



Cleveland Heights Partial Consent Decree 2018 Annual Report

March 18, 2019



1.0 Introduction

In 2017, the City of Cleveland Heights entered into a Partial Consent Decree (CD) with the U.S. Environmental Protection Agency (USEPA) and the U.S. Department of Justice (DOJ) to define and develop a plan to control sewer system overflows. The CD requires Cleveland Heights to submit an Annual Report to USEPA and Ohio EPA by March 31 of each year, after the effective year of the report. The report must contain all information necessary to determine Cleveland Heights' compliance with its Consent Decree requirements.

1.1 Annual Report Requirements

The Consent Decree provides requirements to be included in the Annual Report. **Table 1** summarizes these requirements and their reference sections.

Table 1. Cleveland Heights Annual Report Requirements

Consent Decree Section Reference	Reporting Requirement
VII.a	A description of project and activities conducted during the reporting period to comply with the requirements of this Decree, a projection of work to be performed pursuant to this consent decree during the next reporting period, and notice of any anticipated failures to meet future requirements of the Consent Decree or approved plans.
VII.b	A trends analysis of the number, volume, duration, and causes of the City's SSOs for a rolling 24-month period updated to reflect the SSOs that occurred during the reporting period, including identification of any newly identified and/or previously unknown SSOs and Cross Connections discovered during the reporting period.
VII.c	A compilation of the information about each SSO during the applicable reporting period, as required by the Monthly SSO Reports described in Paragraph 44.c. along with identification of any cause or condition that contributed to each SSO and all remedial actions taken to mitigate the effects of each SSO or prevent SSO recurrence.
VII.d	Information that Cleveland Heights obtained or received (e.g. customer complaints) regarding discharges from private laterals, including any information received specifying the location of the discharge, and a description of the circumstances of the discharge.
VII.e	Description of any non-compliance with the requirements of the Consent Decree.
Appendix B Paragraph 7	Include a summary list of all documented training activities completed by how many of each category of employee during the applicable reporting period.
Appendix B Paragraph 16	As part of the Annual Report, Cleveland Heights shall provide: a. the total miles of unique sanitary lines cleaned during the reporting period b. total miles of sanitary sewer lines cleaned during the reporting period c. an identification of whether particular sewer segments were added or removed from High Frequency Cleaning (HFC) list. d. legible map depicting the locations cleaned as part of the routine cleaning program and HFC program.
Appendix B Paragraph 20	As part of the Annual Report, Cleveland Heights shall provide: a. the location and total miles of the portions of the sanitary sewer system inspected under the sewer system internal inspection program. b. the locations of the manholes inspected under the sewer system manhole inspection program.
Appendix B Paragraph 43, g.	Cleveland Heights shall report the number of enforcement actions initiated and concluded during the prior calendar year.

2.0 Overview of Projects and Activities Conducted and Planned

2.1 Activities Conducted in 2018

The Consent Decree was lodged in June 2017. All required 2018 activities were completed by Cleveland Heights in a timely manner. **Table 2** outlines the specific Consent Decree requirements, sections, and the date completed or EPA approval date associated with each requirement.

Table 2. 2018 Consent Decree Requirements Completed by Cleveland Heights

Requirement	Consent Decree Citation	Date Submitted
Submit System Characterization Monitoring Plan that Satisfies Appendix A	CD Main Text Section V. D Paragraph 25	March 2018
Submit System Modeling Plan that satisfies Section E and IV in Appendix A	CD Main Text Section V. E Paragraph 26	March 2018
2017 Annual Report	CD Main Text Section VII Paragraph 43	March 2018
Real Time Monitoring (10 SSO) Locations	Appendix A Section III Paragraph 15	July – October 2018
Fully Implement and develop IMS system	Appendix B Section I Paragraph 28	November 2018
Clean minimum of 25 miles of sanitary sewer	Appendix B Section E Paragraph 13.c	December 31, 2018

Other activities completed in 2018 include the following:

- Cleveland Heights adopted the Cuyahoga County CCTV Sewer Inspection Standard Operating Procedure with a supplemental guidelines memorandum as its standard for in house CCTV operations.
- Cleveland Heights developed a Manhole Inspection Guidance Document for in house manhole inspections.
- Cleveland Heights erected signage to inform the public that a rain-related sewer overflow may occur at locations in which a waterway could be accessed by the public. An example of the signage posted can be seen in **Figure 1**.

Figure 1. Example Signage Warning of Potential Wet Weather Overflow



2.2 Activities Planned in 2019

Cleveland Heights will continue advancing Consent Decree activities in 2019. **Table 3** summarizes Consent Decree requirements and deliverables to be completed in 2019.

Table 3. 2019 Consent Decree Requirements to be Completed by Cleveland Heights

Requirement	Consent Decree Citation	Schedule
2018 Annual Report	CD Main Text Section VII Paragraph 43	March 2019
Develop System Model of Sanitary Sewer that satisfies Section E and IV of Appendix A	CD Main Text Section V. E Paragraph 27	April 2019
Complete Phase 1 SSES, satisfying Section II of Appendix A	CD Main Text Section V. B Paragraph 18	November 2019
Annual real time SSO Monitoring	Appendix A Section III Paragraph 15	End of 2019

Other activities planned for 2019 include the following:

- Begin work on Phase 1 SSES Report and Capacity Assessment Report.
- Review the final HHI-LSSES Cleveland Heights Community Report that outlines alternatives and recommendations for the Cleveland Heights sewer system and discuss the findings with NEORSD.
- Identify potential project(s) for submittal under NEORSD Member Community Infrastructure Program (MCIP).
- Continue CMOM implementation activities.
- In 2018, 5 common trench manholes were found to have 6-inch cleanout pipes configured vertically from the sanitary sewer below to the storm sewer manhole above, allowing for potential interaction between the systems. Cleveland Heights capped the cleanout pipes that were not already capped with tethered discs. The discs will be monitored to determine if flow interaction is occurring. Tracking will be performed similar to the tethered block SSO monitoring at other locations to ensure that it is safe to proceed with permanent capping. Information on these locations and photos of the manhole configurations are provided in **Appendix A** of this report.

3.0 Known Sanitary Sewer Overflows

Figure 2 shows the known SSO structure locations in Cleveland Heights as of the end of 2018.

3.1 2018 SSO Monitoring

As required by the Consent Decree, Cleveland Heights provides monitoring of all known SSOs after precipitation events greater than 0.25 inches. This ongoing monitoring uses tethered wooden blocks to detect overflows. The City provides monthly monitoring reports of the tethered block monitoring results to USEPA. From July through October of 2018, Cleveland Heights performed required real time flow monitoring at 10 of the most active SSO locations using electronic recording flow meters. A summary of SSO activations recorded during 2018 can be found in **Appendix B** of this report. Tethered block monitoring was temporarily suspended at known SSOs when electronic flow monitoring was conducted.

3.2 SSO Trends Analysis

Table 4 summarizes an activation trends analysis for the previous 24 months as required by the Consent Decree. Details of the information and associated 2018 rainfalls are provided in **Appendix A**. An asterisk identifies real time monitoring locations. The current analysis focuses on activations. SSO volume and duration information as well as the capacity assessment and analysis of SSO causes will also be provided based on the ongoing model extension and 2018 flow/rainfall monitoring and calibration. Model update calibration began in 2018 and is scheduled to be completed by April 1, 2019. Notes for **Table 4** follow the table.

Figure 2. Known SSO Structures Status – 2018

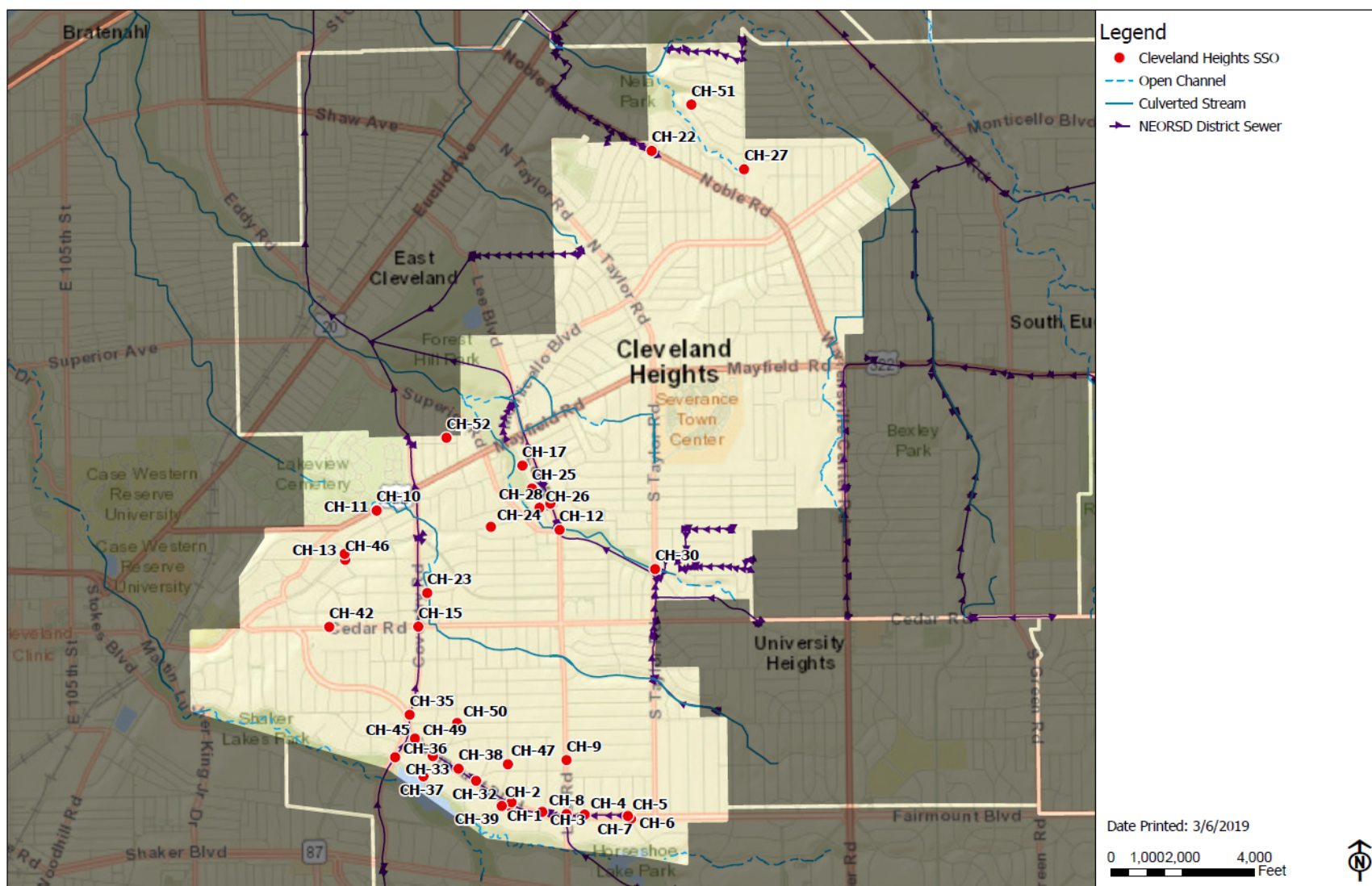


Table 4. SSO Activations for 2017 and 2018

SSO ID	Location (Real time monitoring locations*)	Receiving Stream	2017 Observed Activations	2018 Observed Activations
CH-1	Fairmount at North Woodland (3041)	Doan Brook	0	1
CH-2	Fairmount at North Woodland (3026)	Doan Brook	2	1
CH-3	Fairmount at Wellington	Doan Brook	1	2
CH-4	Fairmount at Dartmoor	Doan Brook	3	0
CH-5	Fairmount at South Fairmount	Doan Brook	0	0
CH-6	Fairmount at South Fairmount	Doan Brook	0	0
CH-7	Fairmount at South Fairmount	Doan Brook	0	0
CH-8	Fairmount at Lee (North Side)	Doan Brook	0	0
CH-9	Bradford and Lee	Doan Brook	9*	14*
CH-10	Hampshire Lane at Mayfield (18")	Dugway Brook	0	1
CH-11	Hampshire Lane at Mayfield (36")	Dugway Brook	1	0
CH-12	Lee at Superior	Dugway Brook	8*	8*
CH-13	Hampshire Lane at Euclid Heights Blvd	Doan Brook	3	0
CH-15	Coventry at Cedar	Doan Brook	2*	2
CH-17	1685 Cumberland	Dugway Brook	2	0
CH-22	2225 Noble Road	9 Mile Creek	1	3
CH-23	Fairmount at North Woodland (3026)	Dugway Brook	6*	3
CH-24	3003 Euclid Heights Blvd	Dugway Brook	1	2
CH-25	Cumberland/Somerton	Dugway Brook	2	4
CH-26	Euclid Heights Blvd/Cumberland	Dugway Brook	1	6
CH-27	Quilliams, N. of Randolph	9 Mile Creek	5*	5*
CH-28	Euclid Heights Blvd and Lee	Dugway Brook	3	3
CH-30	Taylor N of Superior	Dugway Brook	11*	11*
CH-32	Fairmount at Arlington	Doan Brook	0	4
CH-33	Fairmount at Fairfax	Doan Brook	11*	12*
CH-35	2393 Coventry, w. of Fairmount	Doan Brook	3	8*

SSO ID	Location (Real time monitoring locations*)	Receiving Stream	2017 Observed Activations	2018 Observed Activations
CH-36	North Park and Coventry	Doan Brook	2	4
CH-37	Fairfax at North Park	Doan Brook	1	6
CH-38	Fairmount at Marlboro	Doan Brook	2	2
CH-39	3012 North Woodland	Doan Brook	1	10*
CH-42	12537 Cedar Road	Doan Brook	2	1
CH-45	2764 Fairmount, in Island	Doan Brook	1*	1
CH-46	Edgehill at Euclid Heights Blvd	Doan Brook	0	7*
CH-47	2528 Stratford, N. of Monmouth	Doan Brook	1	1
CH-49	2765 Fairmount, Just E. of Church	Doan Brook	0	2
CH-50	Scarborough at Lamberton	Doan Brook	4	5*
CH-51	Langton at Atherstone	Nine Mile	2*	12*
CH-52	Eddington at Avondale	Dugway Brook	0	1

Notes for Table 4:

- Activation information is based on real time flow monitoring, installed October-December 2017 and July-October 2018, and tethered block checks for storms greater than 0.25 inches total volume.
- Events monitored, 29 in 2017 and 28 in 2018. Number of events monitored for each specific SSO can be found in **Appendix A**.
- Real time monitoring was suspended at SSO CH-51 on November 3, 2017 due to modem communication problems at the location. This flow meter was moved to the SSO CH-23 location on the same day.

3.3 Recently Identified SSOs and SSO Status Changes

No new SSOs were identified or eliminated in 2018.

4.0 Customer Complaints

Cleveland Heights tracks phones calls from residents and follow-up house calls which are logged in a database. In 2018, Cleveland Heights Utilities Department received calls from approximately 450 addresses reporting various water-related issues on private property. Most calls were related to backups in basements and in most cases the backups were related to

unmaintained sanitary and/or storm sewer laterals on the property as opposed to mainline sewer issues. **Appendix C** of this report shows the listing of addresses of customer calls and notes from the responding crew. Sewer main issues found as a result of customer calls were resolved in an efficient manner. The upcoming Capacity Assessment and Overflow Control Master Plan activities will address backups caused by system capacity deficiencies and/or excessive inflow/infiltration (I/I).

5.0 Non-Compliance

The City of Cleveland Heights has met all Consent Decree requirements for the 2018 reporting period.

6.0 Training Activities

In 2018, several training sessions were held in accordance with the CMOM. **Table 5** provides a summary of training courses held, dates, and employees that were trained. Cleveland Heights is using Lucity to track training participation among Sewer Department employees.

Table 5. Cleveland Heights 2018 Training Activities

Training Topic	Dates	Attendees
Work Zone Traffic Control and Safety	January 22	Owens, Etheridge, Ferrone, Manco, Cardarella, Corbo, Palmisano, Jackson, Claggett, Robertson, Del Zoppo, Mandato
PACP/MACP/LACP	February 6-8	Del Zoppo, Etheridge
Envirosight Pole Camera Operation	March 13	Owens, Etheridge, Ferrone, Manco, Cardarella, Corbo, Palmisano, Jackson, Claggett, Robertson, Del Zoppo, Mandato
IMS Operational Training	May 22	Ferrone, Jackson, Claggett, Beveridge, Hart
Effective Supervisory Practices	June 6	Ferrone
CMOM Program – General Training	June 7	Ferrone, Etheridge, Owens, Del Zoppo, Claggett, Manco, Palmesano, Jackson
Overflow Response Training	June 7	Ferrone, Etheridge, Owens, Del Zoppo, Claggett, Manco, Palmesano, Jackson
IMS (Lucity) Implementation	June 27	Bernard, Clinkscale, Lambdin, Ferrone
Manhole Inspection Training	June 28, July 16 – 18	Jackson, Robertson, Del Zoppo
Cues CCTV Operational Training	July 9 – 13	Jackson, Owens, Claggett, Robertson, Cardarella
GapVax Operational Training	July 9 – 11	Owens, Etheridge, Jackson, Palmisano, Claggett
GapVax Operational Training	September 19	Blatnica, Jackson, Palmisano
Diversity Training	October 23	Owens, Etheridge, Ferrone, Manco, Cardarella, Corbo, Palmisano, Jackson, Robertson, Del Zoppo, Mandato, McCoy

7.0 Cleaning and Inspection Statistics

In 2018, Cuyahoga County Department of Public Works (DPW), C&K Industrial Services and Cleveland Heights crews performed field activities in Cleveland Heights as summarized in **Table 6**. **Figure 3** provides a map of the Phase 1 SSES inspection progress, **Figure 4** shows unique cleaning, high frequency and other maintenance cleaning locations, and **Figure 5** shows the MACP inspection locations performed in 2018.

Table 6. Field Work Activities and Quantities in Cleveland Heights in 2018

Activity	Quantity Completed
CCTV inspection, miles	23.1
Unique sanitary sewer cleaned, miles	23.1
HFC or other maintenance cleaning, miles	4.8
Total sewer cleaning length, miles	27.9
Dyed water testing, miles	0.3
Smoke testing, miles	0
Catch basin connectivity testing, #	13
MACP manhole inspections, #	1,199

The High Frequency Cleaning (HFC) list was updated by Cleveland Heights during the CMOM development in 2017. One new HFC location on Noble Road at Rushleigh Road was added based on 2018 field investigation. No segments were removed from the HFC list.

8.0 CMOM Implementation Plan

The Cleveland Heights CMOM program went into effect on February 1, 2018 and includes an implementation plan with timeframes to complete important milestones. **Table 7** provides an update on the 1-year milestones and completion status. One milestone not yet achieved, adopting the Uniform Standards for Construction of Sewerage Improvements into codified ordinance, is currently under review and is expected to be adopted in 2019.

Table 7. CMOM Implementation Plan Status Update 2018

Program Milestone	Description	Time Frame	Completed (yes/no)
Populate GIS with SSO locations and additional SSO activation	To improve tracking of SSO structures and SSO events, new GIS mapping will be updated with this information.	1 year	yes
Gravity Sewer Maintenance	Develop an SOP for sewer line and manhole cleaning and routine maintenance.	1 year	yes
Gravity Sewer Maintenance	Cleveland Heights intends to acquire a CCTV truck and get operators trained to allow for in-house CCTV capabilities.	1-2 years	yes
IMS Software	Lucity software has been installed. Complete Information Management System Development Plan.	by December 1, 2018	yes
Sewer Problem Tracking in New IMS Software	The new IMS software will have improved tracking for resident sewer calls. Incorporate current tracking systems into the new software.	1-2 years	yes
Webpage updates	Include monthly reports and SSO reports to the website once IOCMP and SSES activities have commenced and update public education materials for increased public awareness.	1-2 years	yes
Adopt Uniform Standards for Construction of Sewerage Improvements	Cleveland Heights will adopt the latest version of the Uniform Standards for Construction of Sewerage Improvements into its codified ordinance to take advantage of language clarifying prohibited discharges into the sewer system.	1 year	ongoing

9.0 Enforcement Actions

No enforcement actions were required during the 2018 reporting period.

Figure 3. Televising Performed in Cleveland Heights in 2018



Figure 4. Cleaning Performed in Cleveland Heights in 2018

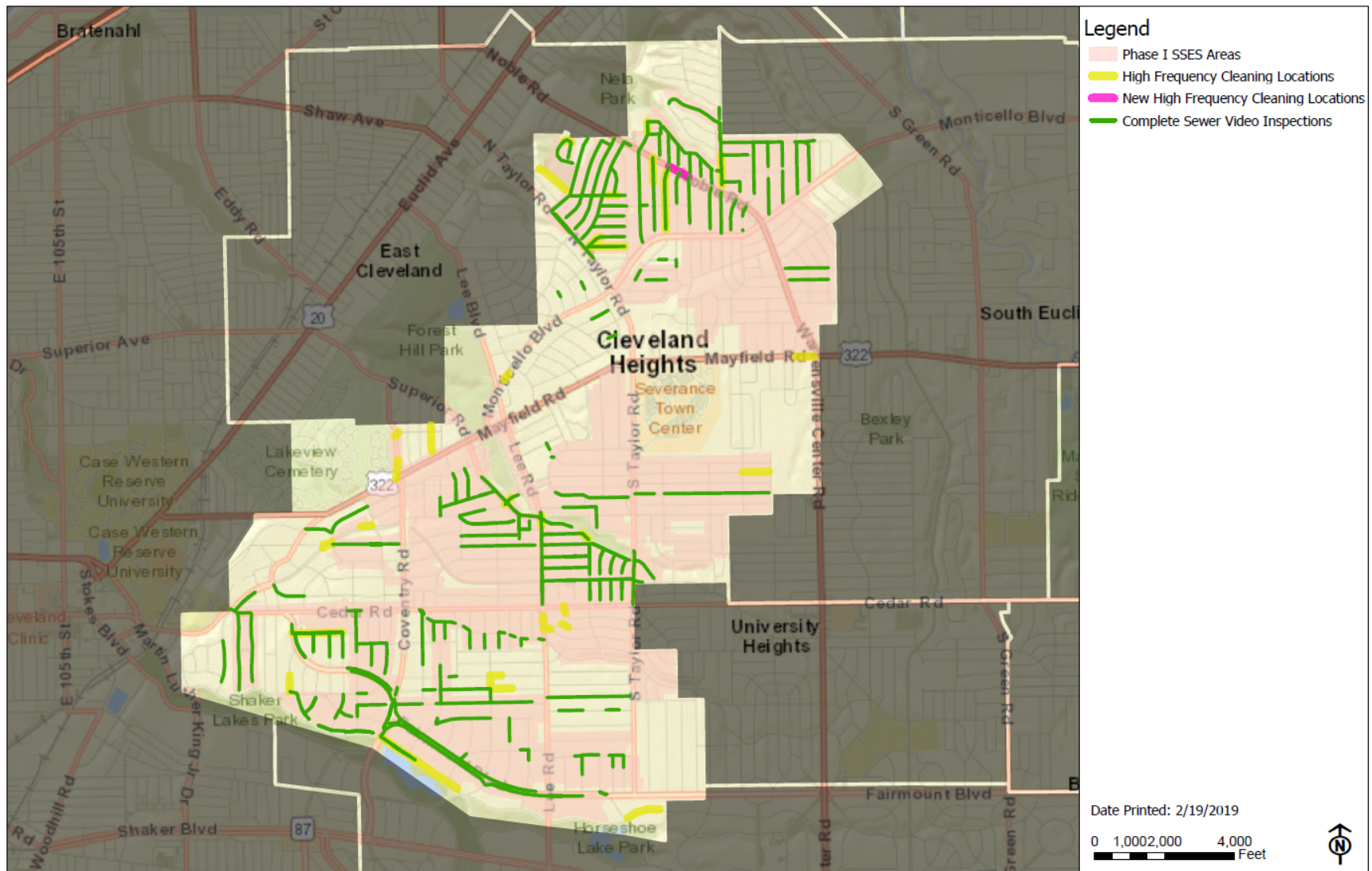
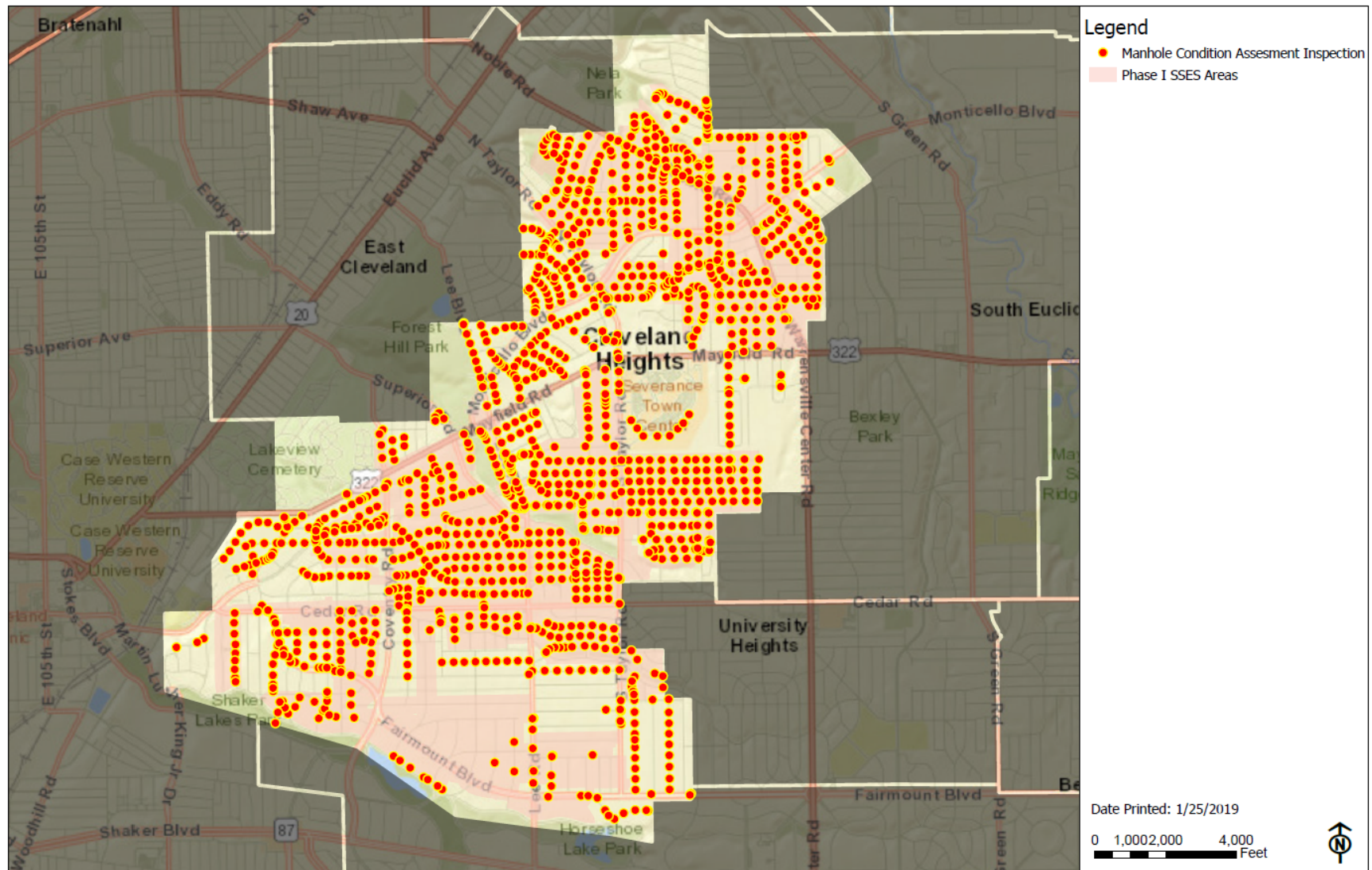
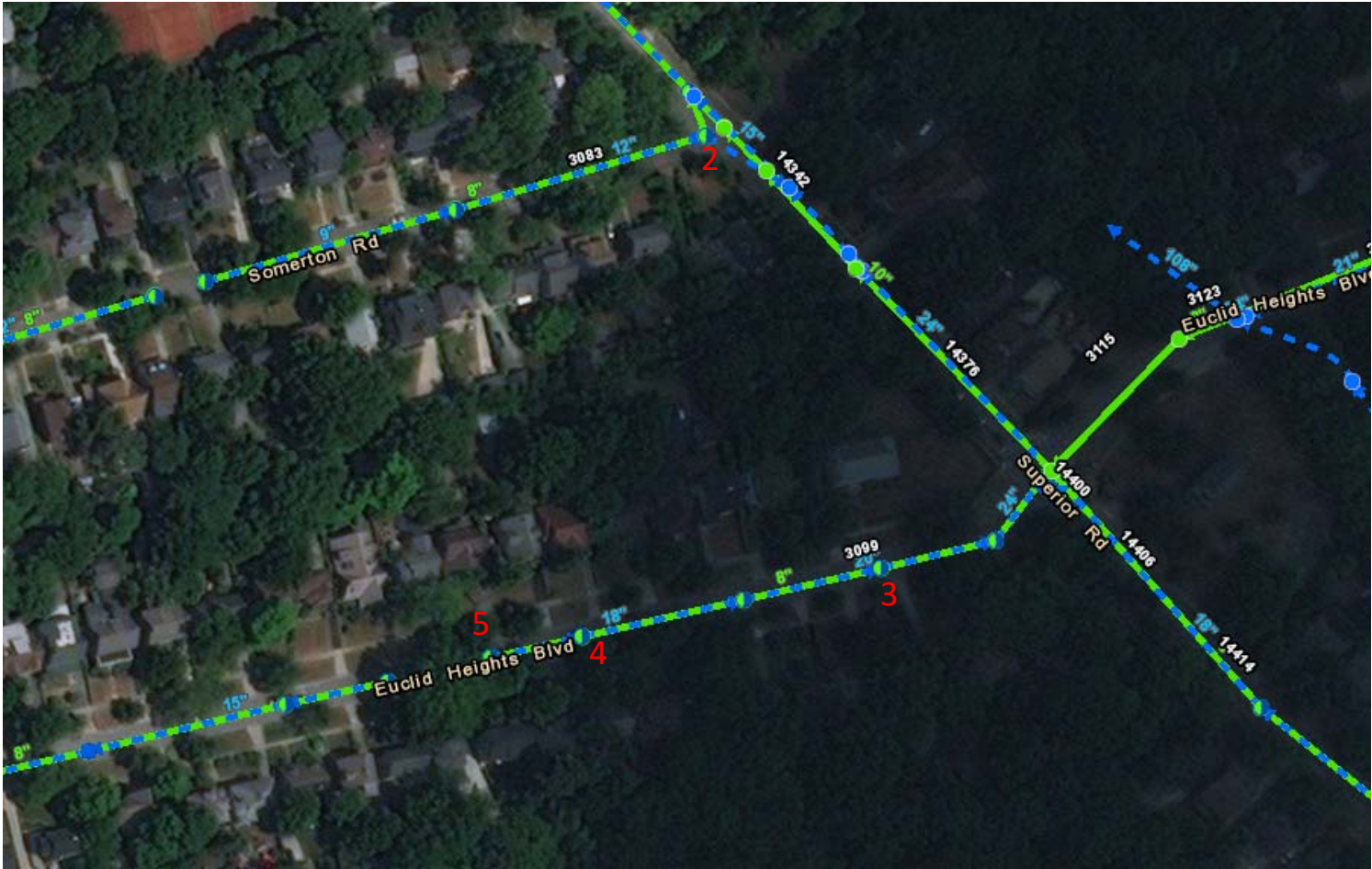


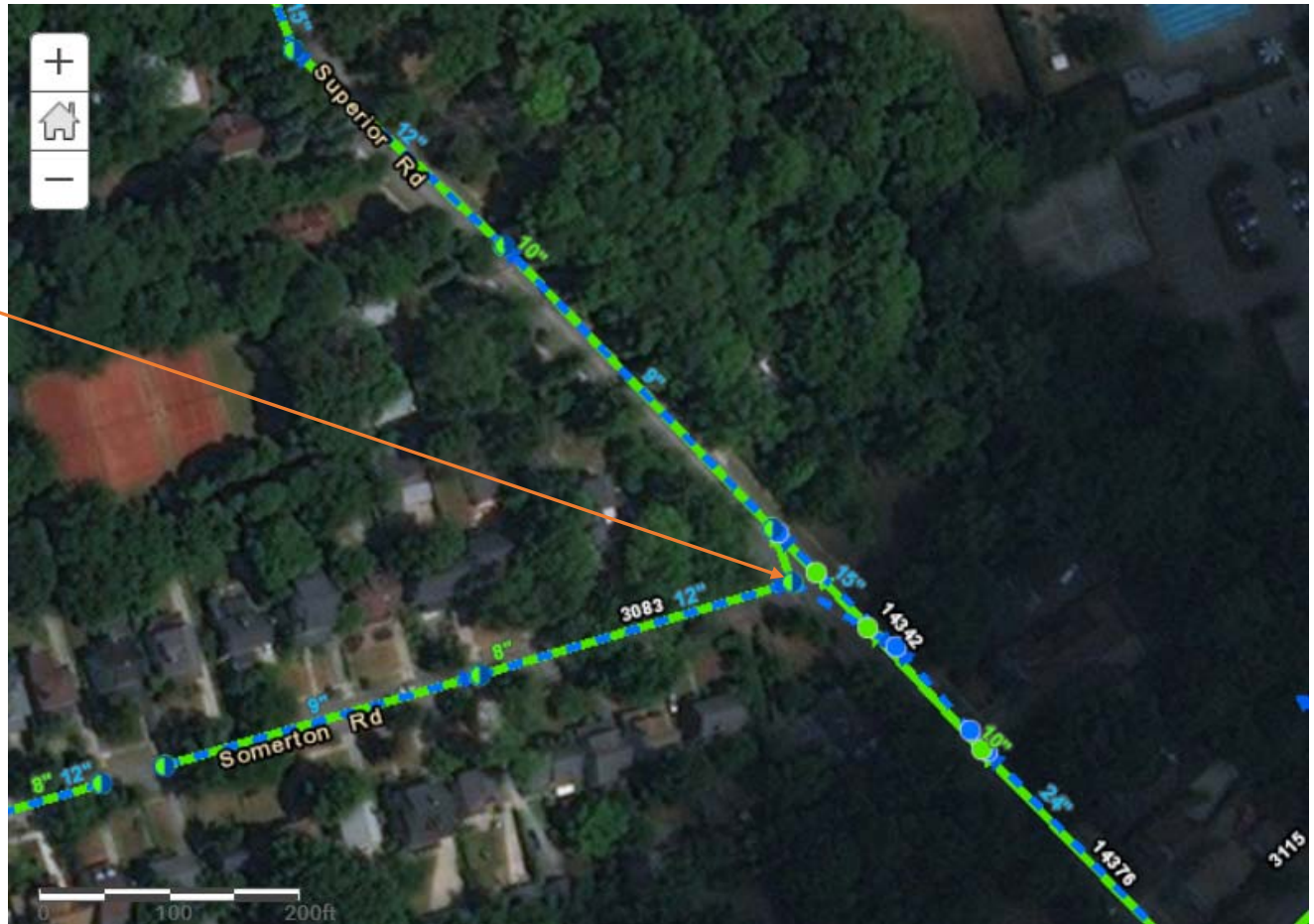
Figure 5. MACP Inspections Performed in Cleveland Heights in 2018

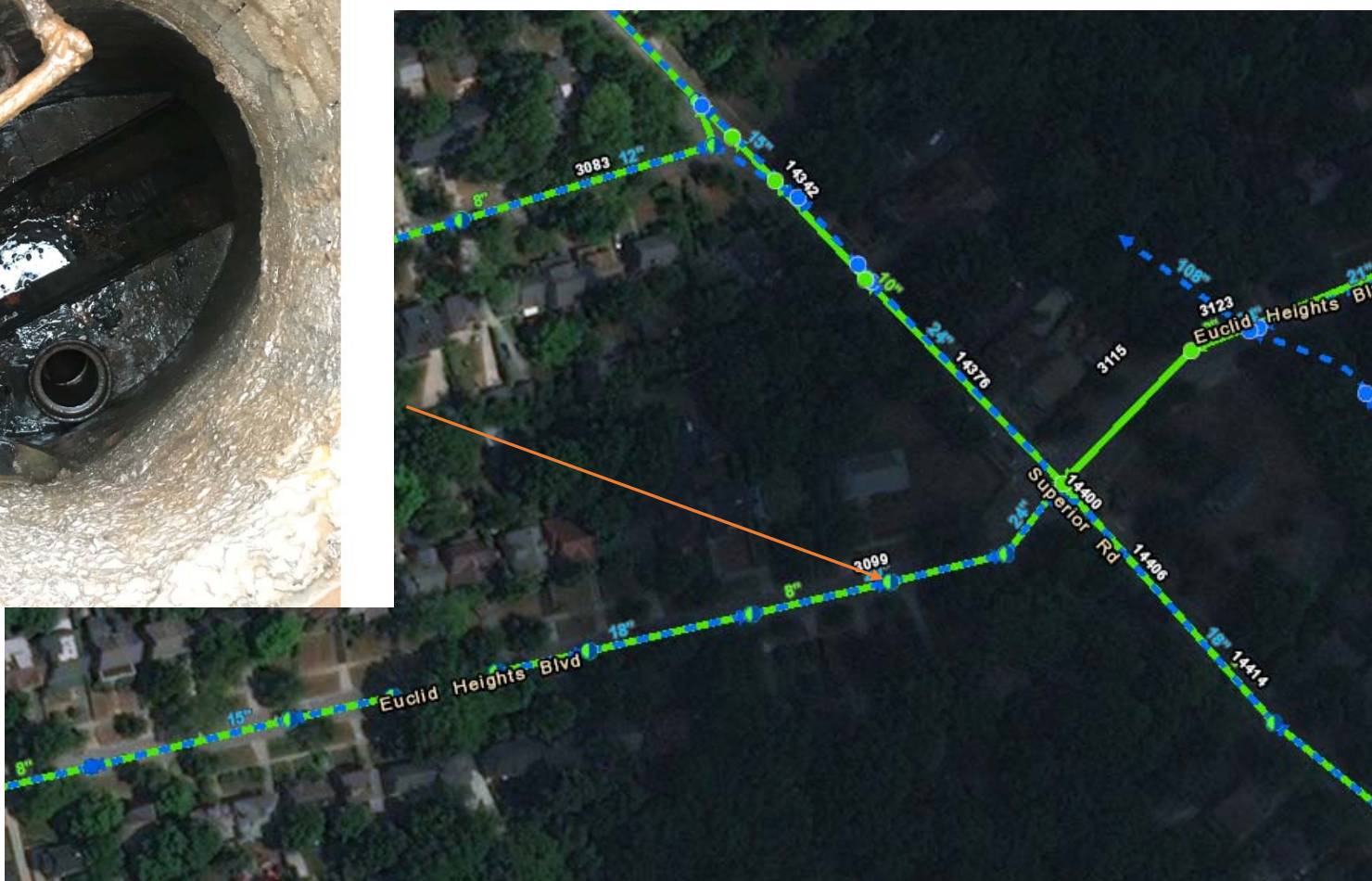


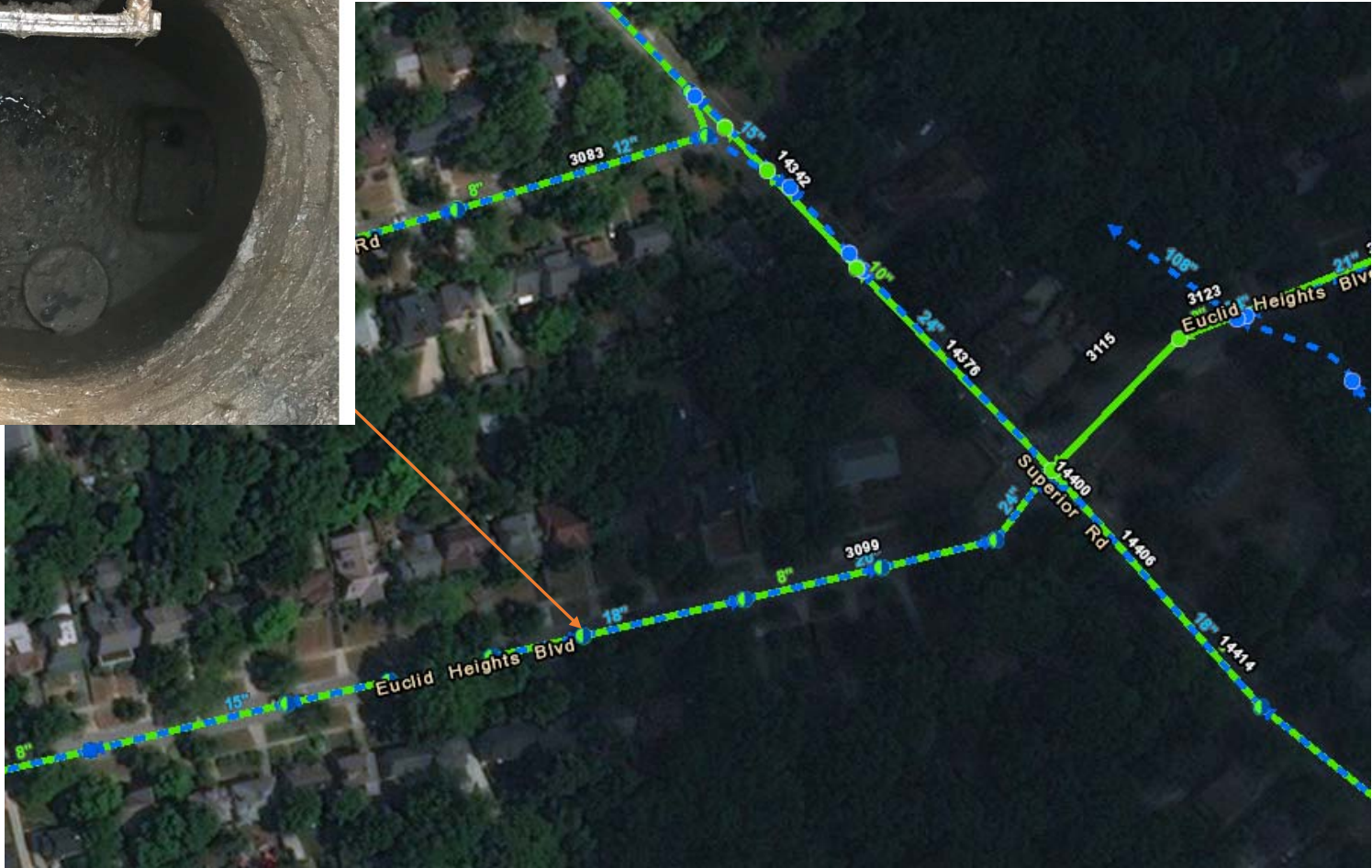
Appendix A – Sanitary/Storm Cleanout Connections

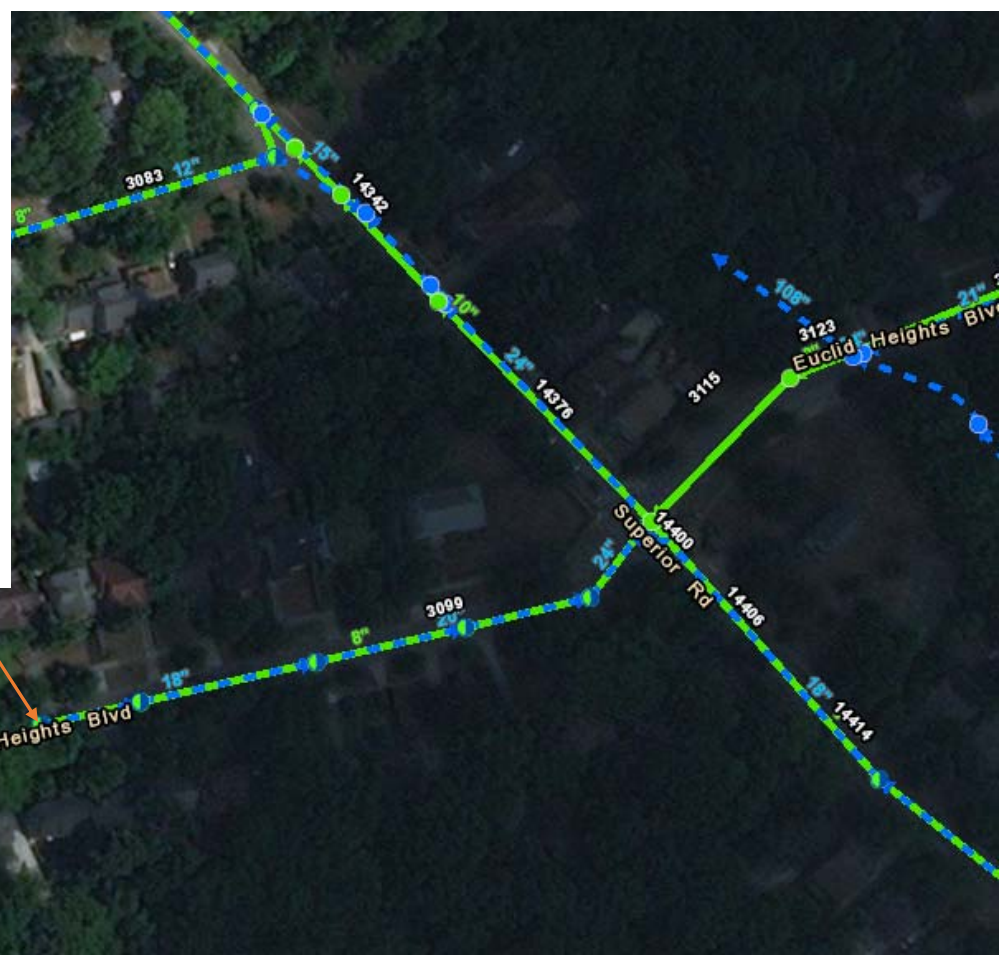
Appendix A











Appendix B – 2018 SSO Activation Summary

					Event 1		Event 2		Event 3		Event 4	
					1/12/2018		1/23/2018		2/15/2018		3/1/2018	
					1.27 in (SH)	0.25 in/hr (SH)	0.25 in (SH)	0.22 in/hr (SH)	0.46 in (SH)	0.18 in/hr (SH)	1.85 in (SH)	0.2 in/hr (SH)
					1.08 in (SE)	0.23 in/hr (SE)	0.30 in (SE)	0.26 in/hr (SE)	0.39 in (SE)	0.15 in/hr (SE)	1.59 in (SE)	0.21 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Not Checked	-	Block	No	Not Checked	-
CH-5	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-8	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	26	14	54%	Block	No	Block	No	Block	No	Block	No
CH-10	Dugway Brook	26	1	4%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Not Checked	-	Block	No	Block	No	Block	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	28	6	21%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	27	5	19%	Block	No	Block	No	Not Checked	-	Block	No
CH-28	Dugway Brook	27	3	11%	Block	No	Block	No	Block	No	Block	No
CH-30	Dugway Brook	27	11	41%	Block	No	Block	No	Block	No	Block	No
CH-32	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Block	Yes	Block	No	Block	No	Block	Yes
CH-35	Doan Brook	26	8	31%	Block	Yes	Not Checked	-	Block	No	Block	No
CH-36	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	No	Block	No	Block	No	Block	Yes
CH-38	Doan Brook	27	2	7%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Block	No	Block	No	Block	No	Block	No
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	28	5	18%	Block	No	Block	No	Block	No	Block	No
CH-51	Nine Mile	24	12	50%	Block	No	Block	Yes	Block	No	Block	No
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to October 15, 2018 at locations in bold font												

					Event 5		Event 6		Event 7		Event 8	
					3/27/2018		4/15/2018		5/3/2018		5/13/2018	
					1.06 in (SH)	0.2 in/hr (SH)	3.00 in (SH)	0.51 in/hr (SH)	0.83 in (SH)	0.59 in/hr (SH)	0.67 in (SH)	0.41 in/hr (SH)
					1.05 in (SE)	0.21 in/hr (SE)	2.69 in (SE)	0.43 in/hr (SE)	0.87 in (SE)	0.4 in/hr (SE)	0.71 in (SE)	0.38 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-8	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	26	14	54%	Block	No	Block	Yes	Block	No	Block	No
CH-10	Dugway Brook	26	1	4%	Block	No	Not Checked	-	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	Yes	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Block	Yes	Block	No	Block	No	Block	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	Yes	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Not Checked	-	Block	No	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	28	6	21%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	27	5	19%	Block	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	27	3	11%	Block	No	Block	No	Block	No	Block	No
CH-30	Dugway Brook	27	11	41%	Block	No	Block	No	Block	No	Not Checked	-
CH-32	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Block	No	Block	No	Block	No	Not Checked	-
CH-35	Doan Brook	26	8	31%	Block	No	Block	No	Block	No	Block	No
CH-36	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	No	Block	No	Block	No	Block	Yes
CH-38	Doan Brook	27	2	7%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	27	1	4%	Block	No	Not Checked	-	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Block	No	Not Checked	-	Block	No	Block	No
CH-47	Doan Brook	27	1	4%	Block	No	Not Checked	-	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	28	5	18%	Block	No	Block	Yes	Block	No	Block	No
CH-51	Nine Mile	24	12	50%	Block	No	Not Checked	-	Block	No	Block	No
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

					Event 9		Event 10		Event 11		Event 12	
					5/19/2018		6/3/2018		6/10/2018		7/23/2018	
					0.77 in (SH)	0.4 in/hr (SH)	0.55 in (SH)	0.54 in/hr (SH)	0.66 in (SH)	0.41 in/hr (SH)	0.72 in (SH)	0.35 in/hr (SH)
					1.74 in (SE)	0.97 in/hr (SE)	1.04 in (SE)	1.03 in/hr (SE)	0.41 in (SE)	0.3 in/hr (SE)	0.26 in (SE)	0.16 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-6	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-7	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-8	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Block	No
CH-9	Doan Brook	26	14	54%	Block	Yes	Block	No	Block	No	Flow Meter	Yes
CH-10	Dugway Brook	26	1	4%	Not Checked	-	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Block	No	Block	No	Block	Yes	Flow Meter	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	Yes	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Block	No	Not Checked	-	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	28	6	21%	Block	No	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	27	5	19%	Block	No	Block	No	Block	No	Flow Meter	No
CH-28	Dugway Brook	27	3	11%	Block	No	Block	No	Not Checked	-	Block	No
CH-30	Dugway Brook	27	11	41%	Block	No	Block	No	Block	No	Flow Meter	Yes
CH-32	Doan Brook	28	4	14%	Block	No	Block	Yes	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Block	No	Not Checked	-	Not Checked	-	Flow Meter	Yes
CH-35	Doan Brook	26	8	31%	Not Checked	-	Block	No	Block	No	Flow Meter	No
CH-36	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	No	Not Checked	-	Not Checked	-	Block	No
CH-38	Doan Brook	27	2	7%	Not Checked	-	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Block	No	Block	No	Block	No	Flow Meter	Yes
CH-42	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Block	No	Block	No	Block	No	Flow Meter	Yes
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	28	5	18%	Block	No	Block	No	Block	No	Flow Meter	No
CH-51	Nine Mile	24	12	50%	Block	No	Block	No	Not Checked	-	Flow Meter	Yes
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

					Event 13		Event 14		Event 15		Event 16	
					7/26/2018		7/28/2018		8/6/2018		8/21/2018	
					0.93 in (SH)	0.76 in/hr (SH)	0.57 in (SH)	0.57 in/hr (SH)	1.17 in (SH)	0.86 in/hr (SH)	1.20 in (SH)	0.47 in/hr (SH)
					1.28 in (SE)	0.57 in/hr (SE)	0.20 in (SE)	0.19 in/hr (SE)	1.51 in (SE)	0.8 in/hr (SE)	1.17 in (SE)	0.39 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	Yes
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Not Checked	-
CH-6	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Not Checked	-
CH-7	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Not Checked	-
CH-8	Doan Brook	15	0	0%	Block	No	Block	No	Block	No	Not Checked	-
CH-9	Doan Brook	26	14	54%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-10	Dugway Brook	26	1	4%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes	Flow Meter	Yes
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	No	Block	Yes
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	No	Block	No	Block	Yes
CH-26	Dugway Brook	28	6	21%	Block	No	Block	No	Block	No	Block	Yes
CH-27	9 Mile Creek	27	5	19%	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes	Flow Meter	Yes
CH-28	Dugway Brook	27	3	11%	Block	No	Block	No	Block	No	Block	Yes
CH-30	Dugway Brook	27	11	41%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-32	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	Yes
CH-33	Doan Brook	25	12	48%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-35	Doan Brook	26	8	31%	Flow Meter	No	Flow Meter	No	Flow Meter	No	Flow Meter	No
CH-36	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	27	2	7%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-42	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Flow Meter	No	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	No
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	Yes
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	Yes
CH-50	Doan Brook	28	5	18%	Flow Meter	No	Flow Meter	No	Flow Meter	No	Flow Meter	Yes
CH-51	Nine Mile	24	12	50%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

					Event 17		Event 18		Event 19		Event 20	
					8/29/2018		9/9/2018-9/10/2018		9/25/2018		10/6/2018-10/7/2018	
					0.77 in (SH)	0.75 in/hr (SH)	1.88 in (SH)	0.24 in/hr (SH)	0.52 in (SH)	0.26 in/hr (SH)	0.69 in (SH)	0.47 in/hr (SH)
					1.30 in (SE)	1.26 in/hr (SE)	2.13 in (SE)	0.23 in/hr (SE)	0.55 in (SE)	0.25 in/hr (SE)	0.97 in (SE)	0.53 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	Yes	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	Yes	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-6	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-7	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-8	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-9	Doan Brook	26	14	54%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-10	Dugway Brook	26	1	4%	Block	Yes	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes	Flow Meter	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	Yes	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	Yes	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Block	No	Block	No	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-26	Dugway Brook	28	6	21%	Block	Yes	Block	No	Block	No	Block	No
CH-27	9 Mile Creek	27	5	19%	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	No
CH-28	Dugway Brook	27	3	11%	Block	No	Block	No	Block	No	Block	No
CH-30	Dugway Brook	27	11	41%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-32	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Flow Meter	No	Flow Meter	No	Flow Meter	Yes	Flow Meter	No
CH-35	Doan Brook	26	8	31%	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes	Flow Meter	Yes
CH-36	Doan Brook	28	4	14%	Block	Yes	Block	No	Block	Yes	Block	No
CH-37	Doan Brook	26	6	23%	Block	Yes	Block	No	Block	Yes	Block	No
CH-38	Doan Brook	27	2	7%	Block	Yes	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-42	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	Yes	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	No	Flow Meter	Yes
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	28	5	18%	Flow Meter	Yes	Flow Meter	No	Flow Meter	No	Flow Meter	No
CH-51	Nine Mile	24	12	50%	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes	Flow Meter	Yes
CH-52	Dugway Brook	28	1	4%	Block	No	Block	Yes	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

					Event 21		Event 22		Event 23		Event 24	
					10/13/2018		10/28/2018		11/1/2018		11/9/2018	
					1.02 in (SH)	0.22 in/hr (SH)	1.12 in (SH)	0.26 in/hr (SH)	2.08 in (SH)	0.22 in/hr (SH)	0.26 in (SH)	0.12 in/hr (SH)
					1.77 in (SE)	0.32 in/hr (SE)	N/A in (SE)	N/A in/hr (SE)	2.06 in (SE)	0.23 in/hr (SE)	0.32 in (SE)	0.12 in/hr (SE)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	Yes	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	Yes	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-6	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-7	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-8	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-9	Doan Brook	26	14	54%	Flow Meter	Yes	Not Checked	-	Not Checked	-	Block	No
CH-10	Dugway Brook	26	1	4%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Flow Meter	No	Not Checked	-	Not Checked	-	Block	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	Yes	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	Yes	Block	No
CH-24	Dugway Brook	26	2	8%	Block	No	Block	No	Block	Yes	Block	No
CH-25	Dugway Brook	28	4	14%	Block	Yes	Block	No	Block	Yes	Block	No
CH-26	Dugway Brook	28	6	21%	Block	Yes	Block	No	Block	Yes	Block	No
CH-27	9 Mile Creek	27	5	19%	Flow Meter	No	Block	No	Block	No	Block	No
CH-28	Dugway Brook	27	3	11%	Block	Yes	Block	No	Block	No	Block	No
CH-30	Dugway Brook	27	11	41%	Flow Meter	Yes	Block	No	Block	Yes	Block	No
CH-32	Doan Brook	28	4	14%	Block	Yes	Block	Yes	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Flow Meter	Yes	Block	Yes	Block	Yes	Block	Yes
CH-35	Doan Brook	26	8	31%	Flow Meter	Yes	Block	Yes	Block	No	Block	No
CH-36	Doan Brook	28	4	14%	Block	Yes	Block	No	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	Yes	Block	Yes	Block	No	Block	No
CH-38	Doan Brook	27	2	7%	Block	No	Block	No	Block	No	Block	No
CH-39	Doan Brook	28	10	36%	Flow Meter	Yes	Block	No	Block	No	Block	No
CH-42	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Flow Meter	No	Not Checked	-	Not Checked	-	Block	No
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	Yes
CH-50	Doan Brook	28	5	18%	Flow Meter	No	Block	No	Block	No	Block	No
CH-51	Nine Mile	24	12	50%	Flow Meter	Yes	Not Checked	-	Not Checked	-	Block	No
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

					Event 25		Event 26		Event 27		Event 28	
					11/15/2018		11/26/2018		12/3/2018		12/20/2018	
					0.57 in (SH)	0.09 in/hr (SH)	0.83 in (SH)	0.19 in/hr (SH)	0.35 in (SH)	0.06 in/hr (SH)	0.50 in (SH)	0.14 in/hr (SH)
SSO	Receiving Stream	# of Monitored Events	# of Recorded Activations	% of Events with Activation	0.57 in (SE)	0.1 in/hr (SE)	0.86 in (SE)	0.19 in/hr (SE)	0.27 in (SE)	0.07 in/hr (SE)	0.46 in (SE)	0.13 in/hr (SE)
					Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?	Tethered Block or Flow Meter	Activation Y/N?
CH-1	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-2	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-3	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-4	Doan Brook	26	0	0%	Block	No	Block	No	Block	No	Block	No
CH-5	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-6	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-7	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-8	Doan Brook	15	0	0%	Not Checked	-	Not Checked	-	Not Checked	-	Not Checked	-
CH-9	Doan Brook	26	14	54%	Block	Yes	Block	Yes	Block	No	Block	No
CH-10	Dugway Brook	26	1	4%	Block	No	Block	No	Block	No	Block	No
CH-11	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-12	Dugway Brook	25	8	32%	Block	Yes	Block	No	Block	No	Block	No
CH-13	Doan Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-15	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-17	Dugway Brook	28	0	0%	Block	No	Block	No	Block	No	Block	No
CH-22	9 Mile Creek	28	3	11%	Block	Yes	Block	No	Block	No	Block	No
CH-23	Dugway Brook	28	3	11%	Block	No	Block	No	Block	No	Block	No
CH-24	Dugway Brook	26	2	8%	Block	Yes	Block	No	Block	No	Block	No
CH-25	Dugway Brook	28	4	14%	Block	No	Block	Yes	Block	No	Block	No
CH-26	Dugway Brook	28	6	21%	Block	Yes	Block	Yes	Block	No	Block	No
CH-27	9 Mile Creek	27	5	19%	Block	Yes	Block	No	Block	No	Block	No
CH-28	Dugway Brook	27	3	11%	Block	No	Block	Yes	Block	No	Block	No
CH-30	Dugway Brook	27	11	41%	Block	No	Block	No	Block	No	Block	No
CH-32	Doan Brook	28	4	14%	Block	No	Block	No	Block	No	Block	No
CH-33	Doan Brook	25	12	48%	Block	No	Block	No	Block	No	Block	No
CH-35	Doan Brook	26	8	31%	Block	No	Block	Yes	Block	Yes	Block	No
CH-36	Doan Brook	28	4	14%	Block	No	Block	Yes	Block	No	Block	No
CH-37	Doan Brook	26	6	23%	Block	No	Block	No	Block	No	Block	No
CH-38	Doan Brook	27	2	7%	Block	No	Block	No	Block	Yes	Block	No
CH-39	Doan Brook	28	10	36%	Block	No	Block	No	Block	No	Block	No
CH-42	Doan Brook	27	1	4%	Block	Yes	Block	No	Block	No	Block	No
CH-45	Doan Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
CH-46	Doan Brook	25	7	28%	Block	Yes	Block	No	Block	No	Block	No
CH-47	Doan Brook	27	1	4%	Block	No	Block	No	Block	No	Block	No
CH-49	Doan Brook	28	2	7%	Block	No	Block	No	Block	No	Block	No
CH-50	Doan Brook	28	5	18%	Block	Yes	Block	No	Block	Yes	Block	No
CH-51	Nine Mile	24	12	50%	Block	Yes	Block	No	Block	No	Block	No
CH-52	Dugway Brook	28	1	4%	Block	No	Block	No	Block	No	Block	No
District's Shaker Heights (SH) and South Euclid (SE) rain gauges were used as denoted.												
2018 Real time monitoring of SSOs conducted from July 15, 2018 to Oct												

Appendix C – 2018 Cleveland Heights Customer Calls

House Number	Street	Date 1	Comments	Date 2	Comments
1085	Allston	6/28/2018	Could not open		
1086	Allston	5/29/2018	Line open		
3417	Altamont	12/19/2018	Root Treatment		
1373	Ardoon	2/12/2018	test tee is blocked		
2484	Arlington	5/23/2018			
2590	Ashton	12/14/2018	Root Treatment		
2608	Ashton	5/25/2018	Line open	6/1/2018	televised
3583	Atherstone	10/30/2018	Root Treatment		
3495	Bainbridge	3/28/2018	advised to clean sump pump	10/4/2018	Root Treatment
3498	Bainbridge	8/7/2018			
3499	Bainbridge	6/1/2018	Could not open	6/8/2018	jet-no charge-paid last week
3513	Bainbridge	6/1/2018			
3520	Bainbridge	1/3/2018	No Access	4/24/2018	No Access
3559	Bainbridge	7/27/2018	No Access		
3570	Bainbridge	3/2/2018			
3643	Bainbridge	1/11/2018		5/14/2018	
3647	Bainbridge	11/30/2018	Root Treatment		
3654	Bainbridge	7/9/2018			
3747	Bainbridge	5/29/2018	Could not open		
1315	Beechwood	3/5/2018	No Access		
2180	Bellfield	4/17/2018	Could not open		
2273	Bellfield	5/9/2018	Could not open		
2284	Bellfield	5/16/2018	Could not open	5/30/2018	line broken on tree lawn
2355	Bellfield	3/1/2018	No Access	3/12/2018	tee is broken advised to repair
2366	Bellfield	4/30/2018	clean out on stack		
3488	Bendemeer	5/1/2018	test tee, blocked toward house		
3492	Bendemeer	9/17/2018		9/24/2018	
3500	Bendemeer	10/25/2018	Root Treatment		
3501	Bendemeer	4/17/2018	will jet 4-18-2018		
3534	Bendemeer	1/9/2018	No Access	1/10/2018	could not locate test tee
3569	Bendemeer	5/25/2018	No Access		
3594	Bendemeer	2/23/2018		3/12/2018	toilet paper and wipes both ways
3667	Bendemeer	2/13/2018	needs jet		
3681	Bendemeer	9/28/2018	televised		line broken in tree lawn
3689	Bendemeer	3/22/2018	clean and camera	9/26/2018	every joint is separated
3731	Bendemeer	3/6/2018			
3530	Berkeley	2/21/2018	Branch Line		
3559	Berkeley	1/4/2018	No Access		
3641	Berkeley	5/19/2018	ran jet thru test tee		
3709	Berkeley	1/8/2018			
3729	Berkeley	6/29/2018	Could not open		
3759	Berkeley	5/11/2018	No Access		

House Number	Street	Date 1	Comments	Date 2	Comments
3777	Berkeley	10/17/2018	Root Treatment		
2835	Berkshire	4/17/2018	test tee- roots		
2847	Berkshire	11/16/2018	Root Treatment		
2861	Berkshire	3/6/2018	use jet		
3065	Berkshire	2/23/2018	camera -no charge		
3559	Beverly	7/19/2018	No Access		
3364	Blanche	3/26/2018	blocked toward house 60' could not open	5/31/2018	advised to call private company
3373	Blanche	1/12/2018			
3383	Blanche	3/29/2018			
3384	Blanche	1/12/2018			
3424	Blanche	5/14/2018	Could not open		
3426	Blanche	8/7/2018	jet test tee		
3532	Blanche	1/22/2018			
3644	Blanche	4/16/2018	No Access		
4004	Bluestone	3/12/2018	Cancelled		
4115	Bluestone	8/16/2018	No Access		
4143	Bluestone	2/22/2018	No one home		
2522	Bolton	5/25/2018			
2540	Bolton	6/14/2018	broken tee		
1066	Brandon	10/30/2018	Root Treatment		
1164	Brandon	8/20/2018			
1135	Brentwood	1/12/2018	Line open		
3641	Brinkmore	11/16/2018	Root Treatment		
927	Brunswick	5/22/2018	Line open		
3692	Burbridge	6/5/2018	no clean out		
1317	Burlington	5/29/2018	No one home	5/31/2018	
1379	Burlington	10/23/2018	Root Treatment		
1471	Burlington	11/8/2018	Root Treatment		
1490	Burlington	4/18/2018	clean out on stack		
1807	Cadwell	5/18/2018			
863	Caledonia	4/18/2018	could not get past 50'		
832	Caledonia	4/27/2018			
2582	Canterbury	6/6/2018			
2599	Canterbury	7/19/2018			
2618	Canterbury	6/15/2018	roots cleanout		
2623	Canterbury	9/25/2018			
2632	Canterbury	5/21/2018		7/10/2018	test tee-could not pass 45'
1122	Castleton	10/1/2018		10/30/2018	Root Treatment
1123	Castleton	8/28/2018			
1142	Castleton	6/15/2018	ran jet thru test tee		
1146	Castleton	8/7/2018			
1158	Castleton	8/22/2018			

House Number	Street	Date 1	Comments	Date 2	Comments
1178	Castleton	1/18/2018	Could not locate test tee	1/22/2018	
13097	Cedar	2/5/2018			
13100	Cedar	7/5/2018	storm problem	7/19/2018	line broken 15' from test tee towards the house
13108	Cedar	1/4/2018	No Access		
3239	Cedarbrook	11/5/2018	Root Treatment		
2153	Chatfield	6/6/2018			
2171	Chatfield	7/24/2018			
3060	Chelsea	6/19/2018	Blocked Main, CH cleared blockage		
3071	Chelsea	5/31/2018	Cancelled		
3090	Chelsea	3/28/2018	No Access	3/29/2018	found tee-trapped
3121	Chelsea	4/16/2018	Blocked Main, CH cleared blockage	5/30/2018	cleaned
3131	Chelsea	4/16/2018	Line open		
3167	Chelsea	6/19/2018	Blocked Main, CH cleared blockage	8/10/2018	No Access
3432	Clarendon	7/13/2018			
1159	Cleveland Heights	2/28/2018	No Access	3/13/2018	cannot locate tee
1314	Cleveland Heights	6/4/2018	clean out on stack	7/2/2018	camera
1384	Cleveland Heights	10/30/2018	Root Treatment		
16224	Clevinden	5/31/2018	could not get past 30' from clean out		
1128	Clifford	1/29/2018	clean out on stack		
1139	Clifford	6/5/2018	No Access		
2650	Colechester	1/29/2018	No Access		
2848	Coleridge	6/8/2018	Line open		
3150	Coleridge	8/30/2018	No Access		
1525	Compton	5/23/2018			
1624	Compton	11/1/2018	Root Treatment		
1654	Compton	8/2/2018			
3125	Corydon	8/29/2018	No Access		
2237	Cottage Grove	11/2/2018	Root Treatment		
1637	Coventry	6/6/2018	Branch Line	6/11/2018	No Access
1643	Coventry	10/18/2018	Root Treatment		
1710	Coventry	5/9/2018	No Access		
1714	Coventry	5/7/2018	Could not open	12/18/2018	Root Treatment
1494	Crest	1/2/2018	No Access		
1721	Cumberland	3/23/2018	No Access		
	Cumberland Pool	4/20/2018	ran 100'-opened		
3507	Cummings	9/7/2018	Branch Line	10/12/2018	Root Treatment
3518	Cummings	1/22/2018			
3522	Cummings	8/8/2018		8/22/2018	
2577	Dartmoor	1/17/2018	could not locate test tee	1/30/2018	
2617	Dartmoor	6/19/2018	tee is trapped		
2290	Delaware	12/18/2018	Root Treatment	12/24/2018	Investigate
2322	Delaware	5/23/2018	No Access		

House Number	Street	Date 1	Comments	Date 2	Comments
3259	Dellwood	2/6/2018			
3267	Dellwood	4/9/2018		6/26/2018	videoed line possible collapse at 27' in the street
3277	Dellwood	6/5/2018			
3929	Dellwood	10/29/2018	Root Treatment		
2160	Demington	4/6/2018	No Access		
2171	Demington	9/18/2018	No Access		
945	Dresden	6/29/2018	storm issue		
3286	East Berkshire	6/29/2018	No Access		
2528	East Derbyshire	5/2/2018	No Access		
2924	East Derbyshire	1/12/2018	No Access	10/30/2018	Root Treatment
2928	East Derbyshire	2/20/2018	Branch Line		
2956	East Derbyshire	1/22/2018			
2957	East Derbyshire	10/26/2018	Root Treatment		
3105	East Derbyshire	5/1/2018	Cancelled		
29545	East Derbyshire	4/23/2018	clean out maintenance		
3244	East Fairfax	12/7/2018	Root Treatment		
3266	East Fairfax	12/31/2018	Root Treatment		
3432	East Fairfax	4/30/2018	televised broken at tee and 52' in the street		
3301	East Monmouth	3/29/2018	No Access		
3383	East Monmouth	9/5/2018			
2689	East Overlook	9/5/2018	storm line		
2881	East Overlook	8/30/2018	waterproofing problem		
2900	East Overlook	4/23/2018			
2908	East Overlook	7/3/2018			
3095	East Overlook	9/24/2018			
2814	East Overlook	5/23/2018			
1421	Edendale	3/23/2018	tree branch is in the test tee		
2905	Edgehill	4/23/2018	tees are trapped		
2909	Edgehill	4/30/2018			
634	Edgerly	6/26/2018			
3456	Edison	10/24/2018	Root Treatment		
3459	Edison	9/11/2018		11/28/2018	Root Treatment
904	Elbon	7/6/2018	No Access		
923	Elbon	1/12/2018	No Access		
975	Elbon	2/13/2018	No Access	2/21/2018	
991	Elbon	1/12/2018	Blocked Main, CH cleared blockage		
1047	Elbon	2/21/2018	No Access		
4022	Elmwood	2/23/2018	No Access	2/27/2018	Could not open
3171	Essex	4/10/2018	No Access		
2940	Euclid Hts	4/20/2018	ran jet and snake, could not open		
2951	Euclid Hts	2/1/2018		10/12/2018	Root Treatment
3003	Euclid Hts	9/11/2018	driveway drain		

House Number	Street	Date 1	Comments	Date 2	Comments
3048	Euclid Hts	1/30/2018	No Access		clean out on stack
3337	Euclid Hts	12/10/2018	Root Treatment		
3414	Euclid Hts	4/5/2018	line broken 50'	4/17/2018	
3443	Euclid Hts	6/28/2018			
2654	Exeter	4/17/2018	trapped tee		
2764	Fairmount	3/2/2018	reschedule	3/28/2018	Will jet 3-29-2018, test tee blocked toward house
2884	Fairmount	6/4/2018			
3029	Fairmount	11/2/2018	Root Treatment	11/6/2018	Root Treatment
3090	Fairmount	4/24/2018	Could not open		
3116	Fairmount	6/4/2018			
3375	Fairmount	4/27/2018	No Access		
3511	Fairmount	12/4/2018	Root Treatment	12/19/2018	Root Treatment
3545	Fairmount	8/30/2018	reschedule	9/10/2018	belly in line
3684	Fenley	5/11/2018	No Access		
3709	Fenley	7/3/2018			
1405	Forest Hills	1/25/2018	could not get past 60'		
3777	Glenwood	10/8/2018			
2225	Grandview	1/10/2018	Could not open	1/11/2018	
2240	Grandview	12/14/2018	Root Treatment	12/19/2018	TV Inspection
2268	Grandview	8/20/2018		9/28/2018	televised
2308	Grandview	4/9/2018		10/23/2018	Root Treatment
2329	Grandview	10/9/2018	Branch Line	10/8/2018	Root Treatment
884	Greyton	1/29/2018	No Access		
891	Greyton	9/4/2018	No Access	11/21/2018	Root Treatment
931	Greyton	4/10/2018	No Access		
972	Greyton	11/24/2018	Root Treatment	12/28/2018	Root Treatment
1050	Greyton	9/10/2018			
3244	Greyton	12/7/2018			
3559	Grosvenor	2/2/2018	Cancelled	2/5/2018	upstairs drain is blocked
2572	Guilford	7/20/2018	ran jet thru test tee		
2584	Guilford	5/19/2018	No one home		
2585	Guilford	5/3/2018	tee is trapped		
2608	Hampshire	5/22/2018	Line open		
2630	Hampshire	8/6/2018			
2777	Hampshire	9/4/2018	Televised sanitary lateral		
2189	Harcourt	1/2/2018	Cancelled		
2232	Harcourt	2/12/2018	problem with backflow		
3426	Hartwood	9/27/2018	No Access		
3455	Hartwood	6/28/2018			
820	Helmsdale	8/2/2018	broken lateral 22' from clean out		
833	Helmsdale	4/19/2018	on stack		
876	Helmsdale	3/7/2018			

House Number	Street	Date 1	Comments	Date 2	Comments
904	Helmsdale	8/28/2018			
909	Helmsdale	10/5/2018	Root Treatment	10/11/2018	Root Treatment
968	Helmsdale	2/20/2018	Branch Line		
1616	Hillcrest	1/18/2018	No Access		
1032	Hillstone	4/5/2018	Branch Line		
3394	Hollister	5/24/2018	No Access		
3231	Hyde Park	8/29/2018			
3304	Hyde Park	12/7/2018	Root Treatment		
3312	Hyde Park	5/21/2018	trapped test tee	5/24/2018	
1314	Inglewood	6/22/2018	No Access		
1315	Inglewood	3/2/2018	No Access	3/7/2018	
1324	Inglewood	10/22/2018	Root Treatment		
1390	Inglewood	10/4/2018	Root Treatment		
1558	Ivydale	1/10/2018	No Access		
2464	Kenilworth	1/24/2018	test tee-could not pass where the telephone pole is		
3002	Kensington	8/30/2018	No Access	9/4/2018	
2060	Kent	5/9/2018	test tee-could not get past 15' toward house		
1542	Kew	7/19/2018	No Access		
902	Keystone	12/19/2018	Root Treatment		
1005	Keystone	8/7/2018			
3243	Kildare	9/20/2018	Branch Line	9/26/2018	
2553	Kingston	6/4/2018	line is broken under floor		
3656	Langton	5/21/2018	Line open		
3683	Langton	12/3/2018	Root Treatment		
828	Lecona	11/21/2018	Root Treatment		
854	Lecona	4/5/2018	No Access		
1700	Lee	5/14/2018	No Access	5/25/2018	line is broken
1788	Lee	8/7/2018	test tee-ran jet	8/22/2018	test tee cap stuck in line
2263	Lee	11/16/2018	Root Treatment		
2383	Lee	8/2/2018			
2409	Lee	2/2/2018	No Access		
2558	Lee	11/1/2018	Root Treatment		
3084	Lee	10/22/2018	Root Treatment		
3050	Lincoln	12/26/2018	Root Treatment		
3744	Lowell	7/2/2018	No Access		
1413	Lynn Park	6/8/2018	No Access		
1672	Maple	11/19/2018	Root Treatment		
2023	Marlindale	2/1/2018	Could not open		
3151	Meadowbrook	5/15/2018	test tee-blocked toward house		
3270	Meadowbrook	3/27/2018	test tee blocked toward house		
3278	Meadowbrook	1/17/2018			
3299	Meadowbrook	11/5/2018	Root Treatment		

House Number	Street	Date 1	Comments	Date 2	Comments
3318	Meadowbrook	3/20/2018	No Access		
3335	Meadowbrook	2/12/2018			
3373	Meadowbrook	10/11/2018	Root Treatment	10/17/2018	Root Treatment
3388	Meadowbrook	8/13/2018	needs jet	8/14/2018	jetted line through test tee
3492	Meadowbrook	7/3/2018	camera would not fit in clean out	7/5/2018	
3535	Meadowbrook	10/1/2018	contractor wanted storm tees found	10/1/2018	Root Treatment
856	Medford	1/17/2018	No Access		
3778	Montevista	10/29/2018	Locate		
848	Montford	11/5/2018	Root Treatment		
868	Montford	3/13/2018	test tee	12/18/2018	Root Treatment
3130	Monticello	7/25/2018	No Access	8/29/2018	
3415	Monticello	1/23/2018	Could not open		
3418	Monticello	10/18/2018	Root Treatment		
3455	Monticello	6/28/2018			
3458	Monticello	10/2/2018	Root Treatment	11/16/2018	Root Treatment
3483	Monticello	2/22/2018	Branch Line		
3539	Monticello	3/22/2018	Could not open		
3784	Monticello	12/12/2018	Root Treatment		
3929	Monticello	2/5/2018	No Access	12/20/2018	Root Treatment
3958	Monticello	5/29/2018		6/1/2018	jetted test tee
3964	Monticello	3/2/2018			
3971	Monticello	10/3/2018	line broken in street-CH repaired	10/23/2018	Repair
3979	Monticello	12/20/2018	Root Treatment		
3622	Mt Laurel	10/3/2018	Root Treatment		
3638	Mt Laurel	6/12/2018			
966	Nela View	10/3/2018	Root Treatment		
2516	Newbury	12/28/2018	Root Treatment		
1509	Noble	8/10/2018	No Access	9/4/2018	No one home
2396	Noble	9/7/2018			
2616	Norflok	1/17/2018	televised	6/13/2018	televised-line broken in tree lawn
2153	North Taylor	4/16/2018	No Access	5/19/2018	water receded
2155	North Taylor	4/16/2018	Blocked Main, CH cleared blockage	5/19/2018	water receded
2159	North Taylor	4/9/2018		4/16/2018	Blocked Main, CH cleared blockage
2476	North Taylor	6/13/2018			
3731	Northampton	2/14/2018			
3780	Northampton	3/26/2018		5/11/2018	clean out
3791	Northampton	3/12/2018	roots and grease		
3807	Northampton	10/12/2018	Root Treatment		
3983	Northampton	8/28/2018	test tee is trapped		
3499	Northcliffe	2/2/2018	Could not open		
3500	Northcliffe	9/18/2018			
3507	Northcliffe	4/20/2018	Cancelled		

House Number	Street	Date 1	Comments	Date 2	Comments
3668	Northvale	4/16/2018	Line open	11/9/2018	Root Treatment
3704	Northvale	4/23/2018	No Access		
3731	Northvale	4/11/2018	tee is broken		
3227	Oak	4/16/2018	test tee-roots		
1401	Oakridge	2/12/2018	needs jet		
3940	Orchard	11/19/2018	Root Treatment		
3941	Orchard	1/24/2018	camera-belly in the line at the curb		
3995	Orchard	11/19/2018	Root Treatment	12/10/2018	Root Treatment
3276	Ormond	8/20/2018	rescheduled		
3317	Ormond	7/2/2018			
1016	Oxford	1/23/2018	Blocked Main, CH cleared blockage		
3802	Parkdale	7/10/2018	Could not open		
1905	Parkway	5/25/2018		6/8/2018	no charge
1939	Parkway	5/30/2018	No Access		
962	Pembrook	11/26/2018	Root Treatment		
1008	Pembrook	2/22/2018			
1131	Pennfield	6/29/2018	No Access		
1184	Pennfield	7/12/2018	Could not open		
1920	Powell	6/19/2018			
2494	Princeton	4/4/2018	Cancelled		
2578	Princeton	7/13/2018			
2598	Princeton	2/12/2018			
914	Quarry	2/22/2018	Could not open	3/2/2018	Could not open
2419	Queenston	7/17/2018			
2445	Queenston	11/19/2018	Root Treatment		
2482	Queenston	3/14/2018	Cancelled		
2498	Queenston	3/7/2018			
2613	Queenston	3/29/2018	clean out-maintenance		
25873	Queenston	12/3/2018	Root Treatment		
782	Quilliams	11/9/2018	Root Treatment		
968	Quilliams	12/19/2018	Root Treatment		
1184	Quilliams	3/15/2018	No Access		
1228	Quilliams	11/13/2018	Root Treatment		
3515	Randolph	5/19/2018	water receeded		
3559	Randolph	2/20/2018	No Access		
3248	Redwood	8/21/2018			
1037	Renfield	8/7/2018	No Access	9/7/2018	tee needs to be raised
1061	Renfield	1/3/2018		1/8/2018	blocked toward house
1936	Revere	5/30/2018	line good from tee to main		
2054	Revere	12/10/2018	Investigate		
971	Roanoke	6/15/2018	Branch Line		
3389	Rosedale	12/14/2018	Root Treatment		

House Number	Street	Date 1	Comments	Date 2	Comments
3360	Rumson	4/18/2018	could not locate tee		
3380	Rumson	7/10/2018	No Access		
3611	Runnymede	9/18/2018	No Access		
1007	Rushleigh	2/27/2018	No Access		
1088	Rushleigh	4/30/2018	Cancelled		
1103	Rutherford	5/29/2018	No Access	6/19/2018	No Access
1450	Rydalmount	2/15/2018		6/20/2018	line broken 15' from clean out
1609	Rydalmount	6/20/2018			
3006	Scarborough	10/5/2018		10/12/2018	Root Treatment
3055	Scarborough	7/27/2018	No one home		
3357	Scarborough	6/1/2018	clean out on stack		
3417	Scarborough	4/6/2018	Cancelled	5/19/2018	No Access
3399	Seaton	12/28/2018	Root Treatment		
876	Selwyn	7/20/2018	basement under water-advised to pump out	7/23/2018	clean out
1005	Selwyn	10/11/2018	Root Treatment	10/18/2018	Root Treatment
3471	Severn	10/10/2018	Root Treatment		
3527	Severn	11/9/2018	Root Treatment		
3535	Severn	1/18/2018	Line open		
3567	Severn	6/29/2018	No Access		
3647	Severn	10/2/2018	Root Treatment		
3668	Severn	5/1/2018		5/15/2018	Warranty
3684	Severn	11/9/2018	Root Treatment		
3702	Severn	9/28/2018			
2585	Shaker	2/20/2018	could not pass 50'		
2645	Shaker	1/23/2018	cross connected		
3010	Shannon	9/11/2018			
3553	Shannon	10/31/2018	Root Treatment		
3637	Shannon	7/23/2018			
3724	Shannon	2/28/2018	lateral broken in street		will fix
3730	Shannon	3/2/2018	not open fully-advise call private company	3/14/2018	line blocked 19' in the street
3737	Shannon	1/5/2018	wrong address		
3797	Shannon	5/7/2018	stack blocked		
17415	Shelburne	5/30/2018			
17420	Shelburne	10/22/2018	Root Treatment	11/6/2018	Root Treatment
17430	Shelburne	12/21/2018	Root Treatment	12/26/2018	TV Inspection
3275	Silsby	12/26/2018	Root Treatment		
3284	Silsby	4/20/2018	No Access	5/15/2018	televised
3010	Somerton	4/27/2018	cleanout	11/19/2018	Root Treatment
3034	Somerton	9/14/2018	No Access		
2257	South Overlook	8/23/2018	will reschedule		
2341	South Overlook	10/3/2018	could not get clean out open	10/8/2018	Root Treatment
2352	South Overlook	12/10/2018	Root Treatment		

House Number	Street	Date 1	Comments	Date 2	Comments
1484	South Taylor	2/23/2018	No Access		
1498	South Taylor	5/22/2018			
1510	South Taylor	3/2/2018			
1540	South Taylor	3/22/2018			
1564	South Taylor	2/21/2018			
1584	South Taylor	3/5/2018			
1762	South Taylor	10/26/2018	Root Treatment		
1776	South Taylor	3/20/2018	No Access		
2292	South Taylor	4/17/2018	cleanout on stack		
2359	South Taylor	11/9/2018	Root Treatment		
2385	South Taylor	12/21/2018	Investigate		
2644	South Taylor	11/1/2018	Root Treatment		
3490	St Albans	5/4/2018		5/7/2018	camera
3546	St Albans	9/5/2018	No Access		
3717	St Albans	5/3/2018	No Access		
3517	St. Albans	5/11/2018	No Access		
1928	Staunton	4/14/2018	test tee-roots		
1932	Staunton	5/14/2018	hostile enviroment	5/16/2018	test tee-blocked toward house
3686	Stoneleigh	2/21/2018		5/9/2018	clean out
3693	Stoneleigh	12/19/2018	Root Treatment		
3705	Stoneleigh	3/2/2018	could not pass 40'		
2467	Stratford	3/23/2018	Ran multiple cleanouts to the street		
14299	Superior	10/16/2018	Root Treatment		
14315	Superior	7/25/2018	kitchen sink		
14351	Superior	2/12/2018	Line open		
14650	Superior	4/2/2018	Cancelled		
3379	Superior Park	4/13/2018	roots		
3189	Sycamore	8/7/2018	Blocked Main - CH cleared		
3244	Sycamore	3/2/2018	flipped cable 25' out from clean out-advised		
3341	Sylvanhurst	7/23/2018	No Access		
3378	Sylvanhurst	3/4/2018	No Access	9/4/2018	opened himself
1243	Sylvania	1/5/2018	Warranty	2/23/2018	clean out
3251	Tullamore	1/8/2018	clean out installed on stack		
3252	Tullamore	10/4/2018	Root Treatment	10/12/2018	Root Treatment
3270	Tullamore	11/19/2018	Root Treatment		
3309	Tullamore	3/29/2018	Could not open		
3313	Tullamore	2/28/2018			
3336	Tullamore	4/5/2018			
3424	Tullamore	8/22/2018		10/11/2018	Root Treatment
1361	Vandemar	6/26/2018	test tee jet line		
2902	Washington	6/8/2018			
2925	Washington	8/13/2018		8/16/2018	Cancelled

House Number	Street	Date 1	Comments	Date 2	Comments
2981	Washington	3/5/2018			
2997	Washington	1/9/2018			
3014	Washington	6/4/2018	test tee is bent	7/2/2018	test tee is trapped
3021	Washington	4/18/2018	No Access	5/15/2018	could not run small test tee toward house
3045	Washington	8/10/2018			
3048	Washington	6/6/2018	Odor		
3057	Washington	6/20/2018			
3338	Washington	6/22/2018			
3384	Washington	12/20/2018	Inspection		
3573	Washington	4/18/2018	No Access		
3575	Washington	12/30/2018	Root Treatment		
3583	Washington	10/26/2018	Root Treatment		
3666	Washington	8/30/2018	No Access		
2580	Wellington	5/24/2018	No Access	5/30/2018	on stack
1397	Westover	3/12/2018	No one home		
3205	Whitethorn	8/10/2018	Blocked Main - CH cleared		
1495	Wilmar	11/16/2018	Root Treatment		
1842	Wilton	6/6/2018			
1545	Wood	12/13/2018			
1707	Wood	9/25/2018	Cancelled		
1638	Wood	1/12/2018	Could not open		
3499	Woodridge	7/29/2018	No Access		
3738	Woodridge	5/11/2018	No Access		
773	Woodview	4/10/2018	Blocked Main		
820	Woodview	5/19/2018	No Access	8/29/2018	No Access
1904	Woodward	2/5/2018	No Access		
1058	Yellowstone	5/16/2018	test tee blocked 35 toward house		
1202	Yellowstone	3/12/2018	Cancelled		
2968	Yorkshire	9/14/2018			
3044	Yorkshire	9/25/2018	No Access		