Miller-Holder Trunk Sewer located in Springdale Street.

D2-3 Partridge Pump Station

The Partridge Sewage Pump Station is submersible facility located to the east of Partridge Street cul-de-sac north of the Thunderbird Mobile home Park, south of Garden Grove Boulevard. The station was completed in 2010.

Tiffany Pump Station serves a 14.0 acre tributary area consisting of mostly low medium density residential, office professional, and open space.

Pumps

Partridge Pump Station has two submersible pumps with 120 gpm capacity at 17' total dynamic head.

Wet Well

The wet will is an 8-foot diameter precast concrete structure that is 19.75' tall. The bottom elevation is 88 feet amsl.

Forcemain

The wastewater tributary to the Partridge Pump Station is pumped through approximately 410 ft of 4 inch diameter PVC forcemain. The forcemain extends north from the pump station along Partridge Street to the gravity sewer at Partridge and Garden Grove Boulevard.

Appendix D-3

CCTV Database

Appendix D-3

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
2	1_Severe	1					R030	12				Y	8TH ST	9/21/2005	11416	11415	MHP110031	MHP110030	U/S	5269	SPP110017	6	VCP			120	18.7
3	1_Severe	1			PPT		53	22				Y	LEWIS	1/10/2008	6628	6627	MHU130017	MHU130016	U/S	369	SPU130017	8	VCP			271	272
5	1_Severe	1			PPT		MAP 3-B3-3	30				Y	TAFT STREET	8/21/2012	12282	11792	MHO140001	MHP140029	U/S	4333	SPO140030	6	VCP			350	46.4
1	1_Severe	2				21		12				x	10760 Garden Grove Blvd.	3/15/2004			MHO130006	MHO130007	DS		SPO130006	6	VCP	3		63	63
2	1_Severe	2					G003	3				Y	WASCO DR	7/14/2005	8035	8034	MHK060005	MHK060003	U/S	1887	SPK060027	8	VCP			160	174.8
3	1_Severe	2			PPT		28	33				Y	EASY	7/27/2007	9801	10669	MHO080039	MHO090018	D/S	5209	SPO080043	8	VCP			325	314
5	1_Severe	2		X	PPT		MAP 3-3	3				Y	EUCLID STREET	7/27/2012	11787	11768	MHO100002	MHO110001	D/S	5119	SPO100002	8	VCP			535	537.9
1	1_Severe	3				45		11				x	10242 Garden Grove Blvd.	4/30/2004			MHN130006	MHN130007	DS		SPN130004	8	VCP	3		381	381
2	1_Severe	3					G058	7		G058	8	Y	VOLKWOOD ST	12/13/2005			MHS100007	MHS110009	D/S		SPS110006	8	VCP			92	91.5
5	1_Severe	3			PPT		MAP 1-2	7				Y	LAMPLIGHTER STREET	7/19/2012	8331	8332	MHG100010	MHG110005	D/S	1126	SPG100014	8	Clay Tile			177	173.4
5	1_Severe	4			PPT		MAP 2 July-4	5		MAP 2 July-4	4	Y	LAMPSON AVENUE	6/28/2012	8687	8688	MHK110039	MHK110040	D/S	1994	SPK110041	8	Clay Tile			240	201.7
1	1_Severe	5				45		12				x	Garden Grove Bl./Rosewood Dr.	4/30/2004			MHN130007	MHN130008	DS		SPN130005	8	VCP	3		193	193
5	1_Severe	5		X	PPT		MAP 2-1-3	5				Y	FLETCHER DR	7/12/2012	10692	11325	MHN110029	MHN120021	D/S	2627	SPN110036	8	VCP			330	355.5
5	1_Severe	6	2018-08-13		PPT		MAP 4-B1-2	4				Y	NOTTINGHAM AVE	9/10/2012	7315	7316	MHO220027	MHO220028	D/S	158	SPO220027	8	VCP			269	349
5	1_Severe	7			PPT		June Map 2 B1	7				Y	D ESTE DR	6/4/2012	9349	9348	MHM020014	MHM020041	U/S	4255	SPM020034	8	VCP			147	151.5
2	1_Severe	8					S006	5				Y	VOLKWOOD ST	10/18/2005			MHS110013	MHS120024	D/S		SPS110011	8	VCP			291	290.5
5	1_Severe	8			PPT		Map 1 May	2				Y	BELGRAVE AVENUE	5/15/2012	7348	7349	MHG090043	MHG090044	D/S	1170	SPG090050	8	VCP			284	286.1
5	1_Severe	9	2018-06-14		PPT		MAP 1	14				Y	CHAPMAN AVENUE	5/11/2012	8277	8278	MHG090016	MHG090017	D/S	1065	SPG090017	8	VCP			325	326
5	1_Severe	10			PPT		MAP 3-B5	10				Y	HAVENWOOD DRIVE	9/13/2012	11910	11911	MHP140012	MHP150003	D/S	4815	SPP140011	8	VCP			295	292
5	1_Severe	11			PPT		June Map 2 B1	15				Y	HEDLUND DR	6/7/2012	8345	8343	MHM030023	MHM030008	D/S	3610	SPM030026	8	VCP			330	332.3
5	1_Severe	12			PPT		MAP 3-B3-1	20				Y	LAMPSON AVENUE	8/2/2012	11764	11765	MHP110014	MHP110015	D/S	4408	SPP110039	8	Clay Tile			230	413.8
5	1_Severe	13			PPT		MAP 4-B2-3	9				Y	WESTMINSTER BOULEVARD	9/28/2012	11951	11003	MHP170003	MHP170005	D/S	5320	SPP170005	10	VCP			320	319.8
5	1_Severe	14			PPT		MAP 3-5	15				Y	GARY STREET	7/23/2012	9796	10670	MHO080035	MHO090019	D/S	5110	SPO080039	8	Clay Tile			277	270.9
5	1_Severe	15			PPT		MAP 3-6	1				Y	9TH STREET	7/31/2012	12529	12530	MHP110026	MHP110027	D/S	6053	SPP110004	8	Clay Tile			312	312.4
5	1_Severe	16			PPT		MAP 3-B3-3	22				Y	NUTWOOD STREET	8/22/2012	11241	11143	MHN110035	MHN110036	D/S	2378	SPN110002	8	VCP			55	94.9
5	1_Severe	17			PPT		MAP 3-B3-3	22				Y	NUTWOOD STREET	8/22/2012	11241	11143	MHN110036	MHN110037	D/S	2379	SPN110003	8	VCP			100	94.9
5	1_Severe	18			PPT		MAP 3-6	14				Y	WESTLAKE STREET	7/27/2012	12328	12327	MHO110024	MHO110023	U/S	4932	SPO110014	8	Clay Tile			360	243.4
5	1_Severe	19			PPT		MAP 3-B3-2	7				Y	TAFT STREET	8/20/2012	12277	12279	MHO130010	MHO130012	D/S	3836	SPO130010	8	VCP			140	134.8
5	1_Severe	20		X	PPT		MAP 3-3	4				Y	EUCLID STREET	7/27/2012	11787	11786	MHO100002	MHO100001	U/S	5118	SPO100001	8	VCP			535	539
5	1_Severe	21			PPT		MAP 4-B1-3	12				Y	BALLAST AVE	9/11/2012	7319	7320	MHO230008	MHO230009	D/S	161	SPO230020	8	VCP			170	169.1
5	1_Severe	22		X	PPT		MAP 3-5	9				Y	STANFORD AVENUE	7/26/2012	11832	11834	MHO120004	MHO120007	D/S	5395	SPO120003	8	Clay Tile			460	473.5
5	1_Severe	23			PPT		MAP 2 July-4	13				Y	COVEY	6/26/2012	9623	10265	MHM080037	MHM090014	D/S	5042	SPM080033	8	Clay Tile			312	310.7
5	1_Severe	24			PPT		June Map 2 B1	64				Y	HOMEWAY DRIVE	6/13/2012	10836	10841	MHL060030	MHL060036	D/S	5230	SPL060035	8	VCP			330	323.4
5	1_Severe	25			PPT		MAP 3-B3-3	29				Y	TAFT STREET	8/21/2012	12295	12294	MHO140020	MHO140019	U/S	3941	SPO140006	8	VCP			145	217.9
5	1_Severe	26			PPT		MAP 3-B5	15				Y	NUTWOOD STREET	9/7/2012	11145	11146	MHN110039	MHN110040	D/S	2382	SPN110006	8	VCP			330	328.4
5	1_Severe	27			PPT		MAP 3-5	6				Y	ACACIA AVENUE	7/25/2012	11124	11125	MHO120023	MHN120004	D/S	2806	SPO120022	8	Clay Tile			330	328.6
5	1_Severe	28			PPT		MAP 2-1-1	4				Y	BROOKHURST STREET	7/6/2012	9962	9963	MHM090003	MHM090004	D/S	5368	SPM090005	8	VCP			260	265.6
5	1_Severe	29			PPT		MAP 3-B2-4	15				Y	FREDRICK DRIVE	8/24/2012	12595	12539	MHP090017	MHP090001	D/S	4757	SPP090026	8	VCP			330	313.9
5	1_Severe	30			PPT		MAP 2-1-4	13				Y	SEACREST DRIVE	7/17/2012	9866	9867	MHN080024	MHN080025	D/S	5880	SPN080024	8	VCP			245	247.8
5	1_Severe	31			PPT		MAP 4-B1-6	4				Y	TRASK AVE	10/3/2012	7434	7435	MHR140019	MHR140020	D/S	421	SPR140021	10	VCP			46	70.5
5	1_Severe	32			PPT		MAP 1	13				Y	CHAPMAN AVENUE	5/11/2012	8278	8279	MHG090017	MHG090018	D/S	1066	SPG090018	8	VCP			350	348
5	1_Severe	33	2012-05-08		PPT		MAP 1	12				Y	CHAPMAN AVENUE	5/11/2012	7351	8279	MHG090018	MHG090046	D/S	1321	SPG090058	8	VCP			350	348.1
5	1_Severe	34			PPT		MAP 1	11				Y	CHAPMAN AVENUE	5/11/2012	7351	7352	MHG090046	MHG090047	D/S	1173	SPG090053	8	VCP			303	300.6
5	1_Severe	35			PPT		Map 1 May	5				Y	VANGUARD AVENUE	5/16/2012	7334	7335	MHF090001	MHG090024	D/S	1475	SPG090036	8	VCP			213	211.2
5	1_Severe	36			PPT		Map 1 May	6				Y	VANGUARD AVENUE	5/16/2012	7335	7336	MHG090024	MHG090025	D/S	1476	SPG090037	8	VCP			213	213.3
5	1_Severe	37			PPT		Map 1 May	3				Y	BELGRAVE AVENUE	5/15/2012	7349	7350	MHG090044	MHG090045	D/S	1171	SPG090051	8	VCP			300	279.5

Structural Defect Coding

Ranking	Street Name	Crack (C) L	Crack C	Crack M	Crack S	Crack H	Fracture (F) L	Fracture C	Fracture M	Fracture S	Fracture H	Broken (B) SV	Broken VV	Hole (H) SV	Hole VV	Joint (J) O S	Joint O M	Joint O L	Joint S S	Joint S M	Joint S L	Joint A	Deformed (D) V	Deformed H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
1	8TH ST		1									1																			2	6	
1	LEWIS											1																			1	5	5.00
1	TAFT STREET		1	1									1				1								1					5232	5	17	3.40
2	10760 Garden Grove Blvd.																	1														5	5.00
2	WASCO DR																	1													1	5	
2	EASY			1				1	1								1														4	12	3.00
2	EUCLID STREET	1	26	48				6	32	2		2	1				2	1						2						544E	123	354	2.88
3	10242 Garden Grove Blvd.	1	1	1				1	2					5				1											39			5	5.00
3	VOLKWOOD ST							1																							1	2	
3	LAMPLIGHTER STREET								1				1											1						5241	3	14	4.67
4	LAMPSON AVENUE								1			1	1											1						5341	4	19	4.75
5	Garden Grove Bl./Rosewood Dr.	1	2											2																		24	3.43
5	FLETCHER DR	1	1						4			1	1											1						5344	9	34	3.78
6	NOTTINGHAM AVE								2				2				1				1		1						24	5342	31	76	2.45
7	D ESTE DR		1							1													1			1	1	2		5141	7	18	2.57
8	VOLKWOOD ST															2		1													3	7	
8	BELGRAVE AVENUE	1		4			23	4	17		23	1	1																	524G			
9	CHAPMAN AVENUE						2		90	1		2			1		1													534R	97	387	3.99
10	HAVENWOOD DRIVE	1		4					5			2	1																	5345	13	49	3.77
11	HEDLUND DR	14	8	6				1			1		1	1			1													5243			
12	LAMPSON AVENUE	3	5	1					2			1						1												5242	13	32	2.46
13	WESTMINSTER BOULEVARD	9	4	16		1		1	4				1				1	1												5244	38	108	2.84
14	GARY STREET	5		5			1		1				1					1												5241	14	42	3.00
15	9TH STREET							1	2			1	1																	5242	5	20	4.00
16	NUTWOOD STREET	1						1	1				1					1												5241	5	18	3.60
17	NUTWOOD STREET	1						1	1				1					1												5241	5	18	3.60
18	WESTLAKE STREET	1							1				1					1										1	55	5242	60	128	2.13
19	TAFT STREET	3	2	19			1				1		2																	5241	28	82	2.93
20	EUCLID STREET		4	6					7								2	1											38	5147	58	137	2.36
21	BALLAST AVE																	1											1	5121	2	7	3.50
22	STANFORD AVENUE	1	5	41			1	3	31								1	1			1					24				514E	109	321	2.94
23	COVEY	16	2	20		2		2	33									1												514E	76	249	3.28
24	HOMEWAY DRIVE	5	8	15		2			1		1						1	1												5144	34	93	2.74
25	TAFT STREET	5	9	35			2		9									1												5149	61	171	2.80
26	NUTWOOD STREET	1	1	4					2									1												5142	9	28	3.11
27	ACACIA AVENUE	3	4	43		1			11									1												514A	63	195	3.10
28	BROOKHURST STREET	7	4	38		1			2									1												5142	53	152	2.87
29	FREDRICK DRIVE			2													2	1												5134	5	17	3.40
30	SEACREST DRIVE		3	4													2	1												5136	10	26	2.60
31	TRASK AVE			2													1	1												5133	4	14	3.50
32	CHAPMAN AVENUE	18	2	10			22	1	40			1																		514G	94	301	3.20
33	CHAPMAN AVENUE	21	6	9			22	1	26				1																	514D	86	252	2.93
34	CHAPMAN AVENUE	19	1	8			20	2	26				1																	514D	77	236	3.06
35	VANGUARD AVENUE	8	2	1			17		9		15	1																		514E	53	173	3.26
36	VANGUARD AVENUE	5					13	2	16		12		1																	514D	49	170	3.47
37	BELGRAVE AVENUE	6	9	4			8		9		7		1																	514B			

Operational and Maintenance

Ranking	Street Name	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots Fine (F) B	Fine L	Fine J	Fine C	Tap (T) B	Tap L	Tap J	Tap C	Medium (M) B	Medium L	Medium J	Medium C	Ball (B) B	Ball L	Ball J	Ball C	Infiltration (I) G	I D	I R	I W	Obstacles (OB) Other C	OB Z	OB %	Vermin (V) C	Vermin R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
1	8TH ST																1																		1	4	
1	LEWIS																																		0	0	0.00
1	TAFT STREET						11																											2A00	11	22	2.00
2	10760 Garden Grove Blvd.																															2				0	0.00
2	WASCO DR	2					19	5.00																											23	67	
2	EASY																																		0	0	0.00
2	EUCLID STREET	3					105				48											1												412U	180	362	2.01
3	10242 Garden Grove Blvd.																															8				8	0.62
3	VOLKWOOD ST	17			1	35.00					5							1																	24	44	
3	LAMPLIGHTER STREET	15	10																															2D00	25	50	2.00
4	LAMPSON AVENUE						9				1																							2911	10	19	1.90
5	Garden Grove Bl./Rosewood Dr.	16																														1				28	1.62
5	FLETCHER DR						30				3	1								1												1		2E14	36	67	1.86
6	NOTTINGHAM AVE						0																											0000	0	0	0.00
7	D ESTE DR																																	0000			
8	VOLKWOOD ST	9					36	5.00																								1			46	127	
8	BELGRAVE AVENUE		54																															2I00			
9	CHAPMAN AVENUE										5				1					2												6		3221	14	19	1.36
10	HAVENWOOD DRIVE						48				1																					7		2H19	57	108	1.89
11	HEDLUND DR																															1		1100			
12	LAMPSON AVENUE	115					0																											2W00	115	230	2.00
13	WESTMINSTER BOULEVARD	2										1																						2311	4	8	2.00
14	GARY STREET	35																																2F11	36	74	2.06
15	9TH STREET	12					14				2																					7		2619	35	61	1.74
16	NUTWOOD STREET	25																																2D00	25	50	2.00
17	NUTWOOD STREET	25																																2D00	25	50	2.00
18	WESTLAKE STREET										4																							1400	4	4	1.00
19	TAFT STREET						3																											5123	4	12	3.00
20	EUCLID STREET						24			1	26							1				3												4331	85	210	2.47
21	BALLAST AVE																																	2100	1	2	2.00
22	STANFORD AVENUE		150																															2Z00	150	300	2.00
23	COVEY						5																									1		2512	6	13	2.17
24	HOMEWAY DRIVE		4																													8		2418	12	16	1.33
25	TAFT STREET						36																											2F00	36	72	2.00
26	NUTWOOD STREET	109					0																											2U00	109	218	2.00
27	ACACIA AVENUE		62																													2		2K12	64	126	1.97
28	BROOKHURST STREET	5																																2500	6	12	2.00
29	FREDRICK DRIVE						80																									2		2O12	82	162	1.98
30	SEACREST DRIVE						13																											2A00	13	26	2.00
31	TRASK AVE						18																							0				2B00	18	36	2.00
32	CHAPMAN AVENUE										11	1								3												3		331B	18	23	1.28
33	CHAPMAN AVENUE										6									1												3		311A	10	12	1.20
34	CHAPMAN AVENUE										6		1							4												7		3422	18	32	1.78
35	VANGUARD AVENUE									2	1																					5		0000			
36	VANGUARD AVENUE						1				3							1				1										1		4131	7	13	1.86
37	BELGRAVE AVENUE		69																															412K			

Construction Features

Ranking	Street Name	Tap (Lateral) (T) FD	T FL	T BI	T BD	Line (L) D	L L	L U	L R	L LD	L RD	Intruding Seal Material (IS) SRH	IS SRB	IS SRL	IS Z	Miscellaneous (M) SA	M CU	M MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
1	8TH ST															1							18.7' BROKEN PIPE (SV). 18.7' MSA = BROKEN PIPE. SOIL & ROOTS IN BROKEN PIPE, POSSIBLY ABANDONED	
1	LEWIS																						Repeat inspection, DVD 19 - Section 6	Spot repair at 120.40 ft BSV, 162.0 ft JOM
1	TAFT STREET															1		2					46.4' MSA (JOM). 46.4' BVV & after BVV Possible Collapsed Pipe(Pipe plugged with broken pipe materials). Severe Defect. No Reversal Video	Replace Pipe 46.4' to end of the Collapsed Pipe
2	10760 Garden Grove Blvd.															1				JOL				Replace pipe
2	WASCO DR					1											1						152.5' JOL (D/SH) JOL	
2	EASY																							Replace from 260 ft to 314 ft
2	EUCLID STREET			1		5	8		6	1	2							2					336.4' & 506' BSV, 508.1 BVV, 510.9' JOL (D/SL), 160' to 166' Deformed Pipe Horizontal. Too many Cracks & Fractures.0' to 234' & 340' to 420' DSZ. Severe Defect	Replace All Pipe or Replace Pipe 160 to 166' & 506' to 510.9', Patch Repair @ 336.4 . Reline Pipe
3	10242 Garden Grove Blvd.																6							Replace pipe
3	VOLKWOOD ST															2							3' & 26.5' MSA =DAGS, HEAVY GREASE AT 26.5', NO INSPECTION 3' TO 26.5'	
3	LAMPLIGHTER STREET															1							173.4' MSA (DAE). End of the Sewer Line. 157.2' DH. Severe Defect	Replace Pipe 155' to 161' and Clean Deposits
4	LAMPSON AVENUE															2							103.2' BVV & 106.8' BSV & Deformed Horizontal Pipe 103.8'to.106.8' .MSA (BVV). Severe Defect Inspection Completed	Replace Pipe 103.2' to 109.8'
5	Garden Grove Bl./Rosewood Dr.																							Replace pipe
5	FLETCHER DR																						346.4' & 350.6 BVV, 346.6' BSV, 347' Deformed Horizontal Pipe. Severe Defect	Replace Pipe 185' to 188'(FM) & 338' to 354'
6	NOTTINGHAM AVE																					Replaced section of 8" VCP main and replaced failed coupling on 8" x 4" wye.	313' & 315.7' BVV, 313.9' Deformed Pipe. Severe Defect. Inspection Report shows 16.9' JOL. It was JOM & we changed it.	Replace Pipe 311' to 317'
7	D ESTE DR																						148' Deformed Vertical Pipe. Severe Defect. U/S MH is CO.	Replace Pipe 148' to 152'
8	VOLKWOOD ST																						3.3' JOL (D/SL)	
8	BELGRAVE AVENUE	1																					140.3' BVV & 269.8' BSV. Continuous Fractures & Cracks. Severe Defect	Replace Or Reline Pipe
9	CHAPMAN AVENUE																					Replaced 8' of 8" VCP main at crossing of water main.	24.4' HVV, 127' & 213' BVV. Continuous FM. Severe Defect	Replace Pipe 21' to 27', 124' to 130' , 210' to 216' & Reline all pipe.
10	HAVENWOOD DRIVE						1																93.1' & 93.5' BSV, 244.2' BVV. Severe Defect	Replace Pipe 92.8' to 96' & 240' to 246'
11	HEDLUND DR																						303.3' HSV & 306.4' BVV. Severe Defect	Replace Pipe 300' to 309'
12	LAMPSON AVENUE																	2					27.2' BSV & 358' JOL (D/SL) at Material Change Point. Severe Defect	Replace Pipe 27' t0 30'to BSV. Fix or Replace JOL @ 358'
13	WESTMINSTER BOULEVARD	1																					61.8' BVV & 163' JOL (D/SL). Severe Defect. Laterals at 188.6',192.9' and 235.5 plugged with over 50% Deposits.	Replace Pipe 61.8' to 65' & 163' to 166' and Clean Laterals by Home Owner
14	GARY STREET					1												2					253' JOL (D/SL) at Material Change Point. 267.3' BVV . Severe Defect	Replace Pipe 253 to 271
15	9TH STREET																						46.7' BVV, 216.6' BSV. Severe Defect. @ 107.7' Unmapped MH	Replace Pipe 42' to 47' & 215.9' to 221"
16	NUTWOOD STREET															1		1					94.9' MSA (HIGH WATER LEVEL,POSSIBLE OFFSET).76.1' JOL (D/SL) 72.4' Small BVV. Severe Defect. No Reversal Video	No Connection 11241 to 11143. Pipe ID is not correct. Ask City, Patch Repair BVV & Replace Pipe @76.1' at Material Changing Point
17	NUTWOOD STREET															1		1					with one inspection. 94.9' MSA (HIGH WATER LEVEL,POSSIBLE OFFSET).76.1' JOL (D/SL) 72.4' Small BVV. Severe Defect. No Reversal Video	No Connection 11241 to 11143. Pipe ID is not correct. Ask City, Patch Repair BVV & Replace Pipe @76.1' at Material Changing Point
18	WESTLAKE STREET															1		2					Multiple reaches were evaluated with one inspection. 9.7' JOL (D/SH) at Material Change Point & 241.7' BVV. 3 Times SAG. Severe Defect. No Reversal Video	Replace Pipe 9.7' to 24.8' & 239' to 242'
19	TAFT STREET			1																			21.7' & 112' Small BVV. Severe Defect	Replace Pipe19' to 24' & Patch Repair @ 112'
20	EUCLID STREET					8	11		9	1	1												173.3' JOL (D/SH). Alignments & Sags. Severe Defect. After 462', Looks Like Abandoned pipe	Replace Pipe 173.3' to 176.3'. Also Should Replace All Pipe
21	BALLAST AVE					1																	167.4' JOL (D/SH). Severe Defect	Replace Pipe 163' to 168'
22	STANFORD AVENUE																	2					2' JOL (D/SL) at Material Changing Point. Too Many Cracks & Fractures also Deposits. Severe Defect	Replace Pipe 2' to 15.4' , Reline Pipe and Clean Deposits
23	COVEY					1																	243.4 JOL (D/SL). Too many Fractures & Cracks. Severe Defect	Replace Pipe 234.4' to 246.4, Also Reline Pipe
24	HOMEWAY DRIVE																						317' JOL (D/SL). Severe Defect	Replace Pipe 317' to 321.5'
25	TAFT STREET																	2					60.7' JOL (D/SL). Severe Defect. Unmarked MH @139.2'. Inspection Report Camera Direction was U/S, but it was D/S & we changed it.	Replace Pipe 60.7' to 68.3'
26	NUTWOOD STREET																	2					90.8' JOL (D/SL) @ Material Changing Point . Severe Defect	Replace Pipe 90.8' to 112'
27	ACACIA AVENUE																	2					73.1' JOL (D/SL) at Material change point. Too Much Fractures & Cracks. 4 Lateral (73',102.6', 199.1' & 232.2') have 50 % Grease. Severe Defect	Replace Pipe 73.1' to 78.6'. Reline Pipe & clean Laterals.
28	BROOKHURST STREET					1												1					263.3' JOL (D/SL) & Cracks. Severe Defect	Replace Pipe 263.3' to 265.6' & Reline all Line
29	FREDRICK DRIVE															1		1					313.9' MSA (JOL). 311.4' JOL. Same Inspection Map 3-B3-3 # 18. Use this one & delete other.	Replace Pipe @ 311.4 to next joint
30	SEACREST DRIVE																						5' JOL (D/SL). Severe Defect	Replace Pipe 5' to 7'
31	TRASK AVE																						18.4' JOL (D/SL). Severe Defect	Replace Pipe 16.2' to 18.4'
32	CHAPMAN AVENUE																						294.1' BSV. Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
33	CHAPMAN AVENUE																	2				Repaired broken pipe on pipe I.D. 1321 at approximately 74'-91' up stream from manhole 8279.	98.7' BVV. Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
34	CHAPMAN AVENUE	2																					43.3' BVV. Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
35	VANGUARD AVENUE				1																		83.1' BSV. Continuous Fractures & Cracks. Severe Defect. Pipe ID wasn"t exist	Reline Pipe
36	VANGUARD AVENUE																						169.1' BVV. Continuous Fractures & Cracks. Severe Defect	Reline Pipe
37	BELGRAVE AVENUE																						25.4' BVV. Severe Defect	Replace Pipe 23' to 29'

General

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location – Street Name	CCTV Date	Existing MH ID – Start	Existing MH ID – End	Previous MH ID – Start	Previous MH ID – End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Pipe – Size (in)	Pipe – Material	Pipe – Joint Length (ft)	Pipe – GIS Comment	Pipe – Length (ft)	Pipe – CCTV Length (ft)
5	1_Severe	38	2013-08-26		PPT		MAP 3-5	14				Y	WAKEFIEID AVENUE	7/23/2012	13155	12797	MHP060005	MHO060001	D/S	6604	SPP060007	8	Clay Tile			300	293.7
5	1_Severe	39			PPT		MAP 3-B3-4	31				Y	STUART DRIVE	8/28/2012	10903	11442	MHQ130023	MHQ130024	D/S	3709	SPQ130002	8	VCP			305	298.2
5	1_Severe	40			PPT		MAP 3-B2-5	8				Y	FALLINGLEAF STREET	8/28/2012	12735	12736	MHS090024	MHS090025	D/S	6547	SPS090011	8	VCP			388	392.3
5	1_Severe	41			PPT		MAP 3-B3-3	28				Y	TAFT STREET	8/21/2012	12295	12296	MHO140020	MHO140021	D/S	3942	SPO140007	8	VCP			340	252.6
5	1_Severe	42		X	PPT		MAP 3-6	11				Y	STANFORD AVENUE	7/27/2012	11749	11748	MHO120001	MHP120036	U/S	4403	SPP120037	8	Clay Tile			407	406
5	1_Severe	43			PPT		MAP 2-2-2	9				Y	GARDEN GROVE	7/20/2012	8368	8367	COK130002	COK130003	U/S	3375	SPK130004	8	Clay Tile			50	149.6
5	1_Severe	44			PPT		June Map 2 B1	91				Y	MAGNOLIA STREET	6/15/2012	10787	10788	MHL050044	MHL060045	D/S	4240	SPL050054	8	VCP			247	258.3
5	1_Severe	45			PPT		June Map 2 B1	8				Y	CHANTICLEER RD	6/4/2012	9346	9339	MHM020010	MHL020002	D/S	3487	SPL020006	8	VCP			290	287.3
5	1_Severe	46		X	PPT		MAP 3-B3-1	14				Y	ALLEY E/OF MAIN STREET	8/3/2012	UN MARKED M.H.	11735	MHP120023	MHP130010	D/S	6763	SPP120027	6	Clay Tile			663	82.8
5	1_Severe	48			PPT		May Folder 2	7		May Folder 2	8	Y	OWEN STREET	5/29/2012	8817	8818	MHF120004	MHF120005	D/S	1622	SPF120031	8	VCP			258	261.3
5	1_Severe	49			PPT		MAP 3-B3-5	11				Y	BONSER AVE	8/31/2012	9456	9455	MHM100001	MHN100038	U/S	3191	SPN100045	8	VCP			170	183
5	1_Severe	50			PPT		MAP 3-B3-1	5				Y	GEORGE STREET	8/6/2012	12510	12516	MHQ110024	MHQ110031	D/S	4129	SPQ110005	8	VCP			340	346.5
5	1_Severe	52			PPT		June Map 2 B1	59				Y	BROOKHURST STREET	6/13/2012	10350	9942	MHM050042	MHM050043	D/S	5014	SPM050017	10	VCP			282	237.4
5	1_Severe	53			PPT		MAP 4-B1-5	1				Y	HARBOR BLVD	9/26/2012	7549	7551	MHR160022	MHR160023	D/S	573	SPR160024	8	VCP			252	288.8
5	1_Severe	54			PPT		MAP 4-B2-1	29				Y	RANCHERO WY	9/4/2012	14123	14121			D/S			6	VCP			277	277.1
5	1_Severe	55			PPT		MAP 4-B2-1	18				Y	BARNETT WY	9/7/2012	11923	11922	MHP150011	MHP150010	U/S	4825	SPP150009	8	VCP			380	382
5	1_Severe	56			PPT		MAP 3-B2-1	9				Y	9th STREET	8/7/2012	13000	12238	MHP080030	MHP080031	D/S	6323	SPP080005	8	VCP			380	378.7
5	1_Severe	57			PPT		MAP 3-B2-1	10				Y	9th STREET	8/7/2012	12999	13000	MHP080029	MHP080030	D/S	6322	SPP080004	8	VCP			395	395.6
5	1_Severe	58			PPT		MAP 1	5				Y	LAURELTON AVENUE	5/11/2012	8272	8273	MHG090009	MHG090010	D/S	1061	SPG090013	8	VCP			371	369.8
5	1_Severe	59			PPT		MAP 1	10				Y	CHAPMAN AVENUE	5/11/2012	7352	7353	MHG090047	MHG090048	D/S	1174	SPG090054	8	VCP			350	346.3
5	1_Severe	60			PPT		MAP 2 July-1	2				Y	CHAPMAN AVE	6/19/2012	10318	10325	MHK090003	MHK090004	D/S	5936	SPK090023	8	VCP			275	279.8
5	1_Severe	61			PPT		MAP 2 July-1	1				Y	CHAPMAN AVE	6/19/2012	10317	10318	MHK090002	MHK090003	D/S	5929	SPK090003	8	VCP			275	274.5
5	1_Severe	62			PPT		MAP 2 July-1	5				Y	MACNAB STREET	6/19/2012	10315	10317	MHK080020	MHK090002	D/S	5927	SPK080024	8	VCP			295	291.5
5	1_Severe	63			PPT		Map 1 May	9				Y	LAURELTON AVENUE	5/16/2012	7342	7343	MHF090003	MHG090030	D/S	1483	SPG090044	8	VCP			307	304.5
5	1_Severe	64			PPT		MAP 3-B3-4	33				Y	ALLEY	8/28/2012	10902	10901	MHQ130022	MHQ130021	U/S	4460	SPQ130025	8	VCP			395	389.5
5	1_Severe	65			PPT		MAP 3-B3-7	2				Y	LAMPSON AVE	8/31/2012	12627	12649	MHT100028	MHT100029	D/S	6536	SPT100049	8	VCP			250	243.3
5	1_Severe	66			PPT		Map 1 May	1				Y	LAURELTON AVENUE	5/15/2012	7330	7331	MHG090013	MHG090014	D/S	1471	SPG090032	8	VCP			350	348
5	1_Severe	67		X	PPT		MAP 3-1	2				Y	ALLEN DR	7/19/2012	11281	11215	MHN100046	MHN100001	D/S	2923	SPN100034	8	VCP			272	272.8
5	1_Severe	68			PPT		MAP 3-2	14				Y	WAKEFIELD AVE	7/24/2012	13156	13155	MHP060004	MHP060005	D/S	6605	SPP060006	8	VCP			327	328.5
5	1_Severe	69			PPT		Map 1 May	4				Y	BELGRAVE AVENUE	5/15/2012	7350	7357	MHG090045	MHF090011	D/S	1172	SPG090052	8	VCP			368	369
5	1_Severe	70			PPT		MAP 3-2	7				Y	EUCLID STREET	7/24/2012	13154	12797	MHO050001	MHO060001	D/S	6602	SPO060001	8	VCP			350	352.9
5	1_Severe	72			PPT		MAP 4-B1-4	14				Y	READING AVE	9/13/2012	10532	10533	MHN170039	MHN170040	D/S	2023	SPN170038	8	VCP			307	311.2
5	1_Severe	73			3K		MAP 3-6	16				Y	WESTLAKE STREET	7/26/2012	11835	11838	MHO120008	MHO120011	D/S	5398	SPO120007	8	Clay Tile			314	324.4
5	1_Severe	75			PPT		MAP 4-B1-4	12				Y	READING AVE	9/13/2012	10534	10564	MHN170041	MHM170015	D/S	2588	SPM170026	8	VCP			176	176.9
5	1_Severe	76			PPT		MAP 1	9				Y	LAMPLIGHTER STREET	5/11/2012	8279	8765	MHG090018	MHG090021	D/S	2434	SPG090019	8	VCP			273	271.9
5	1_Severe	77		X	PPT		MAP 3-1	3				Y	HACKAMORE RD	7/19/2012	11279	11280	MHN090023	MHN090024	D/S	2881	SPN090021	8	VCP			330	330.8
5	1_Severe	78		X	PPT		MAP 3-1	4				Y	HACKAMORE RD	7/19/2012	11280	11281	MHN090024	MHN100046	D/S	2882	SPN090022	8	VCP			330	332.4
5	1_Severe	80			PPT		Map 1 May	7				Y	VANGUARD AVENUE	5/16/2012	7339	7340	MHF090002	MHG090028	D/S	1480	SPG090041	8	VCP			152	148.4
5	1_Severe	81		X	PPT		MAP 3-1	1				Y	ALLEN DR	7/19/2012	11277	11281	MHN100045	MHN100046	D/S	2879	SPN100031	8	VCP			280	242.7
3	2_Major	4			PPT		6	6				Y	HAZARD	4/12/2007	7272	7273	MHN190001	MHN190002	D/S	316	SPN190001	10	VCP			362	359
1	2_Major	6				17		3				x	10930 Grove St.	3/5/2004			MHO120013	MHO120014	DS		SPO120012	8	VCP	3		500	500
1	2_Major	7				44		21				x	13121 Coast St.	4/27/2004	7106	13418	MHJ130025	MHJ140005	DS	772	SPJ130024	10	VCP	4		191	658
1	2_Major	8				45		26				x	9820 Garden Grove Blvd.	5/4/2004	10776	11081	MHM130038	COM130002	DS	2342	SPM130024	6	VCP	3		299	299
1	2_Major	9				45		23	45		33	x	11262 Garden Grove Blvd.	5/4/2004			MHP130002	MHP130001	US		SPP130002-B	10	VCP	3		332	332
2	2_Major	9					M011	6				Y	ROBERT LN	8/25/2005	13144	13117	MHQ080046	MHQ080047	D/S	5856	SPQ080056	8	VCP			157	152.4
1	2_Major	10				45		18					9916 Garden Grove Blvd.	4/30/2004			MHM130002	MHM130003	DS		SPM130001	10	VCP			331	331
1	2_Major	11		X		14		18	14		19	x	10222 Russell	3/2/2004	11309	11311	MHN140026	MHN140028	DS	2907	SPN140015	6	VCP	2		365	367
2	2_Major	11					G046	10				Y	VOLKWOOD ST	10/10/2005			MHS100042	MHS100007	D/S		SPS100024	8	VCP			321	320.8
1	2_Major	12				43		11				x	8062 Garden Grove Blvd./Motel	4/22/2004	0	7110	MHJ130027	MHJ130028	DS	6835	SPJ130027	8	VCP	3		315	313
2	2_Major	12					G046	9				Y	VOLKWOOD ST	10/10/2005			MHS100041	MHS100042	D/S		SPS100023	8	VCP			342	341.8
1	2_Major	13		X		11		27	12		1	x	13115 Pleasant St.	2/26/2004	11092	11094	MHO130021	MHO130023	DS	2351	SPO130019	6	VCP	3		360	371

Structural Defect Coding

Phase	Priority	Ranking	Crack (C) L	Crack C	Crack M	Crack S	Crack H	Fracture (F) L	Fracture C	Fracture M	Fracture S	Fracture H	Broken (B) SV	Broken VV	Hole (H) SV	Hole VV	Joint (J) O S	Joint O M	Joint O L	Joint S S	Joint S M	Joint S L	A	Deformed (D) V	Deformed H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
5	1_Severe	38	20		17			1		22			1																		514C	61	187	3.07
5	1_Severe	39	6	1	2		1	42		6		7		1																	514A	66	209	3.17
5	1_Severe	40	28	10	26		2	4	2	13		1		1																	514A	87	235	2.70
5	1_Severe	41	6	8	47					6				1				2			1								1		5146	72	199	2.76
5	1_Severe	42	2	1	5			2		2				1				4											3		5145	20	57	2.85
5	1_Severe	43	3	1						3				1				2													5143	10	30	3.00
5	1_Severe	44	8	3	7				7			2				1															5142			
5	1_Severe	45	4	2	7		1			1					1																5141	16	47	2.94
5	1_Severe	46	1							1				1													2				5141	5	15	3.00
5	1_Severe	48								1				1																	5141	2	9	4.50
5	1_Severe	49			2								1																		5132	3	11	3.67
5	1_Severe	50		1									1																		5111	2	6	3.00
5	1_Severe	52	6	5	16		3		2					1				2													513C	35	101	2.89
5	1_Severe	53		1					3					1																	5123	5	12	2.40
5	1_Severe	54								1				1																	5141	2	9	4.50
5	1_Severe	55	3	1	13					8		2		1																	514A	28	91	3.25
5	1_Severe	56	2	1	22		1	9		77		5																			4N3E	117	433	3.70
5	1_Severe	57	5	3	23		6	4	2	75		4																			4N3D	122	456	3.74
5	1_Severe	58	4	2	1			25	3	62																					4K3D	97	342	3.53
5	1_Severe	59	27	4	12			1	10	42																					4G3A	96	285	2.97
5	1_Severe	60	3	1	7			7	7	50		7																			4J3A	82	291	3.55
5	1_Severe	61	8	5	27		2		2	33		5																			4F3D	82	272	3.32
5	1_Severe	62	11	7	21		2	5	4	28		2																			4E3D	80	249	3.11
5	1_Severe	63	21	2	11		3	10		18		12																			4E3C			
5	1_Severe	64	2		1			56		15		10																			4D3J	84	275	3.27
5	1_Severe	65	3	4	16		3	2	1	27	5																				4D3D	61	210	3.44
5	1_Severe	66	3	1	2			22		23		5																			4D3C			
5	1_Severe	67	15	5	6		7	10	4	20		7																			4D3B	74	248	3.35
5	1_Severe	68	10	15	35		2		2	24																					4C3F	88	254	2.89
5	1_Severe	69	20	9	12		8	2	3	10		6																			4C3C			
5	1_Severe	70	16	15	40		1	1	6	21		1																			4C3B	101	277	2.74
5	1_Severe	72	9	3	22		8	5	4	16		3																			4B3F	70	242	3.46
5	1_Severe	73		15	57				1	12								5											1	12	4A3J	103	277	2.69
5	1_Severe	75	5	3	16		8	2		11		1																			4A3D	46	171	3.72
5	1_Severe	76	23	8	18			6	2	14																					4A3C	71	186	2.62
5	1_Severe	77	24	17	18		1	6		13		1																			4A3C	80	200	2.50
5	1_Severe	78	19	20	18		3	4	6	7		3															3				4A3C	83	203	2.45
5	1_Severe	80	2	3	7			10		10		4																			4A3B	36	114	3.17
5	1_Severe	81	11	9	13	1	1	6	8	7		7																			4A3B	63	169	2.68
3	2_Major	4								2																						2	8	4.00
1	2_Major	6		1	9																									146			304	3.13
1	2_Major	7	1	3	1																									57			107	3.57
1	2_Major	8			1				2									1												45			95	2.44
1	2_Major	9	1	8	4																									29			73	2.03
2	2_Major	9		1										1																		2	6	
1	2_Major	10			1				1																					18			40	3.64
1	2_Major	11			1					1							14	6															39	2.79
2	2_Major	11																												93		93	186	
1	2_Major	12	6						1																					12			38	2.00
2	2_Major	12	1															1												90		92	185	
1	2_Major	13		3					1	1							1	2															13	2.60

Operational and Maintenance

Phase	Priority	Ranking	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots (R) Fine (F) B	Fine L	Fine J	Fine C	Tap (T) B	Tap L	Tap J	Tap C	Medium (M) B	Medium L	Medium J	Medium C	Ball (B) B	Ball L	Ball J	Ball C	Infiltration (I) G	Infiltration D	Infiltration R	Infiltration W	Obstacles (OB) Other C	Obstacles Other Z	Obstacles Other %	Vermin (V) C	Vermin R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
5	1_Severe	38																																	0000	0	0	0.00
5	1_Severe	39	17					5																									1		2C11	23	49	2.13
5	1_Severe	40						0				7							1				2										2		4231	12	20	1.67
5	1_Severe	41						32																									2		312E	35	72	2.06
5	1_Severe	42						59				29																					1		312J	90	154	1.71
5	1_Severe	43																															1		1100	1	1	1.00
5	1_Severe	44	62																														1		2K00	63	125	1.98
5	1_Severe	45	52								2																						8		0000	62	114	1.84
5	1_Severe	46		1				19																									1		2C11	21	53	2.52
5	1_Severe	48																																	5100	1	5	5.00
5	1_Severe	49	45																																2H00	45	90	2.00
5	1_Severe	50						57											1																312J	58	117	2.02
5	1_Severe	52										1																					11		0000	12	12	4.00
5	1_Severe	53						26				13	1																				3		413B	43	68	1.58
5	1_Severe	54																															2		2412	6	10	1.67
5	1_Severe	55						50				2																					10		2I1A	62	112	1.81
5	1_Severe	56	96					0																									3		2S13	99	195	1.97
5	1_Severe	57	131					0																									9		0000	140	271	1.94
5	1_Severe	58						43																									1		2G00	44	87	1.98
5	1_Severe	59											1								2												2		3213	5	8	1.60
5	1_Severe	60						90																											2R00	90	180	2.00
5	1_Severe	61						91																											2R00	91	182	2.00
5	1_Severe	62																																	0000	0	0	0.00
5	1_Severe	63		30																															2F00			
5	1_Severe	64						16																									3		2B13	19	35	1.84
5	1_Severe	65	11					0																									4		2A14	15	26	1.73
5	1_Severe	66						112																				1							422V			
5	1_Severe	67																															1		1100	1	1	1.00
5	1_Severe	68						6																									1		2611	7	13	1.86
5	1_Severe	69	60	98																															2Z00			
5	1_Severe	70						10				1																					2		2A13	14	29	2.07
5	1_Severe	72						14																											2A00	14	28	2.00
5	1_Severe	73	78					15																									42		322R	138	244	1.77
5	1_Severe	75																																	0000	0	0	0.00
5	1_Severe	76		59																													1		2J11	60	119	1.98
5	1_Severe	77						7																									3		2713	10	17	1.70
5	1_Severe	78						6																									6		2616	12	18	1.50
5	1_Severe	80																															4		1400	4	4	1.00
5	1_Severe	81																															1		1100	1	1	1.00
3	2_Major	4																													1	5				6	4	4.00
1	2_Major	6	15							162					1				1				4														88	1.76
1	2_Major	7	25							6								1																			3	0.05
1	2_Major	8																																			0	0.00
1	2_Major	9						30	20.00																								4				0	0.00
2	2_Major	9	47	33	5.00																															80	160	
1	2_Major	10																																			2	0.16
1	2_Major	11	25																											2		5					25	0.16
2	2_Major	11	106								2	18																								126	232	
1	2_Major	12								11				11					3				1														0	0.00
2	2_Major	12	1	100	5.00	2	5.00				1																									104	207	
1	2_Major	13								21									1																		0	0.00

Construction Features and Recommendations

Phase	Priority	Ranking	Tap (Lateral) (T) FD	Tap FL	Tap BI	Tap BD	Line (L) D	Line L	Line U	Line R	Line LD	Line RD	Intruding Seal Material (IS) SRH	IS SRB	IS SRL	IS Z	Miscellaneous (M) SA	M CU	M MC	Total Construction Features	Reasons for Survey Aband	GIS Identified Abandoned	Repair Description	Comments	Recommendations
5	1_Severe	38																					Encased main in concrete for future lining.	273.3' BSV, Fractures & Cracks. Severe Defect	Replace Pipe 273.3' to 276' & Reline Pipe
5	1_Severe	39	2																					174.2' Small BVV, Fractures. Severe Defect	Patch Repair BVV & Reline Pipe
5	1_Severe	40																						387.6' BVV, Close to Ending MH. Severe Defect	Replace Pipe 387.6' to 391' & Reline Pipe
5	1_Severe	41			1																			50.2' Small BVV. Cracks & fractures. Severe Defect. @ 181' Unmarked MH	Patch Repair 50.2' & Reline Pipe
5	1_Severe	42			1																			221.4' BVV (Missing Pipe) Severe Defect	Replace Pipe221.4' to 224'
5	1_Severe	43																						2.8' BVV. Severe Defect. Ending MH was 8386. We checked GIS & Changed it.	Replace Pipe 0' to6'
5	1_Severe	44																						257.5' HVV. Severe Defect	Replace Pipe 254.5' to 257.5'
5	1_Severe	45																						234.5' HSV. Severe Defect	Replace Pipe 234.5' to 237.5'
5	1_Severe	46					1	3		2							1							82.8' MSA (DAZ). 14.8' BVV. Severe Defect No Reversal Video)	Replace Pipe 14' to 17'
5	1_Severe	48			1												2							22.8' BVV. Severe Defect. Lateral @ 81.5 plugged 50 % .Inspection Completed	Replace pipe 19' to 24' & Clean lateral @ 81.5'
5	1_Severe	49																						19.5' BSV. Severe Defect	Replace Pipe 19.5' to 22.5'
5	1_Severe	50																						19' BSV , Missing Pipe. There is an another utility pipe inside the broken part. Severe Defect	Replace Pipe 17' to 20'
5	1_Severe	52																						55.4' BVV & JOM 55.4' & 58.5. Severe Defect	Replace pipe 55.4' to 58.5'
5	1_Severe	53																						235.7' BVV. Severe Defect	Replace Pipe 235.7' to 241'
5	1_Severe	54								4														274.5' BVV. Severe Defect. End of the Sever Lane	Replace Pipe 270' to 277'
5	1_Severe	55																						2.12' BVV. Severe Defect. Laterals at 186.7', 228.04', 288.10', 352.5', 373.3' over 50 % deposits.	Replace Pipe 0 to 3' laterals should be cleaned by Home owners
5	1_Severe	56																						Too Many Fractures & Cracks. Severe Defect. Laterals at 199.6', 272' & 340.8' have over 50% Grease.	Reline Pipe & Clean Grease by Home Owner
5	1_Severe	57																						Too Many Fractures & Cracks. Severe Defect. Laterals at 115.9', 184.5' , 244.7', 313.2' & 385.3' have over 50% Grease.	Reline Pipe & Clean Grease by Home Owner
5	1_Severe	58																						Continuous Cracks & Fractures. Severe Defect	Replace Pipe or Reline
5	1_Severe	59																						Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
5	1_Severe	60																						Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
5	1_Severe	61																						Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
5	1_Severe	62																						Cracks & too many Fractures . Severe Defect	Replace Pipe or Reline
5	1_Severe	63																						Continuous Fractures & Cracks. Severe Defect	Reline Pipe
5	1_Severe	64																						Continuous Fractures & Cracks. Severe Defect	Reline Pipe
5	1_Severe	65																						Continuous Fractures & Cracks. Severe Defect	Should Reline
5	1_Severe	66																						Continuous Fractures & Cracks. All Joints have DAE. Severe Defect	Clean Deposits & Reline Pipe
5	1_Severe	67																						Cracks & Fractures. Severe Defect.	Reline Pipe
5	1_Severe	68																						Cracks & Fractures. Severe Defect	Reline Pipe
5	1_Severe	69																						Continuous Fractures & Cracks. Severe Defect	Reline Pipe
5	1_Severe	70				1																		Cracks & Fractures. Severe Defect. Also 152' Tap Break Defective, Broken Pipe piece in the Lateral	Reline Pipe. TBD should be fixed by Home owner
5	1_Severe	72																						Too Many Crack & Fracture. Severe Defect	Reline Pipe
5	1_Severe	73			2					1														Cracks & Fractures. Severe Defect	Should Reline
5	1_Severe	75																						Too Many Crack & Fracture. Severe Defect	Reline Pipe
5	1_Severe	76																						Cracks & Fractures . Severer Defect	Reline Pipe
5	1_Severe	77																						Cracks & Fractures. Severe Defect	Reline Pipe
5	1_Severe	78																						Cracks & Fractures. Severe Defect	Reline Pipe
5	1_Severe	80																						Continuous Fractures & Cracks. Severe Defect	Reline Pipe
5	1_Severe	81																						Cracks & Fractures. Severe Defect	Reline Pipe
3	2_Major	4																							Spot repair at 14.30 ft FM and 245.60 ft FM. Clean pipe.
1	2_Major	6																6							Replace pipe
1	2_Major	7																							Replace pipe
1	2_Major	8					1																		Replace pipe
1	2_Major	9															2				DS Z debris sag				Replace pipe
2	2_Major	9																						98.1' MINOR BROKEN PIPE (VV)	
1	2_Major	10																							Replace pipe
1	2_Major	11			3	1											2				OB Z cement				Replace pipe
2	2_Major	11																						2 SAGS, HIGH FLOW	
1	2_Major	12																19							Replace pipe
2	2_Major	12																						3 SAGS, 6' (D/SL) JOM, HIGH FLOW	
1	2_Major	13	1				1										2				LL 10 deg, Dropped MH				Replace pipe

General

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location: Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
1	2_Major	14				32		10				x	10000 Garden Grove Blvd.	4/1/2004			MHM130001	MHM130002	DS		SPM130029	10	VCP	4		314	314
1	2_Major	16				46		6				x	13371 Cypress St.	5/6/2004			MHO140010-A	MHO140012-A	DS		SPO140048	8	VCP			5	5
1	2_Major	19		X		8		20					12635 Main St.	2/18/2004	11771	11772	MHO110004	MHO110005	DS	4791	SPO110004	8	VCP			307	195
2	2_Major	20					G030	5					CHAPMAN AV	8/29/2005	13117	13118	MHQ090047	MHQ090048	D/S	6274	SPQ090059	12	VCP			265	258.5
2	2_Major	22					R064	5				Y	EASEMENT	12/5/2005	6737	6738	MHS130004	MHS130005	D/S	558	SPS130014	8	VCP			382	383.0
2	2_Major	23					R052	1				Y	CHAPMAN AV	11/3/2005	12984	12985	MHQ090059	MHQ090060	D/S	6279	SPQ090008	18	VCP			400	405.1
2	2_Major	24					G027	8				Y	TIMMY LN	8/23/2005	13078	13079	MHR080006	MHR080007	D/S	5643	SPR080018	8	VCP			241	242.1
2	2_Major	27					G048	6					VOLKWOOD ST	10/17/2005			MHS110011	MHS110012	D/S		SPS110009	8	VCP			335	334.7
5	2_Major	82			PPT		MAP 3-B3-2	13				Y	CENTRAL AVENUE	8/10/2012	11176	11193	MHO140002	MHO140005	D/S	2492	SPO140033	6	VCP			320	328.4
5	2_Major	83		X	PPT		MAP 3-5	19				Y	ACACIA PARKWAY/ALLEY	7/27/2012	11843	11842	MHO120017	MHO120016	U/S	6926	SPO120014	8	Clay Tile			310	306
5	2_Major	84			PPT		MAP 3-B3-5	29				Y	PARTRIDGE ST	8/29/2012	6700	6699	MHS130024	MHS130023	U/S	524	SPS130009	8	VCP			128	128.4
5	2_Major	85			PPT		MAP 3-B3-1	30				Y	8TH STREET	8/1/2012	11419	11410	MHP110035	MHP120004	D/S	5273	SPP110021	6	Clay Tile			325	325.2
5	2_Major	86			PPT		MAP 2-2-2	3				Y	MOEN STREET	7/2/2012	8569	8570	MHJ070007	MHJ070008	D/S	2068	SPJ070008	8	Clay Tile			111	108.7
5	2_Major	87			PPT		MAP 3-B3-1	11				Y	STANFORD AVENUE	8/3/2012	11025	11026	MHP120025	MHP120026	D/S	5140	SPP120018	8	VCP			334	329.5
5	2_Major	88			PPT		June Map 1	5				Y	KNOTT STREET	6/7/2012	8163	8164	MHG090050	MHG100011	D/S	1682	SPG090002	10	VCP			408	412.8
5	2_Major	89			PPT		June Map 1	22				Y	KNOTT STREET	6/27/2012	8141	8142	MHH120008	MHG120029	D/S	918	SPH120008	8	Clay Tile			427	424.8
5	2_Major	90			PPT		MAP 4-B1-5	17				Y	11th STREET	9/19/2012	6907	6925	MHM180005	MHN180005	D/S	527	SPM180005	8	VCP			283	282.6
5	2_Major	92			PPT		MAP 3-B2-6	10				Y	CHAPMAN AVE	8/30/2012	12245	12244	MHT090029	MHU090001	U/S	6027	SPT090020	10	VCP			320	296.8
5	2_Major	93			PPT		Map 1 May	16				Y	FAIRCHILD STREET	5/17/2012	7836	7840	MHE080024	MHE080027	D/S	986	SPE080004	8	VCP			260	257.1
5	2_Major	94			PPT		MAP 4-B1-5	2				Y	HARBOR BLVD	9/26/2012	7548	7549	MHR160020	MHR160021	D/S	571	SPR160022	8	VCP			71	228
5	2_Major	95			PPT		June Map 1	20				Y	BELGRAVE AVE	6/27/2012	7776	7786	MHE090020	MHE090015	D/S	1409	SPE090035	8	VCP			350	353.3
5	2_Major	96			PPT		Map 1 May	8				Y	VANGUARD AVENUE	5/16/2012	7340	7341	MHG090028	MHG090029	D/S	1481	SPG090042	8	VCP			227	225.7
5	2_Major	97			PPT		MAP 3-B2-2	3				Y	HOLYOAK LANE	8/16/2012	13034	13035	MHR080008	MHR080009	D/S	6562	SPR080005	8	VCP			345	353.8
5	2_Major	98			PPT		MAP 3-B2-2	1				Y	HOLYOAK LANE	8/16/2012	13034	13033	MHR080008	MHR070004	U/S	6561	SPR080004	8	VCP			325	343.9
5	2_Major	101		X	PPT		MAP 3-6	17				Y	WESTLAKE STREET	7/26/2012	11834	11835	MHO120007	MHO120008	D/S	5397	SPO120006	8	Clay Tile			336	336.1
5	2_Major	102			PPT		MAP 1	8				Y	VANGUARD AVENUE	5/11/2012	8280	8281	MHG090019	MHG090020	D/S	1067	SPG090020	8	VCP			246	245
5	2_Major	103			PPT		MAP 3-B3-4	32				Y	LEMONWOOD LANE	8/28/2012	10902	10903	MHQ130022	MHQ130023	D/S	4461	SPQ130026	8	VCP			205	201.1
5	2_Major	104			PPT		MAP 3-5	13				Y	LAW DRIVE	7/24/2012	11270	11229	MHN100042	MHN100009	D/S	2922	SPN100033	8	Clay Tile			280	271.6
5	2_Major	105			PPT		MAP 3-B3-1	24					LAMPSON AVENUE	8/2/2012	12585	12586	MHP110020	MHP110021	D/S	5087	SPP110012	6	Clay Tile			130	124.6
5	2_Major	106			PPT		MAP 3-B2-5	11				Y	FIREBRAND STREET	8/27/2012	12729	12730	MHS090018	MHS090019	D/S	6508	SPS090004	8	VCP			269	273.5
5	2_Major	107			PPT		MAP 3-B2-2	2				Y	HOLYOAK LANE	8/16/2012	13035	13036	MHR080009	MHR080010	D/S	6563	SPR080006	8	VCP			265	256.5
5	2_Major	108			PPT		MAP 3-B2-5	10				Y	FIREBRAND STREET	8/27/2012	12730	12731	MHS090019	MHS090020	D/S	6509	SPS090005	8	VCP			270	271.3
5	2_Major	111			PPT		MAP 2 July-1	14				Y	DALE STREET	6/21/2012	8047	8513	MHK070049	MHK070043	D/S	1901	SPK070030	8	VCP			358	367
5	2_Major	112		X	PPT		MAP 3-1	5				Y	HACKAMORE RD	7/20/2012	11278	11279	MHN090022	MHN090023	D/S	2880	SPN090020	8	VCP			350	355.4
5	2_Major	113			PPT		June Map 2 B1	68				Y	KATELLA AVE	6/14/2012	7983	7984	MHK050046	MHJ050001	D/S	1839	SPK050026	8	VCP			225	228.4
5	2_Major	114	2012-07-31		PPT		MAP 4-B2-2	22				Y	ALLEY	9/12/2012	7004	6993	MHK160016	MHK160038	D/S	334	SPK160028	8	VCP			264	262.5
5	2_Major	115		X	PPT		MAP 3-B5	22				Y	NELSON STREET	9/6/2012	12263	12264	MHO120019	MHO130006	D/S	3024	SPO120017	6	VCP			150	200
5	2_Major	116			PPT		MAP 2-1-2	7				Y	LANAKILA LN	7/10/2012	10752	10753	MHM110037	MHM110038	D/S	2670	SPM110026	8	VCP			240	241.6
5	2_Major	117		X	PPT		MAP 2-1-4	17				Y	FAYE AVE	7/18/2012	11274	11275	MHN090019	MHN090020	D/S	2876	SPN090017	8	VCP			270	272.3
5	2_Major	118		X	PPT		MAP 3-B3-1	26				Y	8TH STREET	8/2/2012	11413	10874	MHP120008	MHP130031	D/S	5278	SPP120007	8	Clay Tile			331	328
5	2_Major	119			PPT		MAP 3-B5	29				Y	GARDEN GROVE	9/5/2012	11014	11018	MHP130008	MHP130013	D/S	4449	SPP130031	10	VCP			50	330.1
5	2_Major	120			PPT		June Map 2 B1	2				Y	PARADE STREET	6/4/2012	9295	9296	MHM990026	MHM990027	D/S	3447	SPM990025	8	VCP			300	303.2
4	3_Moderate	1					P COUNTY	1				Y	MARKEV	10/8/2007	9643	9644	MHL040021	MHL040024	U/S	5523	SPL040024	8	VCP			333	342.8
4	3_Moderate	2					P COUNTY	3				Y	MARKEV	10/8/2007	9642	9641	MHL040020	MHL040019	U/S	5518	SPL040019	8	VCP			254	249.7
4	3_Moderate	3					3	2204				Y	COLCHESTER	6/19/2006	9312	9311	MHM000011	MHM000010	U/S	3461	SPM000004	8	VCP			83	79.6
4	3_Moderate	4					P COUNTY	3				Y	MARKEV	10/8/2007	9643	9642	MHL040021	MHL040020	U/S	5519	SPL040020	8	VCP			243	256.6
3	3_Moderate	5			PPT		33	32					ORANGEWOOD	8/14/2007	9656	9919	CON060005	MHN060005	D/S	4876	SPN060033	8	VCP			140	139
4	3_Moderate	5					P COUNTY	11				Y	BROOKHURST ALLEY	10/9/2007	9274	9273	MHM030031	MHM030030	U/S	4371	SPM030006	8	VCP			230	227.8
3	3_Moderate	6			GGSD		30	1041				Y	FAIRCHILD	1/31/2005	7845	7846	MHD080017	MHD080021	U/S	987	SPD080001	8	VCP			258	255
4	3_Moderate	6					7	2268				Y	HARRIET LN	8/14/2006	9219	9223	MHM020029	MHM020033	U/S	3592	SPM020025	8	VCP			300	296.2
3	3_Moderate	7			GGSD		32	1062				Y	MANLEY	2/9/2005	8632	8633	MHD090010	MHD090011	D/S	1924	SPD090009	8	VCP			259	260
4	3_Moderate	7					7	2267				Y	HARRIET LN	8/14/2006	9223	9222	MHM020033	MHM020032	U/S	3591	SPM020024	8	VCP			300	298.0
3	3_Moderate	8			GGSD		32	1074				Y	BELGRAVE	2/17/2005	8644	8645	MHD090023	MHD090024	D/S	1713	SPD090021	12	VCP			169	166

Structural Defect Coding

Phase	Priority	Ranking	Crack C L	Crack C C	Crack C M	Crack C S	Crack C H	Fracture F L	Fracture F C	Fracture F M	Fracture F S	Fracture F H	Broken B SV	Broken B VV	Hole H SV	Hole H VV	Joint J O S	Joint J O M	Joint J O L	Joint J S S	Joint J S M	Joint J S L	Joint J A	Deformed D V	Deformed D H	Collapsed Pipe X P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags WL S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
1	2_Major	14							1									1															3	3.00
1	2_Major	16																1															3	3.00
1	2_Major	19		37																													32	1.00
2	2_Major	20		1	1					1																				33		36	74	
2	2_Major	22	2	4	2					1																				24		33	66	
2	2_Major	23																												32		32	64	
2	2_Major	24	3	3	3				2	10																						21	62	
2	2_Major	27																												22		22	44	
5	2_Major	82	7	2	5			16		9		2		1																	514A	42	128	3.05
5	2_Major	83	2	1	18					4				1																	5144	26	80	3.08
5	2_Major	84	3	1	3					3				1																	5143	11	33	3.00
5	2_Major	85	2	8	18			1		2				1				1									13				5142	46	111	2.41
5	2_Major	86	1							1				1																	5141	3	11	3.67
5	2_Major	87	4	3	25			1		1				1				2									3				5141	40	110	2.75
5	2_Major	88								1				1				2												2	5141			
5	2_Major	89								1			1																		5141	2	9	4.50
5	2_Major	90	1	5	3									1				1													5134	11	24	2.18
5	2_Major	92												1				1													5131	2	8	4.00
5	2_Major	93												1				1													5131	2	8	4.00
5	2_Major	94		1										1																	5111	2	6	3.00
5	2_Major	95											1																		5100	1	5	5.00
5	2_Major	96						1		38																					4F31	39	155	3.97
5	2_Major	97	24	4	9		1	13		23		2																			4D3C	76	225	2.96
5	2_Major	98	23	2	7			24	1	15		7																			4C3E	79	231	2.92
5	2_Major	101	4	4	46			1	1	17																			1		4B3H	74	225	3.04
5	2_Major	102	5	2	10		1	14	3	18	1																				4B3D	54	172	3.19
5	2_Major	103	6		1		1	18		15		2																			4B3C	43	144	3.35
5	2_Major	104	10	2	7		2	7	1	13																					4B3B	42	132	3.14
5	2_Major	105			3					18																					4B33	21	81	3.86
5	2_Major	106	15	3	24		4	1	1	13																					4A3D	61	190	3.11
5	2_Major	107	4	8	19		1	4		9		1																			4A3C	46	132	2.87
5	2_Major	108	14	4	21		5	1		10																					4A3D	55	173	3.15
5	2_Major	111	9	28	15			1	8	9																					493B	70	146	2.09
5	2_Major	112	15	15	34		4	3	3	8																					483F	82	222	2.71
5	2_Major	113	17	11	11		8																								483A			
5	2_Major	114	20	3	9		1	11		5																					453C	49	130	2.65
5	2_Major	115		7	61					4								2												7	443K	81	226	2.79
5	2_Major	116	8	12	16		1	2	3	3																					433B	45	107	2.38
5	2_Major	117	28	6	20	1	6		1	2																					423D	64	176	2.75
5	2_Major	118	4	6	60					1																					413K	71	198	2.79
5	2_Major	119	6	15	49					1																					413H	71	178	2.51
5	2_Major	120	10	4	2		3							1																	4133	20	56	2.80
4	3_Moderate	1		1														7														8	22	2.75
4	3_Moderate	2		1														6														7	19	2.71
4	3_Moderate	3																5														5	15	3.00
4	3_Moderate	4	2															4														6	16	2.67
3	3_Moderate	5		1				1	1																							3	6	2.00
4	3_Moderate	5																3														3	9	3.00
3	3_Moderate	6																												12		12	24	2.00
4	3_Moderate	6	41	1	3																											45	92	2.04
3	3_Moderate	7																												20		20	40	2.00
4	3_Moderate	7	25	2	7			3																								37	82	2.22
3	3_Moderate	8							1																							1	2	2.00

Operational and Maintenance

Phase	Priority	Ranking	Deposits D AGS	Deposits AE B	Deposits AE B %	Deposits AE L	Deposits AE L %	Deposits Other Z	Deposits Other %	Roots Fine (F) B	Roots Fine (F) L	Roots Fine (F) J	Roots Fine (F) C	Roots Tap (T) B	Roots Tap (T) L	Roots Tap (T) J	Roots Tap (T) C	Roots Medium (M) B	Roots Medium (M) L	Roots Medium (M) J	Roots Medium (M) C	Roots Ball (B) B	Roots Ball (B) L	Roots Ball (B) J	Roots Ball (B) C	Infiltration I G	Infiltration I D	Infiltration I R	Infiltration I W	Obstacles OB Other C	Obstacles OB Other Z	Obstacles OB Other %	Vermin V C	Vermin V R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
1	2_Major	14	34																														2				79	2.65
1	2_Major	16																																			0	0.00
1	2_Major	19								1																											0	0.00
2	2_Major	20	1					1	5.00																						1	20				3	9	
2	2_Major	22	23			6	80.00				2	7																								38	67	
2	2_Major	23																													1	5				1	4	
2	2_Major	24		16	5.00					1		9																								26	43	
2	2_Major	27	3									9	1																							13	16	
5	2_Major	82	77					0				7																							2N17	84	161	1.92
5	2_Major	83	6					15				2																							322C	25	54	2.16
5	2_Major	84										11	1										1	1											4222	16	27	1.69
5	2_Major	85						33				3																							412E	37	75	2.03
5	2_Major	86						32				1	1								1														312E	35	68	1.94
5	2_Major	87						30																									14		2B1A	44	77	1.75
5	2_Major	88	2																																2200	2	4	2.00
5	2_Major	89										1																					12		0000	13	13	1.00
5	2_Major	90																			2												1		3211	3	7	2.33
5	2_Major	92						97																									9		2S1A	106	205	1.93
5	2_Major	93																																	0000	0	0	0.00
5	2_Major	94						10				17								1			1												4131	29	44	1.52
5	2_Major	95		5																															2500	5	10	2.00
5	2_Major	96						44																											2I00	44	88	2.00
5	2_Major	97	4					0			1	5																					4		241A	14	18	1.29
5	2_Major	98						14																											2A00	14	28	2.00
5	2_Major	101	56	1				32																									9		2P19	98	187	1.91
5	2_Major	102		17				1					1								3												4		332B	27	53	1.96
5	2_Major	103										2																							0000	2	2	1.00
5	2_Major	104	10																														2		2A12	12	22	1.83
5	2_Major	105																																	3100	1	3	3.00
5	2_Major	106										5							2		1		1												4133	9	18	2.00
5	2_Major	107						32				6							1				1										2		4131	42	79	1.88
5	2_Major	108									1	1								2													5		3217	9	13	1.44
5	2_Major	111						72															1												412M	73	148	2.03
5	2_Major	112	13					6																									4		2B14	23	42	1.83
5	2_Major	113						1																											2100	1	2	2.00
5	2_Major	114										7											1												4117	8	11	1.38
5	2_Major	115						25				4							1				1										2		4231	35	73	2.09
5	2_Major	116						5				4								1															3125	10	17	1.70
5	2_Major	117		6																													3		2631	9	15	1.67
5	2_Major	118						31																											312E	33	74	2.24
5	2_Major	119																															2		1200	2	2	1.00
5	2_Major	120		10																													10		2M00	20	30	1.50
4	3_Moderate	1																													1	10	5			6	9	1.50
4	3_Moderate	2									1	2											1										3			7	10	1.43
4	3_Moderate	3	25																														12			37	62	1.68
4	3_Moderate	4																	1																	1	3	3.00
3	3_Moderate	5																																		0	0	0.00
4	3_Moderate	5										6								1													7			14	16	1.14
3	3_Moderate	6						14																												14	42	3.00
4	3_Moderate	6	97	21																																118	236	2.00
3	3_Moderate	7																															1			1	1	1.00
4	3_Moderate	7	95	42						1																							1			139	277	1.99
3	3_Moderate	8	32																																	32	64	2.00

Construction Features, Comments and Recommendations

Phase	Priority	Ranking	Tap (Lateral) T FD	Tap (Lateral) T FL	Tap (Lateral) T BI	Tap (Lateral) T BD	Line L D	Line L L	Line L U	Line L R	Line L LD	Line L RD	Intruding Seal Material IS SRH	Intruding Seal Material IS SRB	Intruding Seal Material IS SRL	Intruding Seal Material IS Z	Miscellaneous M SA	Miscellaneous M CU	Miscellaneous M MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
1	2_Major	14															1				JOM				Replace pipe
1	2_Major	16					1										1				LL 45 deg, JOM				Replace pipe
1	2_Major	19																							Reline
2	2_Major	20																						OBZ= OBS, BUILT INTO STRUCTURE POSITION.	
2	2_Major	22																							
2	2_Major	23																							
2	2_Major	24																						CONTINUOUS FRACTURE MULTIPLE	
2	2_Major	27																						SAG	
5	2_Major	82																						56.4' Small BVV. Major Defect	Patch Repair
5	2_Major	83	1		1																			198.1' BVV. Major Defect. Also Laterals @ 61.7' & 139.4' 75% full of Grease	Patch Repair BVV & clean Laterals
5	2_Major	84			2												1							60.3' BVV. 128.4' MSA (RBJ). No Reversal Video. Major Defect.	Patch Repair 184.3' , Cut & Clean RBJ
5	2_Major	85			1																			80.7' BVV. Major Defect. Ending MH was 11420. We checked GIS & changed it.	Patch Repair
5	2_Major	86																						0' Small BVV. Major Defect	Patch Repair
5	2_Major	87			1																			316' Small BVV. Major Defect	Patch Repair
5	2_Major	88																						327.6' BVV. Major Defect	Patch Repair
5	2_Major	89																						336.9' BSV. Major Defect	Patch Repair
5	2_Major	90																						176.7' Small BVV. Major Defect. Inspection Report shows JOL @ 176.7'. It was JOM & we changed it	Patch Repair
5	2_Major	92					1																	286.1' Small BSV. Major Defect	Patch Repair
5	2_Major	93																						254.3' BVV. End of the Sewer Lane. Major Defect	Patch Repair
5	2_Major	94																						7' Small BVV. Moderate Defect	Patch Repair
5	2_Major	95																						253.7' BSV. Major Defect	Patch Repair
5	2_Major	96																						Continuous Fractures & Cracks. Major Defect	Reline Pipe
5	2_Major	97																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	98																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	101																						Inspection Report shows 11' BVV. This is RPP (Patch Repair). Too Many Fractures & Cracks. Major Defect	Should Reline
5	2_Major	102	1																					Cracks & Fractures . Major Defect	Reline Pipe
5	2_Major	103																						Inspection Report shows 77.3' & 115.6' BVV. Those are FM and we changed them. Cracks & Fractures, Major Defect	Reline Pipe
5	2_Major	104																						Major	Reline Pipe
5	2_Major	105			1																			Major	Reline Pipe
5	2_Major	106																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	107																						Cracks & Fractures. Major Defect	Should Reline
5	2_Major	108																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	111																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	112																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	113																						Too many Cracks . Major Defect	Should Reline
5	2_Major	114																					Repaired cracked pipe at joint.	Fractures & Cracks. Major Defects.	Should Reline
5	2_Major	115			1			1																Too Many Crack. Major Defect	Reline Pipe
5	2_Major	116																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	117																						Cracks & Fractures. Major Defect	Reline Pipe
5	2_Major	118			2																			Cracks & Fractures. Major Defect	Should Reline
5	2_Major	119																						Too Many Crack. Major Defect	Reline Pipe
5	2_Major	120																						300.7' Small BVV, end of the Sewer Lane. Major Defect	Patch Repair
4	3_Moderate	1	2																	4				69.8', 96.8', 197.9', 253.8', 308.2', 314' & 329' JOM (D/SH)	Very small trib. Area. 7 JOM, downstream being higher. Not a high priority. No immediate action but shold be replaced when necessary.
4	3_Moderate	2																		0				303.7', 330.4', 426.3', 431.7', 438.2', 453.3' JOS (D/SH)	Very small trib. Area. 6 JOM, downstream being higher. Not a high priority. No immediate action but shold be replaced when necessary.
4	3_Moderate	3	1																	2				14.7',17.8',66',72' & 75' JOM (D/SH)	5 medium joint offsets. Very small trib. Area (3 laterals). No immediate action. Replace with other improvements in the area
4	3_Moderate	4																		0				10.6', 137.5', 246', 248.6', JOS (D/SH)	Very small trib. Area. 4 JOM, downstream being higher. Not a high priority. No immediate action but shold be replaced when necessary.
3	3_Moderate	5																							
4	3_Moderate	5																		0				79.3', 128.8' & 138.4' JOM (D/SH)	Spot repair JOM, root treat. Very small trib. area.
3	3_Moderate	6																							
4	3_Moderate	6																		0					Spot repair 229-243, reline
3	3_Moderate	7												3											
4	3_Moderate	7																		0					Spot repair several locations, reline. Very small trib. area.
3	3_Moderate	8																							

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
4	3_Moderate	8					11	2345				Y	PACIFIC	10/3/2006	8946	8947	MHM030010	MHM030011	D/S	3658	SPM030035	8	VCP			290	307.4
3	3_Moderate	9			GGSD		36	1169				Y	RICHMOND	5/12/2005	7835	7834	MHD100001	MHE100003	U/S	1420	SPE100039	8	VCP			382	381
4	3_Moderate	9					7	2267				Y	HARRIET LN	8/14/2006	9222	9221	MHM020032	MHM020031	U/S	3590	SPM020023	8	VCP			240	239.5
3	3_Moderate	10			GGSD		36	1169				Y	RICHMOND	5/12/2005	7961	7835	MHD100002	MHD100001	U/S	1933	SPD100024	8	VCP			381	378
4	3_Moderate	10					MIXED P COUNTY 1	12				Y	LULLABY LN	11/4/2007	9226	9220	MHM020036	MHM020030	D/S	3595	SPM020028	8	VCP			300	296.6
3	3_Moderate	11			GGSD		36	1170				Y	RICHMOND	5/12/2005	7962	7961	MHD100003	MHD100002	U/S	1538	SPD100001	8	VCP			381	379
4	3_Moderate	11					MIXED P COUNTY 1	3				Y	PACIFIC	11/15/2007	9272	9227	MHM030004	MHM030005	D/S	3596	SPM030012	8	VCP			415	214.6
3	3_Moderate	12			GGSD		36	1170				Y	RICHMOND	5/12/2005	7917	7962	MHD100017	MHD100003	U/S	1539	SPD100002	8	VCP			381	377
4	3_Moderate	12					MIXED P COUNTY 2	1				Y	POONA ALLEY	11/3/2007	9271	9269	MHM020038	MHM020035	D/S	4367	SPM020005	8	VCP			228	222.0
3	3_Moderate	13			GGSD		36	1172				Y	RICHMOND	5/12/2005	7917	7922	MHD100017	MHD100022	D/S	1562	SPD100016	8	VCP			254	252
4	3_Moderate	13					MIXED P COUNTY 1	13				Y	LULLABY LN	11/4/2007	9225	9226	MHM020035	MHM020036	D/S	3594	SPM020027	8	VCP			300	298.5
3	3_Moderate	14			PPT		50	18					VALLEY VIEW ST	12/20/2007	8811	8813	MHE080005	MHE080006	D/S	1615	SPE080012	8	VCP			350	343
4	3_Moderate	14					11	2333				Y	PACIFIC	9/27/2006	9227	9228	MHM030005	MHM030006	D/S	3597	SPM030013	8	VCP			297	291.5
3	3_Moderate	15			GGSD		P6	2					CHAPMAN	12/1/2007	8896	8895	MHE080020	MHE080019	U/S	1735	SPE080021	8	VCP			365	349
4	3_Moderate	15					11	2349				Y	PACIFIC	10/4/2006	8947	8944	MHM030011	MHL030039	D/S	3659	SPL030005	8	VCP			299	281.0
3	3_Moderate	16	2016-08-07		GGSD		34	1123				Y	BAILEY	4/12/2005	8907	8889	MHE080023	MHE080013	U/S	1549	SPE080017	8	VCP			316	298
4	3_Moderate	16					P COUNTY 3B	8				Y	GILBERT	10/16/2007	8955	8956	MHL040001	MHL040002	D/S	3667	SPL040002	10	VCP			273	269.8
3	3_Moderate	17			GGSD		30	1026				Y	BLACKMER	1/24/2005	7839	7838	MHE080026	MHE080025	U/S	1449	SPE080034	8	VCP			358	355
4	3_Moderate	17					1	1682				Y	STONYBROOK	3/15/2006	9163	9138	MHM990004	MHM990003	U/S	3637	SPM990017	8	VCP			262	255.0
3	3_Moderate	18			GGSD		30	1027				Y	SANTA BARBARA	1/24/2005	7839	7840	MHE080026	MHE080027	U/S	1450	SPE080035	8	VCP			289	244
4	3_Moderate	18					1	1722				Y	COLONY	3/15/2006	9164	9168	MHM990005	MHM990009	U/S	4384	SPM990012	8	VCP			323	319.9
3	3_Moderate	19			GGSD		35	1138					BELGRAVE ALLEY	4/21/2005	8905	8904	MHE090011	MHE090010	U/S	1396	SPE090033	8	VCP			362	359
4	3_Moderate	19					3	2192				Y	STONYBROOK	6/7/2006	9165	9164	MHM990006	MHM990005	U/S	4380	SPM990008	8	VCP			300	286.5
1	3_Moderate	20				27		8				x	9561 Stanford Ave.	3/22/2004	8451	8454	MHM120032	MHL120001	DS	3111	SPM120033	8	VCP	3		364	361
3	3_Moderate	20			GGSD		P1	2					ADAMS	8/22/2007	8935	7749	MHE110048	MHE120005	D/S	1361	SPE110019	8	VCP			200	33
4	3_Moderate	20					11	2345				Y	PACIFIC	10/3/2006	8945	8946	MHM030009	MHM030010	D/S	3657	SPM030034	8	VCP			290	282.9
1	3_Moderate	21		X		29		3	29		4		13100 Gilbert St.	3/25/2004	12053	12086	MHM130041	MHL130014	DS	2714	SPL130020	8	VCP			340	336
3	3_Moderate	21			GGSD		49	1583					CHAPMAN	11/4/2005	7354	7353	MHF090004	MHG090048	U/S	1175	SPF090002	8	VCP			353	252
4	3_Moderate	21					4	2221				Y	VANCOUVER	7/10/2006	9305	9284	MHM000003	MHL000002	D/S	3456	SPL000006	8	VCP			340	336.1
1	3_Moderate	22		X		27		3				x	9651 Garden Grove Blvd.	3/19/2004	12036	12039	MHM130008	MHM130009	DS	2744	SPM130033	8	VCP	3		365	360
3	3_Moderate	22			PPT		50	34					BELGRAVE EASEMENT	12/21/2007	8857	8858	MHF090041	MHF090042	D/S	1496	SPF090045	8	VCP			21	59
4	3_Moderate	22					MIXED 2	2451				Y	HARCOURT	12/19/2006	9013	9014	MHL040010	MHL050051	D/S	4923	SPL040010	8	VCP			306	318.7
1	3_Moderate	23				1		18				x	12201 Faye Ave.	2/4/2004	11276	11277	MNW23019	MNW23020	DS	2878	SPN090019	8	VCP	3		160	150
3	3_Moderate	23			GGSD		P4 A-1	3					TOPAZ	11/11/2007	8656	8657	MHF120011	MHF120012	D/S	1227	SPF120005	8	VCP			258	254
4	3_Moderate	23					11	2333				Y	PACIFIC	9/27/2006	9228	9229	MHM030006	MHM030007	D/S	3598	SPM030014	8	VCP			290	306.7
1	3_Moderate	24		X		23		2				x	Alley/G.G. Blvd.	3/15/2004	10773	10774	MHM130035	MHM130036	DS	2678	SPM130021	8	VCP	3		475	475
3	3_Moderate	24			GGSD		44	1521					WEAVER	10/6/2005	8301	8302	MHG080023	MHG080024	D/S	1096	SPG080021	8	VCP			192	187
4	3_Moderate	24					10	2323				Y	HARLE	9/22/2006	9237	9238	MHM030020	MHM030021	D/S	3607	SPM030023	8	VCP			330	350.4
1	3_Moderate	25				11		24				x	11000 Acacia Pkwy.	2/25/2004			MHP120038	MHO120016	DS		SPO120002	8	VCP	3		169	169
3	3_Moderate	25			GGSD		MIXED 1	1569				Y	VANGUARD	10/31/2005	7336	7337	MHG090025	MHG090026	D/S	1477	SPG090038	8	VCP			186	
4	3_Moderate	25					MIXED 2	2451				Y	HARCOURT	12/19/2006	9012	9013	MHL040009	MHL040010	D/S	4922	SPL040009	8	VCP			306	312.0
1	3_Moderate	26		X		18		18				x	13251 Deanann	3/9/2004	11299	11300	MHN140017	MHN140018	DS	2898	SPN140006	8	VCP	3		240	228
3	3_Moderate	26	2016-08-11		GGSD		48	1575					AMY	11/2/2005	8283	7344	MHG090033	MHG090034	D/S	1322	SPG090059	8	VCP			342	351
4	3_Moderate	26					10	2323				Y	HARLE	9/22/2006	9236	9237	MHM030019	MHM030020	D/S	3606	SPM030022	8	VCP			330	331.5
1	3_Moderate	27				7		7					Nelson St/ Lampson Ave.	2/13/2004			MHO110006-A	MHO110006	DS		SPO110006-A	8	VCP			63	63
3	3_Moderate	27			PPT		47	24					BELGRAVE	10/12/2007	8284	8290	MHG090039	MHG090038	U/S	1089	SPG090031	8	VCP			278	217
4	3_Moderate	27	2018-03-21				9	2321				Y	CHANTICLEER	9/21/2006	9204	9205	MHM020004	MHM020005	D/S	4509	SPM020011	8	VCP			300	295.4
1	3_Moderate	28				49		17				x	Gilbert St./Stone Haven Cir.	5/17/2004	9522	9519	MHL110062	MHL110059	DS	3225	SPL110002	8	VCP	3		125	131
2	3_Moderate	28					G022	9				Y	JANETTE LN	8/16/2005	12240	12241	MHQ070010	MHQ070011	D/S	6311	SPQ070002	8	VCP			285	286.5
3	3_Moderate	28			GGSD		39	1409				Y	WEAVER	7/14/2005	7348	7331	MHG090043	MHG090014	U/S	1472	SPG090033	8	VCP			280	275
4	3_Moderate	28					11	2335				Y	PACIFIC	9/28/2006	9229	8343	MHM030007	MHM030008	D/S	3599	SPM030015	8	VCP			294	293.6
1	3_Moderate	29				5		19					12601 Kengsington Ln.	2/10/2004	11259	11143	MHN110007	MHN110037	DS	2920	SPN110021	8	VCP			150	164
2	3_Moderate	29					R044	8				Y	LAMPSON AV	10/26/2005	12649	12650	MHT100029	MHT100030	D/S	5365	SPT100025	8	VCP			405	403.9
3	3_Moderate	29			PPT		47	9					DANVERS	10/9/2007	8232	8230	MHG110032	MHG110030	U/S	1968	SPG110006	8	VCP			310	358
4	3_Moderate	29					10	2326				Y	HEDLUND	9/25/2006	8344	8345	MHM030022	MHM030023	D/S	3609	SPM030025	8	VCP			338	336.2
1	3_Moderate	30				46		26					12451 Pleasant Pl.	5/10/2004	9500	9485	MHM100019	MHM110009	DS	3426	SPM100022	8	VCP			215	217
2	3_Moderate	30					G024	10					DANIEL AV	8/18/2005	12237	12995	MHQ070025	MHP070025	D/S	6450	SPQ070020	8	VCP			315	319.3
3	3_Moderate	30			PPT		53	25					KNOTT	1/12/2008	8293	8292	MHG110047	MHG110046	U/S	926	SPG110002	8	VCP			140	148
4	3_Moderate	30					11	2335				Y	PACIFIC	9/28/2006	8343	8945	MHM030008	MHM030009	D/S	5412	SPM030042	8	VCP			296	307.3
1	3_Moderate	31				23		12					12801 Lucille Ave.	3/16/2004	8490	8491	MHL120025	MHL120026	DS	3150	SPL120024	8	VCP			303	304
2	3_Moderate	31					G020	9					MAC MURRAY ST	8/8/2005	10341	10283	MHK050017	MHK050018	D/S	5951	SPK050045	8	VCP			195	205.8
3	3_Moderate	31			PPT		45	9				Y	ACACIA	10/1/2007	7324	7323	MHG120014	MHG120013	U/S	1467	SPG120023	8	VCP			354	357

Structural Defect Coding

Ranking	Street Name	Crack C L	Crack C C	Crack C M	Crack C S	Crack C H	Fracture F L	Fracture F C	Fracture F M	Fracture F S	Fracture F H	Broken B SV	Broken B VV	Hole H SV	Hole H VV	Joint J O S	Joint J O M	Joint J O L	Joint J S S	Joint J S M	Joint J S L	A	Deformed D V	Deformed D H	Collapsed Pipe X P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags WL S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
8	PACIFIC	17	4	10			2																							33	74	2.24
9	RICHMOND																											11		11	22	2.00
9	HARRIET LN	24	2	4			2																							32	68	2.13
10	RICHMOND																											70		70	140	2.00
10	LULLABY LN	15	2				8	1								1													27	61	2.26
11	RICHMOND																											14		14	28	2.00
11	PACIFIC	12	2				8	5																						27	60	2.22
12	RICHMOND																											21		21	42	2.00
12	POONA ALLEY	14	3				4	1	1																					23	49	2.13
13	RICHMOND															1													1	3	3.00
13	LULLABY LN	17	1				4	1																						23	49	2.13
14	VALLEY VIEW ST															1													1	3	3.00
14	PACIFIC	22	3	3																										28	56	2.00
15	CHAPMAN							1							1													2	7	3.50
15	PACIFIC	13	5	9																										27	58	2.15
16	BAILEY		1																									20		21	41	1.95
16	GILBERT	8	10	9																										27	53	1.96
17	BLACKMER																											22		22	44	2.00
17	STONYBROOK	20	3	2																										25	49	1.96
18	SANTA BARBARA		1	1																								32		34	68	2.00
18	COLONY	21		3												1													25	54	2.16
19	BELGRAVE ALLEY															1													1	3	3.00
19	STONYBROOK	22	1	1																										24	48	2.00
20	9561 Stanford Ave.	1					2							2	2											5			10	3.33
20	ADAMS															1													1	3	3.00
20	PACIFIC	14	2	8																										24	54	2.25
21	13100 Gilbert St.							1							2														35	2.19
21	CHAPMAN	10		4																										14	32	2.29
21	VANCOUVER	8	5	7			1		2																					23	53	2.30
22	9651 Garden Grove Blvd.	1		1			1	3	1						2	1											6			32	2.29
22	BELGRAVE EASEMENT							1																					1	4	4.00
22	HARCOURT	15	7	1																										23	40	1.74
23	12201 Faye Ave.	8	1	1			3									1														26	3.71
23	TOPAZ						1																						1	2	2.00
23	PACIFIC	13	5	4																										22	43	1.95
24	Alley/G.G. Blvd.		1				5							1														24	2.67
24	WEAVER															1													1	3	3.00
24	HARLE	14	3	4																										21	43	2.05
25	11000 Acacia Pkwy.	1	1	6												1														20	2.00
25	VANGUARD	3	1				3		2																					9	24	2.67
25	HARCOURT	15	5	1																										21	38	1.81
26	13251 Deanann	4	1	1			1								2	1														17	2.13
26	AMY	4	1	4																										9	21	2.33
26	HARLE	15	2	3																										20	41	2.05
27	Nelson St/ Lampson Ave.						1								1											6			12	2.00
27	BELGRAVE	3				1																							4	9	2.25
27	CHANTICLEER	14		2			1		2																					19	45	2.37
28	Gilbert St./Stone Haven Cir.		1				2								1											2			11	2.75
28	JANETTE LN		3	22				2	2																					29	81	
28	WEAVER			2												1													3	9	3.00
28	PACIFIC	14	2	2												1											54		73	147	2.01
29	12601 Kengsington Ln.															1											4			10	2.00
29	LAMPSON AV	11		14				3																					28	76	
29	DANVERS															2													2	6	3.00
29	HEDLUND	11	3	3																								15		32	64	2.00
30	12451 Pleasant Pl.		1													1											3			9	3.00
30	DANIEL AV	2		15			3	5																					25	75	
30	KNOTT															2											2		4	10	2.50
30	PACIFIC	9	2	5												1											18		35	74	2.11
31	12801 Lucille Ave.					1	1								1														7	2.33
31	MAC MURRAY ST		2	19				6																						27	71	
31	ACACIA																													0	0	0.00

Operational and Maintenance

Ranking	Street Name	Deposits D AGS	Deposits AE B	Deposits AE %	Deposits AE L	Deposits AE %	Deposits Other Z	Deposits Other %	Roots (R) Fine (F) B	Fine (F) L	Fine (F) J	Fine (F) C	Tap (T) B	Tap (T) L	Tap (T) J	Tap (T) C	Medium (M) B	Medium (M) L	Medium (M) J	Medium (M) C	Ball (B) B	Ball (B) L	Ball (B) J	Ball (B) C	Infiltration I G	Infiltration I D	Infiltration I R	Infiltration I W	Obstacles OB Other C	Obstacles OB Other Z	Obstacles OB Other %	Vermin V C	Vermin V R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
8	PACIFIC	116				14		1																								131	275	2.10
9	RICHMOND		74																															74	148	2.00
9	HARRIET LN	49	36																															85	170	2.00
10	RICHMOND		74																															74	148	2.00
10	LULLABY LN	12								8																				3		23	35	1.52
11	RICHMOND		75						1	1																							77	152	1.97
11	PACIFIC																																	0	0	
12	RICHMOND		70						1																								71	141	1.99
12	POONA ALLEY	18	5							3																				2		28	51	1.82
13	RICHMOND	48	31																															79	158	2.00
13	LULLABY LN																																	28	51	2.31
14	VALLEY VIEW ST		3																															3	6	2.00
14	PACIFIC	92	8						1	2																							103	203	1.97
15	CHAPMAN	13	3																															16	32	2.00
15	PACIFIC	90	21							2																				2		115	226	1.97
16	BAILEY	88																													3		91	179	1.97
16	GILBERT	53	7																															60	120	2.00
17	BLACKMER		117																															117	234	2.00
17	STONYBROOK	62	67							4																				4		137	266	1.94
18	SANTA BARBARA					4																			1							5	16	3.20
18	COLONY	64	50							18																				1		133	247	1.86
19	BELGRAVE ALLEY																																	0	0	0.00
19	STONYBROOK	95	66																												2		163	324	1.99
20	9561 Stanford Ave.					22	5.00									2																	0	0.00
20	ADAMS		4																															4	8	2.00
20	PACIFIC	76				8																											84	176	2.10
21	13100 Gilbert St.																																		3	0.06
21	CHAPMAN									6																							6	6	1.00
21	VANCOUVER	41				18																											59	136	2.31
22	9651 Garden Grove Blvd.																																		50	1.11
22	BELGRAVE EASEMENT																																	0	0	0.00
22	HARCOURT	8	11							2																				4		25	44	1.76
23	12201 Faye Ave.							5	1		1			8	1													1			28	0.19
23	TOPAZ		2																															2	4	2.00
23	PACIFIC	106	12							1																							119	237	1.99
24	Alley/G.G. Blvd.	14																																	134	2.35
24	WEAVER																																	0	0	0.00
24	HARLE	58	12			11																								1		82	174	2.12
25	11000 Acacia Pkwy.	37										20																						0	0.00
25	VANGUARD		45							4																				15		64	109	1.70
25	HARCOURT	15	10					1		2																				13		41	67	1.63
26	13251 Deanann																																		0	0.00
26	AMY																																	0	0	0.00
26	HARLE	41	22			7		1																								71	148	2.08
27	Nelson St/ Lampson Ave.																																		14	2.00
27	BELGRAVE		1																															1	2	2.00
27	CHANTICLEER	97	19			21																											137	295	2.15
28	Gilbert St./Stone Haven Cir.							7																										0	0.00
28	JANETTE LN	3	7	5.00		37	5.00		1																							48	132	
28	WEAVER		54																															54	108	2.00
28	PACIFIC	96				12		1	2																							111	231	2.08
29	12601 Kengsington Ln.	4																																	3	0.43
29	LAMPSON AV	12				53	5.00																							1		66	184	
29	DANVERS																																	0	0	0.00
29	HEDLUND	40								0																				1		41	81	1.98
30	12451 Pleasant Pl.											1																						4	2.00
30	DANIEL AV	4				1	5.00																					1	10			6	15	
30	KNOTT																																	0	0	0.00
30	PACIFIC	99				15			8																							122	251	2.06
31	12801 Lucille Ave.																																		16	2.00
31	MAC MURRAY ST	2																																2	4	
31	ACACIA		2																															2	4	2.00

Construction Features

Ranking	Street Name	Tap (Lateral) T FD	Tap T FL	Tap T BI	Tap T BD	Line L D	Line L L	Line L U	Line L R	Line L LD	Line L RD	Intruding Seal Material IS SRH	IS SRB	IS SRL	IS Z	Miscellaneous M SA	Miscellaneous M CU	Miscellaneous M MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
8	PACIFIC																	0				21 Cracks.	Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
9	RICHMOND																						
9	HARRIET LN																	0					Spot repair 4 locations, reline
10	RICHMOND																						
10	LULLABY LN	1																2				273.6' JOM (D/SL)	Spot repair JOM at 273.6; reline. Most fractures called out are cracks.
11	RICHMOND																						
11	PACIFIC																	0				GIS Length is 415'.	Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
12	RICHMOND																						
12	POONA ALLEY																	0					Spot repair 61.5, 124.4, 143.1, 212.1 to 222 (DS MH)
13	RICHMOND																						
13	LULLABY LN																						Reline. Very small trib. area.
14	VALLEY VIEW ST			2											1							MSA = DAE (20%). Pipe SPE0800012 corrected to SPE080012	
14	PACIFIC																	0				30 cracks at joints	Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
15	CHAPMAN				1																		
15	PACIFIC																	0				10 cracks	Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
16	BAILEY																				Removed old cast iron pipe and buried clean out.		
16	GILBERT				3													9					Calculated hydraulic deficiency. Flow monitor to assess if would have enough capacity with lining. Otherwise, replace with larger pipe. Significant Anaheim flows
17	BLACKMER																						
17	STONYBROOK																	0					Spot repair 264-267; 401.6-422.8; reline. Very small trib area.
18	SANTA BARBARA																						
18	COLONY																	0					Root treat; spot repair 47.9, 111.9-114.8; reline
19	BELGRAVE ALLEY																						
19	STONYBROOK																	0					Reline. Small trib. area.
20	9561 Stanford Ave.																						Replace pipe
20	ADAMS														1							MSA = DAE	
20	PACIFIC																	0				Mostly cracks	Mostly cracks. This is also a capacity deficiency, majority of the flows from Anaheim. Clean pipe, flow monitor, then replace when needed.
21	13100 Gilbert St.														2				M MC-offset				Replace pipe
21	CHAPMAN																						
21	VANCOUVER	1																2					Reline. Small trib. area.
22	9651 Garden Grove Blvd.			1																				Replace pipe
22	BELGRAVE EASEMENT														1							MSA =Siphon	
22	HARCOURT																	0					Spot repair 313, 551.6, 600-609; reline
23	12201 Faye Ave.																						Replace pipe
23	TOPAZ																						
23	PACIFIC	1																2					Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
24	Alley/G.G. Blvd.																						Replace pipe
24	WEAVER																						
24	HARLE																	0					Mostly small cracks. Reline
25	11000 Acacia Pkwy.																						Replace pipe
25	VANGUARD	1																					
25	HARCOURT	1																2					Spot repair at 152.1, 188.8, 291.7-295.3; reline.
26	13251 Deanann																						Replace pipe
26	AMY																				Replaced a section of 4" VCP pipe.		
26	HARLE																	0					Spott repair at 376.2, 401.6-411.2, 657.7, reline
27	Nelson St/ Lampson Ave.														1				low lateral				Replace pipe
27	BELGRAVE																						
27	CHANTICLEER	1																2			Replaced 53" of 4" VCP lateral broken by installation of 2" conduit.		Reline
28	Gilbert St./Stone Haven Cir.																						Replace pipe
28	JANETTE LN																						
28	WEAVER																					Some parts Heavy DAE	
28	PACIFIC																	0				289' JOM (D/SL)	Mostly cracks. This is also a capacity deficiency, majority of the flows from Anaheim. Clean pipe, flow monitor, then replace when needed. If not replaced, spot repair joint offset.
29	12601 Kengsington Ln.															1						Replace pipe
29	LAMPSON AV																						
29	DANVERS																						
29	HEDLUND																	0					Minor cracks, reline
30	12451 Pleasant Pl.																						Replace pipe
30	DANIEL AV																					CONTINUOUS CRACK MULTIPLE, OBSTACLE= OBJ	
30	KNOTT																					Repeat inspection, DVD 47 - Section 16	
30	PACIFIC																	0				Mostly cracks	Capacity deficiency Project 62. Mostly Anaheim flows. Clean, flow monitor, then replace if necessary.
31	12801 Lucille Ave.																						Replace pipe
31	MAC MURRAY ST																					MULTIPLE	
31	ACACIA			1																		DAE 10% of the cross sectional area	

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Pipe Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
4	3_Moderate	31					P COU NTY 3B	9				Y	GILBERT	10/16/2007	8956	8957	MHL040002	MHL040003	D/S	3668	SPL040003	10	VCP			289	288.3
1	3_Moderate	32		X		5		12				x	10361 Lampson Ave.	2/9/2004	11253	11254	MHN110001	MHN110002	DS	2540	SPN110008	8	VCP	3		320	313
2	3_Moderate	32					G008	7					DALE ST	7/21/2005	8515	8516	MHK070045	MHK080046	D/S	2001	SPK080050	8	VCP			365	366.3
3	3_Moderate	32			PPT		45	8				Y	ACACIA	10/1/2007	7324	7325	MHG120014	MHG120015	D/S	1690	SPG120024	10	VCP			268	276
4	3_Moderate	32					13	2370				Y	KATELLA	10/20/2006	9634	9633	MHL050057	MHL050056	U/S	4073	SPL050031	12	VCP			421	431.8
1	3_Moderate	33		X		12		2					10631 McKeen St.	2/26/2004	11094	11095	MHO130023	MHO130024	DS	2353	SPO130021	6	VCP			290	288
2	3_Moderate	33					G019	10					KATELLA AV	8/5/2005	7979	7980	MHK050042	MHK050043	D/S	1835	SPK050022	8	VCP			213	216.5
3	3_Moderate	33		X	PPT		47	1				Y	ACACIA	10/9/2007	12035	12036	MHG120015	MHG120016	D/S	2743	SPM120025	10	VCP			350	268
4	3_Moderate	33					1	1682				Y	STONYBROOK	3/15/2006	9164	9163	MHM990005	MHM990004	U/S	4379	SPM990007	8	VCP			252	253.9
1	3_Moderate	34		X		10		2					11222 Acacia St.	2/20/2004	11020	11019	MHP120016	MHP120015	US	5136	SPP120014	6	VCP			225	230
2	3_Moderate	34					G046	2				Y	FALLINGLEAF ST	10/10/2005	12725	12695	MHS100039	MHS100003	D/S	6503	SPS100021	8	VCP			390	372.7
3	3_Moderate	34			PPT		40	23				Y	MONARCH	9/12/2007	8095	8096	MHH110003	MHH110004	D/S	883	SPH110004	8	VCP			376	370
4	3_Moderate	34					Mixed 3	2476				Y	ORANGE	1/17/2007	9276	9277	MHM990014	MHM990015	D/S	3645	SPM990018	8	VCP			328	323.0
1	3_Moderate	35		X		23		1					9832 G.Grove Blvd./ Alley	3/15/2004	10777	10762	MHM130039	MHM130027	DS	2345	SPM130027	6	VCP			200	201
2	3_Moderate	35					M002	13					POLLARD DR	8/5/2005	10165	10166	MHL060010	MHL060011	D/S	3727	SPL060014	8	VCP			390	390.8
3	3_Moderate	35			PPT		44	11					LAMPSON	9/26/2007	8153	8152	MHH110007	MHH110006	U/S	1681	SPH110011	10	VCP			350	353
4	3_Moderate	35					P COU NTY	2				Y	STONYBROOK	10/11/2007	9166	9159	MHM990007	MHM990021	D/S	4382	SPM990010	8	VCP			130	288.8
1	3_Moderate	36				7A		9					11531 Blackthorn St.	2/16/2004	10679	10678	MHN110016	MHN110015	US	2939	SPN110022	8	VCP			230	219
2	3_Moderate	36					R048	2					STUART DR	11/1/2005	10900	10903	MHQ130020	MHQ130023	D/S	4365	SPQ130023	8	VCP			395	392.9
3	3_Moderate	36			PPT		44	10				Y	LAMPSON	9/26/2007	8154	8153	MHH110008	MHH110007	U/S	1680	SPH110010	10	VCP			350	354
4	3_Moderate	36					8	2309				Y	RHIEMS	9/13/2006	9210	9211	MHM020023	MHM030024	D/S	4516	SPM020018	8	VCP			217	209.9
1	3_Moderate	37		X		46		1					9241 Imperial Ave.	5/6/2004	11521	11520	MHL140018	MHL140017	US	2695	SPL140003	8	VCP			100	109
2	3_Moderate	37					G020	6					LA GRAND AV	8/8/2005	10338	10341	MHK050014	MHK050017	D/S	5950	SPK050044	8	VCP			167	138.8
3	3_Moderate	37			PPT		45	24					KNOTT EASEMENT	10/5/2007	8141	8139	MHH120008	MHH120006	U/S	916	SPH120006	8	VCP			380	203
4	3_Moderate	37					3	2202				Y	COLCHESTER	6/16/2006	9304	9283	MHM000002	MHL000001	D/S	3458	SPL000008	8	VCP			308	304.4
1	3_Moderate	38				8		7					10101 Lampson Ave.	2/17/2004	10683	10682	MHN110020	CON110019	US	2943	SPN110026	8	VCP			55	55
2	3_Moderate	38					R043	1				Y	GARDEN GROVE BLVD	10/25/2005	12456	12457	MHS120046	MHS120047	D/S	4984	SPS120051	10	VCP			320	318.7
4	3_Moderate	38					8	2298				Y	D'ESTE	9/5/2006	9349	9345	MHM020014	MHM020009	D/S	3489	SPM020035	8	VCP			373	375.0
1	3_Moderate	39				18		16					10492 Trask	3/8/2004	11185	11118	MHO150015	MHO150014	US	2928	SPO150036	8	VCP			350	351
2	3_Moderate	39					M012	4				Y	CHAPMAN AV	8/25/2005	12248	12249	MHT090032	MHT090033	D/S	6024	SPT090017	10	VCP			170	172.3
3	3_Moderate	39			PPT		48	41					GARDEN GROVE BLVD	10/31/2007	8090	8091	MHH130003	MHH130004	D/S	1672	SPH130004	10	VCP			200	211
4	3_Moderate	39					MIXE D P COU NTY 1	14				Y	LULLABY LN	11/4/2007	9224	9225	MHM020034	MHM020035	D/S	3593	SPM020026	8	VCP			210	207.1
1	3_Moderate	40				21		2					10402 Trask	3/9/2004	11187	11188	MHO150001	MHO150002	DS	2280	SPO150021	8	VCP			350	348
2	3_Moderate	40					G023	5					MARGIE LN	8/17/2005	12231	12232	MHQ070019	MHQ070020	D/S	6444	SPQ070014	8	VCP			285	288.3
3	3_Moderate	40			PPT		49	6					WESTERN	11/2/2007	8081	8079	MHI080006	MHI080004	U/S	875	SPI080009	8	VCP			235	246
4	3_Moderate	40					P COU NTY	4				Y	STONYBROOK	10/11/2007	9165	9166	MHM990006	MHM990007	D/S	4381	SPM990009	8	VCP			300	298.9
1	3_Moderate	41				22		11					13085 Kerry St.	3/12/2004	12026	10759	MHM130023	MHM130024	DS	2331	SPM130009	6	VCP			139	136
2	3_Moderate	41					M005	10				Y	VONS DR	8/10/2005	10838	10839	MHL060033	MHL060034	D/S	5232	SPL060037	8	VCP			245	247.6
3	3_Moderate	41			PPT		48	36					WESTERN EASEMENT	10/31/2007	7203	7202	MHI090006	MHI090005	U/S	1074	SPI090011	8	CAS Cast Iron			100	106
4	3_Moderate	41					3	2145		3	2193	Y	HILLVIEW	5/4/2006	9293	9302	MHM990024	MHM990033	U/S	3454	SPM990032	8	VCP			330	327.4
1	3_Moderate	42		X		41		17					8565 Edgebrook Dr.	4/21/2004	7095	7645	MHK140022	MHK140021	US	1000	SPK140014	8	VCP			231	232
2	3_Moderate	42					G022	11				Y	JANETTE LN	8/16/2005	12242	12243	MHQ070012	MHQ070013	D/S	6313	SPQ070004	8	VCP			285	286.7
4	3_Moderate	42					9	2312				Y	PERDIDO	9/18/2006	9219	9218	MHM020029	MHM020028	U/S	3587	SPM020020	8	VCP			80	90.3
1	3_Moderate	43				45		10					10242 Garden Grove Blvd.	4/30/2004	11235	11321	MHN130006	MHN130005	US	3078	SPN130038	8	VCP			260	288
2	3_Moderate	43					R055	5					STUART DR	11/8/2005	11442	11446	MHQ130024	MHQ130002	D/S	3850	SPQ130021	8	VCP			300	302.5
3	3_Moderate	43			PPT		41	10					WESTERN	9/17/2007	7177	7196	MHI120019	MHI110002	U/S	1068	SPI120030	8	VCP			390	398
4	3_Moderate	43					P COU NTY 3C	9				Y	GILBERT	10/12/2007	8943	8942	MHL030037	MHL030038	U/S	3655	SPL030003	10	VCP			330	298.2
1	3_Moderate	44				49		4					9542 Lampson Ave.	5/14/2004	9507	9521	MHM110013	MHL110061	DS	3261	SPM110032	10	VCP			288	287
2	3_Moderate	44					G019	9					KATELLA AV	8/5/2005	9759	9760	MHK050003	MHK050004	D/S	5552	SPK050003	8	VCP			300	300.8
3	3_Moderate	44			PPT		41	27					GARDEN GROVE BLVD	9/18/2007			MHI130004	MHI130005	D/S		SPI130004	8	VCP			39	39
4	3_Moderate	44					MIXE D 2	2447				Y	BERRY	12/18/2006	8341	8333	MHL040018	MHL050053	D/S	5024	SPL040018	8	VCP			306	321.4
1	3_Moderate	45		X		27		1				x	12841 Village Rd.	3/19/2004	12034	12035	MHM120024	MHM120025	DS	2742	SPM120024	8	VCP	3		350	349
2	3_Moderate	45					G006	7					YANA DR	7/19/2005	8505	8506	MHK070041	MHK070042	D/S	2090	SPK070045	8	VCP			342	344.3
3	3_Moderate	45			PPT		20	48					LAMPSON	6/27/2007	8695	8696	MHJ110014	MHJ110015	D/S	1815	SPJ110010	8	VCP			250	418
4	3_Moderate	45					MIXE D 2	2447				Y	BERRY	12/18/2006	8340	8341	MHL040017	MHL040018	D/S	5023	SPL040017	8	VCP			306	308.8
1	3_Moderate	46		X		11		26				x	Alley	2/25/2004	11843	11844	MHO120017	MHO130001	DS	5405	SPO120015	8	VCP	3		305	309
2	3_Moderate	46					G036	10					FREDRICK DR	9/7/2005	12578	12539	MHQ090042	MHP090001	D/S	4751	SPQ090024	8	VCP			330	337.7
3	3_Moderate	46			PPT		21	2					LAMPSON	6/28/2007	8698	8701	MHJ110017	MHJ110018	D/S	1823	SPJ110020	8	VCP			338	343
4	3_Moderate	46					MIXE D 3	2476				Y	ORANGE	1/17/2007	9277	9278	MHM990015	MHM990001	D/S	3646	SPL990001	8	VCP			337	324.2
1	3_Moderate	47		X		8		21				x	12671 Main St.	2/18/2004	11772	11749	MHO110005	MHO110005-A	DS	4792	SPO110005	8	VCP	3		230	233
2	3_Moderate	47					G007	9					DALE ST	7/20/2005	8046	8047	MHK060015	MHK070049	D/S	1900	SPK070029	8	VCP			284	287.8
3	3_Moderate	47			GGSD		P COU NTY 3C	8					ANNAPOLIS AVE	10/13/2007	10368	10369	MHK030005	MHK030004	U/S	4673	SPK030004	8	VCP			389	388
4	3_Moderate	47					1	1896				Y	ROSEBAY	4/1/2006	9158	9157	MHM990020	MHM990019	U/S	4375	SPM990003	8	VCP			336	335.6
1	3_Moderate	48		X		19		19				x	12900 Casa Linda Ln.	3/9/2004	8472	8474	MHL120016	MHL130003	DS	3132	SPL120017	8	VCP	3		375	384
2	3_Moderate	48					G011	2					SHELLEY DR	7/26/2005	10819	10821	MHL070012	MHL070014	D/S	4834	SPL070029	8	VCP			190	194.9
3	3_Moderate	48			GGSD		P COU NTY 3C	7					MAC	10/13/2007	10368	10367	MHK030005	MHK040008	D/S	4775	SPK030005	8	VCP			310	308
4	3_Moderate	48					9	2310				Y	HARRIET LN	9/13/2006	9210	9776	MHM020023	MHM020022	U/S	5035	SPM020046	8	VCP			336	334.1
1	3_Moderate	49		X		34		6				x	12802 Lorna St.	4/2/2004	8412	8414	MHK120021	MHK120023	DS	3390	SPK120023	8	VCP	3		332	332
2	3_Moderate	49					R002	8					CLOVER LN	7/26/2005	10814	10795	MHL070007	MHL080023	D/S	4735	SPL080036	8	VCP			338	336.4
3	3_Moderate	49			GGSD		P COU NTY 3C	6					MAC	10/13/2007	10358	10356	MHK040001	MHK050047	D/S	4778	SPK040011	8	VCP			307	294
4	3_Moderate	49					1	1936				Y	STONYBROOK	4/11/2006	9292	9291	MHM990023	MHM990022	U/S	3441	SPM990021	8	VCP			280	287.5
1	3_Moderate	50		X		31		3				x	13151 Hazel St.	3/30/2004	11567	11568	MHL130039	MHL130040	DS	3104	SPL130036	8	VCP	3		342	340
2	3_Moderate	50					G028	6					CHAPMAN AV	8/25/2005	12991	13222	MHQ090052	MHP090018	D/S	6146	SPQ090027	12	VCP			260	264.8
3	3_Moderate	50			GGSD		P COU NTY 3 A	3					REGAL	10/14/2007	10360	10358	MHK040002	MHK040001	D/S	4774	SPK040010	8	VCP			385	380

Structural Defect Coding

Street Name	Crack C L	C	M	S	H	Fracture F L	C	M	S	H	Broken B SV	VV	Hole H SV	VV	Joint J O S	O M	O L	S S	S M	S L	A	Deformed D V	H	Collapsed Pipe X P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags WL S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
GILBERT	8	8																												16	24	1.50
10361 Lampson Ave.			1												1	1															7	2.33
DALE ST	1	4	3			14	4																					3		29	71	
ACACIA																														0	0	0.00
KATELLA	8	4	3													1														16	32	2.00
10631 McKeen St.		3														1															6	3.00
KATELLA AV			16			5	4																							25	71	
ACACIA																														0	0	0.00
STONYBROOK	11	3	1																											15	28	1.87
11222 Acacia St.			1													1															5	2.50
FALLINGLEAF ST	2	1	7				2	3																				14		29	70	
MONARCH																														0	0	0.00
ORANGE	9	5	1																											15	26	1.73
9832 G.Grove Blvd./ Alley							1									1															4	2.00
POLLARD DR	2	5	19																											26	66	
LAMPSON								1																						1	4	4.00
STONYBROOK	13	2																												15	28	1.87
11531 Blackthorn St.																1															3	3.00
STUART DR	6	1	13					3																						23	64	
LAMPSON																												2		2	4	2.00
RHIEMS	4	6	4																											14	26	1.86
9241 Imperial Ave.																1															3	3.00
LA GRAND AV			19				3																							22	63	
KNOTT EASEMENT								1																						1	4	4.00
COLCHESTER	5	3	6																											14	31	2.21
10101 Lampson Ave.																1															3	3.00
GARDEN GROVE BLVD	4	2	17																											23	61	
D'ESTE	7	3	4																											14	29	2.07
10492 Trask																1															3	3.00
CHAPMAN AV			19					1																						20	61	
GARDEN GROVE BLVD																1														1	3	3.00
LULLABY LN	9					2	2																							13	28	2.15
10402 Trask																1															3	3.00
MARGIE LN		2	4			19	2																							27	60	
WESTERN																1														1	3	3.00
STONYBROOK	12	1																												13	25	1.92
13085 Kerry St.																1															3	3.00
VONS DR	4	5	9				2	4																						24	60	
WESTERN EASEMENT																2														2	6	3.00
HILLVIEW	12															1														13	27	2.08
8565 Edgebrook Dr.																1															3	3.00
JANETTE LN	2	5	7			1	7	3																						25	59	
PERDIDO	7	2	1			1										1														12	25	2.08
10242 Garden Grove Blvd.																1															3	3.00
STUART DR	6		10																									8		24	58	
WESTERN																2														2	6	3.00
GILBERT	3	7					1																							11	15	1.36
9542 Lampson Ave.																1															36	2.77
KATELLA AV		2	18																											20	56	
GARDEN GROVE BLVD								1																						1	4	4.00
BERRY	6	4	1																											11	19	1.73
12841 Village Rd.		1	7					3							2																36	2.12
YANA DR			18				1																							19	56	
LAMPSON			1				2	1																						4	11	2.75
BERRY	5	5	1																											11	18	1.64
Alley	1	7	5				2	2																							35	2.92
FREDRICK DR		1	5				2	3																				12		23	56	
LAMPSON			2				1																							3	8	2.67
ORANGE	6	5																												11	17	1.55
12671 Main St.						3		4																				5			35	2.33
DALE ST		6	10			1	2	3																						22	55	
ANNAPOLIS AVE	3	4																												7	10	1.43
ROSEBAY	3	8																												11	14	1.27
12900 Casa Linda Ln.	1	5	6				1	2																							34	3.09
SHELLEY DR		3	11			1	2	3																						20	55	
MAC	8	8																												16	24	1.50
HARRIET LN	1	5	3					1																						10	20	2.00
12802 Lorna St.			10					1																							32	2.29
CLOVER LN	4	1	15																											20	54	
MAC	2	2																												4	6	1.50
STONYBROOK	10																													10	20	2.00
13151 Hazel St.		1	3				1	1																				8			31	3.10
CHAPMAN AV		2	1				18	3																						24	53	
REGAL		4	1																								1			6	11	1.83

Operational and Maintenance

Street Name	Deposits D AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots Fine (F) B	L	J	C	Tap (T) B	L	J	C	Medium (M) B	L	J	C	Ball (B) B	L	J	C	Infiltration I G	D	R	W	Obstacles OB Other C	Z	%	Vermin V C	R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
GILBERT	60	16																																76	152	2.00
10361 Lampson Ave.								8																											0	0.00
DALE ST	5					1	5.00			4																								10	17	
ACACIA		3																																3	6	2.00
KATELLA	85					49																							1	20	22			157	343	2.18
10631 McKeen St.								1																											3	0.35
KATELLA AV	1									28																								29	30	
ACACIA		7																																7	14	2.00
STONYBROOK	55	61								1																					1			118	234	1.98
11222 Acacia St.																																			5	2.50
FALLINGLEAF ST	46	32	5.00						2	12																								92	170	
MONARCH																																		0	0	0.00
ORANGE	5	20								2																								27	52	1.93
9832 G.Grove Blvd./ Alley																																			6	0.43
POLLARD DR		1	5.00							32																								33	34	
LAMPSON																																		0	0	0.00
STONYBROOK	5									1																					6			12	17	1.42
11531 Blackthorn St.								5																											6	0.62
STUART DR										7																								7	7	
LAMPSON																																		0	0	0.00
RHIEMS	14					5																												19	43	2.26
9241 Imperial Ave.								2																											3	0.88
LA GRAND AV																																		1	2	
KNOTT EASEMENT																																		0	0	0.00
COLCHESTER	99	22																													9			130	251	1.93
10101 Lampson Ave.								1																											0	0.00
GARDEN GROVE BLVD	2																																	2	4	
D'ESTE	120	10																																130	260	2.00
10492 Trask																																			0	0.00
CHAPMAN AV		25	5.00																												5			30	55	
GARDEN GROVE BLVD																																		0	0	0.00
LULLABY LN																																		0	0	
10402 Trask																																			0	0.00
MARGIE LN	2																																	2	4	
WESTERN																																		0	0	0.00
STONYBROOK	30																														5			35	65	1.86
13085 Kerry St.																																			0	0.00
VONS DR	8	5	5.00																															13	26	
WESTERN EASEMENT																																		0	0	0.00
HILLVIEW	98	11								4																								113	222	1.96
8565 Edgebrook Dr.																																			0	0.00
JANETTE LN	2	30	5.00																															32	64	
PERDIDO	16									1																					1			18	34	1.89
10242 Garden Grove Blvd.																																			0	0.00
STUART DR																																		0	0	
WESTERN																																		0	0	0.00
GILBERT	20	30																													51			101	151	1.50
9542 Lampson Ave.																																			11	0.25
KATELLA AV	1									12		4																						17	26	
GARDEN GROVE BLVD																																		0	0	0.00
BERRY	40	25								4																								69	134	1.94
12841 Village Rd.						1	50.00	1									2																		38	1.44
YANA DR										1				1																	1			3	4	
LAMPSON																																		0	0	0.00
BERRY	40	24																																64	128	2.00
Alley								13									3																		9	0.32
FREDRICK DR	5					1	5.00			3							2													1	20				12	26	
LAMPSON																																		0	0	0.00
ORANGE	3	10						1		2																								16	30	1.88
12671 Main St.								3																											23	1.19
DALE ST																																		1	3	
ANNAPOLIS AVE																																		0	0	0.00
ROSEBAY	52	10								2							1																	65	129	1.98
12900 Casa Linda Ln.						1	5.00	4									1														9				4	0.40
SHELLEY DR	1																																	1	2	
MAC																																		0	0	0.00
HARRIET LN	105																																	105	210	2.00
12802 Lorna St.								2																											8	0.09
CLOVER LN										4							1				1													6	11	
MAC																																		0	0	0.00
STONYBROOK	65	60																																125	250	2.00
13151 Hazel St.								1					1																1		3				82	1.35
CHAPMAN AV						1	5.00																											1	3	
REGAL										1																								1	1	1.00

Construction Features

Street Name	Tap (Lateral) T FD	FL	BI	BD	Line L D	L	U	R	LD	RD	Intruding Seal Material IS SRH	SRB	SRL	Z	Miscellaneous M SA	CU	MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
GILBERT				3														9					Calculated hydraulic deficiency. Flow monitor to assess if would have enough capacity with lining. Otherwise, replace with larger pipe. Significant Anaheim flows
10361 Lampson Ave.																							Replace pipe
DALE ST																						SMALL SAG	
ACACIA			1																			DAE 10% of the cross sectional area	
KATELLA			1															3				162' JOM (D/SH); Atlas indicates 15-inch pipe.	Spot repair JOM at 162 and reline, or replace if d/D exceeds 0.62 with lining. Partial Anaheim flow
10631 McKeen St.			1																				Replace pipe
KATELLA AV																						MULTIPLE	
ACACIA																						DAE 15% of the cross sectional area	
STONYBROOK																		0					Spot repair 155.1 and 242.5 to 248.5; reline. Very small trib area.
11222 Acacia St.			1																				Replace pipe
FALLINGLEAF ST																						SAG	
MONARCH			2												1							MSA = TBI. Inspection stopped just short of D/S MH.	
ORANGE				1														3				15 cracks at joints	Spot repair 260. Very small tributary area
9832 G.Grove Blvd./ Alley																							Replace pipe
POLLARD DR																						MULTIPLE	
LAMPSON			2																				
STONYBROOK																		0					Spot repair JOM at 137, reline.
11531 Blackthorn St.																							Replace pipe
STUART DR																							
LAMPSON																							
RHIEMS																		0					Spot repair at 5.8, 53.1-59.4, 105.8-138
9241 Imperial Ave.																							Replace pipe
LA GRAND AV								1														MULTIPLE	
KNOTT EASEMENT																						Repeat inspection, DVD 45 - section 22	
COLCHESTER																		0					Reline. Small trib. area.
10101 Lampson Ave.																							Replace pipe
GARDEN GROVE BLVD																						CONTINUOUS CRACK MULTIPLE	
D'ESTE																		0					Reline. Small trib area.
10492 Trask																							Replace pipe
CHAPMAN AV																						MULTIPLE	
GARDEN GROVE BLVD																							
LULLABY LN																		0					Reline. Very small trib. area.
10402 Trask																							Replace pipe
MARGIE LN																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
WESTERN																							
STONYBROOK																		0					Reline
13085 Kerry St.																							Replace pipe
VONS DR																							
WESTERN EASEMENT																						Pipe SPH090011 corrected to SPI090011	
HILLVIEW																		0				24' JOM (D/SH). @ 509.9' there is CO. GIS map shows this is MHM990032	Spot reoair JOM at 24. Reline
8565 Edgebrook Dr.																							Replace pipe
JANETTE LN																							
PERDIDO	1																	2				71.4' JOM (D/SH)	Spot repair JOM at 71, reline for cracks
10242 Garden Grove Blvd.																							Replace pipe
STUART DR																						275.6' NEW MANHOLE FOUND	
WESTERN																							
GILBERT				3														9					Reline
9542 Lampson Ave.																							Replace pipe
KATELLA AV																						MULTIPLE	
GARDEN GROVE BLVD																							
BERRY	1																	2					Reline
12841 Village Rd.																							Replace pipe
YANA DR																							
LAMPSON																							
BERRY																		0				205.40' There is lateral @ 9 o'clock.This lateral does not exist on database.	Reline. Small trib. area.
Alley			1																				Replace pipe
FREDRICK DR																						OBZ= OBJ, SAG	
LAMPSON			1																				
ORANGE				1														3					Reline
12671 Main St.				1																			Replace pipe
DALE ST				1																			
ANNAPOLIS AVE																							
ROSEBAY	3																	6					Root treat, reline, small trib area
12900 Casa Linda Ln.																							Replace pipe
SHELLEY DR																							
MAC																							
HARRIET LN																		0					Spot repair 132.7, 190.2, and 262-284, or reline
12802 Lorna St.																							Replace pipe
CLOVER LN																							
MAC																							
STONYBROOK																		0					Three cracks, minor joint offsets. No immediate action.
13151 Hazel St.																							Replace pipe
CHAPMAN AV																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
REGAL																							

General

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Pipe Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
4	3_Moderate	50					6	2252				Y	ANTIGUA	8/2/2006	9185	9184	MHM010024	MHM010022	U/S	4396	SPM010007	8	VCP			310	589.8
1	3_Moderate	51		X		27		11				x	12755 Gilbert St.	3/22/2004	8455	8456	MHL120002	MHL120003	DS	3114	SPL120003	8	VCP	3		333	330
2	3_Moderate	51					R045	7				Y	HARBOR BLVD	10/27/2005	12116	12117	MHS090001	MHS100011	D/S	5778	SPS090017	8	VCP			383	381.5
3	3_Moderate	51			GGSD		P COU NTY 3 A	3					REGAL	10/14/2007	10361	10360	MHK040004	MHK040002	D/S	4773	SPK040009	8	VCP			267	268
4	3_Moderate	51					6	2252				Y	ANTIGUA	8/2/2006	9186	9185	MHM010024	MHM010022	U/S	4490	SPM010008	8	VCP			284	589.8
1	3_Moderate	52	2017-07-27			14		17				x	10000 Russell Ave.	3/2/2004	10717	11317	MHN140034	MHN140035	DS	3086	SPN140039	6	VCP	2		355	195
2	3_Moderate	52					R005	3				Y	MACNAB ST	8/1/2005	10310	10315	MHK080015	MHK080020	D/S	5891	SPK080019	8	VCP			345	341.5
3	3_Moderate	52			GGSD		P COU NTY 3 A	4					MAC MURRAY	10/14/2007	10361	10362	MHK040004	MHK040005	U/S	4771	SPK040006	8	VCP			280	278
4	3_Moderate	52					4	2213				Y	CLEARBROOK	6/27/2006	9315	8986	MHM000014	MHM000024	U/S	4525	SPM000016	8	VCP			266	263.8
1	3_Moderate	53				18		20				x	13342 Deanann	3/9/2004	11301	11302	MHN140019	MHN140020	DS	2900	SPN140008	8	VCP	3		301	294
2	3_Moderate	53					G022	6					WAVERLY DR	8/16/2005	12953	12920	MHP080026	MHP090020	D/S	6235	SPP080020	8	VCP			332	316.3
3	3_Moderate	53			GGSD		P COU NTY 3C	6					MAC	10/13/2007	10364	10358	MHK040006	MHK040001	D/S	4777	SPK040008	8	VCP			256	253
4	3_Moderate	53					13	2383				Y	CANTON	10/26/2006	8974	8973	MHM040008	MHM040015	U/S	4413	SPM040039	8	VCP			285	589.9
2	3_Moderate	54					G035	6				Y	REXFORD RD	9/6/2005	12840	12810	MHQ100018	MHQ100019	D/S	6462	SPQ100044	8	VCP			340	347.1
3	3_Moderate	54			GGSD		P COU NTY 3B	1					KATELLA	10/24/2007	10356	10355	MHK050047	MHK050048	D/S	4780	SPK050049	8	VCP			380	373
4	3_Moderate	54					13	2383				Y	CANTON	10/26/2006	8965	8974	MHM040008	MHM040015	U/S	4414	SPM040040	8	VCP			285	589.9
1	3_Moderate	55		X		20		1				x	12571 Leroy Ave.	3/9/2004	8478	8479	MHL110036	MHL110037	DS	3140	SPL110033	8	VCP	3		370	372
2	3_Moderate	55					R049	5				Y	BANNER DR	11/2/2005	11980	11985	MHR140027	MHR140029	D/S	3861	SPR140029	8	VCP			280	280.9
3	3_Moderate	55			GGSD		P COU NTY 3B	1					KATELLA	10/24/2007	10355	10370	MHK050048	MHK050049	D/S	4779	SPK050050	8	VCP			370	370
4	3_Moderate	55					10	2327				Y	HARLE	9/25/2006	8952	8951	MHM030028	MHM030027	U/S	3663	SPM030039	8	VCP			375	375.4
1	3_Moderate	56		X		8		19				x	12551 Fletcher Dr.	2/18/2004	10690	10691	MHN110027	MHN110028	DS	2625	SPN110034	8	VCP	3		330	327
2	3_Moderate	56					G038	5					DORADA AV	9/12/2005	11713	11720	MHQ110004	MHQ110011	D/S	6283	SPQ110037	8	VCP			255	264.9
3	3_Moderate	56			PPT		21	5					BLANCHE	6/28/2007	8526	8527	MHK090020	MHK090021	D/S	2015	SPK090031	8	VCP			300	285
4	3_Moderate	56					MIXE D 3	2470				Y	RUSTIC	1/15/2007	9636	9639	MHL040022	MHL040026	U/S	5525	SPL040026	8	VCP			256	256.7
1	3_Moderate	57		X		34		11				x	12845 Adelle St.	4/5/2004	8425	8426	MHK120027	MHK120028	DS	3403	SPK120029	8	VCP	3.5		343	336
2	3_Moderate	57					G006	11					MACNAB ST	7/19/2005	7992	7993	MHK070016	MHK070017	D/S	1848	SPK070015	8	VCP			310	316.8
3	3_Moderate	57			PPT		20	42					AMY	6/26/2007	8592	8030	MHK090026	MHK090025	U/S	1883	SPK090022	8	VCP			160	157
4	3_Moderate	57					MIXE D 3	2468				Y	REGAL	1/15/2007	9636	9643	MHL040022	MHL040021	U/S	5520	SPL040021	8	VCP			318	316.2
1	3_Moderate	58		X		38		5				x	13332 Wilson St.	4/12/2004	7688	7689	MHK140038	MHK140039	DS	719	SPK140035	8	VCP	3		370	372
3	3_Moderate	58			PPT		20	39					AMY	6/26/2007	8532	8533	MHK090029	MHK090030	D/S	1802	SPK090037	8	VCP			265	252
4	3_Moderate	58					12	2358				Y	CRESTWOOD	10/10/2006	8961	8960	MHM040006	MHM040004	U/S	3671	SPM040028	8	VCP			285	572.6
1	3_Moderate	59				19		8				x	9721 Stanford Ave.	3/8/2004	11550	12030	MHM120018	MHM120020	DS	2736	SPM120018	8	VCP	3		346	341
2	3_Moderate	59					M005	13					VONS DR	8/10/2005	10837	10840	MHL060032	MHL060035	D/S	5231	SPL060036	8	VCP			332	331.8
3	3_Moderate	59			PPT		23	25					LAMPSON	7/7/2007	9097	9098	MHK110034	MHK110035	D/S	3241	SPK110017	12	VCP			120	304
4	3_Moderate	59					7	2280				Y	PERDIDO	8/22/2006	9183	9182	MHM020005	MHM010021	U/S	4395	SPM020006	8	VCP			380	620.2
1	3_Moderate	60				12		11				x	13311 Adland St.	2/27/2004	11203	11204	MHO140014	MHO140015	DS	2528	SPO140052	8	VCP	3		316	318
2	3_Moderate	60					R029	4				Y	9TH ST	9/20/2005	12478	12479	MHQ120003	MHQ120004	D/S	6543	SPQ120007	8	VCP			316	315.1
3	3_Moderate	60			PPT		23	27					LAMPSON	7/7/2007	9099	9105	MHK110036	MHK110037	D/S	3243	SPK110019	12	VCP			120	172
4	3_Moderate	60					7	2280				Y	PERDIDO	8/22/2006	9205	9183	MHM020005	MHM010021	U/S	4512	SPM020014	8	VCP			240	620.2
1	3_Moderate	61				26		5				x	9352 Imperial	3/19/2004	12070	12071	MHM140008	MHL140016	DS	2509	SPM140032	8	VCP	3		245	248
4	3_Moderate	61					6	2264				Y	GUINIDA	8/11/2006	9200	9139	MHM010032	MHM010037	U/S	3638	SPM010023	8	VCP			249	494.6
1	3_Moderate	62	2017-05-30	X		14		20	14		21	x	10232 Dakota	3/2/2004	11312	11314	MHN140029	MHN140031	DS	2910	SPN140018	6	VCP	2		365	370
2	3_Moderate	62					G034	3				Y	ROBERT LN	9/2/2005	12824	12825	MHQ090015	MHQ090016	D/S	6421	SPQ090051	8	VCP			295	295.9
4	3_Moderate	62					6	2264				Y	GUINIDA	8/11/2006	9201	9200	MHM010032	MHM010037	U/S	4503	SPM010020	8	VCP			110	494.6
1	3_Moderate	63		X		27		19				x	9213 Garden Grove Blvd.	3/23/2004	8477	9383	MHL130006	MHL130007	DS	3137	SPL130005	8	VCP	3		170	168
2	3_Moderate	63					G029	11				Y	HASTER ST	8/26/2005	13007	13008	MHS080005	MHS080006	D/S	6096	SPS080003	10	VCP			330	330.8
4	3_Moderate	63					6	2264				Y	GUINIDA	8/11/2006	9195	9201	MHM010032	MHM010037	U/S	4504	SPM010021	8	VCP			138	494.6
1	3_Moderate	64		X		3		14				x	12252 Halelani St.	2/6/2004	11216	11217	MNW13029	MNW13030	DS	2393	SPO100021	8	VCP	3		265	279
2	3_Moderate	64					G023	1					NORMA LN	8/17/2005	12227	12228	MHQ070015	MHQ070016	D/S	6440	SPQ070010	8	VCP			285	287.6
3	3_Moderate	64			PPT		51	29					LOMAY ALLEY	12/26/2007	7003	7600	MHK160032	MHK160001	D/S	335	SPK160026	8	VCP			260	255
4	3_Moderate	64					11	2351				Y	CRESTWOOD	10/5/2006	8962	8961	MHL040005	MHM040006	U/S	3672	SPM040029	8	VCP			285	577.6
1	3_Moderate	65		X		43		17				x	9052 Stanford Ave.	4/22/2004	8486	8487	MHL120022	MHL120023	DS	3147	SPL120021	8	VCP	3		345	344
2	3_Moderate	65					R059	6				Y	EASEMENT	11/21/2005	12323	11826	MHP140023	MHP140024	D/S	4439	SPP140047	8	VCP			180	168.7
4	3_Moderate	65					11	2351				Y	CRESTWOOD	10/5/2006	8963	8962	MHL040005	MHM040006	U/S	3673	SPM040030	8	VCP			285	577.6
1	3_Moderate	66		X		37		24				x	8372 Central Ave.	4/12/2004	7679	7684	MHK140035	MHK140036	DS	763	SPK140033	8	VCP	3		330	330
2	3_Moderate	66					R063	7				Y	PALOMA AV	12/1/2005	11463	11464	MHQ140003	MHQ140004	D/S	3822	SPQ140007	8	VCP			290	299.1
3	3_Moderate	66			PPT		49	33					GILBERT	11/8/2007	13905	13904	MHL080001	MHL080002	D/S	7495	SPL080001	10	VCP			212	161
4	3_Moderate	66					10	2330				Y	CHAMBERLAIN	9/26/2006	9231	9230	MHM030005	MHM030013	U/S	3600	SPM030016	8	VCP			145	486.3
2	3_Moderate	67					M011	8					GAIL LN	8/25/2005	12217	12224	MHQ080016	MHQ080028	D/S	6430	SPQ080015	8	VCP			310	316.1
3	3_Moderate	67			PPT		49	45					SKYLARK	10/22/2007	10130	10131	MHL080009	MHL080010	D/S	5183	SPL080009	8	VCP			375	372
4	3_Moderate	67					10	2330				Y	CHAMBERLAIN	9/26/2006	9227	9231	MHM030005	MHM030013	U/S	3601	SPM030017	8	VCP			335	486.3
1	3_Moderate	68		X		34		9				x	12871 Lorna St.	4/2/2004	8413	8414	MHK120018	MHK120039	DS	3391	SPK120024	8	VCP	3		130	326
2	3_Moderate	68					M002	8					BOWLES AV	8/5/2005	0	0	MHK060040	MHL060040	D/S	4229	SPK060002	8	VCP			195	195.4
3	3_Moderate	68			PPT		20	25					CORVETTE	6/26/2007	9039	9040	MHL100008	MHL100009	D/S	3506	SPL100020	8	VCP			221	225
4	3_Moderate	68					7	2277				Y	PALAIS	8/21/2006	9267	9140	MHM020046	MHM020044	U/S	3639	SPM020029	8	VCP			99	453.4
1	3_Moderate	69				46		7				x	12552 Edieth Dr.	5/6/2004	9483	9482	MHM110007	MHM110006	US	3570	SPM110010	8	VCP	3		300	302
2	3_Moderate	69					R011	13					DELLA LN	8/12/2005	12973	12956	MHP080008	MHP090025	D/S	6256	SPP080033	8	VCP			305	303.1
4	3_Moderate	69					7	2277				Y	PALAIS	8/21/2006	9202	9267	MHM020046	MHM020044	U/S	4506	SPM020008	8	VCP			345	453.4
1	3_Moderate	70		X		27		16				x	9340 Nicholas Dr.	3/23/2004	8474	8475	MHL130003	MHL130004	DS	3134	SPL130002	8	VCP	3		212	212
2	3_Moderate	70					R034	4				Y	SUNGROVE ST	9/26/2005	12738	12739	MHS090026	MHS090027	D/S	6550	SPS090013	8	VCP			301	298.5
4	3_Moderate	70					12	2366				Y	KATELLA	10/20/2006	9015	9014	MHL050052	MHL050051	U/S	4066	SPL050019	12	VCP			370	382.7
1	3_Moderate	71				27		7				x	12912 Shackelford Ln.	3/22/2004	9382	9383	MHL120018	MHL130007	DS	3138	SPL120018	8	VCP	3		295	289
2	3_Moderate	71					G012	12					MACKAY ST	7/27/2005	8056	8006	MHK080031	MHK080030	U/S	2410	SPK080053	8	VCP			293	203.2
4	3_Moderate	71					17	2478				Y	GILBERT	1/18/2007	9280	9279	MHL990003	MHL990002	U/S	3680	SPL990003	8	VCP			372	373.9
1	3_Moderate	72		X		17		5				x	9770 Halekulani Dr.	3/5/2004	10750	11551	MHM110035	MHM110039	DS	2668	SPM110024	8	VCP	3		250	259
2	3_Moderate	72	2016-02-17				G052	3					SANDRA PL	11/16/2005	11899	11900	MHP130034	MHP140004	D/S	4966	SPP130025	12	VCP			650	653.7
3	3_Moderate	72			PPT		22	15					MARLENE	7/3/2007	9051	9052	MHL100020	MHL100021	D/S	3518	SPL100032	8	VCP			50	45
4	3_Moderate	72					1	1896				Y	ROSEBAY	4/1/2006	9159	9158	MHM990021	MHM990020	U/S	4376	SPM990004	8	VCP			335	330.8
1	3_Moderate	73	2019-12-18			46		19				x	12512 Pleasant Pl.	5/7/2004	9487	9488	MHM110014	MHM110015	DS	3573	SPM110015	8	VCP	3		398	397
2	3_Moderate	73					R003	9				Y	MAGNOLIA ST	7/27/2005	10799	10800	MHL080027	MHL080028	D/S	4342	SPL080027	8	VCP			255	250.1

Structural Defect Coding

Existing Sewer ID	Crack (C) L	Crack C	Crack M	Crack S	Crack H	Fracture (F) L	Fracture C	Fracture M	Fracture S	Fracture H	Broken (B) SV	Broken VV	Hole (H) SV	Hole VV	Joint (J) O S	Joint O M	Joint O L	Joint S S	Joint S M	Joint S L	Joint A	Deformed (D) V	Deformed H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
4396	1	2																												3	4	1.33
3114		1	5			1		3																							31	1.15
5778	1		17																											18	53	
4773	4	7	1																											12	18	1.50
4490	1	2																												3	4	1.33
3086								1							25										1		1				30	2.73
5891	8	1	5			2	1	3																						20	52	
4771	1	3	4																											8	17	2.13
4525																2														2	6	3.00
2900	4		3			1	1	2																							30	2.14
6235	1	4	12				3									1														21	51	
4777	1	3																												4	5	1.25
4413	3																													3	6	2.00
6462		3	4				7	5																						19	49	
4780	1	1	1																											3	6	2.00
4414	3																													3	6	2.00
3140			9			1																									29	2.23
3861	4		3																									16		23	49	
4779	11	4	1																											16	29	1.81
3663	1																													1	2	2.00
2625	1		3					3							6																28	3.50
6283	1	2	3			1	12	2																						21	48	
2015								1																						1	4	4.00
5525		1																												1	1	1.00
3403			4					4																							28	2.55
1848	3		14																											17	48	
1883																1														1	3	3.00
5520	4	2																												6	10	1.67
719	1	3	5					2																							28	2.15
1802			1					2																						3	11	3.67
3671	4																													4	8	2.00
2736		5	5				2	1																							28	2.15
5231	6	5	10																											21	47	
3241		1	1				1	1																						4	10	2.50
4395		2	1																											3	5	1.67
2528	4	4	4					1																							28	2.33
6543	4		13																											17	47	
3243			2				1																							3	8	2.67
4512		2	1																											3	5	1.67
2509	5	2	4					1																							27	1.42
3638																												17		17	34	2.00
2910		2				1		2							14																27	3.00
6421	1	1	1				2								2													17		24	46	
4503																												17		17	34	2.00
3137	1		7					1																							27	2.08
6096	1	1	1			9	4	1																						17	45	
4504																												17		17	34	2.00
2393	1	6	5					1																							26	2.89
6440			5				5	5																						15	45	
335							1	1																						2	6	3.00
3672	1																													1	2	2.00
3147	3		4					2																							25	3.13
4439			3																									18		21	45	
3673	1																													1	2	2.00
763	1		3				1	3																							25	2.27
3822	10	7	3					2																						22	44	
7495																1														1	3	3.00
3600	2	2	4																											8	18	2.25
6430	5	5	9				1																							20	44	
5183		1	4																											5	13	2.60
3601	2	2	4																											8	18	2.25
3391			7					1																							25	2.08
4229	8		9																											17	43	
3506							1																							1	2	2.00
3639			2																											2	6	3.00
3570	1					2									1													8			24	2.67
6256	2		13																											15	43	
4506			2																											2	6	3.00
3134	4		2			2		1																							23	2.88
6550	6	1	4			1	1	3																						16	42	
4066	5	1	3																											9	20	2.22
3138	1	1	3			1		2																							23	2.09
2410	1		12				2																							15	42	
3680	7	1																												8	15	1.88
2668	1	4	5				1																								22	3.14
4966	2	3	4				3	4																						16	41	
3518							1																							1	2	2.00
4376	7	1																												8	15	1.88
3573		1	2			1		3																							22	2.44
4342	7		9																											16	41	

Operational and Maintenance

Existing Sewer ID	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots (R) Fine (F) B	Fine L	Fine J	Fine C	Tap (T) B	Tap L	Tap J	Tap C	Medium (M) B	Medium L	Medium J	Medium C	Ball (B) B	Ball L	Ball J	Ball C	Infiltration (I) G	Infiltration D	Infiltration R	Infiltration W	Obstacles (OB) Other C	Other Z	Other %	Vermin (V) C	Vermin R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
4396	185	20				4			2	19							2	1											1	2				234	456	1.95
3114	1							24	2			1	2			2	3				1														21	2.63
5778	16																																	16	32	
4773										2																								2	2	1.00
4490	185	20				4			2	19							2	1											1	2				234	456	1.95
3086						1	20.00																												0	0.00
5891		98	5.00																												1			99	197	
4771																																		0	0	0.00
4525	48					25								1																	32			106	205	1.93
2900																																			8	0.13
6235	2					1	5.00																											4	9	
4777																																		0	0	0.00
4413	176								1	3																								180	356	1.98
6462	24	24	5.00	1	5.00					1																					1			51	100	
4780	52																																	52	104	2.00
4414	176								1	3																								180	356	1.98
3140								19			1	1				1	3																		45	2.07
3861						2	5.00																								1			3	7	
4779	73																																	73	146	2.00
3663	57					28		4		10							1	1																101	222	2.20
2625						3	5.00	9	1			1				2	2																		3	0.74
6283																																		0	0	
2015																																		0	0	0.00
5525	13	6																													1			20	39	1.95
3403						1	10.00																												3	0.08
1848	1																																	1	2	
1883																																		0	0	0.00
5520	9																												1	10				10	22	2.20
719												1																							37	0.99
1802																																		0	0	0.00
3671	78					8																												86	180	2.09
2736								17	1																										17	1.54
5231	1									7																								8	9	
3241																																		0	0	0.00
4395	175	81							1																						15			272	528	1.94
2528						1	5.00	1	1								1				1		1												5	0.03
6543	94	15	5.00	1	40.00					1																								112	225	
3243																																		0	0	0.00
4512	175	81							1																						15			272	528	1.94
2509								1									1																		166	1.19
3638	124					10			3	3																			1	5				141	288	2.04
2910	77																																		54	3.00
6421	78	30	5.00	1	10.00												1												1	10	2			113	227	
4503	124					10			3	3																			1	5				141	288	2.04
3137						18	5.00																												0	0.00
6096	1	18	5.00			1	10.00																								5			25	46	
4504	124					10			3	3																			1	5				141	288	2.04
2393																																			27	0.52
6440	3					1	5.00																											4	9	
335																																		0	0	0.00
3672	130								1	6							1																	138	270	1.96
3147								9				3																							39	0.54
4439	1							1		2																								4	6	
3673	130								1	6							1																	138	270	1.96
763	7											3	2								2														55	1.13
3822	43					1	5.00																											44	89	
7495																																		0	0	0.00
3600	62	29								5																					1			97	188	1.94
6430	97																																	97	194	
5183																																		0	0	0.00
3601	62	29								5																					1			97	188	1.94
3391								5	1							1	1				1														27	0.17
4229																																		0	0	
3506																																		0	0	0.00
3639	141	60				36			1																						2			240	513	2.14
3570								13	1																										138	3.00
6256																																		1	2	
4506	141	60				36			1																						2			240	513	2.14
3134						46	5.00																												0	0.00
6550		16	5.00	1	20.00				1	42							1	1																62	83	
4066	75					70																												145	360	2.48
3138																																			3	0.05
2410	2																														1			3	5	
3680	100																														2			102	202	1.98
2668																	1																		56	1.74
4966						1	5.00		9	2							3				2													17	31	
3518																																		0	0	0.00
4376	83	47								7																					1			138	268	1.94
3573								25	2							1																			4	0.25
4342	4									7																					1			12	16	

Construction Features

Existing Sewer ID	Tap (Lateral) (T) FD	FL	BI	BD	Line (L) D	L	U	R	LD	RD	Intruding Seal Material (IS) SRH	SRB	SRL	Z	Miscellaneous (M) SA	CU	MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
4396																		0					
3114	1																						Replace pipe
5778																							
4773																							
4490																		0				Multiple reaches were evaluated with one inspection.	
3086			5	1											1				TBI		Removed 4" break in tap and installed 6" x 4" wye.		Replace pipe
5891																							
4771																							
4525																		0				Multiple reaches were evaluated with one inspection. Several small to medium joint offsets	Pipe is in good condition. Very small trib area. No immediate action
2900																							Reline
6235					1																	314.2' (D/SL) JOM, LINE= DOWN AND RIGHT	
4777																							
4413																		0				Multiple reaches were evaluated with one inspection.	
6462																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
4780																							
4414																		0				Multiple reaches were evaluated with one inspection.	
3140	1																						Replace pipe
3861																							
4779																							
3663																		0					
2625																							Replace pipe
6283																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
2015			2																				
5525																		0					
3403																							Reline, Clear deposit
1848																							
1883																							
5520																		0					
719																							Reline, Cut roots
1802																							
3671				1														3					
2736	1																						Replace pipe
5231																							
3241			1																				
4395																		0				Multiple reaches were evaluated with one inspection.	
2528																							Reline, Clear D&R
6543																1						HIGH FLOW	
3243			2																				
4512																		0				Multiple reaches were evaluated with one inspection.	
2509																							Reline, Cut roots
3638	1																	2				Multiple reaches were evaluated with one inspection.	
2910			3	1											2				Camera roll over, JOS		Cut out section of 6" VCP sewer main to remove camera that was stuck.		Replace pipe
6421																						OBZ=OBJ (OBSTACLE IN JOINT), SAG	
4503	1																	2				Multiple reaches were evaluated with one inspection.	
3137																							Reline, Clear deposit
6096																							
4504	1																	2				Multiple reaches were evaluated with one inspection.	
2393																							Reline
6440																							
335																							
3672																		0				Multiple reaches were evaluated with one inspection.	
3147																							Reline, Cut roots
4439																							
3673																		0				Multiple reaches were evaluated with one inspection.	
763	2																						Replace pipe
3822																							
7495			1												1							MSA = JOM	
3600																		0				Multiple reaches were evaluated with one inspection.	
6430																							
5183																							
3601																		0				Multiple reaches were evaluated with one inspection.	
3391																							Reline, Cut roots
4229																							
3506																							
3639																		0				Multiple reaches were evaluated with one inspection.	
3570																							Replace pipe
6256					1																		
4506																		0				Multiple reaches were evaluated with one inspection.	
3134																							Reline, Clear deposit
6550																							
4066				3														9				Atlas indicates 15-inch pipe.	
3138																							Reline
2410																							
3680																		0					
2668																							Reline, Cut roots
4966																					Removed saddle and cleared roots from saddle and 4" lateral and re-installed saddle and lateral with new 1/8th bend.		
3518																							
4376																		0					
3573																					Replaced 2 8" x 4" VCP wyes and 8' of 8" VCP main.		Replace pipe
4342																							

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location: Street Name	CCTV Date	Existing MH ID: Start	Existing MH ID: End	Previous MH ID: Start	Previous MH ID: End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
3	3_Moderate	73			PPT		24	28				Y	MAGNOLIA	7/11/2007	9054	9055	MHL100023	MHL110063	D/S	3521	SPL100035	8	VCP			300	305
4	3_Moderate	73					3	2191				Y	RANDOM	6/7/2006	9289	9279	MHM990017	MHL990002	D/S	3444	SPL990007	8	VCP			337	323.4
1	3_Moderate	74		X		33		17				x	12641 Josephine St.	4/1/2004	8377	8378	MHK110003	MHK110004	DS	3348	SPK110003	8	VCP	3		350	349
2	3_Moderate	74					G027	5					DEBBIE LN	8/23/2005	13074	13076	MHR070002	MHR080005	D/S	6576	SPR080014	8	VCP			338	339.0
4	3_Moderate	74					7	2278				Y	PALAIS	8/21/2006	9202	9189	MHM020046	MHM020043	D/S	4507	SPM020009	8	VCP			345	348.6
1	3_Moderate	75		X		12		10				x	13231 Adland St.	2/27/2004	11202	11203	MHO140013	MHO140014	DS	2295	SPO140051	8	VCP	3		332	330
2	3_Moderate	75					G033	3				Y	NIETA DR	9/1/2005	12577	12578	MHQ090041	MHQ090042	D/S	4750	SPQ090023	8	VCP			345	348.1
4	3_Moderate	75					8	2284				Y	CHANTICLEER	8/23/2006	9203	9268	MHM020003	MHM020002	U/S	3640	SPM020030	8	VCP			350	354.1
2	3_Moderate	76					G004	3					DALE ST	7/15/2005	8045	8046	MHJ060003	MHK060015	D/S	1899	SPK060036	8	VCP			259	258.1
4	3_Moderate	76					3	2203				Y	COLCHESTER	6/19/2006	9312	9310	MHM000011	MHM000008	U/S	3470	SPM000012	8	VCP			266	530.9
1	3_Moderate	77				27		17					9301 Nicholas Dr.	3/23/2004	8475	8476	MHL130004	MHL130005	DS	3135	SPL130003	8	VCP			214	211
2	3_Moderate	77					G009	5					DALE ST	7/22/2005	8512	0	MHK080045	MHK080046	D/S	7085	SPK080049	8	VCP			210	199.9
4	3_Moderate	77					3	2203				Y	COLCHESTER	6/19/2006	9310	9160	MHM000011	MHM000008	U/S	5029	SPM000018	8	VCP			266	530.9
1	3_Moderate	78				27		10					12741 Gilbert St.	3/22/2004	8454	8455	MHL120001	MHL120002	DS	3113	SPL120002	8	VCP			265	251
2	3_Moderate	78					G057	2				Y	MAGNOLIA AV	12/11/2005	10844	10845	MHL060039	MHL070050	D/S	5331	SPL060043	8	VCP			380	380.0
4	3_Moderate	78					5	2231				Y	GUINIDA	7/17/2006	9329	9328	MHM010005	MHM010003	U/S	3474	SPM010026	8	VCP			150	451.0
1	3_Moderate	79				48		23					12291 Christine Ln.	5/14/2004	9534	9535	MHM100032	MHM100033	DS	3271	SPM100035	8	VCP			240	244
2	3_Moderate	79					R048	13					DAPPLEGRAY RD	11/1/2005	11991	11992	MHR140033	MHR140034	D/S	3965	SPR140037	8	VCP			360	347.0
4	3_Moderate	79					5	2231				Y	GUINIDA	7/17/2006	9330	9329	MHM010005	MHM010003	U/S	3477	SPM010028	8	VCP			66	451.0
1	3_Moderate	80		X		17		19				x	9261 Stanford Ave.	3/6/2004	8464	8463	MHL120008	MHL120007	US	3123	SPL120008	8	VCP	3		330	321
2	3_Moderate	80					G057	1				Y	MACDUFF ST	12/11/2005	0	0	MHK050010	MHK050026	D/S	2429	SPK050047	8	VCP			290	295.5
4	3_Moderate	80					5	2231				Y	GUINIDA	7/17/2006			MHM010005	MHM010003	U/S		SPM010027	8	VCP			451	451.0
1	3_Moderate	81				12		9				x	13181 Westlake St.	2/26/2004	11095	11101	MHO130024	MHO140030	DS	2834	SPO130022	12	VCP	3		550	563
2	3_Moderate	81					G031	12				Y	JOHN AV	8/30/2005	12567	12570	MHQ090029	MHQ090032	D/S	4740	SPQ090013	8	VCP			290	286.5
3	3_Moderate	81	2016-05-24		PPT		34	4					DEWEY	8/14/2007	10255	10256	MHM050016	MHM050017	D/S	4543	SPM050029	8	VCP			275	282
4	3_Moderate	81					8	2282				Y	AIMES	8/23/2006	9344	9347	MHM020008	MHM020013	U/S	3488	SPM020033	8	VCP			399	406.5
1	3_Moderate	82				17		7				x	12692 Pleasant Pl.	3/5/2004	10752	10751	MHM110037	COM110036	US	2669	SPM110025	8	VCP	3		120	121
2	3_Moderate	82					G011	9					YORKSHIRE AV	7/26/2005	10288	10289	MHK070004	MHK070014	D/S	3873	SPK070005	8	VCP			55	271.3
4	3_Moderate	82					12	2361				Y	ENDRY	10/11/2006	8965	8966	MHM040008	MHM040009	D/S	3676	SPM040032	8	VCP			266	264.1
1	3_Moderate	83				25		11				x	9160 Stanford Ave.	3/18/2004	8485	8486	MHL120021	MHL120022	DS	3146	SPL120020	8	VCP	3		329	329
2	3_Moderate	83					R049	2					ROCKINGHORSE RD	11/2/2005	10912	10913	MHQ130033	MHQ140025	D/S	4468	SPQ140041	8	VCP			205	202.0
3	3_Moderate	83	2016-07-13		PPT		35	35					BARCLAY	8/22/2007	9747	9748	MHM050019	MHM050020	D/S	4580	SPM050008	8	VCP			405	408
4	3_Moderate	83					MIXE D 1	2389				Y	JEAN	10/31/2006	8348	8349	MHM040019	MHM040020	D/S	4415	SPM040041	8	VCP			235	231.0
1	3_Moderate	84		X		37		17				x	8332 Acacia Ave.	4/9/2004	7696	7698	MHJ120008	MHJ120010	DS	729	SPJ120009	8	VCP	3		256	255
2	3_Moderate	84					R005	6					MARYLEE DR	8/1/2005	10313	10315	MHK080018	MHK080020	D/S	5925	SPK080022	8	VCP			280	277.6
4	3_Moderate	84					8	2283				Y	CHANTICLEER	8/23/2006	9345	9346	MHM020009	MHM020010	D/S	3486	SPM020032	8	VCP			295	307.7
1	3_Moderate	85		X		31		9					13251 Lucille St.	3/30/2004	11563	11564	MHL140001	MHL140002	DS	3098	SPL140024	8	VCP			313	313
2	3_Moderate	85					G013	11				Y	ARTHUR DR	7/28/2005	8597	8598	MHJ080034	MHJ080035	D/S	2422	SPJ080033	8	VCP			250	252.8
4	3_Moderate	85					10	2329				Y	CRIS	9/26/2006	9231	9232	MHM030014	MHM030015	U/S	3602	SPM030018	8	VCP			270	264.9
1	3_Moderate	86				5		22					10732 Claussen St.	2/10/2004	11089	11138	MHO110019	MHO110020	DS	2926	SPO110032	8	VCP			370	358
2	3_Moderate	86					R005	1				Y	MACNAB ST	8/1/2005	10308	10309	MHK080013	MHK080014	D/S	5889	SPK080017	8	VCP			235	225.9
3	3_Moderate	86	2016-03-01		PPT		35	32					KATELLA AVE	8/20/2007	9725	9726	MHM050025	MHM050026	D/S	5052	SPM050011	8	VCP			145	152
4	3_Moderate	86					8	2294				Y	RHIEMS	8/30/2006	9209	9207	MHM020012	MHM020007	D/S	4515	SPM020017	8	VCP			375	376.8
1	3_Moderate	87				16		4					13281 Westlake St.	3/3/2004	11106	11107	MHO140035	MHO140036	DS	2357	SPO140022	8	VCP			335	346
2	3_Moderate	87					R002	9					CLOVER LN	7/26/2005	10795	10796	MHL080023	MHL080024	D/S	4338	SPL080023	8	VCP			338	333.7
3	3_Moderate	87	2016-04-06		PPT		35	34					MAUREEN	8/22/2007	9730	9731	MHM050029	MHM050030	D/S	5058	SPM050015	8	VCP			300	302
4	3_Moderate	87					8	2283				Y	CHANTICLEER	8/23/2006	9344	9345	MHM020008	MHM020009	D/S	3485	SPM020031	8	VCP			290	290.8
1	3_Moderate	88				18		22				x	13390 Bowen St.	3/9/2004	11303	11304	MHN140021	MHN140022	DS	2902	SPN140010	8	VCP	3		210	201
2	3_Moderate	88					R018	8					CHAPMAN AV	8/29/2005	13015	13024	MHS090008	MHS090009	D/S	6231	SPS090035	12	VCP			340	339.2
3	3_Moderate	88	2016-03-29		PPT		36	43					DEWEY	8/28/2007	10039	10041	MHM050036	MHM050038	D/S	4180	SPM050041	8	VCP			277	281
4	3_Moderate	88					12	2357				Y	ENDRY	10/9/2006	8964	8963	MHM040008	MHL040005	U/S	3674	SPL040006	8	VCP			295	592.1
1	3_Moderate	89				8		3				x	12621 Flower St.	2/16/2004	11265	11266	MHN110013	MHN110014	DS	2550	SPN110018	8	VCP	3		250	254
2	3_Moderate	89					R020	4					BUARO ST	8/31/2005	12200	12201	MHR090023	MHR090024	D/S	5675	SPR090017	10	VCP			145	153.1
3	3_Moderate	89			PPT		34	14					BROOKHURST	8/15/2007	10350	9705	MHM050042	MHM050041	U/S	4168	SPM050048	10	VCP			94	94
4	3_Moderate	89					12	2357				Y	ENDRY	10/9/2006	8965	8964	MHM040008	MHL040005	U/S	3675	SPM040031	8	VCP			289	592.1
1	3_Moderate	90				47		15				x	9532 Lambert Cir.	5/11/2004	9517	9519	MHM110025	MHL110059	DS	3223	SPM110044	8	VCP	3		215	213
2	3_Moderate	90					G022	1				Y	JACALENE LN	8/16/2005	13119	13120	MHQ070005	MHQ080008	D/S	5768	SPQ070028	8	VCP			250	252.8
3	3_Moderate	90			PPT		34	18					BROOKHURST	8/15/2007	9946	9950	MHM050044	MHM060043	D/S	5016	SPM050019	10	VCP			287	282
4	3_Moderate	90					6	2256				Y	BIENVILLE	8/3/2006	9175	9114	MHM010012	COM010001	U/S	4389	SPM010001	8	VCP			100	441.5
1	3_Moderate	91		X		34		21				x	12551 Dale Ave.	4/5/2004	8435	8436	MHK110027	MHK110028	DS	3414	SPK110037	8	VCP	3.5		348	348
2	3_Moderate	91					G030	3					CHAPMAN AV	8/29/2005	13115	13116	MHQ090045	MHQ090046	D/S	6272	SPQ090057	12	VCP			148	240.3
3	3_Moderate	91	2016-04-20		PPT		36	14					CAROLEEN	8/24/2007	10010	10011	MHM060011	MHM070064	D/S	5540	SPM060013	8	VCP			210	211
4	3_Moderate	91					17	2481				Y	GILBERT	1/22/2007			MHL000002	MHL990005	U/S		SPL00002	8	VCP			571	571.2
1	3_Moderate	92				29		23					13271 Kelly St.	3/29/2004	11572	11573	MHL140008	MHL140009	DS	2949	SPL140034	8	VCP			245	247
2	3_Moderate	92					G022	10					JANETTE LN	8/16/2005	12241	12242	MHQ070011	MHQ070012	D/S	6312	SPQ070003	8	VCP			285	287.7
3	3_Moderate	92	2017-07-26		PPT		36	13					GARDENAIRE	8/24/2007	10018	10019	MHM060016	MHM070066	D/S	3686	SPM060018	8	VCP			252	253
4	3_Moderate	92					17	2481				Y	GILBERT	1/22/2007			MHL000002	MHL990005	U/S		SPL00001	8	VCP			571	571.2
1	3_Moderate	93		X		20		2				x	12601 Leroy Ave.	3/9/2004	8479	8480	MHL110037	MHL110038	DS	3141	SPL110034	8	VCP	3		475	376
2	3_Moderate	93					R049	1				Y	ROCKINGHORSE RD	11/2/2005	10911	10912	MHQ130032	MHQ130033	D/S	4467	SPQ130032	8	VCP			195	203.4
3	3_Moderate	93	2016-11-08		PPT		36	17					BARCLAY	8/24/2007	10092	10093	MHM060018	MHM070067	D/S	4687	SPM060032	8	VCP			265	266
4	3_Moderate	93					5	2238				Y	PERDIDO	7/19/2006	9181	9180	MHM010021	MHM010019	U/S	4393	SPM010005	8	VCP			284	565.7
1	3_Moderate	94				16		16					12642 Susan Ln.	3/4/2004	10745	10746	MHM110030	MHM110031	DS	2663	SPM110019	8	VCP			200	167
2	3_Moderate	94					R064	6				Y	EASEMENT	12/5/2005	6738	6739	MHS130005	MHS130006	D/S	559	SPS130015	8	VCP			316	384.1
3	3_Moderate	94	2016-10-20		PPT		36	23					PARLIAMENT	8/27/2007	10023	10025	MHM060026	MHM060028	D/S	3690	SPM060022	8	VCP			282	284
4	3_Moderate	94					5	2238				Y	PERDIDO	7/19/2006	9182	9181	MHM010021	MHM010019	U/S	4394	SPM010006	8	VCP			270	565.7
1	3_Moderate	95				17		6				x	9731 Halekulani Dr.	3/5/2004	11551	12044	MHM110039	MHM110042	DS	3074	SPM110056	8	VCP	3		312	310
2	3_Moderate	95					G017	4					LA GRAND AV	8/3/2005	10280	10281	MHK050011	MHK050012	D/S	3772	SPK050030	8	VCP			300	300.9
3	3_Moderate	95	2016-10-18		PPT		36	30					CAROLEEN	8/27/2007	10024	10025	MHM060027	MHM060028	D/S	3691	SPM060023	8	VCP			237	237
4	3_Moderate	95					9	2319				Y	ANTIGUA	9/20/2006	9204	9189	MHM020004	MHM020043	U/S	4513	SPM020015	8	VCP			300	295.6
1	3_Moderate	96				23		16					12802 Hazel Ave.	3/17/2004	8495	8496	MHL120029	MHL120030	DS	3155	SPL120028	8	VCP			303	303
2	3_Moderate	96					G025	10					KATHY LN	8/19/2005	13131	13132	MHQ080033	MHQ080034	D/S	5841	SPQ080041	8	VCP			340	340.4
3	3_Moderate	96	2016-10-06		PPT		36	31					RAINIER	8/27/2007	10026	10027	MHM060029	MHM060030	D/S	3693	SPM060025	8	VCP			240	239
4	3_Moderate	96					MIXE D 2	2446				Y	BERRY	12/18/2006	8339	8338	MHL040017	MHL040015	U/S	5021	SPL040015	8	VCP			307	635.3
1	3_Moderate	97		X		32		16					12712 Aristocrat Ave.	4/1/2004	8386	8388	MHK120001	MHK120003	DS	3360	SPK120004	8	VCP			240	245
2	3_Moderate	97					R009	11				Y	ORANGEWOOD AV	8/9/2005	10157	10158	MHL070028	MHL070029	D/S	5300	SPL070022	8	VCP			360	359.3
3	3_Moderate	97			PPT		35	40					BARCLAY	8/22/2007	10186	10100	MHM060034	MHM060035	D/S	4695	SPM060036	8	VCP			320	321
4	3_Moderate	97					MIXE D 2	2446				Y	BERRY	12/18/2006	8340	8339	MHL040017	MHL040015	U/S	5022	SPL040016	8	VCP			307	635.3
1	3_Moderate	98		X		21		24					10862 Garden Grove Blvd.	3/16/2004	12261	12267	MHO130004	MHO130005	DS	4454	SPO130004	12	VCP			400	390
2	3_Moderate	98					R061	11				Y	NEWHOPE ST	11/29/2005	13183	11467	MHQ140014-A	MHQ150006	D/S	5736	SPQ140022	8	VCP			218	114.4

Structural Defect Coding

Street Name	Crack (C) L	C	M	S	H	Fracture (F) L	C	M	S	H	Broken (B) SV	VV	Hole (H) SV	VV	Joint (J) O S	O M	O L	S S	S M	S L	A	Deformed (D) V	H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
MAGNOLIA											1																			1	5	5.00
RANDOM	4		2																											6	14	2.33
12641 Josephine St.		2	6				1																								21	2.33
DEBBIE LN	1	2	3				4	5																						15	41	
PALAIS	2	4	1																											7	11	1.57
13231 Adland St.	2	3		1				3																							21	2.63
NIETA DR	1	1	5				1	5							1															14	41	
CHANTICLEER	3	3	2																											8	15	1.88
DALE ST	2		1																									17		20	41	
COLCHESTER																														0	0	0.00
9301 Nicholas Dr.	1	1	4				1	1																							21	2.63
DALE ST		1				1		1								1												15		19	41	
COLCHESTER																														0	0	0.00
12741 Gilbert St.		2	5					1																							21	2.33
MAGNOLIA AV	1	6	8					2																						17	40	
GUINIDA	1																													1	2	2.00
12291 Christine Ln.	1		1					1																				6			20	3.33
DAPPLEGRAY RD			2					1																				15		18	40	
GUINIDA	1																													1	2	2.00
9261 Stanford Ave.			3			1		2																							20	2.86
MACDUFF ST	11	14	1																											26	39	
GUINIDA	1																													1	2	2.00
13181 Westlake St.			6				1																								20	2.50
JOHN AV	2	3	4			2	1	3																						15	39	
DEWEY							1	1																						2	6	3.00
AIMES			1																											1	3	3.00
12692 Pleasant Pl.	1	1				5	1																								19	3.17
YORKSHIRE AV			13																											13	39	
ENDRY	7	2																												9	16	1.78
9160 Stanford Ave.			2			1	1	2																							19	2.71
ROCKINGHORSE RD			1																									18		19	39	
BARCLAY							2	1																						3	8	2.67
JEAN		2																												2	2	1.00
8332 Acacia Ave.	1	1	2				1	2																							19	2.38
MARYLEE DR	4		10																											14	38	
CHANTICLEER	3	2	3																											8	17	2.13
13251 Lucille St.	2	1	4				1																								19	1.00
ARTHUR DR							1																					18		19	38	
CRIS	4	3	1																											8	14	1.75
10732 Claussen St.		19																													18	2.25
MACNAB ST	1		3													1												12		17	38	
KATELLA AVE							1																							1	2	2.00
RHIEMS	1	1																												2	3	1.50
13281 Westlake St.	1	3	3					1																							18	2.57
CLOVER LN	4	2	9																											15	37	
MAUREEN	1						1																							2	4	2.00
CHANTICLEER	2	1	3			1																								7	17	2.43
13390 Bowen St.	4		1			1		1																							17	2.83
CHAPMAN AV	8		7																											15	37	
DEWEY							1	1																						2	6	3.00
ENDRY	7	1																												8	15	1.88
12621 Flower St.		1	1					3							1																17	2.43
BUARO ST			1																									17		18	37	
BROOKHURST								1																						1	4	4.00
ENDRY	7	1																												8	15	1.88
9532 Lambert Cir.	1		1				4	1																							17	2.83
JACALENE LN		1					2																					16		19	37	
BROOKHURST							1																							1	2	2.00
BIENVILLE																		1												1	2	2.00
12551 Dale Ave.	2		3					1																							17	2.83
CHAPMAN AV		2	1																									16		19	37	
CAROLEEN							2																							2	4	2.00
GILBERT	2	1																												3	5	1.67
13271 Kelly St.		1	4					1																							17	2.83
JANETTE LN	1		4				1	5																						11	36	
GARDENAIRE		1				1																								2	4	2.00
GILBERT	2	1																												3	5	1.67
12601 Leroy Ave.	1		3			2																									16	2.29
ROCKINGHORSE RD																												18		18	36	
BARCLAY								1																						1	4	4.00
PERDIDO	2	5																												7	9	1.29
12642 Susan Ln.		3	3					1																							16	2.00
EASEMENT		1	3																									13		17	36	
PARLIAMENT							1																							1	2	2.00
PERDIDO	2	5																												7	9	1.29
9731 Halekulani Dr.		3	3				2																								16	2.29
LA GRAND AV	4		3			2	2	2																						13	35	
CAROLEEN							1																							1	2	2.00
ANTIGUA	1	1																												2	3	1.50
12802 Hazel Ave.	1	2	4																												16	2.67
KATHY LN		2	5				1	4																						12	35	
RAINIER							3	3																						6	18	3.00
BERRY	10	2																												12	22	1.83
12712 Aristocrat Ave.	2		4																												16	2.29
ORANGEWOOD AV	2	1	6					3																						12	35	
BARCLAY							1																							1	2	2.00
BERRY	10	2																												12	22	1.83
10862 Garden Grove Blvd.	1	2	4																												15	3.00
NEWHOPE ST			1																									16		17	35	

Operational and Maintenance

Street Name	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots Fine (F) B	L	J	C	Tap (T) B	L	J	C	Medium (M) B	L	J	C	Ball (B) B	L	J	C	Infiltration (I) G	D	R	W	Obstacles (OB) Other C	Z	%	Vermin (V) C	R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
MAGNOLIA																																		0	0	0.00
RANDOM	106	6						2		6																					2			122	236	1.93
12641 Josephine St.																																			14	0.29
DEBBIE LN									1	1																								2	2	
PALAIS	114	13				18				1																								146	309	2.12
13231 Adland St.						2	5.00	2																				1		5					41	1.75
NIETA DR	4	7	5.00	2	20.00					5							1	1													2			22	39	
CHANTICLEER	77								4								1	2																84	167	1.99
DALE ST						32	5.00																											32	96	
COLCHESTER	173	111																													30			314	598	1.90
9301 Nicholas Dr.						1	5.00																												3	3.00
DALE ST	2									25																								27	29	
COLCHESTER	173	111																													30			314	598	1.90
12741 Gilbert St.						1	5.00																												0	0.00
MAGNOLIA AV	121									1																					2			124	245	
GUINIDA	145	61							1	14							1																	222	430	1.94
12291 Christine Ln.																																			11	0.60
DAPPLEGRAY RD																	1																	1	3	
GUINIDA	145	61							1	14							1																	222	430	1.94
9261 Stanford Ave.								2																							7				7	2.33
MACDUFF ST																																		0	0	
GUINIDA	145	61							1	14							1																	222	430	1.94
13181 Westlake St.								2											1																0	0.00
JOHN AV	6	49	5.00																															55	110	
DEWEY																																		0	0	0.00
AIMES	119					11				1																								131	272	2.08
12692 Pleasant Pl.																																			33	1.18
YORKSHIRE AV										1																					1			2	2	
ENDRY						51																												51	153	3.00
9160 Stanford Ave.	11							3				1																							11	0.88
ROCKINGHORSE RD																																		0	0	
BARCLAY																																		0	0	0.00
JEAN	7	9								2																								18	34	1.89
8332 Acacia Ave.						1	10.00	3					1																						5	2.50
MARYLEE DR																																		0	0	
CHANTICLEER	120	12				22																												154	330	2.14
13251 Lucille St.								1				1																							0	0.00
ARTHUR DR	64	58	5.00	2	20.00				2	3				1		1	1				1													133	266	
CRIS	30					5			3	2																								40	80	2.00
10732 Claussen St.																																			0	0.00
MACNAB ST	17	23	5.00	1	5.00																													41	82	
KATELLA AVE																																		0	0	0.00
RHIEMS	81					6			1	2								1													1			92	187	2.03
13281 Westlake St.																																			0	0.00
CLOVER LN																																		0	0	
MAUREEN																																		0	0	0.00
CHANTICLEER	78	32				24																												134	292	2.18
13390 Bowen St.																																			5	0.14
CHAPMAN AV																																		5	20	
DEWEY																																		0	0	0.00
ENDRY	196					45				2																								243	529	2.18
12621 Flower St.								1																							1				32	1.15
BUARO ST																																		1	2	
BROOKHURST																																		0	0	0.00
ENDRY	196					45				2																								243	529	2.18
9532 Lambert Cir.								7	1			5	1																						12	1.71
JACALENE LN	3	46	5.00																															50	100	
BROOKHURST																																		0	0	0.00
BIENVILLE	119					15		2		5																					2			143	294	2.06
12551 Dale Ave.								3	3								1																		0	0.00
CHAPMAN AV	1																																	1	2	
CAROLEEN																																		0	0	0.00
GILBERT	21					48																									2			71	188	2.65
13271 Kelly St.																																			79	1.39
JANETTE LN	2					2	5.00																											4	10	
GARDENAIRE																																		0	0	0.00
GILBERT	21					48																									2			71	188	2.65
12601 Leroy Ave.	6					1	10.00	10				4				3	5		1																24	2.00
ROCKINGHORSE RD																																		0	0	
BARCLAY																																		0	0	0.00
PERDIDO	150	59				26			2	13							1																	251	514	2.05
12642 Susan Ln.								12																											0	0.00
EASEMENT	17					3	5.00		5	30	1										3													59	91	
PARLIAMENT																																		0	0	0.00
PERDIDO	150	59				26			2	13							1																	251	514	2.05
9731 Halekulani Dr.																																			2	0.40
LA GRAND AV																																		0	0	
CAROLEEN																																		0	0	0.00
ANTIGUA	97					50																												147	344	2.34
12802 Hazel Ave.								1																											2	2.00
KATHY LN										2																								2	2	
RAINIER																																		0	0	0.00
BERRY		27						1		5																								33	61	1.85
12712 Aristocrat Ave.								1																											0	0.00
ORANGEWOOD AV		94	5.00							3																								97	191	
BARCLAY																																		0	0	0.00
BERRY		27						1		5																								33	61	1.85
10862 Garden Grove Blvd.																																			7	0.44
NEWHOPE ST																																		1	2	

Construction Features

Street Name	Tap (Lateral) (T) FD	FL	BI	BD	Line (L) D	L	U	R	LD	RD	Intruding Seal Material (IS) SRH	SRB	SRL	Z	Miscellaneous (M) SA	CU	MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
MAGNOLIA			1																			High water level. Reverse inspection needed.	
RANDOM	1																	2					
12641 Josephine St.	2																						Reline, Repair lateral
DEBBIE LN																							
PALAIS																		0					
13231 Adland St.																							Replace pipe
NIETA DR																							
CHANTICLEER																		0					
DALE ST																						CONTINUOUS DAZ & 2 SAGS	
COLCHESTER	1																	2				Multiple reaches were evaluated with one inspection. Inspection report shows MHM000010 to MHM000008. MHM000010 is CO. Must be MHM000011 to MHM000008	
9301 Nicholas Dr.																							Reline, Clear deposit
DALE ST																						189.8' (D/SL) JOM, SAG	
COLCHESTER	1																	2				Multiple reaches were evaluated with one inspection. Inspection report shows MHM000010 to MHM000008. MHM000010 is CO. Must be MHM000011 to MHM000008	
12741 Gilbert St.																							Reline, Clear deposit
MAGNOLIA AV																							
GUINIDA	3																	6					
12291 Christine Ln.																							Replace pipe
DAPPLEGRAY RD																							
GUINIDA	3																	6				Multiple reaches were evaluated with one inspection.	
9261 Stanford Ave.																							Reline, Cut roots
MACDUFF ST																							
GUINIDA	3																	6				Multiple reaches were evaluated with one inspection.	
13181 Westlake St.																							Reline, Cut roots
JOHN AV																							
DEWEY	1		1																		Replaced sections of main with new wye.		
AIMES																		0					
12692 Pleasant Pl.																							Reline
YORKSHIRE AV																							
ENDRY																		0					
9160 Stanford Ave.	1																						Reline, Clr D&R, Fix Lat
ROCKINGHORSE RD																							
BARCLAY			2																		Replaced section of main.		
JEAN																		0					
8332 Acacia Ave.																							Reline, Clear D&R
MARYLEE DR																							
CHANTICLEER																		0					
13251 Lucille St.																							Reline, Cut roots
ARTHUR DR																						SAG	
CRIS																		0					
10732 Claussen St.																							Reline
MACNAB ST																						177.1' (D/SH) JOM, SAG	
KATELLA AVE																					Replaced section of 8" main.		
RHIEMS																		0					
13281 Westlake St.																							Reline
CLOVER LN																							
MAUREEN																					Replaced a section of sewer main.		
CHANTICLEER	1																	2					
13390 Bowen St.																							Reline
CHAPMAN AV																5							
DEWEY																					Replaced section of sewer main.		
ENDRY				2														6				Multiple reaches were evaluated with one inspection.	
12621 Flower St.	1																						Replace pipe
BUARO ST					1																	SAG	
BROOKHURST																							
ENDRY				2														6				Multiple reaches were evaluated with one inspection.	
9532 Lambert Cir.																							Reline, Cut roots
JACALENE LN	1																					CONTINUOUS DAGS, SAG	
BROOKHURST																							
BIENVILLE																		0				Multiple reaches were evaluated with one inspection. 8.1' & 47' JOM (D/SH)	
12551 Dale Ave.																							Reline, Cut roots
CHAPMAN AV																							
CAROLEEN																					Replaced wye and a section of main.		
GILBERT																		0				There are laterals 90.1' & 423.8'. GIS does not show this laterals.	
13271 Kelly St.																							Reline
JANETTE LN																							
GARDENAIRE																					Replaced section of main with VCP pipe.		
GILBERT																		0				There are laterals 90.1' & 423.8'. GIS does not show this laterals.	
12601 Leroy Ave.	1																						Replace pipe
ROCKINGHORSE RD																							
BARCLAY																					Replaced 24" long section of 8" main.		
PERDIDO																						Multiple reaches were evaluated with one inspection.	
12642 Susan Ln.																							Reline, Cut roots
EASEMENT																							
PARLIAMENT																					Replaced 8" x 4" wye and 30" of 8" main and 1-4" 1/8th bend.		
PERDIDO																						Multiple reaches were evaluated with one inspection.	
9731 Halekulani Dr.																							Reline
LA GRAND AV																							
CAROLEEN																					Replaced 8" x 4" wye and 3' of 8" main.		
ANTIGUA																		0					
12802 Hazel Ave.																							Reline, Cut roots
KATHY LN																							
RAINIER																					Replaced sections of main.		
BERRY	1																	2				Multiple reaches were evaluated with one inspection.	
12712 Aristocrat Ave.																							Reline, Cut roots
ORANGEWOOD AV																							
BARCLAY																							
BERRY	1																	2				Multiple reaches were evaluated with one inspection.	
10862 Garden Grove Blvd.																							Reline
NEWHOPE ST					1																		

General / Pipe

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location: Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
4	3_Moderate	98					2	2000				Y	PARADE	4/18/2006	9296	9291	MHM990027	MHM990022	D/S	3452	SPM990030	8	VCP			300	296.6
1	3_Moderate	99				9		5				x	12635 Main St.	2/19/2004			MHO110004	MHO110003-A	US		SPO110003-A	8	VCP	3		112	112
2	3_Moderate	99					G004	1				Y	EASEMENT	7/15/2005	8033	8034	MHK060002	MHK060003	D/S	1886	SPK060026	8	VCP			285	295.6
3	3_Moderate	99	2017-03-15		PPT		36	39					VONS	8/28/2007	10104	10105	MHM060039	MHM060040	D/S	4700	SPM060040	8	VCP			325	334
4	3_Moderate	99					P COUNTY 3C	9				Y	GILBERT	10/12/2007	8942	9343	MHL030040	MHL030037	U/S	4060	SPL030007	10	VCP			300	328.3
1	3_Moderate	100				12		13				x	13421 Adland St.	2/27/2004	11205	11204	MHO140016	MHO140015	US	2529	SPO140053	8	VCP	3		305	306
2	3_Moderate	100					R022	1					ZETA ST	9/6/2005	12605	12606	MHQ100027	MHQ100028	D/S	5582	SPQ100002	8	VCP			320	321.5
3	3_Moderate	100	2017-01-24		PPT		38	3					FLAMINGO ALLEY	8/29/2007	10268	10269	MHM070001	MHM080007	D/S	4551	SPM080007	8	VCP			310	321
4	3_Moderate	100					13	2369				Y	KATELLA	10/20/2006	9631	9632	MHL050054	MHL050056	D/S	4071	SPL050029	12	VCP			236	430.3
1	3_Moderate	101		X		5		9				x	12362 Mc Leod St.	2/9/2004	11209	11210	MHO100018	MHO100019	DS	2386	SPO100019	8	VCP	3		273	274
2	3_Moderate	101					G032	10					NIETA DR	8/31/2005	13061	13062	MHQ090040	MHQ090041	D/S	6267	SPQ090036	8	VCP			15	354.3
3	3_Moderate	101			PPT		38	9					FLAMINGO	8/30/2007	10275	10276	MHM070002	MHM080013	D/S	4648	SPM080015	8	VCP			540	540
4	3_Moderate	101					13	2369				Y	KATELLA	10/20/2006	9632	9633	MHL050054	MHL050056	D/S	4072	SPL050030	12	VCP			185	430.3
1	3_Moderate	102				26		2					13311 Ontario Dr.	3/19/2004	12081	12082	MHM140017	MHM140018	DS	2518	SPM140041	8	VCP			320	322
2	3_Moderate	102					G026	7					DEBBIE LN	8/22/2005	13083	13082	MHR080014	MHR080013	U/S	5710	SPR080022	8	VCP			109	108.8
3	3_Moderate	102			PPT		38	1				Y	FLAMINGO ALLEY	8/29/2007	9624	9625	MHM070006	MHM070007	D/S	5044	SPM070010	8	VCP			304	306
4	3_Moderate	102					1	1936				Y	STONYBROOK	4/11/2006	9291	9159	MHM990022	MHM990021	U/S	5028	SPM990033	8	VCP			280	294.0
2	3_Moderate	103					G018	16				Y	ADAH ST	8/4/2005	7975	7976	MHK050038	MHK050039	D/S	1831	SPK050018	8	VCP			360	362.3
3	3_Moderate	103	2017-08-09		PPT		38	2					FLAMINGO ALLEY	8/29/2007	9625	10268	MHM070007	MHM070001	D/S	3697	SPM070037	8	VCP			295	299
4	3_Moderate	103					17	2486				Y	GILBERT	1/25/2007	9285	9286	MHL000003	MHL000004	D/S	3437	SPL000003	8	VCP			290	302.7
1	3_Moderate	104		X		42		13				x	8803 Garden Grove Blvd.	4/19/2004	8401	8402	MHK130003	MHK130004	DS	3377	SPK130006	8	VCP	3		347	347
2	3_Moderate	104					G028	9					CHAPMAN AV	8/25/2005	12920	12921	MHP090020	MHP090021	D/S	6259	SPP090022	12	VCP			155	152.1
3	3_Moderate	104	2017-06-20		PPT		38	8					FLAMINGO	8/30/2007	9626	10275	MHM070008	MHM070002	D/S	5045	SPM070011	8	VCP			255	265
4	3_Moderate	104					13	2368				Y	KATELLA	10/20/2006	9631	8333	MHL050054	MHL050053	U/S	4075	SPL050035	12	VCP			415	431.7
2	3_Moderate	105					M018	14				Y	COLLEGE AV	9/12/2005	12516	12519	MHQ110031	MHQ110034	D/S	4137	SPQ110013	8	VCP			410	401.5
3	3_Moderate	105	2017-08-16		PPT		37	35					SHANNON	8/30/2007	10086	10087	MHM070049	MHM070050	D/S	4682	SPM070056	8	VCP			295	297
4	3_Moderate	105					2	2057				Y	ROSEBAY	5/1/2006	9156	9155	MHM990019	MHM980002	U/S	4373	SPM990001	8	VCP			293	502.3
2	3_Moderate	106					G031	1					JACALENE LN	8/30/2005	12828	12829	MHQ090021	MHQ090022	D/S	6455	SPQ090054	8	VCP			225	235.7
3	3_Moderate	106	2017-08-29		PPT		39	16					SHANNON	9/6/2007	10088	10087	MHM070051	MHM070050	U/S	4683	SPM070057	8	VCP			295	298
4	3_Moderate	106					2	2057				Y	ROSEBAY	5/1/2006	9157	9156	MHM990019	MHM980002	U/S	4374	SPM990002	8	VCP			214	502.3
1	3_Moderate	107		X		4		8				x	12422 Lee Ln.	2/6/2004	11860	11029	MNE14021	MNE13010	DS	3796	SPP100023	8	VCP	3		265	266
2	3_Moderate	107					G046	8				Y	WILLOWOOD AV	10/10/2005	12720	12721	MHS100034	MHS100035	D/S	6498	SPS100016	8	VCP			285	288.6
3	3_Moderate	107			PPT		37	38					ORANGEWOOD	8/30/2007	10098	10099	MHM070069	MHM070070	D/S	4693	SPM070060	8	VCP			315	332
4	3_Moderate	107					1	1800				Y	GREENWICH	3/29/2006	9166	9172	MHM990007	MHM990013	U/S	4388	SPM990016	8	VCP			312	308.5
1	3_Moderate	108		X		32		18					8841 Woolley Ln.	4/1/2004	8388	8389	MHK120003	MHK120004	DS	3362	SPK120006	8	VCP			271	269
2	3_Moderate	108					M004	4				Y	HOMEWAY DR	8/8/2005	10835	10827	MHL060017	MHL070034	D/S	5227	SPL060032	8	VCP			205	204.0
3	3_Moderate	108			PPT		37	39					ORANGEWOOD	8/30/2007	10099	10075	MHM070070	MHL070045	D/S	4694	SPM070061	8	VCP			345	332
4	3_Moderate	108					10	2328				Y	HARLE	9/26/2006	8952	8953	MHM030028	MHM030037	D/S	3664	SPM030040	8	VCP			350	694.4
1	3_Moderate	109		X		31		4					13211 Hazel St.	3/30/2004	11568	11569	MHL130040	MHL140005	DS	3105	SPL140029	8	VCP			342	340
2	3_Moderate	109					G017	3					LA GRAND AV	8/3/2005	0	0	MHK050010	MHK050011	D/S	5939	SPK050041	8	VCP			300	300.8
3	3_Moderate	109	2017-09-06		PPT		38	11					CANARY	8/30/2007	9606	9607	MHM080014	MHM080015	D/S	4651	SPM080017	8	VCP			250	270
4	3_Moderate	109					10	2328				Y	HARLE	9/26/2006	8953	8942	MHM030028	MHM030037	D/S	3665	SPL030006	8	VCP			340	694.4
1	3_Moderate	110		X		29		27				x	8782 Dakota Ave.	3/29/2004	11578	11609	MHK140006	MHK140007	DS	2800	SPK140023	8	VCP	3		267	270
2	3_Moderate	110					G038	2				Y	KATHY LN	9/12/2005	11718	11719	MHQ110009	MHQ110010	D/S	6289	SPQ110043	8	VCP			305	301.3
3	3_Moderate	110	2017-09-07		PPT		38	13					HUMMINGBIRD	8/30/2007	9607	9608	MHM080015	MHM080016	D/S	4652	SPM080018	8	VCP			210	208
4	3_Moderate	110					3	2200				Y	STONYBROOK	6/16/2006	9292	9293	MHM990023	MHL990005	D/S	3442	SPM990022	8	VCP			290	568.6
1	3_Moderate	111				1		3				x	12082 Shady Acre St.	2/3/2004	11151	11152	MNW24026	MNW24027	DS	2570	SPO090033	8	VCP	3		310	316
2	3_Moderate	111					R009	1				Y	MURLINE DR	8/9/2005	10115	10116	MHL050019	MHL050020	D/S	4704	SPL050039	8	VCP			292	292.7
3	3_Moderate	111	2017-09-19		PPT		51	41					BLUEJAY	12/27/2007	9614	9610	MHM080020	MHM080018	U/S	4655	SPM080021	8	VCP			235	251
4	3_Moderate	111					3	2200				Y	STONYBROOK	6/16/2006	9162	9157	MHM990023	MHL990005	D/S	4378	SPM990006	8	VCP			190	568.6
1	3_Moderate	112				3		21				x	10552 Mahalo Wy.	2/6/2004	11224	11225	MNW13037	MNW13038	DS	2559	SPO100026	8	VCP	3		265	263
2	3_Moderate	112					R051	4					HARBOR BLVD	11/2/2005	12743	12744	MHS110001	MHS100001	D/S	5652	SPS110012	8	VCP			334	330.0
3	3_Moderate	112			PPT		35	2					CHAPMAN SHOP CENTER	8/16/2007	9621	9622	MHM080035	MHM080036	D/S	5040	SPM080031	8	VCP			375	51
4	3_Moderate	112					MIXED P COUNTY 2	6				Y	RUSTIC	11/3/2007	9637	14601	MHL040023	MHL050055	D/S	8361	SPL040023	8	VCP			219	204.0
1	3_Moderate	113				43		5					8504 Garden Grove Blvd.	4/21/2004	7670	7716	MHK130034	MHJ130001	DS	827	SPJ130019	8	VCP			331	331
2	3_Moderate	113					R029	8					9TH ST	9/20/2005	12528	12529	MHP110025	MHP110026	D/S	6052	SPP110003	8	VCP			310	318.8
3	3_Moderate	113			PPT		51	37					CHAPMAN	12/27/2007	10049	10048	MHM090021	MHM090020	U/S	4189	SPM090022	8	VCP			160	157
4	3_Moderate	113					MIXED P COUNTY 2	6				Y	RUSTIC	11/3/2007	14601	9632	MHL040023	MHL050055	D/S	8363	SPL040023	8	VCP			45	204.0
2	3_Moderate	114					G024	9					9TH ST	8/18/2005	12995	12996	MHP070025	MHP070026	D/S	6318	SPP070004	8	VCP			125	134.1
3	3_Moderate	114	2017-11-01		GGSD		24	785				Y	MALLARD	10/5/2004	10537	10536	MHM150010	MHM150008	U/S	2027	SPM150005	8	VCP			330	324
4	3_Moderate	114					9	2314				Y	CHANTICLEER	9/19/2006	9205	9206	MHM020005	MHM020008	D/S	4510	SPM020012	8	VCP			140	598.3
1	3_Moderate	115		X		13		12				x	10791 Acacia Pkwy.	3/1/2004	11837	11838	MHO120010	MHO120011	DS	5399	SPO120009	6	VCP	2		140	145
2	3_Moderate	115					R064	2				Y	EASEMENT	12/5/2005	6695	14605	MHS130019	MHS130020	D/S	8375	SPS130005	8	VCP			313	314.9
3	3_Moderate	115	2018-01-11		GGSD		24	808					WOODBURY	10/14/2004	10546	10582	MHM150021	MHM150020	U/S	2454	SPM150023	8	VCP/PVC			318	315
4	3_Moderate	115					9	2314				Y	CHANTICLEER	9/19/2006	9206	9207	MHM020005	MHM020008	D/S	4511	SPM020013	8	VCP			150	598.3
1	3_Moderate	116		X		25		7					9211 Stanford Ave.	3/18/2004	9385	8485	MHL120020	MHL120021	DS	3145	SPL120019	8	VCP			316	317
2	3_Moderate	116					M010	2				Y	MORGAN LN	8/22/2005	13135	13136	MHQ080037	MHQ080038	D/S	5846	SPQ080046	8	VCP			330	330.4
3	3_Moderate	116			GGSD		24	824					BLAKE	10/19/2004	10549	10583	MHM160008	MHM160007	U/S	2455	SPM160019	8	PVC/VCP			319	316
4	3_Moderate	116					9	2314				Y	CHANTICLEER	9/19/2006	9207	9344	MHM020005	MHM020008	D/S	5034	SPM020045	8	VCP			295	598.3
2	3_Moderate	117					G034	8				Y	FREDRICK DR	9/2/2005	12825	12826	MHQ090016	MHQ090017	D/S	6453	SPQ090052	8	VCP			385	385.6
3	3_Moderate	117			GGSD		25	841					ERIN	10/26/2004	10549	10552	MHM160008	MHM160012	D/S	2196	SPM160004	8	VCP/PVC			280	280
4	3_Moderate	117					3	2145		3	2193	Y	HILLVIEW	5/4/2006	9302	9301	MHM990033	MHM990032	U/S	3451	SPM990029	8	VCP			184	184.0
1	3_Moderate	118		X		16		5				x	13341 Westlake St.	3/3/2004	11107	11109	MHO140036	MHO140038	DS	2358	SPO140023	8	VCP	3		395	393
2	3_Moderate	118					R003	8					MAGNOLIA ST	7/27/2005	10817	10799	MHL070010	MHL080027	D/S	4832	SPL080038	8	VCP			375	368.7

Structural Defect Coding

Ranking	Street Name	Crack (C) L	Crack C	Crack M	Crack S	Crack H	Fracture (F) L	Fracture C	Fracture M	Fracture S	Fracture H	Broken (B) SV	Broken VV	Hole (H) SV	Hole VV	Joint (J) O S	Joint O M	Joint O L	Joint S S	Joint S M	Joint S L	Joint A	Deformed (D) V	Deformed H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
98	PARADE	2		4																											6	16	2.67
99	12635 Main St.	1					1	1	2																							15	3.00
99	EASEMENT	1	1	1													1												13		17	35	
99	VONS							1																							1	2	2.00
99	GILBERT	4	2																												6	10	1.67
100	13421 Adland St.	1		2			1		1																							15	2.14
100	ZETA ST	1		2																									13		16	34	
100	FLAMINGO ALLEY						1		2																						3	11	3.67
100	KATELLA	5	1	1																											7	14	2.00
101	12362 Mc Leod St.		2	3				2																								15	2.50
101	NIETA DR		3	2				10	1																						16	33	
101	FLAMINGO							2	1																						3	8	2.67
101	KATELLA	5	1	1																											7	14	2.00
102	13311 Ontario Dr.	1	1	4																												14	2.33
102	DEBBIE LN		1	1				13									1														16	33	
102	FLAMINGO ALLEY						1																								1	3	3.00
102	STONYBROOK	8	1																												9	17	1.89
103	ADAH ST	2	5	4			1	2	1							1															16	33	
103	FLAMINGO ALLEY						1																								1	3	3.00
103	GILBERT	2	4																												6	8	1.33
104	8803 Garden Grove Blvd.	1	2					1	2																							14	1.75
104	CHAPMAN AV						1	13	1																						15	33	
104	FLAMINGO							1																							1	2	2.00
104	KATELLA	3	4	6																											13	28	2.15
105	COLLEGE AV	1	1	9			1																								12	33	
105	SHANNON							1																							1	2	2.00
105	ROSEBAY	8	1	2																											11	23	2.09
106	JACALENE LN	1		3				1	5																						10	33	
106	SHANNON							1	1																						2	6	3.00
106	ROSEBAY	8	1	2																											11	23	2.09
107	12422 Lee Ln.	4						1	1																							14	2.80
107	WILLOWOOD AV		4	4				8																							16	32	
107	ORANGEWOOD							1																							1	2	2.00
107	GREENWICH	1	1																												2	3	1.50
108	8841 Woolley Ln.	2		2					1																							14	2.33
108	HOMEWAY DR	1	4	3			1	3	2																						14	32	
108	ORANGEWOOD							1																							1	2	2.00
108	HARLE		2	1																											3	5	1.67
109	13211 Hazel St.	1	1	3				1																								14	2.33
109	LA GRAND AV			1			1	11	1																						14	32	
109	CANARY							1																							1	2	2.00
109	HARLE		2	1																											3	5	1.67
110	8782 Dakota Ave.		2	4																												14	2.33
110	KATHY LN		3	9				1																							13	32	
110	HUMMINGBIRD							1																							1	2	2.00
110	STONYBROOK	7	2	1																											10	19	1.90
111	12082 Shady Acre St.	2	1	2			1																									14	1.56
111	MURLINE DR	1	2	8					1																						12	32	
111	BLUEJAY								1																						1	4	4.00
111	STONYBROOK	7	2	1																											10	19	1.90
112	10552 Mahalo Wy.	3	5	1																												14	2.33
112	HARBOR BLVD	1		10																											11	32	
112	CHAPMAN SHOP CENTER							1																							1	2	2.00
112	RUSTIC	2	2																												4	6	1.50
113	8504 Garden Grove Blvd.	1		2																									3			13	3.25
113	9TH ST																												16		16	32	
113	CHAPMAN																2														2	6	3.00
113	RUSTIC	2	2																												4	6	1.50
114	9TH ST		1	1				1	1																				11		15	32	
114	MALLARD																2														2	6	3.00
114	CHANTICLEER		1	1																											2	4	2.00
115	10791 Acacia Pkwy.		1	2				1	1																							13	2.60
115	EASEMENT	3	6	5					1																						15	31	
115	WOODBURY																1														1	3	3.00
115	CHANTICLEER		1	1																											2	4	2.00
116	9211 Stanford Ave.		1	2				1	1																							13	2.17
116	MORGAN LN	5	3	2			2	3																							15	31	
116	BLAKE																1														1	3	3.00
116	CHANTICLEER		1	1																											2	4	2.00
117	FREDRICK DR	1	2	5					3																						11	31	
117	ERIN																1														1	3	3.00
117	HILLVIEW	8																													8	16	2.00
118	13341 Westlake St.		3	2					1																							13	2.60
118	MAGNOLIA ST	1		9				1																							11	31	

Operational and Maintenance

Ranking	Street Name	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots Fine (F) B	Fine L	Fine J	Fine C	Tap (T) B	Tap L	Tap J	Tap C	Medium (M) B	Medium L	Medium J	Medium C	Ball (B) B	Ball L	Ball J	Ball C	Infiltration (I) G	Infiltration D	Infiltration R	Infiltration W	Obstacles (OB) Other C	Obstacles Z	Obstacles %	Vermin (V) C	Vermin R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
98	PARADE	98	47																																145	290	2.00
99	12635 Main St.																	1																		11	1.83
99	EASEMENT	3							1																										4	8	
99	VONS																																		0	0	0.00
99	GILBERT	37	19																													30			86	142	1.65
100	13421 Adland St.								3	1		1	1																							0	0.00
100	ZETA ST										23											2													25	31	
100	FLAMINGO ALLEY																		2																2	6	3.00
100	KATELLA	85					33																									6			124	275	2.22
101	12362 Mc Leod St.																																			3	0.35
101	NIETA DR						2	5.00			2																								4	8	
101	FLAMINGO										2																								2	2	1.00
101	KATELLA	85					33																									6			124	275	2.22
102	13311 Ontario Dr.								1	1																										6	0.65
102	DEBBIE LN										1																								1	1	
102	FLAMINGO ALLEY										1											1													2	5	2.50
102	STONYBROOK	50	72																																122	244	2.00
103	ADAH ST		10	5.00	2	5.00																													12	24	
103	FLAMINGO ALLEY																																		0	0	0.00
103	GILBERT	30					30																									3			63	153	2.43
104	8803 Garden Grove Blvd.																															4				15	0.94
104	CHAPMAN AV	1																																	1	2	
104	FLAMINGO										1											1													2	5	2.50
104	KATELLA	86					10																												96	202	2.10
105	COLLEGE AV		113	5.00																															113	226	
105	SHANNON																																		0	0	0.00
105	ROSEBAY	150	53						16	1	41							8	2													2			273	512	1.88
106	JACALENE LN	3								2	1																								6	9	
106	SHANNON																																		0	0	0.00
106	ROSEBAY	150	53						16	1	41							8	2													2			273	512	1.88
107	12422 Lee Ln.																																			0	0.00
107	WILLOWOOD AV		26	5.00																												5			31	57	
107	ORANGEWOOD																																		0	0	0.00
107	GREENWICH	40	6							1	1							1														1			50	98	1.96
108	8841 Woolley Ln.																																			4	0.16
108	HOMEWAY DR	2	11	5.00	4	10.00																										6			23	40	
108	ORANGEWOOD																																		0	0	0.00
108	HARLE	125	18				30																									9			182	385	2.12
109	13211 Hazel St.								2																											22	0.81
109	LA GRAND AV																																		0	0	
109	CANARY																1		1			1													3	11	3.67
109	HARLE	125	18				30																									9			182	385	2.12
110	8782 Dakota Ave.						4	10.00	2													1														18	1.20
110	KATHY LN	11	33	5.00			2	5.00			1																								47	95	
110	HUMMINGBIRD										1																								1	1	1.00
110	STONYBROOK	183	42																																225	450	2.00
111	12082 Shady Acre St.						6	5.00																												6	3.00
111	MURLINE DR		4	5.00	1	5.00					4							1																	10	17	
111	BLUEJAY																																		0	0	0.00
111	STONYBROOK	183	42																																225	450	2.00
112	10552 Mahalo Wy.												2																							0	0.00
112	HARBOR BLVD																																		0	0	
112	CHAPMAN SHOP CENTER																																		0	0	0.00
112	RUSTIC	26																														2			28	54	1.93
113	8504 Garden Grove Blvd.																																			0	0.00
113	9TH ST																																		0	0	
113	CHAPMAN																																		0	0	0.00
113	RUSTIC	26																														2			28	54	1.93
114	9TH ST	2																																	2	4	
114	MALLARD										1																								1	1	1.00
114	CHANTICLEER	147					52																												199	450	2.26
115	10791 Acacia Pkwy.								20				1																			1				5	0.39
115	EASEMENT	6								1	17							1				1													27	39	
115	WOODBURY						1																							1	5				7	7	3.50
115	CHANTICLEER	147					52																												199	450	2.26
116	9211 Stanford Ave.								1				1																							10	0.96
116	MORGAN LN	13									14							1	3													1			32	53	
116	BLAKE																																		0	0	0.00
116	CHANTICLEER	147					52																												199	450	2.26
117	FREDRICK DR	48	52	5.00	4	40.00	3	5.00		1	5											1										2			116	229	
117	ERIN																																		0	0	0.00
117	HILLVIEW	60	2								1																								63	125	1.98
118	13341 Westlake St.								1									1																		8	1.25
118	MAGNOLIA ST																																		0	0	

Construction Features / Repairs

Ranking	Street Name	Tap (Lateral) (T) FD	FL	BI	BD	Line (L) D	L	U	R	LD	RD	Intruding Seal Material (IS) SRH	SRB	SRL	Z	Miscellaneous (M) SA	CU	MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
98	PARADE																		0					
99	12635 Main St.	2																						Reline, Clear D, Fix Lat
99	EASEMENT																						128.7' (D/SL) JOM, 2 SAGS	
99	VONS																					Replaced 8" x 4" VCP wye with (2) repair couplings.		
99	GILBERT				5														15					
100	13421 Adland St.																							Reline, Cut roots
100	ZETA ST																						SAG	
100	FLAMINGO ALLEY																					Replaced a 24" and a 20" section of 8" main at (2) consecutive joints.		
100	KATELLA																		0				Multiple reaches were evaluated with one inspection. AT MH050055 (231.5') there is a possible lateral (NW) or another sewer line (Above). Atlas indicates 15-inch pipe.	
101	12362 Mc Leod St.																							Reline
101	NIETA DR																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
101	FLAMINGO																							
101	KATELLA																		0				Multiple reaches were evaluated with one inspection. AT MH050055 (231.5') there is a possible lateral (NW) or another sewer line (Above). Atlas indicates 15-inch pipe.	
102	13311 Ontario Dr.																							Reline, Cut roots
102	DEBBIE LN																						98.8' (D/SH) JOM, MHR080013 IS CLEANOUT	
102	FLAMINGO ALLEY																							Root treat and cut. Clean pipe.
102	STONYBROOK																		0					
103	ADAH ST																							
103	FLAMINGO ALLEY																					Replace section of 8" VCP main.		
103	GILBERT				2														6					
104	8803 Garden Grove Blvd.	1																						Reline, Repair lateral
104	CHAPMAN AV																						CONTINUOUS FRACTURE CIRCUMFERENTIAL	
104	FLAMINGO																					Cut out section of main and installed 22" long section of 8" VCP pipe with (2) couplings.		
104	KATELLA				2														6				Atlas indicates 15-inch pipe.	
105	COLLEGE AV																							
105	SHANNON	1																				Replaced section of 8" VCP main.		
105	ROSEBAY	1																	2				Multiple reaches were evaluated with one inspection. 400' to 500' continuous roots.Must clean and revideo	
106	JACALENE LN																							
106	SHANNON																					Replaced 8" x 4" wye and a section of 8" main.		
106	ROSEBAY	1																	2				Multiple reaches were evaluated with one inspection. 400' to 500' continuous roots.Must clean and revideo	
107	12422 Lee Ln.																							Reline
107	WILLOWOOD AV																							
107	ORANGEWOOD			1																				
107	GREENWICH																		0					
108	8841 Woolley Ln.																							Reline
108	HOMEWAY DR																							
108	ORANGEWOOD			1																				
108	HARLE																		0				Multiple reaches were evaluated with one inspection.	
109	13211 Hazel St.																							Reline, Cut roots
109	LA GRAND AV																							
109	CANARY																					Replaced section of 8" VCP main.		
109	HARLE																		0				Multiple reaches were evaluated with one inspection.	
110	8782 Dakota Ave.	1																						Reline, Clr D&R, Fix Lat
110	KATHY LN																						MULTIPLE	
110	HUMMINGBIRD																					Replaced 8" x 4" VCP wye and a section of 8" VCP main.		
110	STONYBROOK																		0				Multiple reaches were evaluated with one inspection.	
111	12082 Shady Acre St.																							Reline, Clear deposit
111	MURLINE DR																							
111	BLUEJAY																					Replaced a section of 8" VCP main.		
111	STONYBROOK																		0				Multiple reaches were evaluated with one inspection.	
112	10552 Mahalo Wy.																							Reline, Cut roots
112	HARBOR BLVD																							
112	CHAPMAN SHOP CENTER															1							MSA = Material change	
112	RUSTIC																		0				The second pipe ID represents two current pipe IDs.	
113	8504 Garden Grove Blvd.																							Replace pipe
113	9TH ST																						4 SAGS	
113	CHAPMAN																							
113	RUSTIC																		0				The second pipe ID represents two current pipe IDs.	
114	9TH ST																							
114	MALLARD																					Replaced section of 8" VCP main.		
114	CHANTICLEER																		0				Multiple reaches were evaluated with one inspection. MH020006 Doesn't exist on DVD. Must check.	
115	10791 Acacia Pkwy.																							Reline, Cut roots
115	EASEMENT						1									1							314.9' MSA = ALIGNMENT LEFT OR JOINT SEPARATED LARGE	
115	WOODBURY																	1				Replaced section of 8" VCP pipe and 8" VCP to 8" PVC coupling.		
115	CHANTICLEER																		0				Multiple reaches were evaluated with one inspection. MH020006 Doesn't exist on DVD. Must check.	
116	9211 Stanford Ave.																							Reline, Cut roots
116	MORGAN LN																							
116	BLAKE																	1						
116	CHANTICLEER																		0				Multiple reaches were evaluated with one inspection. MH020006 Doesn't exist on DVD. Must check.	
117	FREDRICK DR																							
117	ERIN																	2						
117	HILLVIEW																		0					
118	13341 Westlake St.																							Reline, Cut roots
118	MAGNOLIA ST																							

General / Pipe

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
3	3_Moderate	118			GGSD		25	834				Y	ERIN	10/25/2004	0	0	MHM160019	MHM170008	D/S	2206	SPM160014	8	VCP			310	309
4	3_Moderate	118					8	2284				Y	CHANTICLEER	8/23/2006	9268	9141	MHM020002	MHM020001	U/S	4268	SPM020001	8	VCP			99	104.6
1	3_Moderate	119		X		31		5					13272 Hazel St.	3/30/2004	11569	11570	MHL140005	MHL140006	DS	2945	SPL140030	8	VCP			342	340
2	3_Moderate	119					M002	10				Y	OLSON ST	8/5/2005	10163	10164	MHL060008	MHL060009	D/S	3725	SPL060012	8	VCP			330	322.0
3	3_Moderate	119			PPT		2	8					READING AVE	3/26/2007	10564	10565	MHM170015	MHM170016	D/S	2212	SPM170011	8	VCP			344	347
4	3_Moderate	119					MIXE D 2	2448				Y	HARCOURT	12/18/2006	9011	9010	MHL040009	MHL040007	U/S	4920	SPL040007	8	VCP			307	633.2
1	3_Moderate	120		X		2		21					11262 Jerry Ln.	2/5/2004	11851	12316	MNE14009	MNE14011	DS	4436	SPP100042	8	VCP			320	325
2	3_Moderate	120					G020	11					MAC MURRAY ST	8/8/2005	10287	10858	MHK050023	MHK060029	D/S	3872	SPK050037	8	VCP			135	135.7
3	3_Moderate	120	2018-03-06		PPT		2	9					READING AVE	3/26/2007	10565	10571	MHM170016	MHM170022	D/S	2213	SPM170012	8	VCP			80	84
4	3_Moderate	120					MIXE D 2	2448				Y	HARCOURT	12/18/2006	9012	9011	MHL040009	MHL040007	U/S	4921	SPL040008	8	VCP			307	633.2
3	3_Moderate	121	2018-07-03		PPT		2	10					READING AVE	3/26/2007	10571	10572	MHM170022	MHM170023	D/S	2219	SPM170018	8	VCP			265	267
4	3_Moderate	121					17	2478				Y	GILBERT	1/18/2007	9279	9278	MHL990002	MHL990001	U/S	3647	SPL990002	8	VCP			288	286.3
1	3_Moderate	122		X		12		16					13361 Jessica Dr.	2/27/2004	11113	11114	MHO140041	MHO140042	DS	2362	SPO140028	8	VCP			330	335
2	3_Moderate	122					M006	3					JOYZELLE DR	8/11/2005	10842	10843	MHL060037	MHL060038	D/S	5329	SPL060041	8	VCP			231	272.8
3	3_Moderate	122			PPT		3	5					HAZARD AVE	3/29/2007	6912	6911	MHM190003	MHM190002	U/S	204	SPM190006	8	VCP			198	189
4	3_Moderate	122					12	2352				Y	LARRY	10/5/2006	8946	8949	MHM030010	MHM030025	U/S	3661	SPM030037	8	VCP			375	356.2
5	3_Moderate	122		X	PPT		MAP 3-B5	6				Y	BIRCHWOOD STREET	9/19/2012	11884	11885	MHP130028	MHP130029	D/S	4292	SPP130019	6	VCP			545	538.2
1	3_Moderate	123		X		13		24					13421 Westlake St.	3/3/2004	11110	11111	MHO140039	MHO150009	DS	2839	SPO140026	12	VCP			370	369
2	3_Moderate	123					M006	4					ORANGEWOOD AV	8/11/2005	10832	10833	MHL070042	MHL070043	D/S	5224	SPL070042	8	VCP			185	187.5
3	3_Moderate	123			PPT		3	12				Y	DONEGAL	3/29/2007	6935	6936	MHM200016	MHM210001	D/S	228	SPM200015	8	VCP			296	311
4	3_Moderate	123					9	2310				Y	HARRIET LN	9/13/2006	9776	9775	MHM020022	MHM020021	U/S	3648	SPM020041	8	VCP			72	80.1
5	3_Moderate	123			PPT		MAP 3-B3-2	4				Y	MITCHELL AVENUE	8/20/2012	11812	11813	MHP140039	MHP150035	D/S	4910	SPP140033	8	VCP			300	293.6
1	3_Moderate	124		X		15		10				x	13350 Hope	3/4/2004	11311	11314	MHN140028	MHN140031	DS	2909	SPN140017	8	VCP	3		300	303
2	3_Moderate	124					R004	8					MAC ST	7/28/2005	10305	10307	MHK080010	MHK080012	D/S	3890	SPK080014	8	VCP			240	235.2
3	3_Moderate	124			PPT		39	1					BETTES	9/4/2007	9692	9693	MHN050013	MHN050014	D/S	4559	SPN050014	8	VCP			280	284
4	3_Moderate	124					6	2261				Y	HERTHA LN	8/3/2006	9198	9197	MHM010036	MHM010034	U/S	4501	SPM010018	8	VCP			260	548.9
5	3_Moderate	124			PPT		MAP 4-B3	9				Y	AMY AVE	10/1/2012	8531	8532	MHK090028	MHK090029	D/S	1801	SPK090036	8	VCP			265	263.8
2	3_Moderate	125					G032	3				Y	NORMA LN	8/31/2005	12570	12572	MHQ090032	MHQ090036	D/S	4743	SPQ090016	8	VCP			295	296.7
4	3_Moderate	125					6	2261				Y	HERTHA LN	8/3/2006	9199	9198	MHM010036	MHM010034	U/S	4502	SPM010019	8	VCP			280	548.9
5	3_Moderate	125			PPT		MAP 4-B1-6	19		MAP 4-B1-6	8	Y	HOPE STREET	10/1/2012	7265	7266	MHN180001	MHN180012	D/S	138	SPN180001	8	VCP			95	4
1	3_Moderate	126				20		20				x	9741 Luders Ave.	3/11/2004	12011	12012	MHM140030	MHM140031	DS	2722	SPM140013	8	VCP	3		303	304
2	3_Moderate	126					G020	15					ALLEY	8/8/2005	9746	10342	MHL050014	MHL050016	D/S	5072	SPL050017	8	VCP			222	223.2
3	3_Moderate	126			PPT		30	39					SONGISH	8/2/2007	10346	9716	MHN050031	MHN050030	U/S	5008	SPN050056	8	VCP			330	329
4	3_Moderate	126					4	2220				Y	MYSTIC	7/5/2006	9306	9285	MHM000004	MHL000003	D/S	3457	SPL000007	8	VCP			340	336.3
1	3_Moderate	127				9		9				x	10392 Stanford Ave.	2/19/2004	11243	11244	MHN120010	MHN120025	DS	2532	SPN120011	8	VCP	3		202	203
2	3_Moderate	127					G023	2					NORMA LN	8/17/2005	12228	12229	MHQ070016	MHQ070017	D/S	6441	SPQ070011	8	VCP			285	287.0
4	3_Moderate	127					MIXE D 1	2388				Y	JEAN	10/31/2006	8347	8346	MHM040019	MHM040017	U/S	3615	SPM040005	8	VCP			211	487.6
1	3_Moderate	128				46		12				x	9761 Bixby Ave.	5/7/2004	9489	9490	MHM100043	MHM100007	DS	3576	SPM100010	8	VCP	3		310	308
2	3_Moderate	128					G027	4				Y	REVA DR	8/23/2005	13076	13079	MHR080005	MHR080007	D/S	5641	SPR080016	8	VCP			300	301.7
4	3_Moderate	128					MIXE D 1	2388				Y	JEAN	10/31/2006	8348	8347	MHM040019	MHM040017	U/S	5414	SPM040050	8	VCP			235	487.6
5	3_Moderate	128			PPT		June Map 2 B1	38				Y	LAURIANNE LANE	6/11/2012	10121	10174	MHL050025	MHL060022	D/S	5180	SPL060009	8	VCP			319	321.6
2	3_Moderate	129					R003	1				Y	TRISTAN DR	7/27/2005	10798	10800	MHL080026	MHL080028	D/S	4341	SPL080026	8	VCP			357	354.4
3	3_Moderate	129			PPT		33	33					ORANGEWOOD	8/14/2007	9919	9885	MHN060005	MHN060006	D/S	6127	SPN060010	8	VCP			318	321
4	3_Moderate	129					MIXE D 3	2463				Y	GARZA	1/10/2007	8337	9015	MHL040014	MHL050052	D/S	5020	SPL040014	8	VCP			306	298.7
5	3_Moderate	129			PPT		MAP 1	7		MAP 1	6	Y	VANGUARD AVENUE	5/11/2012	8281	8765	MHG090020	MHG090021	D/S	1326	SPG090021	8	VCP			350	355.9
2	3_Moderate	130					M016	3				Y	ALLEY	9/8/2005	11630	11631	MHR100038	MHR100039	D/S	5776	SPR100004	8	VCP			328	330.7
3	3_Moderate	130			PPT		33	34					ORANGEWOOD	8/14/2007	9885	9886	MHN060006	MHN060007	D/S	6128	SPN060011	8	VCP			282	284
4	3_Moderate	130					2	2018				Y	CLEARBROOK	4/18/2006	9162	9161	MHM990002	MHM990001	U/S	4377	SPM990005	8	VCP			338	337.4
5	3_Moderate	130			PPT		MAP 3-B2-3	8				Y	REVA DRIVE	8/20/2012	8471	13076	MHR080003	MHR080005	D/S	6575	SPR080013	8	VCP			300	303.4
2	3_Moderate	131					M005	11					VONS DR	8/10/2005	10839	10840	MHL060034	MHL060035	D/S	5233	SPL060038	8	VCP			242	242.4
3	3_Moderate	131	2018-10-02		PPT		33	35					ORANGEWOOD	8/14/2007	9886	9887	MHN060007	MHN060008	D/S	6129	SPN060012	8	VCP			281	282
4	3_Moderate	131					4	2217				Y	VANCOUVER	6/30/2006	9313	8984	MHM000012	MHM000019	U/S	4523	SPM000014	8	VCP			266	524.6
5	3_Moderate	131		X	PPT		MAP 2 July-4	1				Y	LOUISE STREET	6/28/2012	8430	8431	MHK120032	MHK120033	D/S	3408	SPK120034	8	Clay Tile			332	338.8
1	3_Moderate	132		X		15		11				x	13490 Hope	3/4/2004	11314	11315	MHN140031	MHN150003	DS	7521	SPN140020	8	VCP	3		409	412
2	3_Moderate	132					G038	1					KATHY LN	9/12/2005	11717	11718	MHQ110008	MHQ110009	D/S	6288	SPQ110042	8	VCP			290	299.0
4	3_Moderate	132					4	2217				Y	VANCOUVER	6/30/2006	8984	9263	MHM000012	MHM000019	U/S	5416	SPM000019	8	VCP			266	524.6
5	3_Moderate	132			PPT		MAP 4-B2-1	17					HAVENWOOD DR	9/7/2012	11943	11958	MHP160002	MHP160014	D/S	5461	SPP160003	12	VCP			310	395.2
1	3_Moderate	133				37		8					8422 Acacia Ave.	4/8/2004	7087	7650	MHJ120003	MHJ120001	US	821	SPJ120021	8	VCP			127	126
2	3_Moderate	133					M019	9					ACACIA PRKWY	9/13/2005	11668	11638	MHR120021	MHR120003	D/S	6162	SPR120031	8	VCP			410	370.5
3	3_Moderate	133			PPT		39	8					GARDEN	9/4/2007	10230	10231	MHN060016	MHN060017	D/S	4053	SPN060044	8	VCP			140	144
4	3_Moderate	133					3	2201				Y	COLCHESTER	6/16/2006	9304	9303	MHM000002	MHM000001	U/S	3455	SPM000001	8	VCP			300	297.2
2	3_Moderate	134					G016	13					ADAH ST	8/2/2005	7968	7970	MHK050025	MHK050026	D/S	1841	SPK050027	8	VCP			325	325.2
3	3_Moderate	134			PPT		35	16					GARDEN	8/17/2007	10231	9665	MHN060017	CON070002	D/S	4054	SPN060045	8	VCP			150	152
4	3_Moderate	134					P COU NTY 3C	3				Y	HUBER	10/14/2007	8977	8975	MHM040023	MHM040021	D/S	4419	SPM040045	8	VCP			216	214.2
5	3_Moderate	134		X	PPT		MAP 3-5	1					NELSON STREET	7/25/2012	12272	12273	MHO110010	MHO110012	D/S	3831	SPO110009	8	Clay Tile			275	278.1
1	3_Moderate	135				43		1					13062 Coast St.	4/21/2004	7105	7106	MHJ130007	MHJ130025	DS	843	SPJ130023	10	VCP			333	330
2	3_Moderate	135					M013	7					DOWNING ST	9/1/2005	12196	12175	MHR090017	MHR090003	D/S	5964	SPR090013	8	VCP			335	321.6
4	3_Moderate	135					6	2253				Y	ANTIGUA	8/2/2006	9186	9187	MHM010024	MHM010025	D/S	4491	SPM010009	8	VCP			284	283.4
5	3_Moderate	135			PPT		MAP 3-5	18				Y	ACACIA AVENUE	7/25/2012	11123	11124	MHO120022	MHO120023	D/S	2367	SPO120021	8	Clay Tile			250	330.2
2	3_Moderate	136					M003	7					MARCHAND AV	8/8/2005	10159	10160	MHL070035	MHL070036	D/S	3721	SPL070023	8	VCP			300	302.1
4	3_Moderate	136					17	2479				Y	GILBERT	1/18/2007	9280	9281	MHL990003	MHL990004	D/S	3681	SPL990004	8	VCP			260	258.2
5	3_Moderate	136			PPT		MAP 3-B2-4	2				Y	HASTER STREET	8/27/2012	13005	13006	MHS080003	MHS080004	D/S	6094	SPS080001	10	VCP			315	318.2
1	3_Moderate	137				51		12				x	12141 Loraleen St.	5/21/2004	9021	9022	MHL090019	MHL090020	DS	3334	SPL090017	8	VCP	3		75	330
2	3_Moderate	137					M013	13					DOWNING ST	9/1/2005	12176	12177	MHR100025	MHR100026	D/S	5917	SPR100016	8	VCP			310	315.8
3	3_Moderate	137			PPT		33	23					GARDEN	8/13/2007	10235	10234	MHN060038	MHN060037	U/S	4055	SPN060048	8	VCP			195	196
4	3_Moderate	137					3	2145		3	2193	Y	HILLVIEW	5/4/2006	9301	9300	MHM990032	MHM990031	U/S	3450	SPM990028	8	VCP			200	200.0
5	3_Moderate	137			PPT		MAP 3-3	5				Y	GAIL LANE	7/27/2012	12234	12235	MHQ070022	MHQ070023	D/S	6447	SPQ070017	8	VCP			285	287.6
2	3_Moderate	138					G007	1					HOPI RD	7/20/2005	7994	7995	MHK070018	MHK070019	D/S	1850	SPK070017	8	VCP			357	370.8
3	3_Moderate	138	2018-10-23		PPT		31	15					BROOKSIDE	8/6/2007	9843	9947	MHN060044	MHN060045	D/S	3845	SPN060054	8	VCP			365	370
4	3_Moderate	138					4	2225				Y	FARNHAM	7/12/2006	9336	9176	MHM010013	MHM010015	U/S	5032	SPM010038	8	VCP			385	386.1
5	3_Moderate	138			PPT		June Map 2 B1	48				Y	BROOKHURST STREET	6/12/2012	9146	9147	MHM030001	MHM030002	D/S	4368	SPM030003	8	VCP			275	275.6
2	3_Moderate	139					R045	6					HARBOR BLVD	10/27/2005	12140	12116	MHS090034	MHS090001	D/S	5834	SPS090023	8	VCP			257	257.4
3	3_Moderate	139			PPT		39	10					HILL	9/6/2007	10191	10203	MHN070017	MHN070028	D/S	4225	SPN070049	8	VCP			382	384
4	3_Moderate	139					9	2322				Y	HARLE	9/22/2006	9236	9235	MHM030019	MHM030018	U/S	3605	SPM030021	8	VCP			160	148.0

Structural Defect Coding

Street Name	Crack (C) L	Crack C	Crack M	Crack S	Crack H	Fracture (F) L	Fracture C	Fracture M	Fracture S	Fracture H	Broken (B) SV	Broken VV	Hole (H) SV	Hole VV	Joint (J) O S	Joint O M	Joint O L	Joint S S	Joint S M	Joint S L	Joint A	Deformed (D) V	Deformed H	Collapsed Pipe (X) P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags (WL) S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
ERIN		1				1																								2	4	2.00
CHANTICLEER	2	1	1																											4	8	2.00
13272 Hazel St.		1	4																												13	2.60
OLSON ST	1	1	2				1	5																						10	31	
READING AVE		1	1			1	6	2																						11	27	2.45
HARCOURT	9	4																												13	22	1.69
11262 Jerry Ln.		1	4																												12	3.00
MAC MURRAY ST		1					1	1																				12		15	31	
READING AVE							1																							1	2	2.00
HARCOURT	9	4																												13	22	1.69
READING AVE								1																						1	4	4.00
GILBERT	6																													6	12	2.00
13361 Jessica Dr.	1	1	1				1	1																							12	2.00
JOYZELLE DR	7	10	2																											19	30	
HAZARD AVE																1														1	3	3.00
LARRY	5	1																												6	11	1.83
BIRCHWOOD STREET			2					1				1																10	5141	14	35	2.50
13421 Westlake St.	1	3	1					1																							12	2.40
ORANGEWOOD AV	5	5	5																											15	30	
DONEGAL													1																	1	5	5.00
HARRIET LN	3	3	3																											9	18	2.00
MITCHELL AVENUE			3								1																		5133	4	14	3.50
13350 Hope	1	1	3																												12	3.00
MAC ST	9		4																											13	30	
BETTES								1								1														2	7	3.50
HERTHA LN																												25		25	50	2.00
AMY AVE	1	3	2		1						1																		5133	8	23	2.88
NORMA LN	1	2	2				2	4																						11	30	
HERTHA LN																												25		25	50	2.00
HOPE STREET											1																		5100	1	5	5.00
9741 Luders Ave.	1	1				3																									12	2.00
ALLEY	1	3	2					4								1														11	30	
SONGISH																1														1	3	3.00
MYSTIC	8	1	5																											14	32	2.29
10392 Stanford Ave.		3	3																												11	2.20
NORMA LN		1	1				3	5																						10	30	
JEAN	5	2	1																											8	15	1.88
9761 Bixby Ave.		3						2																							11	2.75
REVA DR	1	2	2			3	3	1																						12	29	
JEAN	5	2	1																											8	15	1.88
LAURIANNE LANE	19	7	21		13		1	1																					4A3C	62	205	3.31
TRISTAN DR	2	1	5			1	1	1																						11	29	
ORANGEWOOD		2	1				1	1																						5	11	2.20
GARZA	6	4																												10	16	1.60
VANGUARD AVENUE	11	5	5			10	1	13																					4A3B	45	126	2.80
ALLEY	2	3	5				1	1																						12	28	
ORANGEWOOD		1	2			2																								5	13	2.60
CLEARBROOK	4																													4	8	2.00
REVA DRIVE	7	5	5			10	1	11		1																			4A3B	40	114	2.85
VONS DR	2	3	7																											12	28	
ORANGEWOOD							1	1																						2	6	3.00
VANCOUVER																		1												1	2	2.00
LOUISE STREET		1	3					11								1													4A34	16	57	3.56
13490 Hope	2	1	2																												11	2.75
KATHY LN		1	3				3	3																						10	28	
VANCOUVER																		1												1	2	2.00
HAVENWOOD DR	1		3				4	13								1													4A33	22	74	3.36
8422 Acacia Ave.	1		3																												11	2.75
ACACIA PRKWY	9	6	1																											16	27	
GARDEN								2																						2	8	4.00
COLCHESTER	1																											8		9	18	2.00
ADAH ST	4	8				1		2																						15	27	
GARDEN							1	1																						2	6	3.00
HUBER	2		1																											3	7	2.33
NELSON STREET						1		13																					4A31	14	55	3.93
13062 Coast St.	1		2			1																									10	3.33
DOWNING ST	4	5	3				1									1														14	27	
ANTIGUA		4																												4	4	1.00
ACACIA AVENUE	16	2	34			1		8																					483F	61	171	2.80
MARCHAND AV	10	1	2																											13	27	
GILBERT	8	2																												10	18	1.80
HASTER STREET	5	20	9		1	1	3	7		1															3				483A	50	111	2.22
12141 Loraleen St.	1		1					1							1																10	2.00
DOWNING ST	4	4	5																											13	27	
GARDEN																1														1	3	3.00
HILLVIEW	3																													3	6	2.00
GAIL LANE	5	8	11					8																					483A	32	83	2.59
HOPI RD			7				3																							10	27	
BROOKSIDE							1																							1	2	2.00
FARNHAM		1	2																											3	7	2.33
BROOKHURST STREET	3	10	26	1	5		1	2																					473D	48	141	2.94
HARBOR BLVD	3		7																											10	27	
HILL								1																						1	4	4.00
HARLE	3	1																												4	7	1.75

Operational and Maintenance

Street Name	Deposits (D) AGS	AE B	AE %	AE L	AE %	Other Z	Other %	Roots Fine (F) B	Fine L	Fine J	Fine C	Tap (T) B	Tap L	Tap J	Tap C	Medium (M) B	Medium L	Medium J	Medium C	Ball (B) B	Ball L	Ball J	Ball C	Infiltration (I) G	Infiltration D	Infiltration R	Infiltration W	Obstacles (OB) Other C	Obstacles Z	Obstacles %	Vermin (V) C	Vermin R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
ERIN																																		0	0	0.00
CHANTICLEER	23								1								1	1																26	53	2.04
13272 Hazel St.								4																											2	0.40
OLSON ST	1	3	5.00	2	15.00					7				1																				14	21	
READING AVE																																		0	0	0.00
HARCOURT	5	61								2																					15			83	149	1.80
11262 Jerry Ln.								1																											2	2.00
MAC MURRAY ST	2																																	2	4	
READING AVE																																		0	0	0.00
HARCOURT	5	61								2																					15			83	149	1.80
READING AVE																																		0	0	0.00
GILBERT	10									2																					3			15	25	1.67
13361 Jessica Dr.																																			0	0.00
JOYZELLE DR																																		0	0	
HAZARD AVE																																		0	0	0.00
LARRY	32					18																												50	118	2.36
BIRCHWOOD STREET						42				2																					1		2G13	45	87	1.93
13421 Westlake St.																																			53	1.45
ORANGEWOOD AV	58																																	58	116	
DONEGAL																																		0	0	0.00
HARRIET LN	25								1																									26	51	1.96
MITCHELL AVENUE	23					12				1								1			1								1	5			4131	39	82	2.10
13350 Hope	25																																		10	0.63
MAC ST																																		0	0	
BETTES								1																										1	2	2.00
HERTHA LN	150					60				6																								216	486	2.25
AMY AVE						7																											2700	7	14	2.00
NORMA LN	14	35	5.00	2	10.00																													51	102	
HERTHA LN	150					60				6																								216	486	2.25
HOPE STREET																																	0000	0	0	0.00
9741 Luders Ave.								1	1			2																							1	0.11
ALLEY	1								1			1	1																		1			6	11	
SONGISH																																		0	0	0.00
MYSTIC	45					15																									4			64	139	2.17
10392 Stanford Ave.																															1				4	4.00
NORMA LN	2					1	5.00																											3	7	
JEAN		49						2	2	21							1	2																77	134	1.74
9761 Bixby Ave.																												1		20					0	0.00
REVA DR		93	5.00							1																								94	187	
JEAN		49						2	2	21							1	2																77	134	1.74
LAURIANNE LANE	8									4											1										4		4100	17	28	1.00
TRISTAN DR		65	5.00							1							1																	67	134	
ORANGEWOOD																																		0	0	0.00
GARZA	22	16																													1			39	77	1.97
VANGUARD AVENUE		69								5	3								4										2	5	2		362L	85	165	1.94
ALLEY	2	74	5.00	1	5.00	25	10.00			1							1																	104	233	
ORANGEWOOD																																		0	0	0.00
CLEARBROOK	15	24								5																					1			45	84	1.87
REVA DRIVE	46																																2I00	46	92	2.00
VONS DR																																		0	0	
ORANGEWOOD																																		0	0	0.00
VANCOUVER	129					156				1							1														65			352	795	2.26
LOUISE STREET																																	0000	0	0	0.00
13490 Hope	76																																		2	2.00
KATHY LN	3					1	5.00																											4	9	
VANCOUVER	129					156				1							1														65			352	795	2.26
HAVENWOOD DR																																	0000	0	0	0.00
8422 Acacia Ave.													1																						0	0.00
ACACIA PRKWY																																		0	0	
GARDEN																																		0	0	0.00
COLCHESTER	98	26																													6			130	254	1.95
ADAH ST																																		0	0	
GARDEN																																		0	0	0.00
HUBER						19																									2			21	59	2.81
NELSON STREET																																	0000	0	0	0.00
13062 Coast St.																																			19	0.90
DOWNING ST	56																																	56	112	
ANTIGUA	96					21																												117	255	2.18
ACACIA AVENUE						55																											2J00	55	110	2.00
MARCHAND AV																				2	1													3	14	
GILBERT	74																														1			75	149	1.99
HASTER STREET						6																									10		261A	16	22	1.38
12141 Loraleen St.						1	10.00	3																							2				40	2.29
DOWNING ST										3																								3	3	
GARDEN																																		0	0	0.00
HILLVIEW	66	3								1																								70	139	1.99
GAIL LANE						15				1																						1	2B12	17	31	1.82
HOPI RD	2								1	4				1																	1			9	12	
BROOKSIDE																																		0	0	0.00
FARNHAM	126	125				1				1																					4			257	510	1.98
BROOKHURST STREET	85																1														1		2P31	87	174	2.00
HARBOR BLVD	3																														1			4	7	
HILL																																		0	0	0.00
HARLE	12	14																													1			27	53	1.96

Construction Features and Remarks

Street Name	Tap (Lateral) (T) FD	Tap FL	Tap BI	Tap BD	Line (L) D	Line L	Line U	Line R	Line LD	Line RD	Intruding Seal Material (IS) SRH	IS SRB	IS SRL	IS Z	Miscellaneous (M) SA	M CU	M MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
ERIN																							
CHANTICLEER																		0					
13272 Hazel St.																							Reline, Cut roots
OLSON ST																							
READING AVE																							
HARCOURT	3																	6				Multiple reaches were evaluated with one inspection.	
11262 Jerry Ln.																							Reline, Cut roots
MAC MURRAY ST																							
READING AVE																					Replaced 67" long section of 8" VCP pipe.		
HARCOURT	3																	6				Multiple reaches were evaluated with one inspection.	
READING AVE																					Replaced a section of 8" VCP main.		
GILBERT																		0					
13361 Jessica Dr.																							Reline
JOYZELLE DR																							
HAZARD AVE	1																						
LARRY																		0					
BIRCHWOOD STREET																						117.9' Small BVV . Moderate Defect.	Patch Repair
13421 Westlake St.																							Reline
ORANGEWOOD AV																							
DONEGAL																							
HARRIET LN																		0					
MITCHELL AVENUE																						290' Small BSV, End of the Sewer Line. Lateral @ 58.9' 90 % plugged with Deposits	Patch Repair & Clean Lateral by Home owner
13350 Hope			1																				Spot Repair, Clr D, Fix Lat
MAC ST																							
BETTES																							
HERTHA LN																		0				Multiple reaches were evaluated with one inspection. 537' JOM(D/SL)	
AMY AVE																						259.5' Small BSV, Close to Ending MH	Patch Repair
NORMA LN																							
HERTHA LN																		0				Multiple reaches were evaluated with one inspection. 537' JOM(D/SL)	
HOPE STREET															2							2' From both MH MSA (U/S SIPHON), 5' Small BSV. Inspection couldn't completed. Moderate Defect	Patch Repair
9741 Luders Ave.																							Reline, Cut roots
ALLEY								1														219' (D/SH) JOM	
SONGISH																							
MYSTIC																		0					
10392 Stanford Ave.																							Reline
NORMA LN																							
JEAN																		0				Multiple reaches were evaluated with one inspection.	
9761 Bixby Ave.																							Reline, Clear obstacles
REVA DR																							
JEAN																		0				Multiple reaches were evaluated with one inspection.	
LAURIANNE LANE																							
TRISTAN DR																							
ORANGEWOOD																							
GARZA																		0					
VANGUARD AVENUE															2							Inspection Completed. Cracks & Fractures & Deposits. Moderate Defect	Clean Deposits & Reline Pipe. 101.8' to 148.8' (Plumber Snake)& 145' to 178.9' (External Cable) 2 times OBZ. Clean Obstacles
ALLEY																						DAZ=DSZ	
ORANGEWOOD																							
CLEARBROOK	1																	2					
REVA DRIVE																						Cracks & Fractures. Moderate Defect	Should Reline
VONS DR																							
ORANGEWOOD																					Replaced section of 8" VCP main.		
VANCOUVER																		0				Multiple reaches were evaluated with one inspection.	
LOUISE STREET																						Moderate	
13490 Hope																1							Reline, Clean grease
KATHY LN																							
VANCOUVER																		0				Multiple reaches were evaluated with one inspection.	
HAVENWOOD DR																							
8422 Acacia Ave.																							Spot Repair, Cut roots
ACACIA PRKWY																							
GARDEN																							
COLCHESTER																		0					
ADAH ST																						CONTINUOUS CRACK CIRCUMFERENTIAL	
GARDEN																							
HUBER																		0					
NELSON STREET																	2					Moderate	
13062 Coast St.																							Spot Repair
DOWNING ST																						90' (D/SL) JOM	
ANTIGUA																		0					
ACACIA AVENUE																						Fractures & Cracks. Moderate Defect.	Should Reline
MARCHAND AV																							
GILBERT																		0					
HASTER STREET																						Moderate	
12141 Loraleen St.																							Replace pipe
DOWNING ST																							
GARDEN																							
HILLVIEW																		0					
GAIL LANE																						Cracks & Fractures. Moderate Defect	Should Reline
HOPI RD																							
BROOKSIDE																					Replaced section of * 8" VCP main.		
FARNHAM																		0					
BROOKHURST STREET																							
HARBOR BLVD																							
HILL																							
HARLE																		0				GIS length is 320'	

Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched? (Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID.	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)	Crack C L	Crack C C	Crack C M	Crack C S	Crack C H	Fracture F L	Fracture F C	Fracture F M	Fracture F S	Fracture F H	Broken B SV	Broken B VV	Hole H SV	Hole H VV	Joint J O S	Joint J O M	Joint J O L	Joint J S S	Joint J S M	Joint J S L	Joint J A	Deformed D V	Deformed D H	Collapsed Pipe X P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags WL S	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index	Deposits D AGS	Deposits AE B	Deposits AE %	Deposits AE L	Deposits AE %	Deposits Other Z	Deposits Other %	Roots Fine (F) B	Fine (F) L	Fine (F) J	Fine (F) C	Tap (T) B	Tap (T) L	Tap (T) J	Tap (T) C	Medium (M) B	Medium (M) L	Medium (M) J	Medium (M) C	Ball (B) B	Ball (B) L	Ball (B) J	Ball (B) C	Infiltration I G	Infiltration I D	Infiltration I R	Infiltration I W	Obstacles OB Other C	Obstacles OB Other Z	Obstacles OB Other %	Vermin V C	Vermin V R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index	Tap (Lateral) T FD	Tap (Lateral) T FL	Tap (Lateral) T BI	Tap (Lateral) T BD	Line L D	Line L L	Line L U	Line L R	Line L LD	Line L RD	Intruding Seal Material IS SRH	IS SRB	IS SRL	IS Z	Miscellaneous M SA	Miscellaneous M CU	Miscellaneous M MC	Total Construction Features	Reasons for Survey Abandoned	GIS Identified Abandoned	Repair Description	Comments	Recommendations
5	3_Moderate	139			PPT		MAP 2 July-3	7				Y	MEADE STREET	6/26/2012	9600	9601	MHL100034	MHL100035	D/S	3324	SPL100016	8	VCP			368	371.6	8	27	19		1	2	6	7																					473C	70	153	2.19	24																														2		2C12	26	50	1.92																						Cracks & Fractures.	Should Reline
1	3_Moderate	140				17		1				x	9922 Stanford Ave.	3/4/2004	10729	11329	MHM120007	MHM120001	DS	2732	SPM120017	8	VCP	3		385	364	1	3	1				1																								10	2.50																	1																		2	2.00																							Reline, Cut roots
2	3_Moderate	140					R012	12					WAVERLY DR	8/15/2005	12947	12949	MHP080018	MHP080021	D/S	6198	SPP080014	8	VCP			288	289.0			1																									12		13	27																																					0	0																							SAG	
3	3_Moderate	140			PPT		32	20					GERALDINE	8/9/2007	10200	9674	MHN070025	CON070003	U/S	4226	SPN070050	8	VCP			156	151								1																						1	4	4.00																																		0	0	0.00																						
4	3_Moderate	140					MIXED 2	2462				Y	GARZA	1/9/2006	8335	8334	MHL040013	MHL040011	U/S	4924	SPL040011	8	VCP			307	607.8	6	3																												9	15	1.67	30							4	1	31							4				1										2			73	118	1.62	1																	2				Multiple reaches were evaluated with one inspection. 341' There is a lateral @ 9 o'clock. This lateral does not exist on database	
5	3_Moderate	140		X	PPT		MAP 2 July-3	14				Y	JOSEPHINE STREET	6/28/2012	8390	8393	MHK120005	MHK120008	D/S	3364	SPK120008	8	Clay Tile			332	330.1	2	4	21		1	1	2	7																					473C	38	113	2.97																																	0000	0	0	0.00																						Cracks & Fractures. Pipe ID was 3408. We checked GIS & changed it	Should Reline
2	3_Moderate	141					G007	11				Y	DALE ST	7/20/2005	8513	8514	MHK070043	MHK070044	D/S	1999	SPK070046	8	VCP			365	368.0	2	2	4				4																							12	26		1	71	5.00			1	5.00		1	4																								78	152																									
3	3_Moderate	141			PPT		35	7					GARDEN	8/16/2007	10201	10202	MHN070026	MHN070027	D/S	5390	SPN070029	8	VCP			250	262						2	2	1																						5	14	2.80																																		0	0	0.00																						
4	3_Moderate	141					MIXED 2	2462				Y	GARZA	1/9/2006	8336	8335	MHL040013	MHL040011	U/S	5018	SPL040012	8	VCP			307	607.8	6	3																												9	15	1.67	30							4	1	31							4				1										2			73	118	1.62	1																	2				Multiple reaches were evaluated with one inspection. 341' There is a lateral @ 9 o'clock. This lateral does not exist on database	
5	3_Moderate	141		X	PPT		MAP 2 July-4	2				Y	LOUISE STREET	6/28/2012	8429	8430	MHK120031	MHK120032	D/S	3407	SPK120033	8	Clay Tile			332	321.9	2	4	8				2	7																					4738	23	64	2.78										1																							1100	1	1	1.00																						Moderate	
2	3_Moderate	142					M015	1					BECK AV	9/6/2005	12185	12186	MHR100032	MHR100033	D/S	5922	SPR100024	8	VCP			311	313.9	2	3	5					1																						11	26																					1																1	3																								
3	3_Moderate	142			PPT		35	6					GARDEN	8/16/2007	10202	10203	MHN070027	MHN070028	D/S	5484	SPN070030	8	VCP			250	247							1																							1	2	2.00																																		0	0	0.00																						
4	3_Moderate	142					6	2262				Y	HERTHA LN	8/11/2006	9200	9199	MHM010038	MHM010036	U/S	4505	SPM010022	8	VCP			300	318.1		2	1																											3	5	1.67	105	12							2	6																			1	5				126	246	1.95																		0					
5	3_Moderate	142			PPT		MAP 3-B3-2	25					COMSTOCK ROAD	8/8/2012	11683	12807	MHQ100014	MHQ100015	D/S	6461	SPQ100043	8	VCP			380	380.3	1	2	4					7																					4734	14	44	3.14										1																							1100	1	1	1.00																						Moderate	
1	3_Moderate	143		X		3		15				x	10541 Halelani St.	2/6/2004	11217	11218	MNW13030	MNW13031	DS	2394	SPO100022	8	VCP	3		265	264		1	3																												10	2.50	1							34	1								2				1														57	1.27																							Spot Repair, Cut roots
2	3_Moderate	143					R048	14				Y	ROCKINGHORSE RD	11/1/2005	10910	10911	MHQ130031	MHQ130032	D/S	4466	SPQ130031	8	VCP			230	226.6																												13		13	26																		1																	1	3																								
3	3_Moderate	143			PPT		35	3					HILL	8/16/2007	10203	10204	MHN070028	MHN070029	D/S	5485	SPN070031	8	VCP			285	287						1		3																						4	15	3.75																																		0	0	0.00																						
4	3_Moderate	143					MIXED P COUNTY 2	2				Y	POONA ALLEY	11/3/2007	9270	9271	MHM020037	MHM020038	D/S	4366	SPM020004	8	VCP			230	227.9	9	1																												10	19	1.90	6	4								2																					7			19	29	1.53																		0					
1	3_Moderate	144				23		17				x	12872 Hazel Ave.	3/17/2004	8496	8497	MHL120030	MHL120031	DS	3156	SPL120029	8	VCP	3		303	304	2		1			1																									10	1.67	8							8				6				1	1																		20	0.97																							Spot Repair, Clear D&R
2	3_Moderate	144					G040	5				Y	9TH ST	9/14/2005	12539	12540	MHP090001	MHP100035	D/S	6055	SPP100001	10	VCP			300	313.6																												13		13	26		76	91	5.00	2	40.00																												1			170	339																							SAG & DEPOSITS	
3	3_Moderate	144			PPT		35	4					HILL	8/16/2007	10204	10205	MHN070029	MHN070030	D/S	5486	SPN070032	8	VCP			243	244							1																							1	2	2.00																																		0	0	0.00																						
4	3_Moderate	144					5	2235				Y	MILENBURG	7/18/2006	9336	9337	MHM010012	MHM010014	D/S	3482	SPM010033	8	VCP			260	522.9	4	1																												5	9	1.80	130					40				1	3																					5			179	389	2.17																		0				Multiple reaches were evaluated with one inspection.	
5	3_Moderate	144		X	PPT		MAP 3-6	15				Y	ACACIA PARKWAY	7/26/2012	11838	13491	MHO120011	MHO120012	D/S	5400	SPO120010	8	Clay Tile			355	513.8	5	4	27			1		5																			1	65	463D	108	250	2.31	82					58				23									1	1			2												4233	169	327	1.93			1			1									1							513.8'MSA (LL). No Reversal Video	
1	3_Moderate	145		X		3		19				x	12271 Moana St.	2/6/2004	11221	11222	MNW13034	MNW13035	DS	2398	SPO100023	8	VCP	3		290	325	2	3	1																												10	2.50								7	1			1	1																						10	0.67																							Reline, Cut roots
2	3_Moderate	145					G031	9				Y	JOHN AV	8/30/2005	12473	12567	MHQ090026	MHQ090029	D/S	4766	SPQ090030	8	VCP			290	288.6																												13		13	26		3	50	5.00	1	5.00																												1			55	109																							SAG	
3	3_Moderate	145	2018-10-31		PPT		49	47					GERALDINE	10/24/2007	10209	10210	MHN070033	MHN070034	D/S	4036	SPN070038	8	VCP			249	245							1																							1	2	2.00																																		0	0	0.00																					Replaced section of 8" VCP main.		
4	3_Moderate	145					5	2235				Y	MILENBURG	7/18/2006	9335	9336	MHM010012	MHM010014	D/S	3483	SPM010034	8	VCP			240	522.9	4	1																												5	9	1.80	130					40				1	3																					5			179	389	2.17																		0				Multiple reaches were evaluated with one inspection.	
5	3_Moderate	145		X	PPT		MAP 3-6	13				Y	MAIN STREET	7/27/2012	11749	11750	MHO120001	MHP120037	D/S	4404	SPO120001	10	Clay Tile			335	332.4	3	3	24				1	6																					463C	37	107	2.89						20																									27		312C	48	73	1.52			1																			Moderate	
1	3_Moderate	146		X		25		10					12686 Lucille Ave.	3/18/2004	9369	8485	MHL110047	MHL120021	DS	3206	SPL110049	8	VCP			253	242	2		2																												10	2.50								5																												8	2.00																							Spot Repair, Cut roots
2	3_Moderate	146					R039	9				Y	ALLEY	9/30/2005	12663	12664	MHT100045	MHT100046	D/S	3924	SPT100041	8	VCP			400	400.3																												13		13	26		9	5	5.00	1	5.00																															15	30																							2 SAGS	
3	3_Moderate	146	2019-01-29		PPT		31	39					McMICHAEL	8/8/2007	10217	10218	MHN070036	MHN070037	D/S	4039	SPN070041	8	VCP			328	330							1																							1	2	2.00																																		0	0	0.00																					Replaced section of 8" VCP main.		
4	3_Moderate	146					5	2230				Y	GUINIDA	7/17/2006	9330	9331	MHM010005	MHM010006	D/S	3475	SPM010027	8	VCP			328	295.4	2	2				2		1																						7	16	2.29	98	14								3																					1			116	228	1.97																		0					
5	3_Moderate	146			PPT		MAP 3-B3-5	6				Y	COLLEGE AVENUE	8/31/2012	11649	11650	MHR110013	MHR110014	D/S	6083	SPR110030	8	VCP			325	332.6	13		3			19	5	6																					463C	46	126	2.74																																	0000	0	0	0.00																						Cracks & Fractures. Moderate Defect	Should Reline
1	3_Moderate	147				35		26					13230 Coast St.	4/13/2004	7108	13416	MHJ140005	MHJ140030	DS	6836	SPJ140031	10	VCP			280	281		1	3																												10	2.50	1							3																												0	0.00																						The second pipe ID represents two current pipe IDs.	Spot Repair, Cut roots
2	3_Moderate	147					R030	5					9TH ST	9/21/2005	12483	12484	MHP120002	MHQ120006	D/S	5589	SPP120003	8	VCP			330	341.6																												13		13	26																																					0	0																								
3	3_Moderate	147	2019-04-17		PPT		31	40					McMICHAEL	8/8/2007	10218	10219	MHN070037	MHN070038	D/S	4040	SPN070042	8	VCP			328	330		1					1																							2	3	1.50																																		0	0	0.00																					Replaced section of 8" VCP main.		
4	3_Moderate	147					MIXED 3	2488				Y	BALL RD	1/25/2007	9318	9319	MHM000017	MHM000018	D/S	3466	SPM000009	8	VCP			250	243.0	3	3																												6	9	1.50	80	45																													13			138	263	1.91																		0					
5	3_Moderate	147			PPT		MAP 1	3				Y	LAURELTON AVENUE	5/15/2012	8274	8275	MHG090011	MHG090012	D/S	1063	SPG090015	8	VCP			350	349.7	17	1	6			12	2	6																					463B	44	117	2.66						68																		1	2								5132	71	147	2.07																						Cracks & Fractures & Deposits. Moderate Defect	Clean Deposits & Reline Pipe
1	3_Moderate	148				35		26					13230 Coast St.	4/13/2004	13416	7116	MHJ140005	MHJ140030	DS	6837	SPJ140031	10	VCP			280	281		1	3																												10	2.50	1							3																												0	0.00																						The second pipe ID represents two current pipe IDs.	Spot Repair, Cut roots
2	3_Moderate	148					R046	14				Y	PEARCE AV	10/28/2005	12770	12771	MHR140005	MHR140006	D/S	6479	SPR140006	8	VCP			310	310.4																												13		13	26		8									11							1				1													21	34																							SAG	
3	3_Moderate	148	2019-07-30		PPT		30	9					FAYE	8/1/2007	9851	9853	MHN080005	MHN080007	D/S	4147	SPN080005	8	VCP			300	302		1					2	1																						4	9	2.25																																		0	0	0.00																					Replaced 2' of 8" VCP main.		
4	3_Moderate	148					2	1963				Y	PARADE	4/18/2006	9295	9294	MHM990026	MHM990025	U/S	3446	SPM990024	8	VCP			287	284.8	2																													2	4	2.00	85	46						50	1	58						3	1														4			248	440	1.77																		0					
5	3_Moderate	148			PPT		MAP 3-B3-2	11				Y	DEANANN PLACE	8/10/2012	11300	11301	MHN140018	MHN140019	D/S	2899	SPN140007	8	VCP			300	300.1	14		3		1	1		3		3																			4635	25	71	2.84	15									2	1																						2B13	18	32	1.78																						Moderate	
1	3_Moderate	149				20		10					12642 Lucille Ave.	3/10/2004	9367	9368	MHL110045	MHL110046	DS	3204	SPL110047	8	VCP			300	301	2		1			1																									10	2.50																																			0	0.00																							Spot Repair
2	3_Moderate	149					G016	10					WASCO RD	8/2/2005	8050	7973	MHK050030	MHK050031	D/S	2428	SPK050046	8	VCP			285	300.8	2	5	4				2																							13	25																																					0	0																								
3	3_Moderate	149	2019-06-04		PPT		37	25					SEACREST	8/29/2007	9867	9847	MHN080025	MHN090009	D/S	5881	SPN080025	8	VCP			325	310			1					1																						2	7	3.50																																		0	0	0.00																					Replaced 52" section of 8" VCP main.		
4	3_Moderate	149					P COUNTY	5				Y	CAMPUS	10/11/2007	9170	9169	MHM990006	MHM990010	U/S	4385	SPM990013	8	VCP			99	419.2	2																											9		11	22	2.00	4	26								1																					14			45	75	1.67																		0				Multiple reaches were evaluated with one inspection.	
5	3_Moderate	149		X	PPT		MAP 2-1-4	15				Y	FAYE AVE	7/17/2012	11273	11274	MHN090018	MHN090019	D/S	2557	SPN090016	8	VCP			286	292.2	23	13	25		3	1	1	2																					453D	68	168	2.47																															4		1400	4	4	1.00																						Cracks & Fractures. Major Defect	Should Reline
1	3_Moderate	150		X		7A		12					11082 Walnut	2/19/2004	11785	11766	MHP100034	MHP110016	DS	5117	SPP100041	6	VCP			270	268	2		2																												9	3.00																																			0	0.00																							Spot Repair
2	3_Moderate	150					M014	7					TWINTREE AV	9/2/2005	12115	12171	MHR100020	MHR100022	D/S	6033	SPR100034	8	VCP			135	134.4	4	3	4				1																							12	25																																					0	0																								
3	3_Moderate	150			PPT		32	3					EDGEWOOD	8/8/2007	9967	9966	MHN080030	MHN080029	U/S	5371	SPN080030	8	VCP			290	291																1														1	3	3.00																																		0	0	0.00																						
4	3_Moderate	150					P COUNTY	5				Y	CAMPUS	10/11/2007	9165	9170	MHM990006	MHM990010	U/S	4386	SPM990014	8	VCP			323	419.2	2																											9		11	22	2.00	4	26								1																					14			45	75	1.67																		0				Multiple reaches were evaluated with one inspection.	
5	3_Moderate	150		X	PPT		MAP 3-5	12				Y	MCLEOD STREET	7/24/2012	11210	11147	MHO100019	MHO110030	D/S	2387	SPO100020	8	Clay Tile			270	267.1	11	1	15		1			5																					453B	33	88	2.67	18									1																							2B11	19	37	1.95																	2					Moderate	
1	3_Moderate	151				19		9				x	12041 Melody Dr.	3/8/2004	8448	8449	MHM120029	MHM120030	DS	3108	SPM120030	8	VCP	3		180	181		1						2																							9	3.00																																			22	1.05																							Spot Repair
2	3_Moderate	151					G058	10				Y	HASTER ST	12/13/2005	13009	13004	MHS080007	MHT090039	D/S	6098	SPT080008	10	VCP			305	310.9		5	3			1		2																						11	25		76	76	5.00																												21			173	325																									
3	3_Moderate	151			PPT		32	5					EDGEWOOD	8/8/2007	9970	9971	MHN080034	MHN080035	D/S	5375	SPN080034	8	VCP			345	353							1																							1	2	2.00																																		0	0	0.00	3																					
4	3_Moderate	151					17	2479				Y	GILBERT	1/18/2007	9281	9282	MHL990004	MHL990005	D/S	3682	SPL990005	8	VCP			255	251.8	3	2																												5	8	1.60	81																														2			83	164	1.98																		0					
5	3_Moderate	151			PPT		MAP 2 July-2	5				Y	BIXBY AVE	6/25/2012	9024	9026	MHL090022	MHL090024	D/S	3337	SPL090020	8	VCP			282	283.9	4	10	15			2	5	3		2																			453B	41	99	2.41	55					7																											2K00	62	124	2.00																						Cracks & Fractures. Major Defect	Should Reline
1	3_Moderate	152				51		2					12401 Jerome St.	5/20/2004	9595	9566	MHL100029	MHL110006	DS	3319	SPL100011	8	VCP			334	327			1				1	1																								9	3.00								5				2	1								1														10	2.00																							Spot Repair, Cut roots
2	3_Moderate	152					R047	9				Y	ALLEY	10/31/2005	10902	11421	MHQ130022	COQ130002	U/S	3708	SPQ130001	8	VCP			140	136.1	7		2				1								1														11	25			6	5.00						1	19								2																28	38																							5' (D/SL) JOM	
3	3_Moderate	152			PPT		37	26					MELODY PARK	8/30/2007	9978	9979	MHN080042	MHN080043	D/S	5383	SPN080042	8	VCP			210	214							1																							1	2	2.00																																		0	0	0.00																						
4	3_Moderate	152					1	1722				Y	COLONY	3/15/2006	9168	9167	MHM990009	MHM990008	U/S	4383	SPM990011	8	VCP			98	97.0	4																													4	8	2.00	12								1	3																					1			17	29	1.71																		0					
1	3_Moderate	153				17		9				x	12681 Lanakila Ln.	3/5/2004	10753	11551	MHM110038	MHM110039	DS	2671	SPM110027	8	VCP	3		192	191			1				1	1																								9	3.00								5																												0	0.00																							Spot Repair, Cut roots
2	3_Moderate	153					R001	7				Y	FERRIS LN	7/25/2005	10141	10793	MHL080019	MHL080021	D/S	5942	SPL080039	8	VCP			305	297.4	5		5																										10	25			27	5.00	5	50.00																															32	64																									
3	3_Moderate	153			PPT		45	51					CHAPMAN	10/8/2007	9845	9846	MHN090007	MHN090008	D/S	4178	SPN090010	15	VCP			252	253								1																						1	4	4.00																																		0	0	0.00																						
4	3_Moderate	153					5	2236				Y	MILENBURG	7/19/2006	9337	9328	MHM010014	MHM010003	D/S	3484	SPM010035	8	VCP			270	266.9	5	1	2																										8	17	2.13	87	54				14		1	1	8											1										2			168	341	2.03	1																	2					
5	3_Moderate	153		X	PPT		MAP 2-2-1	2					LARSON AVENUE	7/6/2012	7673	7676	MHK130037	MHK130040	D/S	710	SPK130038	8	Clay Tile			260	254.3	2		12					5																					453A	19	60	3.16																																	0000	0	0	0.00																						Moderate	
1	3_Moderate	154		X		37		5					8262 Stanford Ave.	4/8/2004	7712	7713	MHJ120025	MHJ120026	DS	745	SPJ120017	8	VCP			132	141			1				1	1																								9	2.25																																			0	0.00																							Spot Repair
2	3_Moderate	154					R060	2				Y	HAVENWOOD DR	11/28/2005	11908	11909	MHP140010	MHP140011	D/S	4813	SPP140009	8	VCP			291	291.9			1																									11		12	25			15	5.00			6	5.00		3	1																								25	52																							CONTINUOUS DAE & DAZ	
3	3_Moderate	154	2019-05-08		PPT		22	34					BONSER	7/5/2007	9422	9447	MHN100015	MHN100025	D/S	3500	SPN100051	8	VCP			350	359							1																							1	2	2.00																																		0	0	0.00	1		2																		Replaced a section of 8" VCP main.		
4	3_Moderate	154					MIXED P COUNTY 1	9				Y	GILBERT	11/6/2007	8943	8944	MHL030038	MHL030039	D/S	3656	SPL030004	10	VCP			337	332.0	1	2																	1											4	6	1.50	13					22																									12			47	104	2.21				5														15					
1	3_Moderate	155		X		40		29					13401 Wilson St.	4/16/2004	7689	7690	MHK140039	MHK150011	DS	720	SPK140036	8	VCP			380	378	1	1					1	1																								9	2.25																																			30	1.26																							Spot Repair
2	3_Moderate	155					R015	4					CLIFFWOOD AV	8/22/2005	13046	13097	MHR070021	MHR070022	D/S	6019	SPR070028	8	VCP			323	320.4			1																									11		12	25																																					0	0																								
3	3_Moderate	155			PPT		25	36					TYHURST	7/17/2007	9430	9446	MHN100023	MHN100024	D/S	3501	SPN100052	8	VCP			320	333							2																							2	4	2.00																		1																1	3	3.00	1																					
4	3_Moderate	155					5	2230				Y	GUINIDA	7/17/2006	9331	9326	MHM010006	MHL010005	D/S	3476	SPL010007	8	VCP			261	247.8	1	3				1		1																						6	12	2.00	77	15								4																								96	188	1.96																		0					
1	3_Moderate	156		X		19		4					9632 Stanford Ave.	3/8/2004	12029	12046	MHM120019	MHM110044	US	2497	SPM110049	8	VCP			335	344		2				1		1																								9	2.25	1							9				1					1				1														10	0.83																							Spot Repair, Cut roots
2	3_Moderate	156	2016-05-18				M003	4					GILL DR	8/8/2005	10169	10170	MHL060014	MHL060015	D/S	3731	SPL060018	8	VCP			282	284.6	4	7	3																										14	24									1		13										2														16	25																						Replaced sections of main and removed chain knocker head and blue material from main.		
3	3_Moderate	156	2019-05-14		PPT		25	37					TYHURST	7/17/2007	9446	9447	MHN100024	MHN100025	D/S	3181	SPN100035	8	VCP			160	151							1																							1	2	2.00																																		0	0	0.00																					Removed capped wye from main and replaced a section of 8" VCP main.		
4	3_Moderate	156					4	2219				Y	HARVEST	7/5/2006	9309	9318	MHM000007	MHM000017	D/S	3469	SPM000011	8	VCP			328	325.0	1	4	2																										7	12	1.71	90	30				8																									16			144	280	1.94																		0					

| Phase | Priority | Ranking | Repair Completion Date | 2018_Project | Contractor | Tape No. | DVD No. | Inspection No. | Reversal Tape No. | Reversal DVD No. | Reversal Inspec. No. | DVD Watched(Y) | Location Street Name | CCTV Date | Existing MH ID Start | Existing MH ID End | Previous MH ID Start | Previous MH ID End | Direction of Camera | Existing Sewer ID | Previous Sewer ID | Size (in) | Material | Joint Length (ft) | GIS Comment | Length (ft) | CCTV Length (ft) | Crack C L | Crack C C | Crack C M | Crack C S | Crack C H | Crack C L | Fracture F L | Fracture F C | Fracture F M | Fracture F S | Fracture F H | Broken B SV | Broken B VV | Hole H SV | Hole H VV | Joint J O S | Joint J S M | Joint J S L | Joint J S M | Joint J L A | Deformed D V | Collapsed Pipe D H | Fracture D X P | Surface Damage S | Lining Failure LF | Point Repair RP | Sags S | Sags WL | PACP Quick Struct Rating | Total Structural Defects | Total Structural Defect Score | Structural Defect Index | Deposits AGS | Deposits AE B | Deposits AE % | Deposits AE L | Deposits Other % | Deposits Other Z | Roots (R) Fine (F) B | Roots (R) Fine (F) L | Roots (R) Fine (F) J | Roots (R) Tap (T) C | Roots (R) Tap (T) B | Roots (R) Medium (M) L | Roots (R) Medium (M) J | Roots (R) Medium (M) C | Roots (R) Ball (B) B | Roots (R) Ball (B) L | Roots (R) Ball (B) J | Roots (R) Ball (B) C | Infiltration I G | Infiltration I D | Infiltration I R | Infiltration I W | Obstacles OB C | Obstacles OB Z | Obstacles OB % | Vermin V C | Vermin V R | PACP Quick Maint Rating | Total O&M Defects | Total O&M Defect Score | O&M Defect Index | Tap (Lateral) T FD | Tap (Lateral) T FL | Tap (Lateral) T BI | Tap (Lateral) T BD | Line L D | Line L L | Line L U | Line L R | Line L LD | Line L RD | Intruding Seal Material IS SRH | Intruding Seal Material IS SRB | Intruding Seal Material IS SRL | Miscellaneous M Z | Miscellaneous M SA | Miscellaneous M CU | Miscellaneous M MO | Total Construction Features | Reasons for Survey Aborted | GIS Identified Abandoned | Repair Description | Comments | Recommendations |
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| Phase | Priority | Ranking | Repair Completion Date | 2018_Project | Contractor | Tape No. | DVD No. | Inspection No. | Reversal Tape No. | Reversal DVD No. | Reversal Inspec. No. | DVD Watched(Y) | Location Street Name | CCTV Date | Existing MH ID Start | Existing MH ID End | Previous MH ID Start | Previous MH ID End | Direction of Camera | Existing Sewer ID | Previous Sewer ID | Size (in) | Material | Joint Length (ft) | GIS Comment | Length (ft) | CCTV Length (ft) | Crack L | Crack C | Crack M | Crack S | Crack H | Crack L | Fracture C | Fracture M | Fracture S | Fracture H | Broken B | Broken SV | Hole VV | Hole SV | Hole VV | Joint O S | Joint M | Joint L | Joint S M | Joint L | Joint A | Joint V | Joint H | Joint P | Deformed D | Collapsed Pipe X | Surface Damage S | Lining Failure LF | Point Repair RP | Sags S | Sags WL | PACP Quick Struct Rating | Total Structural Defects | Total Structural Defect Score | Structural Defect Index |
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| Phase | Priority | Ranking | Repair Completion Date | 2018_Project | Contractor | Tape No. | DVD No. | Inspection No. | Reversal Tape No. | Reversal DVD No. | Reversal Inspec. No. | DVD Watched(Y) | Location | Street Name | CCTV Date | Existing MH ID Start | Existing MH ID End | Previous MH ID Start | Previous MH ID End | Direction of Camera | Existing Sewer ID | Previous Sewer ID | Size (in) | Material | Joint Length (ft) | GIS Comment | Length (ft) | CCTV Length (ft) | Crack C L | Crack C C | Crack C M | Crack C S | Crack C H | Crack C L | Fracture F C | Fracture F M | Fracture F S | Broken B H | Broken B SV | Broken B VV | Hole H SV | Hole H VV | Joint O S | Joint O M | Joint O L | Joint S S | Joint S M | Joint S L | Joint A L | Joint A A | Joint A V | Deformed D H | Collapsed Pipe X P | Surface Damage S | Lining Failure LF | Point Repair RP | Sags WL S | PACP Quick Struct Rating | Total Structural Defects | Total Structural Defect Score | Structural Defect Index | Deposits AGS | Deposits AE B | Deposits AE % | Deposits AE L | Deposits AE % | Deposits Other Z | Deposits Other % | Roots (R) Fine (F) B | Roots (R) Fine (F) L | Roots (R) Fine (F) J | Roots (R) Tap (T) C | Roots (R) Tap (T) B | Roots (R) Tap (T) L | Roots (R) Tap (T) J | Roots (R) Medium (M) C | Roots (R) Medium (M) B | Roots (R) Medium (M) L | Roots (R) Medium (M) J | Roots (R) Ball (B) C | Roots (R) Ball (B) B | Roots (R) Ball (B) L | Roots (R) Ball (B) J | Roots (R) Ball (B) C | Infiltration I G | Infiltration I D | Infiltration I R | Infiltration I W | Obstacles OB C | Obstacles OB Z | Obstacles OB Other % | Vermin V C | Vermin V R | PACP Quick Maint Rating | Total O&M Defects | Total O&M Defect Score | O&M Defect Index | Tap (Lateral) T FD | Tap (Lateral) T FL | Tap (Lateral) T BI | Tap (Lateral) T BD | Line L D | Line L L | Line L U | Line L R | Line L LD | Line L RD | Intruding Seal Material IS SRH | Intruding Seal Material IS SRB | Intruding Seal Material IS SRL | Miscellaneous M Z | Miscellaneous M SA | Miscellaneous M CU | Miscellaneous M MO | Total Construction Feature | Reasons for Survey Aborted | GIS Identified Abandoned | Repair Description | Comments | Recommendations |
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Phase	Priority	Ranking	Repair Completion Date	2018_Project	Contractor	Tape No.	DVD No.	Inspection No.	Reversal Tape No.	Reversal DVD No.	Reversal Inspec. No.	DVD Watched(Y)	Location Street Name	CCTV Date	Existing MH ID Start	Existing MH ID End	Previous MH ID Start	Previous MH ID End	Direction of Camera	Existing Sewer ID	Previous Sewer ID	Size (in)	Material	Joint Length (ft)	GIS Comment	Length (ft)	CCTV Length (ft)
1	3_Moderate	211				25		5				x	13092 Kerry St.	3/17/2004	10763	10764	MHM130028	MHM130029	DS	2335	SPM130014	6	VCP	5		320	327
2	3_Moderate	211					G037	9				Y	CHESTER AV	9/9/2005	12513	12514	MHQ110028	MHQ110030	D/S	4134	SPQ110010	8	VCP			160	285.3
3	3_Moderate	211			PPT		7	19					McCLURE	4/25/2007	7252	7269	MHO180008	MHN180015	D/S	384	SPO180032	8	VCP			300	302
5	3_Moderate	211			PPT		MAP 3-B3-3	10					SAFFORD STREET	8/27/2012	11475	11476	MHQ140032	MHQ140033	D/S	3828	SPQ140013	8	VCP			230	224.9
1	3_Moderate	212				50		24				x	9362 Lampson Ave.	5/20/2004	9565	9566	MHL110005	MHL110006	DS	4242	SPL110005	12	VCP	4		310	360
2	3_Moderate	212	2019-01-08				R027	10				Y	LAMPSON AV	9/16/2005	12525	12526	MHQ110043	MHQ110044	D/S	6049	SPQ110022	8	VCP			368	366.1
3	3_Moderate	212			PPT		7	22					KERN	4/25/2007	7258	7259	MHO180014	MHO180015	D/S	134	SPO180030	8	VCP			300	303
5	3_Moderate	212		X	PPT		MAP 2-2-1	26					ADELLE STREET	7/2/2012	8426	9388	MHK120028	MHK130047	D/S	3404	SPK120030	8	Clay Tile			353	307.9
1	3_Moderate	213		X		36		13				x	12610 Monroe St.	4/7/2004	7702	7703	MHJ110004	MHJ110006	DS	735	SPJ110002	8	VCP	3		260	259
2	3_Moderate	213					M017	10					LAMPSON AV	9/9/2005	12160	12161	MHR100006	MHR100007	D/S	5635	SPR100006	10	VCP			180	180.2
3	3_Moderate	213			PPT		7	23					KERN	4/25/2007	7259	7271	MHO180015	MHN180017	D/S	386	SPO180034	8	VCP			300	301
5	3_Moderate	213		X	PPT		MAP 2-1-3	4					CROSBY AVE	7/11/2012	10758	12051	MHM130020	MHM130021	D/S	3076	SPM130053	6	VCP			319	319.9
1	3_Moderate	214		X		8		16					12851 Flower St.	2/17/2004	11247	11248	MHN120013	MHN120014	DS	2535	SPN120014	8	VCP			340	343
2	3_Moderate	214					M016	6					MERRILL ST	9/8/2005	11685	11646	MHR100011	MHR110009	D/S	6166	SPR100039	8	VCP			350	345.9
3	3_Moderate	214			PPT		7	6					JENNRICH	4/18/2007	6807	6808	MHO180017	MHO180018	D/S	71	SPO180005	8	VCP			285	322
5	3_Moderate	214			PPT		MAP 3-5	5					NELSON STREET	7/25/2012	12360	12331	MHO100015	MHO110027	D/S	4953	SPO100016	8	Clay Tile			370	367
1	3_Moderate	215				13		5					13122 Benton St.	3/1/2004	11162	11161	MHO130028	MHO130025	US	2580	SPO130037	8	VCP			180	164
2	3_Moderate	215					M018	8					SAFFORD ST	9/12/2005	12493	12494	MHQ120026	MHQ120027	D/S	4018	SPQ120017	6	VCP			320	322.1
3	3_Moderate	215			PPT		4	11					KERN	4/4/2007	6814	6817	MHO180027	MHO180030	D/S	77	SPO180011	8	VCP			266	268
5	3_Moderate	215		X	PPT		MAP 2-2-2	27					IMPERIAL AVENUE	7/16/2012	7081	7080	MHJ140028	MHJ140027	U/S	817	SPJ140026	8	Clay Tile			360	331.4
1	3_Moderate	216				47		11				x	12562 Jane Dr.	5/11/2004	9512	9513	MHM110020	MHM110021	DS	3434	SPM110037	8	VCP	3		216	213
2	3_Moderate	216					M007	10				Y	KATHY LN	8/12/2005	13148	13149	MHQ070029	MHQ070030	D/S	5897	SPQ070036	8	VCP			380	383.4
3	3_Moderate	216			PPT		5	2					JESSICA	4/10/2007	6818	6819	MHO180031	MHO180032	D/S	81	SPO180015	8	VCP			350	353
1	3_Moderate	217				2		9					11372 Fredrick Dr.	2/4/2004	11863	11866	MNE27004	MNE27007	DS	3800	SPP090009	8	VCP			285	284
2	3_Moderate	217					M019	2	M019	3			STANFORD AV	9/13/2005	11705	11706	MHQ120013	MHQ120015	D/S	6211	SPQ120043	8	VCP			240	246.8
3	3_Moderate	217			PPT		4	13					KERN	4/4/2007	6820	7245	MHO180033	MHO180034	D/S	173	SPO180036	8	VCP			316	318
5	3_Moderate	217		X	PPT		MAP 2-2-1	8					SYCAMORE AVENUE	7/6/2012	7102	7103	MHJ120018	MHJ130005	D/S	840	SPJ130020	8	Clay Tile			86	85.4
1	3_Moderate	218				22		2					9921 Russell Ave.	3/11/2004	10722	11078	MHN140012	CON140001	US	2644	SPN140032	8	VCP			185	183
2	3_Moderate	218					R040	11				Y	DAWN AV	10/3/2005	12612	12613	MHT090001	MHT090002	D/S	5242	SPT090001	8	VCP			225	211.3
3	3_Moderate	218			PPT		6	3					HAZARD	4/12/2007	7260	7261	MHO190001	MHO190002	D/S	314	SPO190222	10	VCP			341	338
5	3_Moderate	218			PPT		June Map 1	24					KNOTT STREET	6/27/2012	8136	8137	MHS150017	MHS150019	D/S	616	SPS150023	8	Clay Tile			264	62.7
1	3_Moderate	219				49		8					12091 Gilbert St.	5/17/2004	9559	9563	MHL090038	MHL090039	DS	3269	SPL090003	10	VCP			375	363
2	3_Moderate	219					M013	4	M013	5			MAYPOLE DR	9/1/2005	12178	12179	MHR090004	MHR100027	D/S	5919	SPR090003	8	VCP			339	352.4
3	3_Moderate	219			PPT		5	1					HAZARD	4/11/2007	6821	6822	MHO190004	MHO190005	D/S	83	SPO190001	8	VCP			330	333
5	3_Moderate	219		X	PPT		MAP 3-5	2					NELSON STREET	7/25/2012	12271	12272	MHO110007	MHO110010	D/S	5410	SPO110008	8	Clay Tile			125	124.2
1	3_Moderate	220		X		37		4					8312 Stanford Ave.	4/8/2004	7709	7712	MHJ120024	MHJ120025	DS	742	SPJ120016	8	VCP			264	266
2	3_Moderate	220					R034	2					OERTLY DR	9/26/2005	12714	12715	MHS100021	MHS100022	D/S	6494	SPS100012	8	VCP			100	215.9
3	3_Moderate	220			PPT		5	4					HAZARD	4/11/2007	6824	7246	MHO190007	MHO190008	D/S	174	SPO190025	8	VCP			320	322
5	3_Moderate	220			PPT		June Map 2 B1	45					GILBERT STREET ALLEY	6/11/2012	9727	9726	MHM050027	MHM050026	U/S	5053	SPM050012	8	VCP			285	274.8
1	3_Moderate	221				42		15					Acacia Ave./Fern St.	4/19/2004	7700	7099	MHJ120012	MHJ120015	DS	757	SPJ120028	8	VCP			330	330
2	3_Moderate	221					G010	1	G010	2	Y	EASEMENT	7/25/2005	8593	8596	MHJ080025	MHJ080028	D/S	2418	SPJ080029	8	VCP			310	90.5
3	3_Moderate	221			PPT		4	1				Y	SAIL ST.	4/2/2007	6830	6834	MHO190014	MHO190018	D/S	93	SPO190011	8	VCP			258	260
5	3_Moderate	221			PPT		June Map 1	2				Y	SPRINGDALE STREET	6/7/2012	7357	7358	MHF090011	MHF090012	D/S	1177	SPF090005	10	VCP			200	114.4
1	3_Moderate	222		X		43		25				x	12802 Magnolia Ave.	4/23/2004	9355	9356	MHL120034	MHL120036	DS	3161	SPL120033	8	VCP	3		116	303
2	3_Moderate	222					M015	6				Y	HOGGAN AV	9/6/2005	0	0	MHR100035	COR100001	U/S	5956	SPR100027	8	VCP			167	166.0
3	3_Moderate	222			PPT		4	4					SAIL ST	4/2/2007	6838	6839	MHO190022	MHO200001	D/S	99	SPO190019	8	VCP			107	105
5	3_Moderate	222		X	PPT		MAP 3-4	13					LAMPSON AVENUE	7/25/2012	11254	11137	MHN110002	MHN110034	D/S	2919	SPN110020	8	Clay Tile			310	272
1	3_Moderate	223				47		19				x	12434 Lambert Cir.	5/11/2004	9545	9547	MHM100038	MHM100040	DS	3277	SPM100041	8	VCP	3		310	317
2	3_Moderate	223					M019	1					STANFORD AV	9/13/2005	11704	11705	MHQ120012	MHQ120013	D/S	6210	SPQ120042	6	VCP			252	253.9
3	3_Moderate	223			PPT		4	3					MAST	4/3/2007	6842	7297	MHO200004	MHO200005	D/S	175	SPO200020	8	VCP			400	399
5	3_Moderate	223			PPT		MAP 2-1-5	11				Y	DALE STREET	7/24/2012	8063	8520	MHK080047	MHK090043	D/S	1915	SPK080040	8	VCP			315	312.4
2	3_Moderate	224					G005	6				Y	MACDUFF ST	7/18/2005	8064	8065	MHK070028	MHK070029	D/S	1916	SPK070031	8	VCP			274	278.3
3	3_Moderate	224			PPT		4	11					SCHOONER	4/3/2007	6845	6846	MHO200010	MHO200011	D/S	105	SPO200006	8	VCP			297	298
5	3_Moderate	224		X	PPT		MAP 3-4	15					NELSON STREET	7/25/2012	12274	12275	MHO110013	MHO110014	D/S	3833	SPO110011	8	Clay Tile			125	65.6
1	3_Moderate	225				4		1					11361 Midwick	2/6/2004	11856	11857	MNE14017	MNE14018	DS	3792	SPP100019	8	VCP			175	176
2	3_Moderate	225					G022	3					REVA DR	8/16/2005	12980	13121	MHQ080011	MHQ080009	U/S	6304	SPQ080002	8	VCP			220	221.0
3	3_Moderate	225			PPT		6	2				Y	WARD	4/12/2007	7301	7302	MHO200023	MHO210018	D/S	391	SPO200019	8	VCP			212	214
5	3_Moderate	225		X	PPT		MAP 2-2-2	7					CANNERY STREET	7/20/2012	11583	11582	MHL130042	MHL130041	U/S	2955	SPL130037	8	Clay Tile			150	140.7
1	3_Moderate	226		X		39		12					13311 Newland	4/15/2004	7662	7663	MHK140011	MHK140012	DS	700	SPK140026	8	VCP			330	332
2	3_Moderate	226					M018	2					SAFFORD ST	9/12/2005	12489	12488	MHQ120022	MHQ120021	U/S	5593	SPQ120012	6	VCP			190	179.2
3	3_Moderate	226			PPT		12	33					EUCLID	5/23/2007	11802	11803	MHP140032	MHP150033	D/S	4900	SPP140026	8	VCP			300	300
1	3_Moderate	227				1		6					10541 Artcraft St.	2/3/2004	11154	11153	MNW24029	MNW24028	US	2572	SPO090035	8	VCP			360	361
2	3_Moderate	227					R001	5					LORALEEN ST	7/25/2005	10140	10139	MHL080018	MHL080017	U/S	5191	SPL080016	8	VCP			260	277.3
3	3_Moderate	227			PPT		12	28					CENTURY	5/22/2007	11817	11800	MHP140042	MHP140030	D/S	5289	SPP140036	8	VCP			140	181
5	3_Moderate	227			PPT		MAP 2-1-1	2				Y	MAGNOLIA STREET	7/6/2012	9749	9756	MHL050045	MHL050042	D/S	5174	SPL050028	8	VCP			274	256
1	3_Moderate	228				31		17					8912 Dakota Ave.	3/31/2004	11566	11571	MHL140004	MHL140007	DS	3102	SPL140028	8	VCP			265	264
2	3_Moderate	228					G040	4				Y	9TH ST	9/14/2005	12563	12539	MHP090029	MHP090001	D/S	6585	SPP090002	10	VCP			380	395.6
3	3_Moderate	228			PPT		12	29					CENTURY	5/22/2007	11817	11816	MHP140042	MHP140041	U/S	5288	SPP140035	8	VCP			50	51
5	3_Moderate	228			PPT		June Map 2 B1	86				Y	MAC STREET	6/15/2012	7988	7996	MHK060001	MHK070020	D/S	1845	SPK060003	8	VCP			385	385.9
1	3_Moderate	229		X		38		15					13432 Balos Dr.	4/13/2004	7078	7079	MHJ140023	MHJ150005	DS	816	SPJ140025	8	VCP			300	298
2	3_Moderate	229					M018	6					SAFFORD ST	9/12/2005	12491	12496	MHQ120024	MHQ120029	D/S	5596	SPQ120015	6	VCP			150	146.3
3	3_Moderate	229			PPT		14	37					HAVENWOOD	6/5/2007	11938	11936	MHP150026	MHP150024	U/S	5457	SPP150024	12	VCP			320	327
5	3_Moderate	229		X	PPT		MAP 2-1-5	18				Y	TRASK AVE	7/26/2012	10478	10479	MHN150010	MHN150012	D/S	2192	SPN150007	8	VCP			325	325.7
1	3_Moderate	230				1		1					12002 Shady Acre St.	2/3/2004	11148	11149	MNW24023	MNW24024	DS	2567	SPO090030	8	VCP			185	201
2	3_Moderate	230					M010	6					MORGAN LN	8/22/2005	13138	13139	MHQ080040	MHQ080041	DS	5850	SPQ080050	8	VCP			235	239.2
3	3_Moderate	230			PPT		15	25					WOODBURY EASEMENT	6/11/2007	11969	11968	MHP150029	MHP150028	U/S	5282	SPP150053	6	VCP			250	250
5	3_Moderate	230		X	PPT		MAP 2-1-1	14					STANFORD AVE	7/9/2012	8462	8463	MHL120006	MHL120007	D/S	3122	SPL120007	8	VCP			323	325.2
1	3_Moderate	231				2		13					12341 Schrandt Dr.	2/5/2004	11847	11846	MNE14005	MNE14004	US	5239	SPP100010	8	VCP			125	122
3	3_Moderate	231			PPT		15	27					WOODBURY	6/11/2007	11970	11940	MHP150030	MHP150031	DS	3854	SPP150056	8	VCP			165	158
5	3_Moderate	231		X	PPT		MAP 2-1-4	14					FAYE AVE	7/17/2012	11272	11273	MHN090017	MHN090018	D/S	2556	SPN090015	8	VCP			145	145.7
1	3_Moderate	232		X		35		10					13040 Newland	4/12/2004	7654	7653	MHK130023	MHK130022	US	690	SPK130026	8	VCP			320	264
2	3_Moderate	232					R065	1				Y	EASEMENT	12/8/2005	12833	12832	MHQ100044	MHQ090053	U/S	5476	SPQ090056	6	VCP			240	207.1
3	3_Moderate	232			PPT		11	15					FERNWOOD	5/15/2007	10948	10949	MHP150045	MHP150046	D/S	4008	SPP150042	8	VCP			255	258
5	3_Moderate	232		X	PPT		MAP 2 July-4	6					LORNA STREET	6/27/2012	8409	8410	MHK110018	MHK110019	D/S	3387	SPK110027	8	Clay Tile			316	314.6
1	3_Moderate	233		X		35		20					8242 Central Ave.	4/12/2004	7724	7725	MHJ140001	MHJ140006	DS	788	SPJ140006	8	VCP			250	242

Phase	Structural Defect Coding: Crack C	Crack C	Crack S	Crack H	Crack L	Fracture F	Fracture C	Fracture M	Fracture S	Fracture H	Broken B	Broken SV	Hole H	Hole VV	Hole SV	Joint O S	Joint O M	Joint O L	Joint S M	Joint S L	Joint M L	Joint L A	Deformed D	Deformed V	Collapsed Pipe X	Collapsed Pipe H	Collapsed Pipe P	Surface Damage S	Lining Failure LF	Point Repair RP	Sags S	Sags WL	PACP Quick Struct Rating	Total Structural Defects	Total Structural Defect Score	Structural Defect Index
1		1						1								1																			6	3.00
2		1	2					1												1														5	12	
3			1			1																												2	6	3.00
5	4		3					2																									4233	9	25	2.78
1	1							1																										6	3.00	
2	50															1																		3	11	
3			1			1																												2	6	3.00
5	2	2	3					2																									4233	9	23	2.56
1	1							1																										6	2.00	
2	2		1													1																		4	10	
3			1			1																												2	5	2.50
5	1	2						2																							35		4232	40	85	2.13
1																																		6	2.00	
2	1	1						1								1																		4	9	
3			1					1																										2	5	2.50
5	3	1			1			2																									4232	7	20	2.86
1																																		6	1.50	
2	1	1														1																		4	9	
3								1																										1	2	2.00
5	2	1	2					2																									4232	7	19	2.71
1	1	2						1																										6	2.00	
2		2														1																		3	9	
3						1	1																											2	6	3.00
5	1	1						1																									4232	7	20	2.86
1	1																																	6	2.00	
2																2																		3	8	
3								1																										1	4	4.00
5	6	2	2					2																									4232	12	28	2.33
1	1	1				1																												6	2.00	
2						1										2																		3	8	
3		1				2																												1	4	4.00
5	3	2						2																									4232	7	20	2.86
1	1	1				1																												6	2.00	
2																2																		3	8	
3		1				2																												1	7	2.33
5	3	2						2																									4232	7	20	2.86
1	1	1				1																												6	2.00	
2		1														2																		3	8	
3								1																										1	4	4.00
5	2	2	1			1																											4232	6	19	3.17
1	2					1																												6	3.00	
2		1														2																		3	7	
3						1																												1	2	2.00
5	1	1				1		1																									4232	12	28	2.33
1	1	1				1																												6	2.00	
2						1										2																		3	8	
3		1				2																												1	7	2.33
5	3	2						2																									4232	7	20	2.86
1	1	1				1																												6	2.00	
2		2														2																		3	7	
3						1																												1	2	2.00
5	8	13	26		1	5																											413D	53	124	2.34
1			2																															6	1.00	
2		3	1															1																5	7	
3																1																		1	3	3.00
5	2	25	19			3	1																										413B	50	96	1.92
1		6																																6	3.00	
2			2															1																3	7	
3																1																		2	5	2.50
5		5	19					1																									413B	25	66	2.64
1			2																															6	3.00	
2						1																												1	2	2.00
3	7	2	18					1																									413B	28	74	2.64
1			2																															6	3.00	
2																2																		2	6	
3						1																												2	5	2.50
5			18					1																									413B	19	58	3.05
1			2																															6	3.00	

Phase	Operational and Maintenance: Deposits AGS	Deposits AE B	Deposits AE %	Deposits AE L	Deposits AE %	Deposits Other Z	Deposits Other %	Roots (R) Fine (F) B	Roots (R) Fine (F) L	Roots (R) Fine (F) J	Roots (R) Tap (T) C	Roots (R) Tap (T) B	Roots (R) Medium (M) L	Roots (R) Medium (M) J	Roots (R) Medium (M) C	Roots (R) Ball (B) B	Roots (R) Ball (B) L	Roots (R) Ball (B) J	Roots (R) Ball (B) C	Infiltration I G	Infiltration I D	Infiltration I R	Infiltration I W	Obstacles OB Other C	Obstacles OB Other Z	Obstacles OB Other %	Vermin V C	Vermin V R	PACP Quick Maint Rating	Total O&M Defects	Total O&M Defect Score	O&M Defect Index
1								2			2					3														19	0.83	
2	3	75	5.00			1	10.00		1	3																				84	165	
3																														0	0	0.00
5						1																							2100	1	2	2.00
1								1	1				4			1														14	2.00	
2		9	5.00																											9	18	
3																														0	0	0.00
5																													0000	0	0	0.00
1								3			3																			0	0.00
2	55									2																				57	112	
3																														0	0	0.00
5																													0000	0	0	0.00
1																														0	0.00
2										1																				1	1	
3																														0	0	0.00
5	68																												2L00	68	136	2.00
1																														23	1.29
2																														0	0	
3																														0	0	0.00
5										4																			1500	4	6	1.50
1								2			5												1	40						9	0.84	
2	111	5.00		