



Combined Sewer Overflow (CSO) Long-Term Control Plan Consent Decree

Case 1:10-CV-02895-DCN

Semi-Annual Progress Report No. 17

July 29, 2020

NEORSD Semi-Annual Progress Report No. 17
Period from January 1, 2020 to June 30, 2020

July 29, 2020

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Columbus, Ohio 43215

**Re: Consent Decree Case 1:10-CV-02895-DCN
Semi-Annual Progress Report No. 17**

To Whom It May Concern:

The NEORSD is pleased to submit the enclosed Semi-Annual Progress Report (Progress Report) pursuant to Section IX of the above referenced Consent Decree. This Progress Report covers the period from January 1, 2020 through June 30, 2020.

Sincerely,



Kyle Dreyfuss-Wells
Chief Executive Officer

Cc: E. Luckage
D. Marshall/Project Clean Lake File

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1. Current Reporting Period Consent Decree Requirements (IX. Paragraph 46.a.)

“A statement setting forth the deadlines and other terms that NEORSD is required by this Consent Decree to meet since the date of the last Semi-Annual Progress report, whether and to what extent NEORSD has met these requirements, and the reasons for any noncompliance.”

Table 1: Current Reporting Period CD Requirements

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Compliance Status
Consent Decree Paragraph 36/ Appendix 6	State Supplemental Environmental Project – Canal Pump Station Operation and Maintenance	Commence operation and maintenance of pump station following completion of Canal Pump Station construction Or Payment of \$800,000 to USEPA within sixty (60) days after NEORSD receives notice from OEPA that the Canal Diversion Dam Removal will not be implemented, or by January 31, 2012 whichever occurs later	TBD	In compliance: Construction activities commenced and the dam was removed between May and June 2020. Bank stabilization activities are currently underway. Design of the electrical and pump station continues.

NEORS D Semi-Annual Progress Report No. 17
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Table 1: Current Reporting Period CD Requirements

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Compliance Status
Consent Decree Appendix 2 Section 2.6.2	Progress Reports to the Public	Public outreach activities will continue with periodic updates using various media	N/A	In compliance: <ul style="list-style-type: none"> • 5 blog posts, plus updated neorsd.org content regarding Project Clean Lake-related projects, funding, or initiatives between January and June 2020. In addition, relevant social media updates throughout those same months. • Produced latest edition of our Clean Water Works technical magazine focused on tunnels and Project Clean Lake (Volume 6). Distributed in January 2020. • Six monthly Capital Improvement Program updates presented publicly to Trustees at our Board meetings, including reports on Project Clean Lake progress. • 14 meetings with council members discussing Project Clean Lake construction and green infrastructure updates.

2. Current Work and Next Reporting Period Projected Work (IX. Paragraph 46.b.)

“A general description of the work completed within the Six-month Period, and a projection of work to be performed pursuant to this Consent Decree during the next or succeeding Six-month Period. Notifications to the U.S. EPA and Ohio EPA of any anticipated delay shall not, by itself, excuse the delay.”

Table 2: Description of this Reporting Period’s Current Work and Next Reporting Period’s Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 3	Implementation of GI Plan	<p>All Green Infrastructure control measures planned to meet the 44 MG capture requirement shall be completed within eight (8) years of entry of the Consent Decree.</p> <p>Submit Green Infrastructure Performance Report within ten years of entry of the Decree, in order to demonstrate the effectiveness of implementation of the Green Infrastructure control measures.</p>	<p>July 7, 2019</p> <p>July 7, 2021</p>	<p>Continued site-specific post-construction monitoring in the E.102nd basin of the Buckeye GI Project.</p> <p>Continued site-specific post-construction monitoring in the Page Basin of the GI components of the E. 140th Street Consolidation and Relief Sewer (E140) Project. GI components under E140 project are operational and all regulator modifications were completed to realize full sewershed benefit. Submitted Notice of Force Majeure for Control Measure 6 due to the COVID-19 pandemic and Force Majeure notice received from the Contractor. The Force Majeure notice explained that delays to E. 140th St. Consolidation and Relief Sewer may impact ability to complete the App. 3 Site and Sewershed-Specific post construction Monitoring/Evaluation and the Post-Construction Monitoring Report. The estimated post-gray CSO reduction for this project is 5.8 MG.</p> <p>Continued Southerly GI sewershed-specific post-construction monitoring for Slavic Village, Fleet Avenue, Urban Agriculture, Union, and Woodland Central.</p>	<p>Complete site-specific post-construction monitoring program for E.102/Buckeye and E140/Page GI Projects.</p> <p>Complete Southerly sewershed-specific post-construction monitoring program for Slavic Village, Fleet Avenue, Urban Agriculture, Union, and Woodland Central.</p> <p>Begin Easterly sewershed-specific post-construction monitoring program for Buckeye, E140, Fairhill MLK, and University Circle.</p>
Appendix 1 Control Measure 2	Treatment and Disinfection of CSO 001 Using CEHRT	<p>Work Plan Submittal</p> <p>Pilot Testing Report within 42 months of Work Plan Approval</p> <p>Design Commencement within 6 months of Pilot Testing Report Approval</p> <p>Construction Award within 24 months of Pilot Testing Report Approval</p> <p>Construction Completion Within 54 months of Pilot Testing Report Approval</p>	<p>January 1, 2011</p> <p>March 20, 2015</p> <p>Pending Pilot Testing Report Approval</p>	<p>On-going discussions with EPA regarding the June 21, 2018 Modification Request.</p>	<p>Continue discussions with EPA regarding the June 21, 2018 Modification Request.</p>

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Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 3	Treatment and Disinfection of CSO 002 using CEHRT in all 6 Quadrants (quads)	Work Plan Submittal Demonstration Testing Report within 54 months of Work Plan Approval Design Commencement of 2 additional quads within 6 months of Demonstration Testing Report Approval Construction Award within 24 months of Demonstration Testing Report Approval Construction Completion within 54 months of Demonstration Testing Report Approval	January 1, 2011 March 20, 2016 Pending Demonstration Testing Report Approval	Design on hold pending approval by EPA of Pilot Demonstration Testing Report submitted August 30, 2017 and resolution of other outstanding issues. Outstanding issues with Control Measure 3 were discussed at meetings with the Agencies on: February 7, 2020; May 8, 2020; May 11, 2020; June 5, 2020; and June 19, 2020. Reached agreement in principle with EPA on changes to Control Measure 3.	Continue discussions with EPA to reach resolution on the changes to Appendix 1 and Appendix 2 and filing of the Second Amendment to the Consent Decree. Design is anticipated to resume and will proceed consistent with the anticipated Second Amendment to the Consent Decree.
Appendix 1 Control Measure 4	Southerly WWTP - Treatment of Primary Effluent Bypass Demonstration/Pilot Project	Work Plan Submittal Pilot Testing Report within 42 months of Work Plan Approval	January 1, 2011 March 20, 2015	On-going discussions with EPA regarding the June 21, 2018 Modification Request. Reached agreement in principle with EPA on the changes to Control Measure 4.	Continue discussions with EPA to reach resolution on the changes to Appendix 1 and Appendix 2 and filing of the Second Amendment to the Consent Decree.
Appendix 1 Control Measure 5	Increase Secondary Treatment Capacity and Treat Primary Effluent Bypass with CEHRT	Commencement of design of plant improvements and PEB CEHRT system within 6 months of Pilot Testing Report Approval Construction award for plant improvements and PEB CEHRT system within 30 months of Pilot Testing Report Approval Construction Completion of plant improvements and PEB CEHRT system within 60 months of Pilot Testing Report Approval	Within 6 months from date of approval of pilot report Within 30 months from date of approval of pilot report Within 60 months from date of approval of pilot report	On-going discussions with EPA regarding the June 21, 2018 Modification Request. Outstanding issues with Control Measure 5 were discussed at meetings with the Agencies on: February 7, 2020; May 8, 2020; May 11, 2020; June 5, 2020; and June 19, 2020. Reached agreement with EPA in principle on the changes to Control Measure 5.	Continue discussions with EPA to reach resolution on the changes to Appendix 1 and Appendix 2 and filing of the Second Amendment to the Consent Decree.

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 Period from January 1, 2020 to June 30, 2020

Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 6	Euclid Creek Tunnel/Dugway Storage System	Bid Year 2010 Achievement of Full Operation 2020	December 31, 2010 December 31, 2020	<p>Euclid Creek Tunnel (ECT): Continued operation.</p> <p>Easterly Tunnel Dewatering Pump Station (ETDPS): Continued operation with both ECT and DST activated.</p> <p>Dugway Storage Tunnel (DST): Continued operation. All tunnel flows are now active.</p> <p>East 140th Street Consolidation and Relief Sewer: Continued construction. All regulator modifications and sewers are completed, sending flow to DST. Commenced final gate operation and startup.</p> <p>London Road Relief Sewer: Continued construction.</p> <p>Submitted Notice of Force Majeure for Control Measure 6 due to the COVID-19 pandemic and Force Majeure notice received from the Contractor. The Force Majeure notice explained that the Contractor is anticipating delays in East 140th St. Consolidation and Relief Sewer and the London Road Relief Sewer due to impacts from the COVID-19 pandemic.</p>	<p>Euclid Creek Tunnel (ECT): Operate tunnel to full capacity following completion of the E140th and London Road projects.</p> <p>Easterly Tunnel Dewatering Pump Station (ETDPS): Continue operation with both ECT and DST activated.</p> <p>Dugway Storage Tunnel (DST): Operate tunnel to near full capacity following completion of the E140th and London Road projects.</p> <p>East 140th Street Consolidation and Relief Sewer: Complete gate installation and startup. Complete final project documentation.</p> <p>London Road Relief Sewer: Activate flow and achieve substantial completion.</p>
Appendix 1 Control Measure 7	Shoreline Tunnel System	Bid Year 2021 Achievement of Full Operation 2027	December 31, 2021 December 31, 2027	<p>Shoreline Storage Tunnel (SST): Continued design.</p> <p>Shoreline Consolidation Sewer (SCS): Continued design.</p>	<p>Shoreline Storage Tunnel (SST): Continue design.</p> <p>Shoreline Consolidation Sewer (SCS): Continue design.</p>

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Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 8	Doan Valley Tunnel System	Bid Year 2017 Achievement of Full Operation 2021	December 31, 2017 December 31, 2021	<p>Doan Valley Tunnel (DVT): Continued construction. MLK tunnel construction complete.</p> <p>The District submitted the following two Force Majeure Notices: (1) Notice of Force Majeure due to the COVID-19 pandemic; and (2) Notice of Force Majeure due to an extreme wet weather and flood event on March 28-29, 2020 that caused the DVT System mining site to flood and caused extensive erosion and water damage to site facilities. Contractors submitted Force Majeure notices to the District for both of the above Force Majeure events.</p> <p>The District continues to work with contractor to mitigate the potential impact of the delay to Milestone achievement.</p> <p>Doan Valley Relief and Consolidation Sewer: Continued construction and activated flow to relief sewer.</p> <p>Doan Valley Regulators/Relief Sewers: Completed design and issued construction Notice to Proceed.</p>	<p>Doan Valley Tunnel: Continue construction.</p> <p>Doan Valley Relief and Consolidation Sewer: Complete construction.</p> <p>Doan Valley Regulators/Relief Sewers: Commence construction.</p>
Appendix 1 Control Measure Consolidated 9-10-11	Superior Avenue Pump Station (SAPS) Upgrade/ Stones Levee Pump Station (SLPS) Upgrade/ SAPS-SLPS- Canal Road Area Regulator Modification	Bid Year 2017 Achievement of Full Operation 2018	December 31, 2017 December 31, 2018	<p>Superior-Stones-Canal CSO Improvements: Continued post construction compliance activities.</p>	<p>Superior-Stones-Canal CSO Improvements: Submit Control Measure Report.</p>
Appendix 1 Control Measure 13	E 55 th Relief Sewer	Bid Year 2031 Achievement of Full Operation 2032	December 31, 2031 December 31, 2032	<p>The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 13. The revised approach would redirect wet weather flow to existing adjacent sewer on E. 65th St. Responded to information requests from US EPA regarding adaptive management modification request.</p>	<p>Continue discussion with EPA regarding Adaptive Management</p>

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Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 14	Westerly Tunnel System	Bid Year 2020 Achievement of Full Operation 2024	December 31, 2020 December 31, 2024	<p>Westerly Tunnel Dewatering Pump Station: Completed bidding process.</p> <p>Westerly Storage Tunnel: Continued construction. Submitted Notice of Force Majeure for Control Measure 14 due to the COVID-19 pandemic and Force Majeure notice received from the Contractor.</p> <p>The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 14. The revised approach replaces a 10 foot diameter conveyance tunnel section with a larger one. Responded to information requests from US EPA regarding adaptive management modification request.</p> <p>Westerly Low Level Relief Sewer: Continued operation and post construction flow monitoring.</p> <p>W. 3rd Quigley/Westerly Miscellaneous CSO Control: Completed re-design of CM 14 portion of project and completed bidding process.</p>	<p>Westerly Tunnel Dewatering Pump Station: Issue construction Notice to Proceed and commence construction.</p> <p>Westerly Storage Tunnel: Continue construction.</p> <p>Westerly Low Level Relief Sewer: Continue post-construction flow monitoring.</p> <p>West 3rd Quigley / Westerly Miscellaneous CSO Control: Issue construction Notice to Proceed and commence construction.</p>
Appendix 1 Control Measure 15	Columbus Road Storage Tank	Bid Year 2018 Achievement of Full Operation 2019	December 31, 2018 December 31, 2019	<p>Began post-construction monitoring activities for CM 15 (CSO-078).</p> <p>The District presented its adaptive management modification request on June 5, 2020. The request would update the text of CM 15 to reflect that the District constructed 0.55 MG of inline storage, rather than 0.49 MG of storage in two separate storage tanks, while achieving the same level of control.</p>	<p>Continue post-construction monitoring activities for CM 15 (CSO-078).</p> <p>Continue discussion with EPA regarding Adaptive Management</p>
Appendix 1 Control Measure 16	Center Street Storage Tank	Bid Year 2023 Achievement of Full Operation 2024	December 31, 2023 December 31, 2024	<p>Began post-construction monitoring activities for CM 16 (CSO-076).</p> <p>The District presented its adaptive management modification request on June 5, 2020. The request would update the text of CM 16 to reflect that the District constructed 0.55 MG of inline storage, rather than 0.49 MG of storage in two separate storage tanks, while achieving the same level of control.</p>	<p>Continue post-construction monitoring activities for CM 16 (CSO-076).</p> <p>Continue discussion with EPA regarding Adaptive Management</p>

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Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 17	West Third Street Storage Tank	Bid Year 2024 Achievement of Full Operation 2025	December 31, 2024 December 31, 2025	Miscellaneous CSO Improvements: Completed design and issued the construction Notice to Proceed. The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 17. The revised approach would involve sewer separation and CSO elimination, and would convert the outfall to stormwater only. Responded to information requests from US EPA regarding adaptive management modification request.	Miscellaneous CSO Improvements: Commence construction. Continue discussion with EPA regarding Adaptive Management
Appendix 1 Control Measure 19	Jefferson Avenue Separation	Bid Year 2027 Achievement of Full Operation 2028	December 31, 2027 December 31, 2028	Construction of Control Measure 19 partially completed under the Mary Street Pump Station Upgrade project (Control Measure 18). Jefferson Avenue Separation: Remaining sewer separation not addressed by Mary Street Pump Station Upgrade project was added to the Morgana & Burke System Improvements project (Control Measure 21) and then moved into a separate project, Miscellaneous CSO Improvements, which completed design and issued the construction Notice to Proceed.	Miscellaneous CSO Improvements: Commence construction.
Appendix 1 Control Measure 20	West 3 rd /Quigley Parallel Storage System	Bid Year 2021 Achievement of Full Operation 2021	December 31, 2021 December 31, 2021	West 3 rd Quigley / Westerly Miscellaneous CSO Control: Design of CM 20 as described in Modification Request submitted June 21, 2018 was completed in the first half of 2019. CM 20 will be achieved through sewer separation and conversion of CSO-089 to a stormwater-only outfall. Bidding process has been completed. The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 20. The revised approach would involve sewer separation and CSO elimination and would convert the outfall to stormwater only. Responded to information requests from US EPA regarding adaptive management modification request.	West 3 rd Quigley / Westerly Miscellaneous CSO Control: Issue construction Notice to Proceed and commence construction. Continue discussion with EPA regarding Adaptive Management

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Table 2: Description of this Reporting Period's Current Work and Next Reporting Period's Projected Work

Reference	Description	Milestone(s) in CD	Calendar Milestone(s)	Current Period Work Summary	Next Period Projected Work
Appendix 1 Control Measure 21	Southerly Tunnel System	Bid Year 2024 Achievement of Full Operation 2030	December 31, 2024 December 31, 2030	Morgana & Burke System Improvements (formerly Morgana Run Relief Sewer): Completed design and commenced bidding process. Burke Open Channel Improvements: Completed design. The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 21. The revised approach would involve retaining the Southerly Interceptor, rather than replacing the Southerly Interceptor. Responded to information requests from US EPA regarding adaptive management modification request.	Morgana Burke System Improvements (formerly Morgana Run Relief Sewers): Issue construction Notice to Proceed and commence construction. Burke Open Channel Improvements: Commence bidding process, issue construction Notice to Proceed, and commence construction. Continue discussion with EPA regarding Adaptive Management
Appendix 1 Control Measure 22	Big Creek Tunnel System	Bid Year 2026 Achievement of Full Operation 2035	December 31, 2026 December 31, 2035	The District presented its adaptive management modification request on June 5, 2020. The modification includes changes to Control Measure 22. The revised approach would involve a 20 foot diameter tunnel with connection to BCI. Responded to information requests from US EPA regarding adaptive management modification request.	Continue discussion with EPA regarding Adaptive Management.
Appendix 1 Control Measure 23	CSO 045 Storage Tank	Bid Year 2021 Achievement of Full Operation 2023	December 31, 2021 December 31, 2023	Pearl & Jennings Road Storage Tanks and Pump Station Upgrades: Continued design.	Pearl & Jennings Road Storage Tanks and Pump Station Upgrades: Continue design.

3. Current Reporting Period Consent Decree Submissions (IX. Paragraph 46.c.)

“A summary of the submissions under this Decree that were sent to U.S. EPA and/or Ohio EPA, including the dates submitted.”

Table 3: Current Reporting Period Consent Decree Submissions

Reference	Deliverable Description	Milestone in CD	Calendar Milestone	Actual Submittal Date
Consent Decree IX Reporting Requirements Paragraph 46	Semi-Annual Report No. 16	On a semi-annual basis on January 31 and July 31, each 6-month period commencing with the first full 6-month period after entry of the Consent Decree	January 31, 2019	January 29, 2019

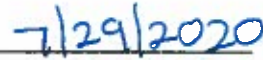
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4. Certification Statement (IX. Paragraph 48)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.



Kyle Dreyfuss-Wells, Chief Executive Officer



Date

Appendix:

Current CSO and Bypass Reports Submitted to OEPA

(IX. Paragraph 46.d.)

“NEORS D shall also submit, with each Semi-Annual Status report, copies (to EPA only) of all monthly monitoring reports, noncompliance reports, and other reports pertaining to CSO discharges and bypasses that NEORS D submitted to or is required to submit to Ohio EPA in the preceding six months.”

CSO Permit eDMR Reports

First Half of 2020

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02	2004968.3						
2020-01-03	1119033						
2020-01-04							
2020-01-05							
2020-01-06	1046036						
2020-01-07	1061676						
2020-01-08	1065043						
2020-01-09	1046042						
2020-01-10	2004968.3						
2020-01-11							
2020-01-12							
2020-01-13	1106089						
2020-01-14	1141895						
2020-01-15	1061676						
2020-01-16	1106089						
2020-01-17	1046042						
2020-01-18							
2020-01-19							
2020-01-20	2004968.3						
2020-01-21	1046036						
2020-01-22	1141895						
2020-01-23	1106089						
2020-01-24	1119033						
2020-01-25							
2020-01-26							
2020-01-27	1046042						
2020-01-28	2004968.3						
2020-01-29	1046036						
2020-01-30	1141895						
2020-01-31	1106089						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1253300.41818						
Count	22						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10						1	0.3059
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18						1	0.0068
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24						1	0.7505
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum						1.0	0.0068
Maximum						1.0	0.7505
Average						1	0.3544
Count						3	3
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-02-11 11:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	056
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10	1	1.0166				
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18	1	2.1947				
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24	1	0.4678				
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum	1.0	0.4678				
Maximum	1.0	2.1947				
Average	1	1.22637				
Count	3	3				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10	1	9.1972				
2020-01-11		0.0068				
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18	1	13.9175				
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum	1.0	0.0068				
Maximum	1.0	13.9175				
Average	1	7.70717				
Count	2	3				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04						1	0.0243
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10						1	3.0109
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18						1	4.6694
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24						1	0.6508
2020-01-25							0.0227
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum						1.0	0.0227
Maximum						1.0	4.6694
Average						1	1.67562
Count						4	5
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-02-11 11:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	088
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10	1	0.0110				
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18	1	0.0254				
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum	1.0	0.011				
Maximum	1.0	0.0254				
Average	1	0.0182				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04						1	0.0429
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10						1	0.7624
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18						1	0.6819
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24						1	0.2184
2020-01-25							0.0847
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum						1.0	0.0429
Maximum						1.0	0.7624
Average						1	0.35806
Count						4	5
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-02-11 11:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10						1	0.0690
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18						1	0.0528
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24						1	0.0896
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum						1.0	0.0528
Maximum						1.0	0.0896
Average						1	0.07047
Count						3	3

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	232
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total Estimate	Total Estimate				
2020-01-01	AH	AH				
2020-01-02	AH	AH				
2020-01-03	AH	AH				
2020-01-04	AH	AH				
2020-01-05	AH	AH				
2020-01-06	AH	AH				
2020-01-07	AH	AH				
2020-01-08	AH	AH				
2020-01-09	AH	AH				
2020-01-10	AH	AH				
2020-01-11	AH	AH				
2020-01-12	AH	AH				
2020-01-13	AH	AH				
2020-01-14	AH	AH				
2020-01-15	AH	AH				
2020-01-16	AH	AH				
2020-01-17	AH	AH				
2020-01-18	AH	AH				
2020-01-19	AH	AH				
2020-01-20	AH	AH				
2020-01-21	AH	AH				
2020-01-22	AH	AH				
2020-01-23	AH	AH				
2020-01-24	AH	AH				
2020-01-25	AH	AH				
2020-01-26	AH	AH				
2020-01-27	AH	AH				
2020-01-28	AH	AH				
2020-01-29	AH	AH				
2020-01-30	AH	AH				
2020-01-31	AH	AH				
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	925691	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-01-01						
2020-01-02						
2020-01-03						
2020-01-04						
2020-01-05						
2020-01-06						
2020-01-07						
2020-01-08						
2020-01-09						
2020-01-10						
2020-01-11						
2020-01-12						
2020-01-13						
2020-01-14						
2020-01-15						
2020-01-16						
2020-01-17						
2020-01-18						
2020-01-19						
2020-01-20						
2020-01-21						
2020-01-22						
2020-01-23						
2020-01-24						
2020-01-25						
2020-01-26						
2020-01-27						
2020-01-28						
2020-01-29						
2020-01-30						
2020-01-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-02-11 11:02

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: **3PA00002*HD**
 LOCATION: 3826 Euclid Ave **MONITORING** 2020-01-01 To: 2020-01-31
 Cleveland, OH 44115 **PERIOD :**

GENERAL REPORT COMMENT:

Sampling required two times per year.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
232	Overflow Occurrence per Year	51709	2020-01-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-01-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

					CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-22	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-23	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-24	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-25	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-26	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-27	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-28	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-29	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-30	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-01-31	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03	2004968.3						
2020-02-04	1046036						
2020-02-05	1061676						
2020-02-06	1106089						
2020-02-07	1065043						
2020-02-08							
2020-02-09							
2020-02-10	1141895						
2020-02-11	1119033						
2020-02-12	2004968.3						
2020-02-13	1046042						
2020-02-14	1061676						
2020-02-15							
2020-02-16							
2020-02-17	1046042						
2020-02-18	1046036						
2020-02-19	1106089						
2020-02-20	1046036						
2020-02-21	2004968.3						
2020-02-22							

2020-02-23							
2020-02-24	1046042						
2020-02-25	1106089						
2020-02-26	1061676						
2020-02-27	2004968.3						
2020-02-28	1106089						
2020-02-29							
Minimum	1046036.0						
Maximum	2004968.3						
Average	1261573.11						
Count	20						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06						1	0.6757
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum						1.0	0.6757
Maximum						1.0	0.6757
Average						1	0.6757
Count						1	1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25								
2020-02-26								
2020-02-27								
2020-02-28								
2020-02-29								
Minimum								
Maximum								
Average								
Count								
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative					Submission Date/Time	
Kevin Zebrowski							2020-03-10 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 933369
 FACILITY: Northeast Ohio Regional SD
 LOCATION: 3826 Euclid Ave
 Cleveland, OH 44115
 COUNTY: Cuyahoga
 DISTRICT: NEDO

STATUS: Original
 PERMIT NUMBER: 3PA00002*HD
 STATION CODE: 056
MONITORING PERIOD : 2020-02-01 To: 2020-02-29
 REPORTING LAB: NEORS
 ANALYST: NEORS
NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05	1	0.0090					
2020-02-06		0.0016					
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10	1	0.3389					
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18	1	0.0578					
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24	1	0.0150				
2020-02-25		0.0639				
2020-02-26						
2020-02-27						
2020-02-28						
2020-02-29						
Minimum	1.0	0.0016				
Maximum	1.0	0.3389				
Average	1	0.08103				
Count	4	6				

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10	1	2.6199					
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum	1.0	2.6199					
Maximum	1.0	2.6199					
Average	1	2.6199					
Count	1	1					

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05						1	0.2340
2020-02-06							0.0276
2020-02-07							
2020-02-08							
2020-02-09						1	0.0116
2020-02-10							0.5592
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18						1	0.2973
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24						1	0.2041
2020-02-25							0.1338
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum						1.0	0.0116
Maximum						1.0	0.5592
Average						1	0.20966
Count						4	7
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 933369
FACILITY: Northeast Ohio Regional SD
LOCATION: 3826 Euclid Ave
 Cleveland, OH 44115
COUNTY: Cuyahoga
DISTRICT: NEDO

STATUS: Original
PERMIT NUMBER: 3PA00002*HD
STATION CODE: 088
MONITORING PERIOD : 2020-02-01 To: 2020-02-29
REPORTING LAB: NEORS
ANALYST: NEORS
NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05	1	0.0001					
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum	1.0	1.0E-4					
Maximum	1.0	1.0E-4					
Average	1	0.0001					
Count	1	1					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05						1	0.0419
2020-02-06							0.0120
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10						1	0.1662
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18						1	0.1200
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24						1	0.0455
2020-02-25							0.0727
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum						1.0	0.012
Maximum						1.0	0.1662
Average						1	0.07638
Count						4	6
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25								
2020-02-26								
2020-02-27								
2020-02-28								
2020-02-29								
Minimum								
Maximum								
Average								
Count								
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative					Submission Date/Time	
Kevin Zebrowski							2020-03-10 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25								
2020-02-26								
2020-02-27								
2020-02-28								
2020-02-29								
Minimum								
Maximum								
Average								
Count								
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative					Submission Date/Time	
Kevin Zebrowski							2020-03-10 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 933369
FACILITY: Northeast Ohio Regional SD
LOCATION: 3826 Euclid Ave
 Cleveland, OH 44115
COUNTY: Cuyahoga
DISTRICT: NEDO

STATUS: Original
PERMIT NUMBER: 3PA00002*HD
STATION CODE: 232
MONITORING PERIOD : 2020-02-01 To: 2020-02-29
REPORTING LAB: NEORS
ANALYST: NEORS
NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume					
PARAMETER CODE	51709	74063					
UNITS	No./Year	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total Estimate	Total Estimate					
2020-02-01	AH	AH					
2020-02-02	AH	AH					
2020-02-03	AH	AH					
2020-02-04	AH	AH					
2020-02-05	AH	AH					
2020-02-06	AH	AH					
2020-02-07	AH	AH					
2020-02-08	AH	AH					
2020-02-09	AH	AH					
2020-02-10	AH	AH					
2020-02-11	AH	AH					
2020-02-12	AH	AH					
2020-02-13	AH	AH					
2020-02-14	AH	AH					
2020-02-15	AH	AH					
2020-02-16	AH	AH					
2020-02-17	AH	AH					
2020-02-18	AH	AH					
2020-02-19	AH	AH					
2020-02-20	AH	AH					
2020-02-21	AH	AH					
2020-02-22	AH	AH					
2020-02-23	AH	AH					

2020-02-24	AH	AH					
2020-02-25	AH	AH					
2020-02-26	AH	AH					
2020-02-27	AH	AH					
2020-02-28	AH	AH					
2020-02-29	AH	AH					
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24								
2020-02-25								
2020-02-26								
2020-02-27								
2020-02-28								
2020-02-29								
Minimum								
Maximum								
Average								
Count								
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative					Submission Date/Time	
Kevin Zebrowski							2020-03-10 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							

2020-02-25								
2020-02-26								
2020-02-27								
2020-02-28								
2020-02-29								
Minimum								
Maximum								
Average								
Count								
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative					Submission Date/Time	
Kevin Zebrowski							2020-03-10 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	933369	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume					
PARAMETER CODE	74062	74063					
UNITS	No./Month	Million Gallons					
FREQUENCY	When Disch.	When Disch.					
SAMPLING TYPE	Total	24hr Total					
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							

2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-03-10 13:03

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	<i>3PA00002*HD</i>
LOCATION:	3826 Euclid Ave	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
	Cleveland, OH 44115		

GENERAL REPORT COMMENT:

Sampling required two times per year.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
232	Overflow Occurrence per Year	51709	2020-02-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232		51709	2020-02-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began

	Overflow Occurrence per Year				1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-14	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-15	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232		51709		No./Year	

	Overflow Occurrence per Year		2020-02-16		CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-17	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-18	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-19	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-20	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-21	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-22	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-23	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-24	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-25	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-26	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	Overflow Occurrence per Year	51709	2020-02-27	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-28	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-02-29	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-01	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-02	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-03	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-04	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-05	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-06	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-07	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-08	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	Overflow Volume	74063	2020-02-09	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-10	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-11	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-12	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-13	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-14	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-15	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-16	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-17	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-18	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-19	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	Overflow Volume	74063	2020-02-20	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-21	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-22	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-23	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-24	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-25	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-26	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-27	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-28	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-02-29	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02	1046036						
2020-03-03	1106089						
2020-03-04	1141895						
2020-03-05	1061676						
2020-03-06	1065043						
2020-03-07							
2020-03-08							
2020-03-09	1115896						
2020-03-10	1046042						
2020-03-11	1141895						
2020-03-12	1106089						
2020-03-13	1119033						
2020-03-14							
2020-03-15							
2020-03-16	1061676						
2020-03-17	1046036						
2020-03-18	1065043						
2020-03-19	1106089						
2020-03-20	1046042						
2020-03-21							
2020-03-22							
2020-03-23	1141895						
2020-03-24	1119033						
2020-03-25	1046042						
2020-03-26	1119033						
2020-03-27	1141895						
2020-03-28							
2020-03-29							
2020-03-30	1065043						
2020-03-31	1061676						
Minimum	1046036.0						
Maximum	1141895.0						
Average	1089508.95455						
Count	22						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-03-01</u> To: <u>2020-03-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28						
2020-03-29	1	0.9636				
2020-03-30						
2020-03-31						
Minimum	1.0	0.9636				
Maximum	1.0	0.9636				
Average	1	0.9636				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-03-01</u> To: <u>2020-03-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	0.0554				
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	0.3263				
2020-03-29	1	AD				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0554				
Maximum	1.0	0.3263				
Average	1	0.19085				
Count	3	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28						
2020-03-29						
2020-03-30						
2020-03-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03	715	1.284	9.752	0.356	1.783	1	0.8415
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10						1	0.1132
2020-03-11							
2020-03-12							
2020-03-13						1	0.3985
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	5.2202
2020-03-19							0.1219
2020-03-20						1	0.0801
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28						1	5.7680
2020-03-29							AD
2020-03-30							
2020-03-31							
Minimum	715.0	1.284	9.752	0.356	1.783	1.0	0.0801
Maximum	715.0	1.284	9.752	0.356	1.783	1.0	5.768
Average	715	1.284	9.752	0.356	1.783	1	1.79191
Count	1	1	1	1	1	6	7
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03	51.6						
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum	51.6						
Maximum	51.6						
Average	51.6						
Count	1						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	0.0143				
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	0.0874				
2020-03-29	1	0.2656				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0143				
Maximum	1.0	0.2656				
Average	1	0.12243				
Count	3	3				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	AF				
2020-03-19		AF				
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	AF				
2020-03-29		AF				
2020-03-30		AF				
2020-03-31						
Minimum	1.0					
Maximum	1.0					
Average	1					
Count	2					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	056
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03	1	0.6355				
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10	1	0.3226				
2020-03-11						
2020-03-12						
2020-03-13	1	0.9279				
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	4.3189				
2020-03-19		1.6956				
2020-03-20		2.6363				
2020-03-21						
2020-03-22	1	0.0811				
2020-03-23		0.0085				
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27	1	0.5493				
2020-03-28	1	9.6312				
2020-03-29		9.7189				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0085				
Maximum	1.0	9.7189				
Average	1	2.77507				
Count	7	11				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03	1	3.9862				
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13	1	2.9788				
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	21.0162				
2020-03-19		2.8037				
2020-03-20	1	7.8831				
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	37.2300				
2020-03-29		44.2688				
2020-03-30						
2020-03-31						
Minimum	1.0	2.8037				
Maximum	1.0	44.2688				
Average	1	17.16669				
Count	5	7				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-03-01</u> To: <u>2020-03-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	0.0469				
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	0.6031				
2020-03-29	1	2.8637				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0469				
Maximum	1.0	2.8637				
Average	1	1.17123				
Count	3	3				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28						
2020-03-29	1	0.5468				
2020-03-30						
2020-03-31						
Minimum	1.0	0.5468				
Maximum	1.0	0.5468				
Average	1	0.5468				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	0.0264				
2020-03-29	1	1.0831				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0264				
Maximum	1.0	1.0831				
Average	1	0.55475				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03	1060	3.512	17.3	0.364	3.586	1	2.2175
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10						1	0.7655
2020-03-11							
2020-03-12							
2020-03-13						1	2.3350
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	13.0439
2020-03-19							0.3523
2020-03-20							3.3496
2020-03-21							
2020-03-22						1	0.1253
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27						1	0.6604
2020-03-28						1	12.6538
2020-03-29							AD
2020-03-30							
2020-03-31							
Minimum	1060.0	3.512	17.3	0.364	3.586	1.0	0.1253
Maximum	1060.0	3.512	17.3	0.364	3.586	1.0	13.0439
Average	1060	3.512	17.3	0.364	3.586	1	3.94481
Count	1	1	1	1	1	7	9
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03	108						
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum	108.0						
Maximum	108.0						
Average	108						
Count	1						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 942842 STATUS: Original
 FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave STATION CODE: 088
 Cleveland, OH 44115 MONITORING PERIOD : 2020-03-01 To: 2020-03-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSR
 DISTRICT: NEDO ANALYST: NEORSR
NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03	1	0.0297				
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10	1	0.0105				
2020-03-11						
2020-03-12						
2020-03-13	1	0.0365				
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18	1	0.2521				
2020-03-19						
2020-03-20	1	0.0366				
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	0.7085				
2020-03-29	1	1.7288				
2020-03-30						
2020-03-31						
Minimum	1.0	0.0105				
Maximum	1.0	1.7288				
Average	1	0.40039				
Count	7	7				

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03						1	0.2828
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10						1	0.1810
2020-03-11							
2020-03-12							
2020-03-13						1	0.3121
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	2.0536
2020-03-19							0.0604
2020-03-20							0.5682
2020-03-21							
2020-03-22						1	0.0367
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26						1	0.0518
2020-03-27							0.1586
2020-03-28						1	2.9914
2020-03-29						1	6.2099
2020-03-30							
2020-03-31							
Minimum						1.0	0.0367
Maximum						1.0	6.2099
Average						1	1.17332
Count						8	11
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-04-15 16:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10						1	0.0155
2020-03-11							
2020-03-12							
2020-03-13						1	0.0247
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	0.0482
2020-03-19							
2020-03-20						1	0.4043
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28						1	1.7760
2020-03-29						1	6.1235
2020-03-30							
2020-03-31							
Minimum						1.0	0.0155
Maximum						1.0	6.1235
Average						1	1.3987
Count						6	6
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-04-15 16:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	0.7515
2020-03-19							0.0330
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum						1.0	0.033
Maximum						1.0	0.7515
Average						1	0.39225
Count						1	2
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-04-15 16:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28	1	1.3109				
2020-03-29	1	9.9206				
2020-03-30						
2020-03-31						
Minimum	1.0	1.3109				
Maximum	1.0	9.9206				
Average	1	5.61575				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13						1	0.0128
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18						1	0.1731
2020-03-19							
2020-03-20						1	0.0307
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28						1	0.1823
2020-03-29						1	0.5586
2020-03-30							
2020-03-31							
Minimum						1.0	0.0128
Maximum						1.0	0.5586
Average						1	0.1915
Count						5	5
Name of Responsible Official or Authorized Representative		I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	232
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total Estimate	Total Estimate				
2020-03-01	AH	AH				
2020-03-02	AH	AH				
2020-03-03	AH	AH				
2020-03-04	AH	AH				
2020-03-05	AH	AH				
2020-03-06	AH	AH				
2020-03-07	AH	AH				
2020-03-08	AH	AH				
2020-03-09	AH	AH				
2020-03-10	AH	AH				
2020-03-11	AH	AH				
2020-03-12	AH	AH				
2020-03-13	AH	AH				
2020-03-14	AH	AH				
2020-03-15	AH	AH				
2020-03-16	AH	AH				
2020-03-17	AH	AH				
2020-03-18	AH	AH				
2020-03-19	AH	AH				
2020-03-20	AH	AH				
2020-03-21	AH	AH				
2020-03-22	AH	AH				
2020-03-23	AH	AH				
2020-03-24	AH	AH				
2020-03-25	AH	AH				
2020-03-26	AH	AH				
2020-03-27	AH	AH				
2020-03-28	AH	AH				
2020-03-29	AH	AH				
2020-03-30	AH	AH				
2020-03-31	AH	AH				
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	Overflow Occurrence	Overflow Volume
PARAMETER CODE	00530	00610	00625	00630	00665	74062	74063
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	No./Month	Million Gallons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Total	24hr Total
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	CBOD 5 day						
PARAMETER CODE	80082						
UNITS	mg/l						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28						
2020-03-29						
2020-03-30						
2020-03-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942842	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-03-01						
2020-03-02						
2020-03-03						
2020-03-04						
2020-03-05						
2020-03-06						
2020-03-07						
2020-03-08						
2020-03-09						
2020-03-10						
2020-03-11						
2020-03-12						
2020-03-13						
2020-03-14						
2020-03-15						
2020-03-16						
2020-03-17						
2020-03-18						
2020-03-19						
2020-03-20						
2020-03-21						
2020-03-22						
2020-03-23						
2020-03-24						
2020-03-25						
2020-03-26						
2020-03-27						
2020-03-28						
2020-03-29	1	29.0950				
2020-03-30						
2020-03-31						
Minimum	1.0	29.095				
Maximum	1.0	29.095				
Average	1	29.095				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-04-15 16:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave MONITORING 2020-03-01 To: 2020-03-31
 Cleveland, OH 44115 PERIOD :

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
035	Overflow Volume	74063	2020-03-29	Million Gallons	During a large storm event, the ultrasonic level monitor was out of service due to being submerged. The Overflow Occurrence was confirmed, but the estimated overflow volume cannot be calculated.
040	Overflow Volume	74063	2020-03-29	Million Gallons	There are two weirs (SO-08 and SO-08A) and two bubblers at this location. Both bubblers indicate an overflow. However, the Overflow Volume cannot be estimated because the bubbler for SO-08 was out of service for part of the major rain event. Bubbler for SO-08 was returned to operation on 03/30/20.
045	Overflow Volume	74063	2020-03-18	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-03-19	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-03-28	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-03-29	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-03-30	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
080	Overflow Volume	74063	2020-03-29	Million Gallons	During a large storm event, the ultrasonic level monitor was out of service for a period of time. The overflow was confirmed, but the estimated overflow volume cannot be calculated. The monitor returned to operation during the overflow event.
232	Overflow Occurrence per Year	51709	2020-03-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-03-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232		51709		No./Year	

232	Overflow Volume	74063	2020-03-23	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-24	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-25	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-26	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-27	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-28	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-29	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-30	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-03-31	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-04-01</u> To: <u>2020-04-30</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-04-01	1061676						
2020-04-02	2004968.3						
2020-04-03	1065043						
2020-04-04							
2020-04-05							
2020-04-06	1046036						
2020-04-07	1106089						
2020-04-08	1137271						
2020-04-09	1115896						
2020-04-10	1046036						
2020-04-11							
2020-04-12							
2020-04-13	1119033						
2020-04-14	1147555						
2020-04-15	1046042						
2020-04-16	1141895						
2020-04-17	1119033						
2020-04-18							
2020-04-19							
2020-04-20	1065043						
2020-04-21	2004968.3						
2020-04-22	1061676						
2020-04-23	2004968.3						
2020-04-24	1065043						
2020-04-25							
2020-04-26							
2020-04-27	1115896						
2020-04-28	1046036						
2020-04-29	1106089						
2020-04-30	1137271						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1216525.63182						
Count	22						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.3377				
2020-04-08		0.2400				
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21	AH	AH				
2020-04-22	AH	AH				
2020-04-23	AH	AH				
2020-04-24	AH	AH				
2020-04-25	AH	AH				
2020-04-26	AH	AH				
2020-04-27	AH	AH				
2020-04-28	AH	AH				
2020-04-29	AH	AH				
2020-04-30	AH	AH				
Minimum	1.0	0.24				
Maximum	1.0	0.3377				
Average	1	0.28885				
Count	1	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							1
2020-04-08							
2020-04-09							1
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							1
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							1
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							1
Minimum							1.0
Maximum							1.0
Average							1
Count							5
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1.0268					
2020-04-08	3.5239					
2020-04-09	0.0152					
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13	0.3020					
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	0.1414					
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30	0.0179					
Minimum	0.0152					
Maximum	3.5239					
Average	0.83787					
Count	6					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.0286				
2020-04-08		0.0765				
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	0.0286				
Maximum	1.0	0.0765				
Average	1	0.05255				
Count	1	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.3036				
2020-04-08		AF				
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	0.3036				
Maximum	1.0	0.3036				
Average	1	0.3036				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	056
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.6960				
2020-04-08		4.5699				
2020-04-09	1	0.9246				
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13	1	0.0821				
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17	1	0.3035				
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	1	1.1522				
2020-04-27						
2020-04-28	1	0.1717				
2020-04-29						
2020-04-30						
Minimum	1.0	0.0821				
Maximum	1.0	4.5699				
Average	1	1.12857				
Count	6	7				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	1.8845				
2020-04-08		13.2388				
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	1	2.9989				
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	1.8845				
Maximum	1.0	13.2388				
Average	1	6.04073				
Count	2	3				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.2398				
2020-04-08		0.1314				
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	0.1314				
Maximum	1.0	0.2398				
Average	1	0.1856				
Count	1	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-04-01</u> To: <u>2020-04-30</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.1106				
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	0.1106				
Maximum	1.0	0.1106				
Average	1	0.1106				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							1
2020-04-08							
2020-04-09							1
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							1
2020-04-14							
2020-04-15							1
2020-04-16							
2020-04-17							1
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							1
2020-04-27							
2020-04-28							1
2020-04-29							
2020-04-30							
Minimum							1.0
Maximum							1.0
Average							1
Count							7
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1.1142					
2020-04-08	8.8083					
2020-04-09	1.1015					
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13	0.0148					
2020-04-14						
2020-04-15	0.0017					
2020-04-16						
2020-04-17	0.1380					
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	3.6188					
2020-04-27						
2020-04-28	0.0115					
2020-04-29						
2020-04-30						
Minimum	0.0017					
Maximum	8.8083					
Average	1.8511					
Count	8					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	088
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	1	0.4563				
2020-04-08		0.2375				
2020-04-09	1	0.0039				
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19	1	0.0031				
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	1	0.0291				
2020-04-27						
2020-04-28	1	0.0051				
2020-04-29						
2020-04-30						
Minimum	1.0	0.0031				
Maximum	1.0	0.4563				
Average	1	0.1225				
Count	5	6				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							1
2020-04-08							
2020-04-09							1
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							1
2020-04-14							
2020-04-15							1
2020-04-16							
2020-04-17							1
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							1
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							1
2020-04-27							
2020-04-28							
2020-04-29							1
2020-04-30							1
Minimum							1.0
Maximum							1.0
Average							1
Count							9
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	0.3403					
2020-04-08	2.1411					
2020-04-09	0.2005					
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13	0.0450					
2020-04-14						
2020-04-15	0.0555					
2020-04-16						
2020-04-17	0.0168					
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21	0.0364					
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26	0.3821					
2020-04-27						
2020-04-28						
2020-04-29	0.0012					
2020-04-30	0.1401					
Minimum	0.0012					
Maximum	2.1411					
Average	0.3359					
Count	10					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 951603 STATUS: Original
 FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave STATION CODE: 202
 Cleveland, OH 44115 MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSR
 DISTRICT: NEDO ANALYST: NEORSR

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							1
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							1
Minimum							1.0
Maximum							1.0
Average							1
Count							2
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07	0.0604					
2020-04-08	1.6271					
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30	0.1351					
Minimum	0.0604					
Maximum	1.6271					
Average	0.60753					
Count	3					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09	1	0.0005				
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum	1.0	5.0E-4				
Maximum	1.0	5.0E-4				
Average	1	0.0005				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	232
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total Estimate	Total Estimate				
2020-04-01	AH	AH				
2020-04-02	AH	AH				
2020-04-03	AH	AH				
2020-04-04	AH	AH				
2020-04-05	AH	AH				
2020-04-06	AH	AH				
2020-04-07	AH	AH				
2020-04-08	AH	AH				
2020-04-09	AH	AH				
2020-04-10	AH	AH				
2020-04-11	AH	AH				
2020-04-12	AH	AH				
2020-04-13	AH	AH				
2020-04-14	AH	AH				
2020-04-15	AH	AH				
2020-04-16	AH	AH				
2020-04-17	AH	AH				
2020-04-18	AH	AH				
2020-04-19	AH	AH				
2020-04-20	AH	AH				
2020-04-21	AH	AH				
2020-04-22	AH	AH				
2020-04-23	AH	AH				
2020-04-24	AH	AH				
2020-04-25	AH	AH				
2020-04-26	AH	AH				
2020-04-27	AH	AH				
2020-04-28	AH	AH				
2020-04-29	AH	AH				
2020-04-30	AH	AH				
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-05-19 10:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	951603	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-04-01						
2020-04-02						
2020-04-03						
2020-04-04						
2020-04-05						
2020-04-06						
2020-04-07						
2020-04-08						
2020-04-09						
2020-04-10						
2020-04-11						
2020-04-12						
2020-04-13						
2020-04-14						
2020-04-15						
2020-04-16						
2020-04-17						
2020-04-18						
2020-04-19						
2020-04-20						
2020-04-21						
2020-04-22						
2020-04-23						
2020-04-24						
2020-04-25						
2020-04-26						
2020-04-27						
2020-04-28						
2020-04-29						
2020-04-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-05-19 10:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 Cleveland, OH 44115

GENERAL REPORT COMMENT: Sampling required two times per year.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
035	Overflow Occurrence	74062	2020-04-21	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-22	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-23	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-24	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-25	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-26	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-27	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-28	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-29	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-04-30	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-21	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-22	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-23	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.

035	Overflow Volume	74063	2020-04-24	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-25	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-26	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-27	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-28	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-29	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-04-30	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
045	Overflow Volume	74063	2020-04-08	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
232	Overflow Occurrence per Year	51709	2020-04-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-04-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

			2020-04-30	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-05-01</u> To: <u>2020-05-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-05-01	1046036						
2020-05-02							
2020-05-03							
2020-05-04	1119033						
2020-05-05	1115896						
2020-05-06	1141895						
2020-05-07	1046042						
2020-05-08	1046036						
2020-05-09							
2020-05-10							
2020-05-11	1061676						
2020-05-12	1106089						
2020-05-13	2004968.3						
2020-05-14	1137271						
2020-05-15	1065043						
2020-05-16							
2020-05-17							
2020-05-18	1147555						
2020-05-19	1046042						
2020-05-20	1046036						
2020-05-21	1115896						
2020-05-22	1141895						
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26	1061676						
2020-05-27	2004968.3						
2020-05-28	1065043						
2020-05-29	1106089						
2020-05-30	1061676						
2020-05-31							
Minimum	1046036.0						
Maximum	2004968.3						
Average	1175564.8381						
Count	21						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	0.1882				
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	0.1882				
Maximum	1.0	0.1882				
Average	1	0.1882				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01	AH	AH				
2020-05-02	AH	AH				
2020-05-03	AH	AH				
2020-05-04	AH	AH				
2020-05-05	AH	AH				
2020-05-06	AH	AH				
2020-05-07	AH	AH				
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14	1	0.0459				
2020-05-15	1	AD				
2020-05-16						
2020-05-17	1	0.1675				
2020-05-18	1	0.2449				
2020-05-19		0.0199				
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	1	0.0257				
2020-05-30						
2020-05-31						
Minimum	1.0	0.0199				
Maximum	1.0	0.2449				
Average	1	0.10078				
Count	5	5				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15						
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							1
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							1
2020-05-15							1
2020-05-16							
2020-05-17							1
2020-05-18							1
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							1
2020-05-23							
2020-05-24							
2020-05-25							1
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							1
2020-05-30							
2020-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							8
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	0.1133					
2020-05-11	0.0014					
2020-05-12						
2020-05-13						
2020-05-14	1.7744					
2020-05-15	20.4764					
2020-05-16						
2020-05-17	2.3353					
2020-05-18	1.7338					
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22	1.3025					
2020-05-23						
2020-05-24						
2020-05-25	0.1078					
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	1.2437					
2020-05-30						
2020-05-31						
Minimum	0.0014					
Maximum	20.4764					
Average	3.23207					
Count	9					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	0.2702				
2020-05-16						
2020-05-17	1	0.0214				
2020-05-18	1	0.0523				
2020-05-19		0.0043				
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	0.0043				
Maximum	1.0	0.2702				
Average	1	0.08705				
Count	3	4				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	AF				
2020-05-16		AF				
2020-05-17	AD	AD				
2020-05-18	1	AF				
2020-05-19		AF				
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0					
Maximum	1.0					
Average	1					
Count	2					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	056
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	1	0.5662				
2020-05-11		0.8382				
2020-05-12						
2020-05-13						
2020-05-14	1	1.9736				
2020-05-15		8.8074				
2020-05-16		3.5896				
2020-05-17	1	4.1971				
2020-05-18		12.1595				
2020-05-19		10.2037				
2020-05-20						
2020-05-21						
2020-05-22	1	1.1656				
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	1	1.0508				
2020-05-30						
2020-05-31						
Minimum	1.0	0.5662				
Maximum	1.0	12.1595				
Average	1	4.45517				
Count	5	10				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	1	0.6966				
2020-05-11		0.0149				
2020-05-12						
2020-05-13						
2020-05-14	1	4.2380				
2020-05-15	1	62.4014				
2020-05-16		0.0496				
2020-05-17	1	5.6737				
2020-05-18	1	43.8935				
2020-05-19		26.0484				
2020-05-20						
2020-05-21						
2020-05-22	1	3.1164				
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	1	4.7217				
2020-05-30						
2020-05-31						
Minimum	1.0	0.0149				
Maximum	1.0	62.4014				
Average	1	15.08542				
Count	7	10				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14	1	0.0985				
2020-05-15	1	2.8536				
2020-05-16						
2020-05-17	1	0.2258				
2020-05-18	1	0.1747				
2020-05-19		0.0769				
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	0.0769				
Maximum	1.0	2.8536				
Average	1	0.6859				
Count	4	5				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15						
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	0.4569				
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	0.4569				
Maximum	1.0	0.4569				
Average	1	0.4569				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							1
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							1
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							1
2020-05-15							
2020-05-16							
2020-05-17							1
2020-05-18							1
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22	79.3	0.556	2.722	0.788	0.457	227650	1
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							1
2020-05-29							1
2020-05-30							
2020-05-31							
Minimum	79.3	0.556	2.722	0.788	0.457	227650.0	1.0
Maximum	79.3	0.556	2.722	0.788	0.457	227650.0	1.0
Average	79.3	0.556	2.722	0.788	0.457	227650	1
Count	1	1	1	1	1	1	8
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02	0.0001					
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	1.8852					
2020-05-11	1.0146					
2020-05-12						
2020-05-13						
2020-05-14	4.2968					
2020-05-15	17.4376					
2020-05-16						
2020-05-17	3.7988					
2020-05-18	14.7136					
2020-05-19	4.9831					
2020-05-20						
2020-05-21						
2020-05-22	3.9314	14.7				
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28	0.1305					
2020-05-29	5.1534					
2020-05-30						
2020-05-31						
Minimum	1.0E-4	14.7				
Maximum	17.4376	14.7				
Average	5.21319	14.7				
Count	11	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	088
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	1	AD				
2020-05-11		0.0073				
2020-05-12						
2020-05-13						
2020-05-14	1	AD				
2020-05-15	1	AD				
2020-05-16						
2020-05-17	1	0.2174				
2020-05-18	1	AD				
2020-05-19		0.1438				
2020-05-20						
2020-05-21						
2020-05-22	1	0.0934				
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	1	0.0984				
2020-05-30						
2020-05-31						
Minimum	1.0	0.0073				
Maximum	1.0	0.2174				
Average	1	0.11206				
Count	7	5				

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Kevin Zebrowski			2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							1
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							1
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							1
2020-05-15							
2020-05-16							
2020-05-17							1
2020-05-18							1
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22	60	0.522	2.129	0.181	0.338	185600	1
2020-05-23							
2020-05-24							
2020-05-25							1
2020-05-26							
2020-05-27							
2020-05-28							1
2020-05-29							1
2020-05-30							
2020-05-31							
Minimum	60.0	0.522	2.129	0.181	0.338	185600.0	1.0
Maximum	60.0	0.522	2.129	0.181	0.338	185600.0	1.0
Average	60	0.522	2.129	0.181	0.338	185600	1
Count	1	1	1	1	1	1	9
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02	0.0723					
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10	0.3241					
2020-05-11	0.1108					
2020-05-12						
2020-05-13						
2020-05-14	0.9569					
2020-05-15	5.5037					
2020-05-16						
2020-05-17	1.5768					
2020-05-18	2.8639					
2020-05-19	0.9967					
2020-05-20						
2020-05-21						
2020-05-22	0.6832	11.4				
2020-05-23						
2020-05-24						
2020-05-25	0.9806					
2020-05-26						
2020-05-27						
2020-05-28	0.1171					
2020-05-29	1.1127					
2020-05-30						
2020-05-31						
Minimum	0.0723	11.4				
Maximum	5.5037	11.4				
Average	1.2749	11.4				
Count	12	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							1
2020-05-15							
2020-05-16							
2020-05-17							1
2020-05-18							1
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							1
2020-05-23							
2020-05-24							
2020-05-25							1
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							1
2020-05-30							
2020-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							6
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14	0.7094					
2020-05-15	3.7245					
2020-05-16						
2020-05-17	0.8306					
2020-05-18	0.6577					
2020-05-19	0.0686					
2020-05-20						
2020-05-21						
2020-05-22	0.0132					
2020-05-23						
2020-05-24						
2020-05-25	0.2087					
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29	0.4002					
2020-05-30						
2020-05-31						
Minimum	0.0132					
Maximum	3.7245					
Average	0.82661					
Count	8					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15							
2020-05-16							
2020-05-17							
2020-05-18							
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15						
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	3.0215				
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	3.0215				
Maximum	1.0	3.0215				
Average	1	3.0215				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15							1
2020-05-16							
2020-05-17							
2020-05-18							
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum							1.0
Maximum							1.0
Average							1
Count							1
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	0.0674					
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	0.0674					
Maximum	0.0674					
Average	0.0674					
Count	1					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	232
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total Estimate	Total Estimate				
2020-05-01	AH	AH				
2020-05-02	AH	AH				
2020-05-03	AH	AH				
2020-05-04	AH	AH				
2020-05-05	AH	AH				
2020-05-06	AH	AH				
2020-05-07	AH	AH				
2020-05-08	AH	AH				
2020-05-09	AH	AH				
2020-05-10	AH	AH				
2020-05-11	AH	AH				
2020-05-12	AH	AH				
2020-05-13	AH	AH				
2020-05-14	AH	AH				
2020-05-15	AH	AH				
2020-05-16	AH	AH				
2020-05-17	AH	AH				
2020-05-18	AH	AH				
2020-05-19	AH	AH				
2020-05-20	AH	AH				
2020-05-21	AH	AH				
2020-05-22	AH	AH				
2020-05-23	AH	AH				
2020-05-24	AH	AH				
2020-05-25	AH	AH				
2020-05-26	AH	AH				
2020-05-27	AH	AH				
2020-05-28	AH	AH				
2020-05-29	AH	AH				
2020-05-30	AH	AH				
2020-05-31	AH	AH				
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15							
2020-05-16							
2020-05-17							
2020-05-18							
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15						
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15						
2020-05-16						
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958402	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	2020-05-01 To: 2020-05-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-05-01						
2020-05-02						
2020-05-03						
2020-05-04						
2020-05-05						
2020-05-06						
2020-05-07						
2020-05-08						
2020-05-09						
2020-05-10						
2020-05-11						
2020-05-12						
2020-05-13						
2020-05-14						
2020-05-15	1	24.1093				
2020-05-16		0.4025				
2020-05-17						
2020-05-18						
2020-05-19						
2020-05-20						
2020-05-21						
2020-05-22						
2020-05-23						
2020-05-24						
2020-05-25						
2020-05-26						
2020-05-27						
2020-05-28						
2020-05-29						
2020-05-30						
2020-05-31						
Minimum	1.0	0.4025				
Maximum	1.0	24.1093				
Average	1	12.2559				
Count	1	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-06-15 13:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave MONITORING 2020-05-01 To: 2020-05-31
 Cleveland, OH 44115 PERIOD :

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
035	Overflow Occurrence	74062	2020-05-01	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-02	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-03	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-04	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-05	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-06	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Occurrence	74062	2020-05-07	No./Month	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-01	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-02	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-03	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-04	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-05	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-06	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-07	Million Gallons	Monitoring equipment temporarily removed from regulator S-75 due to construction to repair a manhole barrel that was damaged by a non-District construction project.
035	Overflow Volume	74063	2020-05-15	Million Gallons	During a storm event, the meter stopped reporting reliable data. The overflow occurrence was confirmed, but the overflow volume cannot be calculated. Preventative maintenance was performed on the instrumentation after the storm event.

045	Overflow Occurrence	74062	2020-05-17	No./Month	Overflow data is not available at this site because of instrumentation malfunction on 05/15/20. Crew was dispatched to site and restored equipment to service on 05/19/20.
045	Overflow Volume	74063	2020-05-15	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-05-16	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-05-17	Million Gallons	Overflow data is not available at this site because of instrumentation malfunction on 05/15/20. Crew was dispatched to site and restored equipment to service on 05/19/20.
045	Overflow Volume	74063	2020-05-18	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
045	Overflow Volume	74063	2020-05-19	Million Gallons	A storm event caused Big Creek to back up into combined sewer outlet rendering the data unusable.
088	Overflow Volume	74063	2020-05-10	Million Gallons	During a storm event the upstream level monitor recorded an overflow occurrence. However, the downstream flow meter stopped recording a velocity reading so we are not able to calculate a total estimated overflow volume.
088	Overflow Volume	74063	2020-05-14	Million Gallons	During a storm event the upstream level monitor recorded an overflow occurrence. However, the downstream flow meter stopped recording a velocity reading so we are not able to calculate a total estimated overflow volume.
088	Overflow Volume	74063	2020-05-15	Million Gallons	During a storm event the upstream level monitor recorded an overflow occurrence. However, the downstream flow meter stopped recording a velocity reading so we are not able to calculate a total estimated overflow volume.
088	Overflow Volume	74063	2020-05-18	Million Gallons	During a storm event the upstream level monitor recorded an overflow occurrence. However, the downstream flow meter stopped recording a velocity reading so we are not able to calculate a total estimated overflow volume.
232	Overflow Occurrence per Year	51709	2020-05-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-05-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232		51709	2020-05-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

232	Overflow Volume	74063	2020-05-24	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-25	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-26	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-27	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-28	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-29	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-30	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Volume	74063	2020-05-31	Million Gallons	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	007
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-06-01</u> To: <u>2020-06-30</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Collection System Visit Core Person ID						
PARAMETER CODE	79859						
UNITS	Number						
FREQUENCY	When Disch.						
SAMPLING TYPE	Grab						
2020-06-01	1046042						
2020-06-02	1141895						
2020-06-03	1046036						
2020-06-04	1106089						
2020-06-05	1119033						
2020-06-06							
2020-06-07							
2020-06-08	1137271						
2020-06-09	1115896						
2020-06-10	1065043						
2020-06-11	1046036						
2020-06-12	1115896						
2020-06-13							
2020-06-14							
2020-06-15	1147555						
2020-06-16	1106089						
2020-06-17	2004968.3						
2020-06-18	1141895						
2020-06-19	1137271						
2020-06-20							
2020-06-21							
2020-06-22	1046042						
2020-06-23	1147555						
2020-06-24	1106089						
2020-06-25	2004968.3						
2020-06-26	1061676						
2020-06-27							
2020-06-28							
2020-06-29	1119033						
2020-06-30	1115896						
Minimum	1046036.0						
Maximum	2004968.3						
Average	1185376.11818						
Count	22						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski							2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	025
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	035
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	AD				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	1	0.1076				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	1	0.3890				
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.1076				
Maximum	1.0	0.389				
Average	1	0.2483				
Count	3	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	038
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							1
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							1
2020-06-23							1
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							1
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							1.0
Maximum							1.0
Average							1
Count							4
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-07-08 12:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	040
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	0.9970					
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	0.5843					
2020-06-23	1.1233					
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	2.5717					
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	0.5843					
Maximum	2.5717					
Average	1.31908					
Count	4					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	044
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	1	0.0010				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.001				
Maximum	1.0	0.001				
Average	1	0.001				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	045
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	0.2167				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	1	0.1052				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.1052				
Maximum	1.0	0.2167				
Average	1	0.16095				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	056
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	0.7754				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18	1	0.0642				
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	1	0.1894				
2020-06-23	1	1.3459				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	1	0.6513				
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.0642				
Maximum	1.0	1.3459				
Average	1	0.60524				
Count	5	5				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	058
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	2.9669				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18	1	7.2358				
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	1	1.6851				
2020-06-23	1	8.6039				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	1	4.0374				
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	1.6851				
Maximum	1.0	8.6039				
Average	1	4.90582				
Count	5	5				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	059
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	0.5483				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	1	0.1907				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.1907				
Maximum	1.0	0.5483				
Average	1	0.3695				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	069
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	072
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD
DISTRICT:	NEDO	ANALYST:	NEORSD

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	0.0168				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	1	0.2324				
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.0168				
Maximum	1.0	0.2324				
Average	1	0.1246				
Count	2	2				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							1
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							1
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22						3448000	1
2020-06-23							1
2020-06-24							
2020-06-25							
2020-06-26							1
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum						3448000.0	1.0
Maximum						3448000.0	1.0
Average						3448000	1
Count						1	5
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-07-08 12:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	080
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	3.3100					
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18	0.9202					
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	1.7739					
2020-06-23	3.8846					
2020-06-24						
2020-06-25						
2020-06-26	0.3419					
2020-06-27	8.9755					
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	0.3419					
Maximum	8.9755					
Average	3.20102					
Count	6					
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	088
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1	AD				
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	1	0.0310				
2020-06-23	1	0.3716				
2020-06-24						
2020-06-25						
2020-06-26	1	0.0006				
2020-06-27		0.2792				
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	6.0E-4				
Maximum	1.0	0.3716				
Average	1	0.1706				
Count	4	4				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							1
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							1
2020-06-23	205	1.074	5.464	0.172	0.741	289480	1
2020-06-24							
2020-06-25							
2020-06-26							1
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	205.0	1.074	5.464	0.172	0.741	289480.0	1.0
Maximum	205.0	1.074	5.464	0.172	0.741	289480.0	1.0
Average	205	1.074	5.464	0.172	0.741	289480	1
Count	1	1	1	1	1	1	4
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	200
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	2.0259					
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22	0.1242					
2020-06-23	3.0108	27.4				
2020-06-24						
2020-06-25						
2020-06-26	0.0055					
2020-06-27	4.2015					
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	0.0055	27.4				
Maximum	4.2015	27.4				
Average	1.87358	27.4				
Count	5	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							1
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23	380	0.489	4.214	0.186	0.823	251630	1
2020-06-24							
2020-06-25							
2020-06-26							1
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	380.0	0.489	4.214	0.186	0.823	251630.0	1.0
Maximum	380.0	0.489	4.214	0.186	0.823	251630.0	1.0
Average	380	0.489	4.214	0.186	0.823	251630	1
Count	1	1	1	1	1	1	3
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative			Submission Date/Time
Kevin Zebrowski							2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	202
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	1.9502					
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	2.8105	26				
2020-06-24						
2020-06-25						
2020-06-26	0.0279					
2020-06-27	3.5844					
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	0.0279	26.0				
Maximum	3.5844	26.0				
Average	2.09325	26				
Count	4	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23							
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-07-08 12:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	206
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	211
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS

NO DISCHARGE INDICATOR:

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	1	0.6989				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	1.0	0.6989				
Maximum	1.0	0.6989				
Average	1	0.6989				
Count	1	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							1
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23	157.3	0.404	2.336	0.231	0.405	155305	1
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							1
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	157.3	0.404	2.336	0.231	0.405	155305.0	1.0
Maximum	157.3	0.404	2.336	0.231	0.405	155305.0	1.0
Average	157.3	0.404	2.336	0.231	0.405	155305	1
Count	1	1	1	1	1	1	3
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-07-08 12:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	218
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10	0.0359					
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23	0.0558	8.7				
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27	0.1403					
2020-06-28						
2020-06-29						
2020-06-30						
Minimum	0.0359	8.7				
Maximum	0.1403	8.7				
Average	0.07733	8.7				
Count	3	1				
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	232
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	

PARAMETER	Overflow Occurrence per Year	Overflow Volume				
PARAMETER CODE	51709	74063				
UNITS	No./Year	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total Estimate	Total Estimate				
2020-06-01	AH	AH				
2020-06-02	AH	AH				
2020-06-03	AH	AH				
2020-06-04	AH	AH				
2020-06-05	AH	AH				
2020-06-06	AH	AH				
2020-06-07	AH	AH				
2020-06-08	AH	AH				
2020-06-09	AH	AH				
2020-06-10	AH	AH				
2020-06-11	AH	AH				
2020-06-12	AH	AH				
2020-06-13	AH	AH				
2020-06-14	AH	AH				
2020-06-15	AH	AH				
2020-06-16	AH	AH				
2020-06-17	AH	AH				
2020-06-18	AH	AH				
2020-06-19	AH	AH				
2020-06-20	AH	AH				
2020-06-21	AH	AH				
2020-06-22	AH	AH				
2020-06-23	AH	AH				
2020-06-24	AH	AH				
2020-06-25	AH	AH				
2020-06-26	AH	AH				
2020-06-27	AH	AH				
2020-06-28	AH	AH				
2020-06-29	AH	AH				
2020-06-30	AH	AH				
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen Kjeldahl, Total	Nitrite Plus Nitrate, Total	Phosphorus, Total (P)	E. coli	Overflow Occurrence
PARAMETER CODE	00530	00610	00625	00630	00665	31648	74062
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml	No./Month
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.
SAMPLING TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Total
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23							
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kevin Zebrowski						2020-07-08 12:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	239
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Volume	CBOD 5 day				
PARAMETER CODE	74063	80082				
UNITS	Million Gallons	mg/l				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	24hr Total	Grab				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	242
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	963787	STATUS:	Original
FACILITY:	Northeast Ohio Regional SD	PERMIT NUMBER:	3PA00002*HD
LOCATION:	3826 Euclid Ave	STATION CODE:	258
	Cleveland, OH 44115	MONITORING PERIOD :	2020-06-01 To: 2020-06-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS
DISTRICT:	NEDO	ANALYST:	NEORS
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Overflow Occurrence	Overflow Volume				
PARAMETER CODE	74062	74063				
UNITS	No./Month	Million Gallons				
FREQUENCY	When Disch.	When Disch.				
SAMPLING TYPE	Total	24hr Total				
2020-06-01						
2020-06-02						
2020-06-03						
2020-06-04						
2020-06-05						
2020-06-06						
2020-06-07						
2020-06-08						
2020-06-09						
2020-06-10						
2020-06-11						
2020-06-12						
2020-06-13						
2020-06-14						
2020-06-15						
2020-06-16						
2020-06-17						
2020-06-18						
2020-06-19						
2020-06-20						
2020-06-21						
2020-06-22						
2020-06-23						
2020-06-24						
2020-06-25						
2020-06-26						
2020-06-27						
2020-06-28						
2020-06-29						
2020-06-30						
Minimum						
Maximum						
Average						
Count						
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time
Kevin Zebrowski						2020-07-08 12:07

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: Northeast Ohio Regional SD PERMIT NUMBER: 3PA00002*HD
 LOCATION: 3826 Euclid Ave MONITORING 2020-06-01 To: 2020-06-30
 Cleveland, OH 44115 PERIOD :

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
035	Overflow Volume	74063	2020-06-10	Million Gallons	During a storm event, the meter stopped reporting reliable data. The overflow occurrence was confirmed, but the overflow volume cannot be calculated. Maintenance was performed on the instrumentation after the storm event. A secondary sensor was installed on 06/16/2020 to prevent future data problems.
088	Overflow Volume	74063	2020-06-10	Million Gallons	During a storm event, the meter stopped reporting reliable data. The overflow occurrence was confirmed, but the overflow volume cannot be calculated. Maintenance was performed on the instrumentation after the storm event.
232	Overflow Occurrence per Year	51709	2020-06-01	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-02	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-03	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-04	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-05	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-06	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-07	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-08	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-09	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-10	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-11	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-12	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.
232	Overflow Occurrence per Year	51709	2020-06-13	No./Year	CSO 232 was replaced with CSO 211. Reporting for CSO 211 began 1/1/2016. CSO 232 should be removed from the eDMR report.

Dry Weather Overflow and Upset Reports

First Half of 2020

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 3/10/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure: H-14 COIT AVE SOUTH OF WOODWORTH AVE

Date Found: 3/9/2020 **TIME FOUND:** 6:40 PM **CSO:** CSO-211

Receiving Water: NINE MILE CREEK

Estimated Discharge (Gallons): 206,658

Cause: Downstream blockage

Proposed Remedial Action: Jet rod and vacuum

Jurisdiction: NEORS D

Contact Person: Kevin Zebrowski

Additional Information: A notification from a level monitor at the site was received at 8:47 pm and a crew arrived on site around 9:10 pm. The site was overflowing when the crew arrived and the crews performed the corrective action. The overflow duration is based on information from the level monitor.

Date Corrected: 3/10/2020 **Time Corrected:** 3:40 AM

Duration of Discharge (Hrs): 9 hrs.

Corrective Action: Jet rodded and vacuumed

Work Order #: 2006276-01

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 3/10/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)**



Initial Advisory



Five-Day Status Report

Structure: BC-74 PURITAS AVE WEST OF GRAYTON RD

Date Found: 3/10/2020 **TIME FOUND:** 1:15 PM **CSO:** CSO-062

Receiving Water: ROCKY RIVER

Estimated Discharge (Gallons): 3,666

Cause: Downstream blockage

Proposed Remedial Action: Remove obstruction

Jurisdiction: NEORS D

Contact Person: Kevin Zebrowski

Additional Information:

Date Corrected: 3/10/2020 **Time Corrected:** 1:45 PM

Duration of Discharge (Hrs): .50 hrs.

Corrective Action: Removed obstruction

Work Order #: 2006304-01

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 3/16/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure H-14 COIT AVE SOUTH OF WOODWORTH AVE

Date Found: 3/16/2020 **Time Found:** 11:00AM **CSO:** CSO-211

Receiving Water: Nine Mile Creek

Approximate Discharge (Gallons):

Description of Problem: City of Cleveland Water Department water main break discharging to the environment overwhelming the collection system resulting in a dry weather overflow.

Community with Maintenance Responsibility: Cleveland

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information: A notification from a level monitor at the site was received at 1:15PM on 3/16/20. Data from the level monitor indicates that the overflow started at 11:00AM. City of Cleveland Water Department crews are working in the area repairing an active water main break. Currently the site is still overflowing.

Date Corrected: **Time Corrected:**

Duration Of Discharge:

Work Order Number: 2006760-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 3/18/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure H-14 COIT AVE SOUTH OF WOODWORTH AVE

Date Found: 3/16/2020 **Time Found:** 11:10AM **CSO:** CSO-211

Receiving Water: Nine Mile Creek

Approximate Discharge (Gallons): 10,960

Description of Problem: City of Cleveland Water Department water main break discharging to the environment overwhelming the collection system resulting in a dry weather overflow.

Community with Maintenance Responsibility: Cleveland

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information: A notification from a level monitor at the site was received at 1:15PM on 3/16/20. Data from the level monitor indicates that the overflow started at 11:00AM. City of Cleveland Water Department crews have repaired the water main and the site is no longer overflowing. Please note that there was no overflow during the time period 2:25 PM – 5:00 PM .

Date Corrected: 3/16/2020 **Time Corrected:** 5:10 PM

Duration Of Discharge: 3.42 hours

Work Order Number: 2006760-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Michael J. Zapior

Date: 3/31/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure CSO-220 ACROSS FROM EAST BLVD. & ASHBURY BLVD. ON EAST SIDE OF DOAN BROOK

Date Found: 3/30/2020 **Time Found:** 9:00 AM **CSO:** CSO-220

Receiving Water: Doan Brook

Approximate Discharge (Gallons): 100

Description of Problem: Triad Engineering and Contracting, performing work under the District's Doan Valley Relief & Consolidation Sewer project, was setting up a bypass pumping operation in the area of regulator DV-24. Both sets of discharge hoses started to leak and an estimated 100 gallons of wastewater entered the sewer system through a catch basin directly connected to the 60" outlet sewer tributary to CSO-220.

Community with Maintenance Responsibility: NEORS

Contact Person: NEORS Collections Group Construction Manager A. J. Smith - 330.285.1360

Additional Information:

Date Corrected: 3/30/2020 **Time Corrected:** 9:15 AM

Duration Of Discharge: 0.25 hours

Work Order Number: NA

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 4/21/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure CSO-231 DUGWAY BROOK, APPROX. 600' UPSTREAM OF LAKESHORE BLVD

Date Found: 4/20/2020 **Time Found:** 11:15 AM **CSO:** CSO-231

Receiving Water: Dugway Brook

Approximate Discharge (Gallons): 1,425

Description of Problem: Unknown obstruction in sanitary line causing overflow to storm sewer.

Community with Maintenance Responsibility: NEORSD

Contact Person: Brian Stapleton (Cuyahoga County Dept. of Public Works)

Additional Information: SSMO crews checking a stormceptor at Hillcrest & Superior (on the border of East Cleveland and Cleveland Heights) noticed sanitary flows in the storm line that is tributary to CSO-231. Crews traced the sanitary flow to a local East Cleveland manhole upstream in the system in which sanitary flows were entering the storm sewer via an invert plate. County crews addressed the issue.

Date Corrected: 4/20/2020 **Time Corrected:** 4:00 PM

Duration Of Discharge: 4.75

Work Order Number: 2009609-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 4/20/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure CSO-231 DUGWAY BROOK, APPROX. 600' UPSTREAM OF LAKESHORE BLVD

Date Found: 4/20/2020 **Time Found:** 11:15 AM **CSO:** CSO-231

Receiving Water: Dugway Brook

Approximate Discharge (Gallons):

Description of Problem: SSMO crews checking a stormceptor at Hillcrest & Superior (on the border of East Cleveland and Cleveland Heights) noticed sanitary flows in the storm line that is tributary to CSO-231. Crews traced the sanitary flow to a local East Cleveland manhole upstream in the system in which sanitary flows were entering the storm sewer via an invert plate. County crews are en route to address the issue.

Community with Maintenance Responsibility: NEORS

Contact Person: Brian Stapleton (Cuyahoga County Dept. of Public Works)

Additional Information:

Date Corrected: **Time Corrected:**

Duration Of Discharge:

Work Order Number:

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).



4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Greg Mitchell

Date: 5/28/2020

Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)

Initial Advisory

Five-Day Status Report

Structure: WR-07A JEFFERSON AVE EAST OF W 3RD ST

Date Found: 5/27/2020 Time Found: 2:15PM CSO: CSO-240

Receiving Water: CUYAHOGA RIVER

Estimated Discharge (Gallons): 90

Cause: Grit/Sand

Proposed Remedial Action: Jet rod and vacuum

Jurisdiction: NEORS D

Contact Person: Kevin Zebrowski

Additional Information:

Date Corrected: 5/27/2020 Time Corrected: 3:45PM

Duration of Discharge (Hrs): 1.5 hrs.

Corrective Action: Jet rodded and vacuumed

Work Order #: 2012512-01

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 6/9/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure CSO-226 ALONG CREEK NORTH OF LARCHMERE & COVENTRY RD. INTERSECTION, DOWNSTREAM OF BRIDGE OVER CREEK

Date Found: 6/8/2020 **Time Found:** 7:15 PM **CSO:** CSO-226

Receiving Water: Doan Brook

Approximate Discharge (Gallons):

Description of Problem: City of Cleveland Water Department water main break discharging to a catch basin resulting in flows discharging at the outfall. The catch basin is located on a local stormwater only line that eventually discharges to CSO-226.

Community with Maintenance Responsibility: Shaker Heights

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information:

The public contacted NEORSRSD regarding a silty discharge from the outfall. Crews confirmed the discharge and traced the flows upstream to a City of Cleveland active water main break at Warrington & South Woodland in Shaker Heights.

Date Corrected:

Time Corrected:

Duration Of Discharge:

Work Order Number: 2013495-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 6/12/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure CSO-226 ALONG CREEK NORTH OF LARCHMERE & COVENTRY RD. INTERSECTION, DOWNSTREAM OF BRIDGE OVER CREEK

Date Found: 6/8/2020 **Time Found:** 7:15 PM **CSO:** CSO-226

Receiving Water: Doan Brook

Approximate Discharge (Gallons): Approx. 44,250

Description of Problem: City of Cleveland Water Department water main break discharging to a catch basin resulting in flows discharging at the outfall. The catch basin is located on a local stormwater only line that eventually discharges to CSO-226.

Community with Maintenance Responsibility: Shaker Heights

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information: The public contacted NEORS D regarding a silty discharge from the outfall. Crews confirmed the discharge and traced the flows upstream to a City of Cleveland active water main break at Warrington & South Woodland in Shaker Heights. The water main has been repaired.

Date Corrected: 6/9/2020 **Time Corrected:** 09:00AM

Duration Of Discharge: 14.75 HRS

Work Order Number: 2013495-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 7/16/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Notification
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure: BC-52 3591 W 134 ST SOUTH OF LORAIN

Date Found: 7/16/2020 **TIME FOUND:** 7:30 AM **CSO:** CSO-058

Receiving Water: BIG CREEK

Estimated Discharge (Gallons): 313

Cause: Unknown

Proposed Remedial Action: Visual inspection of Regulator BC-52 and downstream sewer.

Jurisdiction: NEORS D

Contact Person: Kevin Zebrowski

Additional Information: Data from the site was reviewed on the morning of 7/16/2020 and indicated that a potential overflow may have occurred on 7/15/2020. The data indicated that the potential overflow began at 12:15 PM and lasted until 12:45 PM. This data was unable to be verified during the recorded event. SSMO inspection crew arrived on site at 8:55 AM on 7/16/2020 and observed no signs of a previous blockage or that an overflow had taken place. The overall duration is based on information from the flow monitor.

Date Corrected: 7/16/2020 **Time Corrected:** 12:40 PM

Duration of Discharge (Hrs): .42 hrs.

Corrective Action: No corrective action required at this time.

Work Order #: 2016718-01

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 6/17/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure BC-53A - LORAIN AVE WEST OF W. 134TH

Date Found: 6/17/2020 **Time Found:** 3:09 AM **CSO:** CSO-058

Receiving Water: Big Creek

Approximate Discharge (Gallons):

Description of Problem: City of Cleveland Water Department water main break discharging to the environment overwhelming the collection system resulting in a dry weather overflow.

Community with Maintenance Responsibility: CLEVELAND

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information: A notification from a level monitor at the site was received at 3:09 am on 6/17/20 and a crew arrived on site around 5:00 am. The NEORS D inspection crew reported clear water overflowing the weir of regulator BC-53A. City of Cleveland Water Department crews are working in the area repairing an active water main break. Currently the site is still overflowing.

Date Corrected: **Time Corrected:**

Duration Of Discharge:

Work Order Number: 2014225-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

 **Northeast Ohio
Regional Sewer District**

4747 East 49th Street
Phone: 216-641-6000 Fax: 216-641-5120

To: Erm Gomes
Ohio EPA

From: Joshua Dress

Date: 6/22/2020

**Northeast Ohio Regional Sewer District
Dry Weather Overflow Advisory
Upset Condition Pursuant to Section 40 CFR 122.41(n)**

Initial Advisory

Five-Day Status Report

Structure BC-53A - LORAIN AVE WEST OF W. 134TH

Date Found: 6/17/2020 **Time Found:** 3:09 AM **CSO:** CSO-058

Receiving Water: Big Creek

Approximate Discharge (Gallons): 480,154

Description of Problem: City of Cleveland Water Department water main break discharging to the environment overwhelming the collection system resulting in a dry weather overflow.

Community with Maintenance Responsibility: CLEVELAND

Contact Person: City of Cleveland Division of Water (216) 664-3060

Additional Information: A notification from a level monitor at the site was received at 3:09 am on 6/17/20 and a crew arrived on site around 5:00 am. The NEORSO inspection crew reported clear water overflowing the weir of regulator BC-53A. City of Cleveland Water Department has repaired the water main break that caused overflow. There were two overflow events - 3:00 am - 7:25 am and 10:05 am 12:40 pm (7 hours total). The overflow duration is based on information from the level monitor.

Date Corrected: 6/17/2020 **Time Corrected:** 12:40pm

Duration Of Discharge: 7.0 Hours

Work Order Number: 2014225-01

Note: This is not a dry weather overflow caused by a malfunctioning combined sewer overflow regulator. This discharge, however, is considered an upset pursuant to 40 CFR part 122.41(n).

Easterly WWTP eDMR Reports

First Half of 2020

Outfall 002: Wet Weather Overflow/Bypass to Lake Erie

Outfall 003: Settled Bypass Spillway Off Primary Tanks

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	926566	STATUS:	Revision
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
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2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-02-13 15:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	926566	STATUS:	Revision
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	003
	Cleveland, OH 44115	MONITORING PERIOD :	2020-01-01 To: 2020-01-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
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2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-02-13 15:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd MONITORING PERIOD : 2020-01-01 To: 2020-01-31
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID #2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-11	mg/l	BLANKS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-01	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-03	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-04	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-10	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-11	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	934390	STATUS:	Original
FACILITY:	NEORSD Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	003
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-03-13 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	934390	STATUS:	Original
FACILITY:	NEORSD Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-02-01</u> To: <u>2020-02-29</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-03-13 13:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: *3PF00001*MD*
 LOCATION: 14021 Lakeshore Blvd MONITORING 2020-02-01 To: 2020-02-29
 Cleveland, OH 44115 PERIOD :

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-06	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942139	STATUS:	Original
FACILITY:	NEORSD Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	003
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-03-01</u> To: <u>2020-03-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-04-13 14:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942139	STATUS:	Original
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-03-01	AC	AC	AC	AC	AC		
2020-03-02	AC	AC	AC	AC	AC		
2020-03-03	40	9	1	1.23	1.70		
2020-03-04	AC	AC	AC	AC	AC		
2020-03-05	AC	AC	AC	AC	AC		
2020-03-06	AC	AC	AC	AC	AC		
2020-03-07	AC	AC	AC	AC	AC		
2020-03-08	AC	AC	AC	AC	AC		
2020-03-09	AC	AC	AC	AC	AC		
2020-03-10	AC	AC	AC	AC	AC		
2020-03-11	AC	AC	AC	AC	AC		
2020-03-12	AC	AC	AC	AC	AC		
2020-03-13	AC	AC	AC	AC	AC		
2020-03-14	AC	AC	AC	AC	AC		
2020-03-15	AC	AC	AC	AC	AC		
2020-03-16	AC	AC	AC	AC	AC		
2020-03-17	AC	AC	AC	AC	AC		
2020-03-18	8	AE	1	16.30	4.67		
2020-03-19	115	26	0	3.69	1.75		
2020-03-20	AC	AC	AC	AC	AC		
2020-03-21	AC	AC	AC	AC	AC		
2020-03-22	AC	AC	AC	AC	AC		
2020-03-23	AC	AC	AC	AC	AC		
2020-03-24	AC	AC	AC	AC	AC		
2020-03-25	AC	AC	AC	AC	AC		
2020-03-26	AC	AC	AC	AC	AC		
2020-03-27	AC	AC	AC	AC	AC		
2020-03-28	237	30	1	35.86	5.83		
2020-03-29	344	16	1	44.31	10.40		
2020-03-30	AC	AC	AC	AC	AC		
2020-03-31	AC	AC	AC	AC	AC		
Minimum	8.0	9.0	0.0	1.23	1.7		
Maximum	344.0	30.0	1.0	44.31	10.4		
Average	148.8	20.25	0.8	20.278	4.87		
Count	5	4	5	5	5		

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
			2020-04-13 14:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd MONITORING PERIOD : 2020-03-01 To: 2020-03-31
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES #2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-03-18	mg/l	DILUTION SET DID NOT MEET D.O. UPTAKE AND RESIDUAL REQUIREMENTS
601	CBOD 5 day	80082	2020-03-02	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-09	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-10	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-12	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	950736	STATUS:	Original
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	003
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-05-15 14:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	950736	STATUS:	Original
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	2020-04-01 To: 2020-04-30
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-04-01	AC	AC	AC	AC	AC		
2020-04-02	AC	AC	AC	AC	AC		
2020-04-03	AC	AC	AC	AC	AC		
2020-04-04	AC	AC	AC	AC	AC		
2020-04-05	AC	AC	AC	AC	AC		
2020-04-06	AC	AC	AC	AC	AC		
2020-04-07	AC	AC	AC	AC	AC		
2020-04-08	41	AE	1	1.53	3.95		
2020-04-09	AC	AC	AC	AC	AC		
2020-04-10	AC	AC	AC	AC	AC		
2020-04-11	AC	AC	AC	AC	AC		
2020-04-12	AC	AC	AC	AC	AC		
2020-04-13	AC	AC	AC	AC	AC		
2020-04-14	AC	AC	AC	AC	AC		
2020-04-15	AC	AC	AC	AC	AC		
2020-04-16	AC	AC	AC	AC	AC		
2020-04-17	AC	AC	AC	AC	AC		
2020-04-18	AC	AC	AC	AC	AC		
2020-04-19	AC	AC	AC	AC	AC		
2020-04-20	AC	AC	AC	AC	AC		
2020-04-21	AC	AC	AC	AC	AC		
2020-04-22	AC	AC	AC	AC	AC		
2020-04-23	AC	AC	AC	AC	AC		
2020-04-24	AC	AC	AC	AC	AC		
2020-04-25	AC	AC	AC	AC	AC		
2020-04-26	AC	AC	AC	AC	AC		
2020-04-27	AC	AC	AC	AC	AC		
2020-04-28	AC	AC	AC	AC	AC		
2020-04-29	AC	AC	AC	AC	AC		
2020-04-30	AC	AC	AC	AC	AC		
Minimum	41.0		1.0	1.53	3.95		
Maximum	41.0		1.0	1.53	3.95		
Average	41		1	1.53	3.95		
Count	1		1	1	1		

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
			2020-05-15 14:05

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-04-05	mg/l	BLANKS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-12	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-14	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA INVALID DUE TO LAB ERROR.
001	E. coli	31648	2020-04-20	#/100 ml	DATA NOT VALID DUE TO LAB ERROR.
002	CBOD 5 day	80082	2020-04-08	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-05	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-12	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082		mg/l	STANDARDS DID NOT MEET QC CRITERIA.

			2020-04-14		
601	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA INVALID DUE TO LAB ERROR.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 958893 STATUS: Original
 FACILITY: NEORSD Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd STATION CODE: 003
 Cleveland, OH 44115 MONITORING PERIOD : 2020-05-01 To: 2020-05-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume	
PARAMETER CODE	31648	00530	80082	00051	00052	51428	
UNITS	#/100 ml	mg/l	mg/l	No./Day	Hrs/Day	MGAL	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total	24hr Total	
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15	618200	106	AE	1	6.67	27.4	
2020-05-16							
2020-05-17	AH	65	AE	1	2.22	9.2	
2020-05-18	AH	55	38	1	4.45	18.1	
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22	675500	77	45	1	1.55	2.9	
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29	AH	95	AE	1	2.07	8.1	
2020-05-30							
2020-05-31							
Minimum	618200.0	55.0	38.0	1.0	1.55	2.9	
Maximum	675500.0	106.0	45.0	1.0	6.67	27.4	
Average	646850	79.6	41.5	1	3.392	13.14	
Count	2	5	2	5	5	5	
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-06-16 17:06	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958893	STATUS:	Original
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-05-01</u> To: <u>2020-05-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge	
PARAMETER CODE	31648	00530	80082	74062	74063	82517	
UNITS	#/100 ml	mg/l	mg/l	No./Month	Million Gallons	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	Total	24hr Total	24hr Total	
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15	135	51	AE	1	96.25	7.60	
2020-05-16							
2020-05-17	AH	63	AE	1	1.26	2.38	
2020-05-18	AH	83	35	1	22.27	4.33	
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22	387	10	2	1	2.00	2.00	
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29	AH	28	AE	1	1.17	1.30	
2020-05-30							
2020-05-31							
Minimum	135.0	10.0	2.0	1.0	1.17	1.3	
Maximum	387.0	83.0	35.0	1.0	96.25	7.6	
Average	261	47	18.5	1	24.59	3.522	
Count	2	5	2	5	5	5	

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Robert Bonnett			2020-06-16 17:06

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd MONITORING PERIOD : 2020-05-01 To: 2020-05-31
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-05-14	mg/l	BLANKS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA
003	E. coli	31648	2020-05-17	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
003	E. coli	31648	2020-05-18	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
003	E. coli	31648	2020-05-29	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
003	CBOD 5 day	80082	2020-05-15	mg/l	SAMPLES NOT ANALYZED DUE TO LAB ERROR
003	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA
003	CBOD 5 day	80082	2020-05-29	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	E. coli	31648	2020-05-17	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	E. coli	31648	2020-05-18	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	E. coli	31648	2020-05-29	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	CBOD 5 day	80082	2020-05-15	mg/l	SAMPLES NOT ANALYZED DUE TO LAB ERROR
002	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-05-29	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-05	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-14	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 966233 STATUS: Original
 FACILITY: NEORSD Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd STATION CODE: 003
 Cleveland, OH 44115 MONITORING PERIOD : 2020-06-01 To: 2020-06-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume	
PARAMETER CODE	31648	00530	80082	00051	00052	51428	
UNITS	#/100 ml	mg/l	mg/l	No./Day	Hrs/Day	MGAL	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total	24hr Total	
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10	AH	80	44	1	1.58	4.2	
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23	749000	158	AE	1	4.80	20.3	
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27	AE	195	AE	1	8.98	47.6	
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	749000.0	80.0	44.0	1.0	1.58	4.2	
Maximum	749000.0	195.0	44.0	1.0	8.98	47.6	
Average	749000	144.33333	44	1	5.12	24.03333	
Count	1	3	1	3	3	3	
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-07-14 15:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	966233	STATUS:	Original
FACILITY:	NEORS D Easterly WWTP	PERMIT NUMBER:	3PF00001*MD
LOCATION:	14021 Lakeshore Blvd	STATION CODE:	002
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-06-01</u> To: <u>2020-06-30</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORS D Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge	
PARAMETER CODE	31648	00530	80082	74062	74063	82517	
UNITS	#/100 ml	mg/l	mg/l	No./Month	Million Gallons	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	Total	24hr Total	24hr Total	
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10	AH	48	AE	1	0.30	0.72	
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23	441000	335	AE	1	4.77	1.53	
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27	AE	188	AE	1	8.10	3.64	
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	441000.0	48.0		1.0	0.3	0.72	
Maximum	441000.0	335.0		1.0	8.1	3.64	
Average	441000	190.33333		1	4.39	1.96333	
Count	1	3		3	3	3	
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Robert Bonnett						2020-07-14 15:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS D Easterly WWTP PERMIT NUMBER: 3PF00001*MD
 LOCATION: 14021 Lakeshore Blvd MONITORING PERIOD : 2020-06-01 To: 2020-06-30
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	E. coli	31648	2020-06-10	#/100 ml	INCUBATOR MALFUNCTION
001	CBOD 5 day	80082	2020-06-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
003	E. coli	31648	2020-06-10	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
003	E. coli	31648	2020-06-27	#/100 ml	SAMPLE ANALYZED PAST HOLD TIME
003	CBOD 5 day	80082	2020-06-23	mg/l	BLANKS DID NOT MEET QC CRITERIA
003	CBOD 5 day	80082	2020-06-27	mg/l	BLANKS DID NOT MEET QC CRITERIA
002	E. coli	31648	2020-06-10	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	E. coli	31648	2020-06-27	#/100 ml	SAMPLE ANALYZED PAST HOLD TIME
002	CBOD 5 day	80082	2020-06-10	mg/l	DILUTION SET DID NOT MEET D.O. UPTAKE CRITERIA
002	CBOD 5 day	80082	2020-06-23	mg/l	BLANKS DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-06-27	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-06-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-06-23	mg/l	BLANKS DID NOT MEET QC CRITERIA



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office: sedo24hournpdes@epa.state.oh.us
 Southwest District Office: swdo24hournpdes@epa.state.oh.us
 Northwest District Office: nwdo24hournpdes@epa.state.oh.us
 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	May 15, 2020 (1650 - 2330)
Date and time discharge discovered:	May 15, 2020 (1650)
Description of discharge	
Approximate amount of discharge:	27.4 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Thomas Wenger, Wasel Sahib and Mark Gabor, Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
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 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	May 17, 2020 (2031 - 2244)
Date and time discharge discovered:	May 17, 2020 (2031)
Description of discharge	
Approximate amount of discharge:	9.2 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Wasel Sahib, Thomas Wenger, Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

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 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	May 18, 2020 (1923 - 2350)
Date and time discharge discovered:	May 18, 2020 (1923)
Description of discharge	
Approximate amount of discharge:	18.10 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Mark Gabor, Shift Manager
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

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 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	May 22, 2020 (1502 – 16:35)
Date and time discharge discovered:	May 22, 2020 (1502)
Description of discharge	
Approximate amount of discharge:	2.9 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Thomas Wenger, Shift Manager
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

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 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	5-29-2020 (1818 – 2022)
Date and time discharge discovered:	5-29-2020 (1818)
Description of discharge	
Approximate amount of discharge:	8.1 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Thomas Wenger, Michael Canfield, Shift Manager
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office: sedo24hournpdes@epa.state.oh.us
 Southwest District Office: swdo24hournpdes@epa.state.oh.us
 Northwest District Office: nwdo24hournpdes@epa.state.oh.us
 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	6-10-2020 (2222 – 2357)
Date and time discharge discovered:	6-10-2020 (2222)
Description of discharge	
Approximate amount of discharge:	4.2 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Michael Dolsen, Shift Manager
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office: sedo24hournpdes@epa.state.oh.us
 Southwest District Office: swdo24hournpdes@epa.state.oh.us
 Northwest District Office: nwdo24hournpdes@epa.state.oh.us
 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	6-23-2020 (12:48 – 17:00)
Date and time discharge discovered:	6-23-2020 (12:48)
Description of discharge	
Approximate amount of discharge:	20.25 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Mark Gabor, Shift Manager
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892



Division of Surface Water
 Non-compliance Notification for
 Bypasses and Upsets

Use this form to report non-compliance that is the result of any **unanticipated bypass** or **upset** resulting in an exceedance of any **effluent limit** in your NPDES permit (see Part III, Section 12 of your NPDES permit for details). The form should be completed and emailed to the appropriate Ohio EPA inspector, or Ohio EPA office using one of the following addresses:

Southeast District Office: sedo24hournpdes@epa.state.oh.us
 Southwest District Office: swdo24hournpdes@epa.state.oh.us
 Northwest District Office: nwdo24hournpdes@epa.state.oh.us
 Northeast District Office: nedo24hournpdes@epa.state.oh.us
 Central District Office: cdo24hournpdes@epa.state.oh.us
 Central Office: co24hournpdes@epa.state.oh.us

On a case-by-case basis it may be determined an environmental emergency exists. Report environmental emergencies within thirty (30) minutes of discovery to Ohio EPA 24-hours a day, 365 days a year at 800-282-9378!

Permittee Information	
Name of permittee:	Easterly Wastewater Treatment Plant
NPDES Permit number:	3PF00001*MD
Contact name for permittee:	Robert M. Bonnett, Plant Superintendent
Contact telephone number:	(216) 531-4892
Date and time of discharge	
Date and time(s) of discharge:	6-27-2020 (00:51 – 09:50)
Date and time discharge discovered:	6-27-2020 (00:51)
Description of discharge	
Approximate amount of discharge:	47.60 MG
Characteristics of discharge:	Settled Sewage at Station Number 3PF00001003
Stream(s) affected by discharge	
Provide the name of all streams affected by the discharge:	Lake Erie
Circumstances that created the discharge	
Describe the circumstances that created the discharge:	Wet weather during reduced secondary capacity - construction project ATR-4.
Contact persons with knowledge of discharge (if different than above)	
Name:	Mark Gabor, Thomas Wenger Shift Managers
Telephone number:	(216) 531-4892
Remedial steps	
Describe all remedial steps which are or will be taken to address the discharge:	Construction of Project ATR-4 to rehabilitate the plant aeration tanks is on-going through December 2020. Bypasses at Station 003 may occur during wet weather.
Person responsible for implementing remedial steps	
Name:	Robert M. Bonnett
Telephone number:	(216) 531-4892

Southerly WWTC eDMR Reports

First Half of 2020

Outfall 002: Bypass After Primary Settling Tanks

Outfall 003: Emergency Bypass After First-Stage Settling

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 927291 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 002
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-01-01 To: 2020-01-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-02-17 12:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 927291 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-01-01 To: 2020-01-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-02-17 12:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORSO Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road MONITORING PERIOD : 2020-01-01 To: 2020-01-31
 Cuyahoga Heights, OH 44124

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	Total Suspended Solids	00530	2020-01-25	mg/l	SAMPLE COLLECTED INCORRECTLY
601	CBOD 5 day	80082	2020-01-01	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-03	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-04	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-10	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-11	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-25	mg/l	SAMPLE COLLECTED INCORRECTLY
601	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	936057	STATUS:	Original
FACILITY:	NEORSO Southerly WWTC	PERMIT NUMBER:	3PF00002*ND
LOCATION:	6000 Canal Road	STATION CODE:	002
	Cuyahoga Heights, OH 44124	MONITORING PERIOD :	2020-02-01 To: 2020-02-29
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSO Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kathryn Crestani						2020-03-19 10:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 936057 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-02-01 To: 2020-02-29
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Kathryn Crestani						2020-03-19 10:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORSO Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road MONITORING PERIOD : 2020-02-01 To: 2020-02-29
 Cuyahoga Heights, OH 44124

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is a NELAP compliant lab (NH DES #2238)

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-06	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 942079 STATUS: Original
 FACILITY: NEORSO Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 002
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-03-01 To: 2020-03-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSO Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-03-01	AC	AC	AC	AC	AC		
2020-03-02	AC	AC	AC	AC	AC		
2020-03-03	AC	AC	AC	AC	AC		
2020-03-04	AC	AC	AC	AC	AC		
2020-03-05	AC	AC	AC	AC	AC		
2020-03-06	AC	AC	AC	AC	AC		
2020-03-07	AC	AC	AC	AC	AC		
2020-03-08	AC	AC	AC	AC	AC		
2020-03-09	AC	AC	AC	AC	AC		
2020-03-10	AC	AC	AC	AC	AC		
2020-03-11	AC	AC	AC	AC	AC		
2020-03-12	AC	AC	AC	AC	AC		
2020-03-13	AC	AC	AC	AC	AC		
2020-03-14	AC	AC	AC	AC	AC		
2020-03-15	AC	AC	AC	AC	AC		
2020-03-16	AC	AC	AC	AC	AC		
2020-03-17	AC	AC	AC	AC	AC		
2020-03-18	63	43	1	3.20	49.8		
2020-03-19	73	25	0	24.00	199.2		
2020-03-20	25	AE	0	17.11	67.0		
2020-03-21	AC	AC	AC	AC	AC		
2020-03-22	AC	AC	AC	AC	AC		
2020-03-23	AC	AC	AC	AC	AC		
2020-03-24	AC	AC	AC	AC	AC		
2020-03-25	AC	AC	AC	AC	AC		
2020-03-26	AC	AC	AC	AC	AC		
2020-03-27	AC	AC	AC	AC	AC		
2020-03-28	68	37	1	21.10	265.7		
2020-03-29	35	30	0	24.00	347.3		
2020-03-30	37	AE	0	16.32	88.6		
2020-03-31	AC	AC	AC	AC	AC		
Minimum	25.0	25.0	0.0	3.2	49.8		
Maximum	73.0	43.0	1.0	24.0	347.3		
Average	50.16667	33.75	0.33333	17.62167	169.6		
Count	6	4	6	6	6		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-04-13 13:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 942079 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-03-01 To: 2020-03-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-04-13 13:04	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY:	NEORSO Southerly WWTC	PERMIT NUMBER:	3PF00002*ND
LOCATION:	6000 Canal Road	MONITORING PERIOD :	2020-03-01 To: 2020-03-31
	Cuyahoga Heights, OH 44124		

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-23	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-25	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-29	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-30	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-31	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-03-20	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-03-30	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-02	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-09	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-10	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-12	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-23	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-29	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-30	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA

601	CBOD 5 day	80082	2020-03-31	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
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Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 950660 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 002
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-04-01	AC	AC	AC	AC	AC		
2020-04-02	AC	AC	AC	AC	AC		
2020-04-03	AC	AC	AC	AC	AC		
2020-04-04	AC	AC	AC	AC	AC		
2020-04-05	AC	AC	AC	AC	AC		
2020-04-06	AC	AC	AC	AC	AC		
2020-04-07	AC	AC	AC	AC	AC		
2020-04-08	114	AE	1	22.32	185.0		
2020-04-09	AC	AC	AC	AC	AC		
2020-04-10	AC	AC	AC	AC	AC		
2020-04-11	AC	AC	AC	AC	AC		
2020-04-12	AC	AC	AC	AC	AC		
2020-04-13	AC	AC	AC	AC	AC		
2020-04-14	AC	AC	AC	AC	AC		
2020-04-15	AC	AC	AC	AC	AC		
2020-04-16	AC	AC	AC	AC	AC		
2020-04-17	AC	AC	AC	AC	AC		
2020-04-18	AC	AC	AC	AC	AC		
2020-04-19	AC	AC	AC	AC	AC		
2020-04-20	AC	AC	AC	AC	AC		
2020-04-21	AC	AC	AC	AC	AC		
2020-04-22	AC	AC	AC	AC	AC		
2020-04-23	AC	AC	AC	AC	AC		
2020-04-24	AC	AC	AC	AC	AC		
2020-04-25	AC	AC	AC	AC	AC		
2020-04-26	AC	AC	AC	AC	AC		
2020-04-27	AC	AC	AC	AC	AC		
2020-04-28	AC	AC	AC	AC	AC		
2020-04-29	AC	AC	AC	AC	AC		
2020-04-30	AC	AC	AC	AC	AC		
Minimum	114.0		1.0	22.32	185.0		
Maximum	114.0		1.0	22.32	185.0		
Average	114		1	22.32	185		
Count	1		1	1	1		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-05-15 12:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 950660 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-05-15 12:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORSO Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 Cuyahoga Heights, OH 44124

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238)

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-04-05	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-06	mg/l	BLANKS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-08	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-12	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-13	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-14	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-29	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
001	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA NOT VALID DUE TO LAB ERROR.
001	E. coli	31648	2020-04-20	#/100 ml	DATA NOT VALID DUE TO LAB ERROR.
002	CBOD 5 day	80082	2020-04-08	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082		mg/l	STANDARDS DID NOT MEET QC CRITERIA.

			2020-04-05		
601	CBOD 5 day	80082	2020-04-06	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-08	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-12	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-13	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-14	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-29	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA NOT VALID DUE TO LAB ERROR.
901	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA NOT VALID DUE TO LAB ERROR.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 959837 STATUS: Original
 FACILITY: NEORSO Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 002
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-05-01 To: 2020-05-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSO Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15	69	AE	1	6.42	90.7		
2020-05-16	64	AE	0	4.03	37.4		
2020-05-17							
2020-05-18	38	AE	1	4.87	66.6		
2020-05-19	37	AE	0	11.75	106.3		
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum	37.0		0.0	4.03	37.4		
Maximum	69.0		1.0	11.75	106.3		
Average	52		0.5	6.7675	75.25		
Count	4		4	4	4		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-06-19 08:06	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 959837 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-05-01 To: 2020-05-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15							
2020-05-16							
2020-05-17							
2020-05-18							
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-06-19 08:06	

FACILITY: NEORS D Southerly WWTC PERMIT NUMBER: 3PF00002*ND
LOCATION: 6000 Canal Road MONITORING PERIOD : 2020-05-01 To: 2020-05-31
Cuyahoga Heights, OH 44124

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238) The analytical data for the treated effluent samples for the period from May 12th through May 23rd was determined to be not valid (Coded AE) due to a sampling equipment failure that resulted in sample contamination. The treated effluent sample exhibited elevated levels of CBOD from May 12th until the sampling equipment failure was detected on May 24th, which was not representative of the treated effluent being discharged to the Cuyahoga River.

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	Total Suspended Solids	00530	2020-05-12	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-13	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-14	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-17	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-18	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-19	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-20	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Total Suspended Solids	00530	2020-05-21	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-12	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-13	mg/l	SAMPLE CONTAMINATION WITH PUMP FLUID SUSPECTED.
001	Nitrogen, Ammonia (NH3)	00610	2020-05-14	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-17	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-18	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-19	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-20	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrogen, Ammonia (NH3)	00610	2020-05-21	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-05-12	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-13	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE.
001	CBOD 5 day	80082	2020-05-14	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-17	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-18	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-19	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-20	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-21	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	CBOD 5 day	80082	2020-05-25	mg/l	SAMPLE DILUTION SET DID NOT MEET QC CRITERIA
001	Phosphorus, Total (P)	00665		mg/l	

			2020-05-12		LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Phosphorus, Total (P)	00665	2020-05-17	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Phosphorus, Total (P)	00665	2020-05-19	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-12	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-13	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-14	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-17	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-18	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-19	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-20	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Nitrite Plus Nitrate, Total	00630	2020-05-21	mg/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Zinc, Total Recoverable	01094	2020-05-20	ug/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Cadmium, Total Recoverable	01113	2020-05-20	ug/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Lead, Total Recoverable	01114	2020-05-20	ug/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
001	Chromium, Total Recoverable	01118	2020-05-20	ug/l	LIKELY SAMPLE CONTAMINATION DUE TO PUMP FAILURE
002	CBOD 5 day	80082	2020-05-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-05-16	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-05-18	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-05-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-04	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-05	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-06	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-13	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-14	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 966364 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 002
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-06-01 To: 2020-06-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	24hr Total	24hr Total	24hr Total		
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23							
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-07-15 08:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 966364 STATUS: Original
 FACILITY: NEORSD Southerly WWTC PERMIT NUMBER: 3PF00002*ND
 LOCATION: 6000 Canal Road STATION CODE: 003
 Cuyahoga Heights, OH 44124 MONITORING PERIOD : 2020-06-01 To: 2020-06-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	1/Month		
SAMPLING TYPE	Grab	Grab	Grab	24hr Total	24hr Total		
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23							
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Brian Flanagan						2020-07-15 08:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY:	NEORSD Southerly WWTC	PERMIT NUMBER:	<i>3PF00002*ND</i>
LOCATION:	6000 Canal Road	MONITORING PERIOD :	<u>2020-06-01</u> To: <u>2020-06-30</u>
	Cuyahoga Heights, OH 44124		

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238)

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	E. coli	31648	2020-06-10	#/100 ml	INCUBATOR MALFUNCTIONED
001	CBOD 5 day	80082	2020-06-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-06-01	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-08	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-15	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-23	mg/l	BLANKS DID NOT MEET QC CRITERIA.

Westerly WWTC eDMR Reports

First Half of 2020

Outfall 002: Wet Weather Overflow/Bypass to Lake Erie

Outfall 602: Secondary Treatment Bypass

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 928232 STATUS: Original
 FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial Shoreway NW STATION CODE: 002
 Cleveland, OH 44115 MONITORING PERIOD : 2020-01-01 To: 2020-01-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-01-01	AC	AC	AC	AC	AC		
2020-01-02	AC	AC	AC	AC	AC		
2020-01-03	AC	AC	AC	AC	AC		
2020-01-04	AC	AC	AC	AC	AC		
2020-01-05	AC	AC	AC	AC	AC		
2020-01-06	AC	AC	AC	AC	AC		
2020-01-07	AC	AC	AC	AC	AC		
2020-01-08	AC	AC	AC	AC	AC		
2020-01-09	AC	AC	AC	AC	AC		
2020-01-10	AC	AC	AC	AC	AC		
2020-01-11	AC	AC	AC	AC	AC		
2020-01-12	AC	AC	AC	AC	AC		
2020-01-13	AC	AC	AC	AC	AC		
2020-01-14	AC	AC	AC	AC	AC		
2020-01-15	AC	AC	AC	AC	AC		
2020-01-16	AC	AC	AC	AC	AC		
2020-01-17	AC	AC	AC	AC	AC		
2020-01-18	125	40	1	1.7	2.40		
2020-01-19	AC	AC	AC	AC	AC		
2020-01-20	AC	AC	AC	AC	AC		
2020-01-21	AC	AC	AC	AC	AC		
2020-01-22	AC	AC	AC	AC	AC		
2020-01-23	AC	AC	AC	AC	AC		
2020-01-24	AC	AC	AC	AC	AC		
2020-01-25	AC	AC	AC	AC	AC		
2020-01-26	AC	AC	AC	AC	AC		
2020-01-27	AC	AC	AC	AC	AC		
2020-01-28	AC	AC	AC	AC	AC		
2020-01-29	AC	AC	AC	AC	AC		
2020-01-30	AC	AC	AC	AC	AC		
2020-01-31	AC	AC	AC	AC	AC		
Minimum	125.0	40.0	1.0	1.7	2.4		
Maximum	125.0	40.0	1.0	1.7	2.4		
Average	125	40	1	1.7	2.4		
Count	1	1	1	1	1		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-02-19 15:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	928232	STATUS:	Original
FACILITY:	NEORSW Westerly WWTC	PERMIT NUMBER:	3PE00001*QD
LOCATION:	5800 Cleveland Memorial Shoreway NW	STATION CODE:	602
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-01-01</u> To: <u>2020-01-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSW Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-01-01							
2020-01-02							
2020-01-03							
2020-01-04							
2020-01-05							
2020-01-06							
2020-01-07							
2020-01-08							
2020-01-09							
2020-01-10							
2020-01-11							
2020-01-12							
2020-01-13							
2020-01-14							
2020-01-15							
2020-01-16							
2020-01-17							
2020-01-18							
2020-01-19							
2020-01-20							
2020-01-21							
2020-01-22							
2020-01-23							
2020-01-24							
2020-01-25							
2020-01-26							
2020-01-27							
2020-01-28							
2020-01-29							
2020-01-30							
2020-01-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-02-19 15:02	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS Westery WWTC PERMIT NUMBER: *3PE00001*QD*
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-01-01 To: 2020-01-31
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab#: 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-01-11	mg/l	BLANKS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-01	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-01-03	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-04	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-05	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-10	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-11	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-27	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-01-31	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 935293
 FACILITY: NEORS Westlerly WWTC
 LOCATION: 5800 Cleveland Memorial
 Shoreway NW
 Cleveland, OH 44115
 COUNTY: Cuyahoga
 DISTRICT: NEDO

STATUS: Original
 PERMIT NUMBER: 3PE00001*QD
 STATION CODE: 002

MONITORING PERIOD : 2020-02-01 To: 2020-02-29
REPORTING LAB: NEORS Analytical Services
ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-03-17 14:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 935293
 FACILITY: NEORSD Westerly WWTC
 LOCATION: 5800 Cleveland Memorial
 Shoreway NW
 Cleveland, OH 44115
 COUNTY: Cuyahoga
 DISTRICT: NEDO

STATUS: Original
 PERMIT NUMBER: 3PE00001*QD
 STATION CODE: 602

MONITORING PERIOD : 2020-02-01 To: 2020-02-29
REPORTING LAB: NEORSD Analytical Services
ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-02-01							
2020-02-02							
2020-02-03							
2020-02-04							
2020-02-05							
2020-02-06							
2020-02-07							
2020-02-08							
2020-02-09							
2020-02-10							
2020-02-11							
2020-02-12							
2020-02-13							
2020-02-14							
2020-02-15							
2020-02-16							
2020-02-17							
2020-02-18							
2020-02-19							
2020-02-20							
2020-02-21							
2020-02-22							
2020-02-23							
2020-02-24							
2020-02-25							
2020-02-26							
2020-02-27							
2020-02-28							
2020-02-29							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-03-17 14:03	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS Westery WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-02-01 To: 2020-02-29
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES #2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-06	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-01	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-06	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-10	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-13	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-14	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-02-15	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 942735 STATUS: Original
 FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial Shoreway NW STATION CODE: 002
 Cleveland, OH 44115 MONITORING PERIOD : 2020-03-01 To: 2020-03-31
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-03-01	AC	AC	AC	AC	AC		
2020-03-02	AC	AC	AC	AC	AC		
2020-03-03	AC	AC	AC	AC	AC		
2020-03-04	AC	AC	AC	AC	AC		
2020-03-05	AC	AC	AC	AC	AC		
2020-03-06	AC	AC	AC	AC	AC		
2020-03-07	AC	AC	AC	AC	AC		
2020-03-08	AC	AC	AC	AC	AC		
2020-03-09	AC	AC	AC	AC	AC		
2020-03-10	AC	AC	AC	AC	AC		
2020-03-11	AC	AC	AC	AC	AC		
2020-03-12	AC	AC	AC	AC	AC		
2020-03-13	AC	AC	AC	AC	AC		
2020-03-14	AC	AC	AC	AC	AC		
2020-03-15	AC	AC	AC	AC	AC		
2020-03-16	AC	AC	AC	AC	AC		
2020-03-17	AC	AC	AC	AC	AC		
2020-03-18	204	67	1	17.3	4.50		
2020-03-19	100	26	0	0.5	1		
2020-03-20	AC	AC	AC	AC	AC		
2020-03-21	AC	AC	AC	AC	AC		
2020-03-22	AC	AC	AC	AC	AC		
2020-03-23	AC	AC	AC	AC	AC		
2020-03-24	AC	AC	AC	AC	AC		
2020-03-25	AC	AC	AC	AC	AC		
2020-03-26	AC	AC	AC	AC	AC		
2020-03-27	AC	AC	AC	AC	AC		
2020-03-28	132	31	1	36.5	6.20		
2020-03-29	183	20	1	74.7	9.30		
2020-03-30	AC	AC	AC	AC	AC		
2020-03-31	AC	AC	AC	AC	AC		
Minimum	100.0	20.0	0.0	0.5	1.0		
Maximum	204.0	67.0	1.0	74.7	9.3		
Average	154.75	36	0.75	32.25	5.25		
Count	4	4	4	4	4		

Name of Responsible Official or Authorized Representative Eric Tanko	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
			2020-04-15 13:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	942735	STATUS:	Original
FACILITY:	NEORSD Westerly WWTC	PERMIT NUMBER:	3PE00001*QD
LOCATION:	5800 Cleveland Memorial Shoreway NW	STATION CODE:	602
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-03-01</u> To: <u>2020-03-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-03-01							
2020-03-02							
2020-03-03							
2020-03-04							
2020-03-05							
2020-03-06							
2020-03-07							
2020-03-08							
2020-03-09							
2020-03-10							
2020-03-11							
2020-03-12							
2020-03-13							
2020-03-14							
2020-03-15							
2020-03-16							
2020-03-17							
2020-03-18							
2020-03-19							
2020-03-20							
2020-03-21							
2020-03-22							
2020-03-23							
2020-03-24							
2020-03-25							
2020-03-26							
2020-03-27							
2020-03-28							
2020-03-29							
2020-03-30							
2020-03-31							
Minimum							
Maximum							
Average							
Count							

Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.	Signature of Responsible Official or Authorized Representative	Submission Date/Time
Eric Tanko			2020-04-15 13:04

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-03-01 To: 2020-03-31
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES #2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-03-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-10	mg/l	BLANKS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-12	mg/l	BLANKS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-29	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-03-31	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-02	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-08	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-09	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-10	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-12	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-24	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-26	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-29	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-03-31	mg/l	BLANKS AND STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 950515 STATUS: Original
 FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial Shoreway NW STATION CODE: 002
 Cleveland, OH 44115 MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge		
PARAMETER CODE	00530	80082	74062	74063	82517		
UNITS	mg/l	mg/l	No./Month	Million Gallons	Hours		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	Grab	Grab	Total	24hr Total	24hr Total		
2020-04-01	AC	AC	AC	AC	AC		
2020-04-02	AC	AC	AC	AC	AC		
2020-04-03	AC	AC	AC	AC	AC		
2020-04-04	AC	AC	AC	AC	AC		
2020-04-05	AC	AC	AC	AC	AC		
2020-04-06	AC	AC	AC	AC	AC		
2020-04-07	AC	AC	AC	AC	AC		
2020-04-08	202	AE	1	23.8	3.70		
2020-04-09	AC	AC	AC	AC	AC		
2020-04-10	AC	AC	AC	AC	AC		
2020-04-11	AC	AC	AC	AC	AC		
2020-04-12	AC	AC	AC	AC	AC		
2020-04-13	AC	AC	AC	AC	AC		
2020-04-14	AC	AC	AC	AC	AC		
2020-04-15	AC	AC	AC	AC	AC		
2020-04-16	AC	AC	AC	AC	AC		
2020-04-17	AC	AC	AC	AC	AC		
2020-04-18	AC	AC	AC	AC	AC		
2020-04-19	AC	AC	AC	AC	AC		
2020-04-20	AC	AC	AC	AC	AC		
2020-04-21	AC	AC	AC	AC	AC		
2020-04-22	AC	AC	AC	AC	AC		
2020-04-23	AC	AC	AC	AC	AC		
2020-04-24	AC	AC	AC	AC	AC		
2020-04-25	AC	AC	AC	AC	AC		
2020-04-26	AC	AC	AC	AC	AC		
2020-04-27	AC	AC	AC	AC	AC		
2020-04-28	AC	AC	AC	AC	AC		
2020-04-29	AC	AC	AC	AC	AC		
2020-04-30	AC	AC	AC	AC	AC		
Minimum	202.0		1.0	23.8	3.7		
Maximum	202.0		1.0	23.8	3.7		
Average	202		1	23.8	3.7		
Count	1		1	1	1		
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-05-15 09:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 950515 STATUS: Original
 FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial Shoreway NW STATION CODE: 602
 Cleveland, OH 44115 MONITORING PERIOD : 2020-04-01 To: 2020-04-30
 COUNTY: Cuyahoga REPORTING LAB: NEORSD Analytical Services
 DISTRICT: NEDO ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
 NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-04-01							
2020-04-02							
2020-04-03							
2020-04-04							
2020-04-05							
2020-04-06							
2020-04-07							
2020-04-08							
2020-04-09							
2020-04-10							
2020-04-11							
2020-04-12							
2020-04-13							
2020-04-14							
2020-04-15							
2020-04-16							
2020-04-17							
2020-04-18							
2020-04-19							
2020-04-20							
2020-04-21							
2020-04-22							
2020-04-23							
2020-04-24							
2020-04-25							
2020-04-26							
2020-04-27							
2020-04-28							
2020-04-29							
2020-04-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-05-15 09:05	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS Westery WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-04-01 To: 2020-04-30
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID# 2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-04-05	mg/l	STANDARDS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-04-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
001	CBOD 5 day	80082	2020-04-12	mg/l	STANDARDS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-04-14	mg/l	STANDARDS DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA
001	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA NOT VALID DUE TO LAB ERROR.
001	E. coli	31648	2020-04-20	#/100 ml	DATA NOT VALID DUE TO LAB ERROR.
002	CBOD 5 day	80082	2020-04-08	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-05	mg/l	STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-04-09	mg/l	BLANKS AND STANDARDS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082		mg/l	STANDARDS DID NOT MEET QC CRITERIA

			2020-04-12		
601	CBOD 5 day	80082	2020-04-14	mg/l	STANDARDS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-04-30	mg/l	STANDARDS DID NOT MEET QC CRITERIA
601	Chromium, Dissolved Hexavalent	01220	2020-04-01	ug/l	DATA NOT VALID DUE TO LAB ERROR.

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 958415
 FACILITY: NEORSD Westerly WWTC
 LOCATION: 5800 Cleveland Memorial Shoreway NW
 Cleveland, OH 44115
 COUNTY: Cuyahoga
 DISTRICT: NEDO

STATUS: Original
 PERMIT NUMBER: 3PE00001*QD
 STATION CODE: 002

MONITORING PERIOD : 2020-05-01 To: 2020-05-31
REPORTING LAB: NEORSD Analytical Services
ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge	
PARAMETER CODE	31648	00530	80082	74062	74063	82517	
UNITS	#/100 ml	mg/l	mg/l	No./Month	Million Gallons	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	Total	24hr Total	24hr Total	
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15	672375	214	AE	1	70.3	7.40	
2020-05-16							
2020-05-17							
2020-05-18	AH	36	AE	1	46.1	7.40	
2020-05-19	AH	34	AE	0	29.5	8.00	
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum	672375.0	34.0		0.0	29.5	7.4	
Maximum	672375.0	214.0		1.0	70.3	8.0	
Average	672375	94.66667		0.66667	48.63333	7.6	
Count	1	3		3	3	3	
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko							

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID:	958415	STATUS:	Original
FACILITY:	NEORSD Westerly WWTC	PERMIT NUMBER:	3PE00001*QD
LOCATION:	5800 Cleveland Memorial Shoreway NW	STATION CODE:	602
	Cleveland, OH 44115	MONITORING PERIOD :	<u>2020-05-01</u> To: <u>2020-05-31</u>
COUNTY:	Cuyahoga	REPORTING LAB:	NEORSD Analytical Services
DISTRICT:	NEDO	ANALYST:	Cheryl Soltis-Muth Manager of Analytical Services
		NO DISCHARGE INDICATOR:	AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-05-01							
2020-05-02							
2020-05-03							
2020-05-04							
2020-05-05							
2020-05-06							
2020-05-07							
2020-05-08							
2020-05-09							
2020-05-10							
2020-05-11							
2020-05-12							
2020-05-13							
2020-05-14							
2020-05-15							
2020-05-16							
2020-05-17							
2020-05-18							
2020-05-19							
2020-05-20							
2020-05-21							
2020-05-22							
2020-05-23							
2020-05-24							
2020-05-25							
2020-05-26							
2020-05-27							
2020-05-28							
2020-05-29							
2020-05-30							
2020-05-31							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-06-15 13:06	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS Westerly WWTC PERMIT NUMBER: *3PE00001*QD*
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-05-01 To: 2020-05-31
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
001	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	E. coli	31648	2020-05-18	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	E. coli	31648	2020-05-19	#/100 ml	SAMPLE RECEIVED PAST HOLD TIME
002	CBOD 5 day	80082	2020-05-15	mg/l	SAMPLES NOT ANALYZED DUE TO LAB ERROR
002	CBOD 5 day	80082	2020-05-18	mg/l	STANDARD DID NOT MEET QC CRITERIA
002	CBOD 5 day	80082	2020-05-19	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-03	mg/l	STANDARD DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-05	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-07	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-14	mg/l	BLANKS DID NOT MEET QC CRITERIA
601	CBOD 5 day	80082	2020-05-17	mg/l	STANDARD DID NOT MEET QC CRITERIA

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 966186 STATUS: Original
 FACILITY: NEORSD Westerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial Shoreway NW STATION CODE: 002
 Cleveland, OH 44115
 COUNTY: Cuyahoga MONITORING PERIOD : 2020-06-01 To: 2020-06-30
 DISTRICT: NEDO REPORTING LAB: NEORSD Analytical Services
 ANALYST: Cheryl Soltis-Muth Manager of Analytical Services

NO DISCHARGE INDICATOR:

PARAMETER	E. coli	Total Suspended Solids	CBOD 5 day	Overflow Occurrence	Overflow Volume	Duration of Discharge	
PARAMETER CODE	31648	00530	80082	74062	74063	82517	
UNITS	#/100 ml	mg/l	mg/l	No./Month	Million Gallons	Hours	
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	
SAMPLING TYPE	Grab	Grab	Grab	Total	24hr Total	24hr Total	
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23	428000	140	28	1	11.0	1.70	
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27	668050	87	AE	1	8.4	4	
2020-06-28							
2020-06-29							
2020-06-30							
Minimum	428000.0	87.0	28.0	1.0	8.4	1.7	
Maximum	668050.0	140.0	28.0	1.0	11.0	4.0	
Average	548025	113.5	28	1	9.7	2.85	
Count	2	2	1	2	2	2	
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-07-14 14:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

SUBMISSION ID: 966186
 FACILITY: NEORS Westlerly WWTC
 LOCATION: 5800 Cleveland Memorial
 Shoreway NW
 Cleveland, OH 44115
 COUNTY: Cuyahoga
 DISTRICT: NEDO

STATUS: Original
 PERMIT NUMBER: 3PE00001*QD
 STATION CODE: 602

MONITORING PERIOD : 2020-06-01 To: 2020-06-30
REPORTING LAB: NEORS Analytical Services
ANALYST: Cheryl Soltis-Muth Manager of Analytical Services
NO DISCHARGE INDICATOR: AL

PARAMETER	Total Suspended Solids	CBOD 5 day	Bypass Occurrence	Bypass Total Hours Per Day	Bypass Volume		
PARAMETER CODE	00530	80082	00051	00052	51428		
UNITS	mg/l	mg/l	No./Day	Hrs/Day	MGAL		
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.		
SAMPLING TYPE	24hr Composite	24hr Composite	24hr Total	24hr Total	24hr Total		
2020-06-01							
2020-06-02							
2020-06-03							
2020-06-04							
2020-06-05							
2020-06-06							
2020-06-07							
2020-06-08							
2020-06-09							
2020-06-10							
2020-06-11							
2020-06-12							
2020-06-13							
2020-06-14							
2020-06-15							
2020-06-16							
2020-06-17							
2020-06-18							
2020-06-19							
2020-06-20							
2020-06-21							
2020-06-22							
2020-06-23							
2020-06-24							
2020-06-25							
2020-06-26							
2020-06-27							
2020-06-28							
2020-06-29							
2020-06-30							
Minimum							
Maximum							
Average							
Count							
Name of Responsible Official or Authorized Representative	I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.			Signature of Responsible Official or Authorized Representative		Submission Date/Time	
Eric Tanko						2020-07-14 14:07	

Ohio EPA - Daily Discharge Monitoring Report - Form 4500

FACILITY: NEORS Westlerly WWTC PERMIT NUMBER: 3PE00001*QD
 LOCATION: 5800 Cleveland Memorial MONITORING 2020-06-01 To: 2020-06-30
 Shoreway NW PERIOD :
 Cleveland, OH 44115

GENERAL REPORT COMMENT:

Plant operational data including Temp, DO, pH Flow and Chl. Res is approved and validated by the plant Superintendents. Analytical Data is approved by the Laboratory Manager. All analytical data generated by the Laboratory is NELAP compliant (NH DES Lab ID#2238).

PARAMETER COMMENTS:

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
001	E. coli	31648	2020-06-10	#/100 ml	INCUBATOR MALFUNCTION
001	CBOD 5 day	80082	2020-06-15	mg/l	STANDARD DID NOT MEET QC CRITERIA.
002	CBOD 5 day	80082	2020-06-27	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-01	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-07	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-08	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-15	mg/l	STANDARD DID NOT MEET QC CRITERIA.
601	CBOD 5 day	80082	2020-06-23	mg/l	BLANKS DID NOT MEET QC CRITERIA.
601	Chromium, Dissolved Hexavalent	01220	2020-06-01	ug/l	METHOD BACKGROUND CORRECTION OMITTED BY MISTAKE.

CSO & Stream Assessment Annual Report

2019



Northeast Ohio Regional Sewer District

COMBINED SEWER OVERFLOW & STREAM ASSESSMENT ANNUAL REPORT

2019

NPDES PERMIT 3PA00002*HD

April 27, 2020

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ATTACHMENTS

Appendix A:	2019 Observed Precipitation Statistics by District Precipitation Gauge
Appendix B:	Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data
Appendix C:	2019 Qualitative Habitat Evaluation Index Sheets

Appendix D: 2019 Macroinvertebrate Field Sheets and Results

Appendix E: 2019 Fish Data Sheets

Appendix F: 2019 Water Chemistry Results

Appendix G: 2019 Surface Water Condition Sampling Field Sheets

1.0 Introduction

Part II, Section K of the Combined Sewer Overflow (CSO) National Pollutant Discharge Elimination System (NPDES) Permit 3PA00002*HD requires that the Northeast Ohio Regional Sewer District (District) submit an annual report. The purpose of this report is to provide estimated CSO volumes and activations for all permitted CSO locations in the District's combined sewer system (CSS) during the previous calendar year (January 1, 2019 through December 31, 2019). A select group of permitted CSO outfalls were monitored during this period in accordance with Part I, B of Permit 3PA00002*HD. Model-estimated CSO volumes and activations were used to supplement the annual reporting for permitted CSO outfalls not monitored in 2019. This report provides a summary of the CSO performance for the previous calendar year, changes to the Nine Minimum Control (NMC) program, and the data collected during stream assessment activities.

The Report is organized into three (3) major sections:

- CSO Activations & Volumes (**Section 2**)
- Nine Minimum Control Program Modifications (**Section 3**)
- Stream Assessment Results (**Section 4**)

2.0 CSO Activations and Volumes

This section presents the CSO activations and associated volumes, which includes monitored data as well as model-estimated volumes and activations for all permitted CSO locations in the District's CSS from January 1, 2019 through December 31, 2019. The modeled estimates were developed using the District's current baseline conditions models. A summary of the modeling approach used to estimate the CSO statistics is provided as follows.

2.1 Precipitation Data

The District owns and maintains a network of 29 permanent precipitation gauges as shown in **Figure 1**. The 29 precipitation gauges used for 2019 analysis are listed in **Table 1**. Precipitation data in 5-minute intervals from January 1, 2019 through December 31, 2019 was processed into 1-hour intervals for use in model estimate results for consistency purposes in comparing CSO performance with the District's standard synthetic Typical Year rainfall.

Table 1 lists the total recorded precipitation depths for each precipitation gauge, as well as the rainfall profile ID assigned to each precipitation gauge in the baseline conditions models. If a precipitation gauge had missing data, the data gaps were augmented with gauge-adjusted radar rainfall (GARR) data. Data gaps were augmented using 5-minute interval precipitation prior to processing to hourly precipitation. **Table 1** also presents the supplemental GARR precipitation and the GARR-augmented total precipitation.

Precipitation statistics for each precipitation gauge were developed using the Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox program developed by the United States Environmental Protection Agency (EPA). An inter-event duration of 12 hours was used to define individual rainfall events. Precipitation statistics for each event (total depth, duration, peak 1-hour intensity, and antecedent moisture conditions) for each precipitation gauge are provided in **Appendix A**. The precipitation statistics were developed based on the 5-minute precipitation data.

Precipitation data was then spatially distributed using the Thiessen Polygon tool available in ESRI's ArcGIS. Respective precipitation gauge hyetographs were assigned to entire subcatchments if the centroid of the subcatchment delineation was located within a Thiessen polygon. A more detailed description of how the precipitation data was spatially distributed is provided as **Appendix B**.

An area-weighted precipitation time series was developed based on the acreage of combined sewer service area associated with each precipitation gauge’s Thiessen polygon. The area-weighted time series was used to compute summary precipitation statistics for 2019 presented in Section 2.5.

The statistics for each CSO service area were generated using the built-in statistics report tool in the InfoWorks Integrated Catchment Modeling (ICM) software platform. The ICM statistics template was developed for each baseline conditions model with the “combine events where gap is less than” duration set equal to 12 hours to define overflow activations at each modeled overflow element. Overflow activations occurring within 12 hours of each other were counted as one single overflow activation.

Figure 1. NEORS D Precipitation Gauge Network

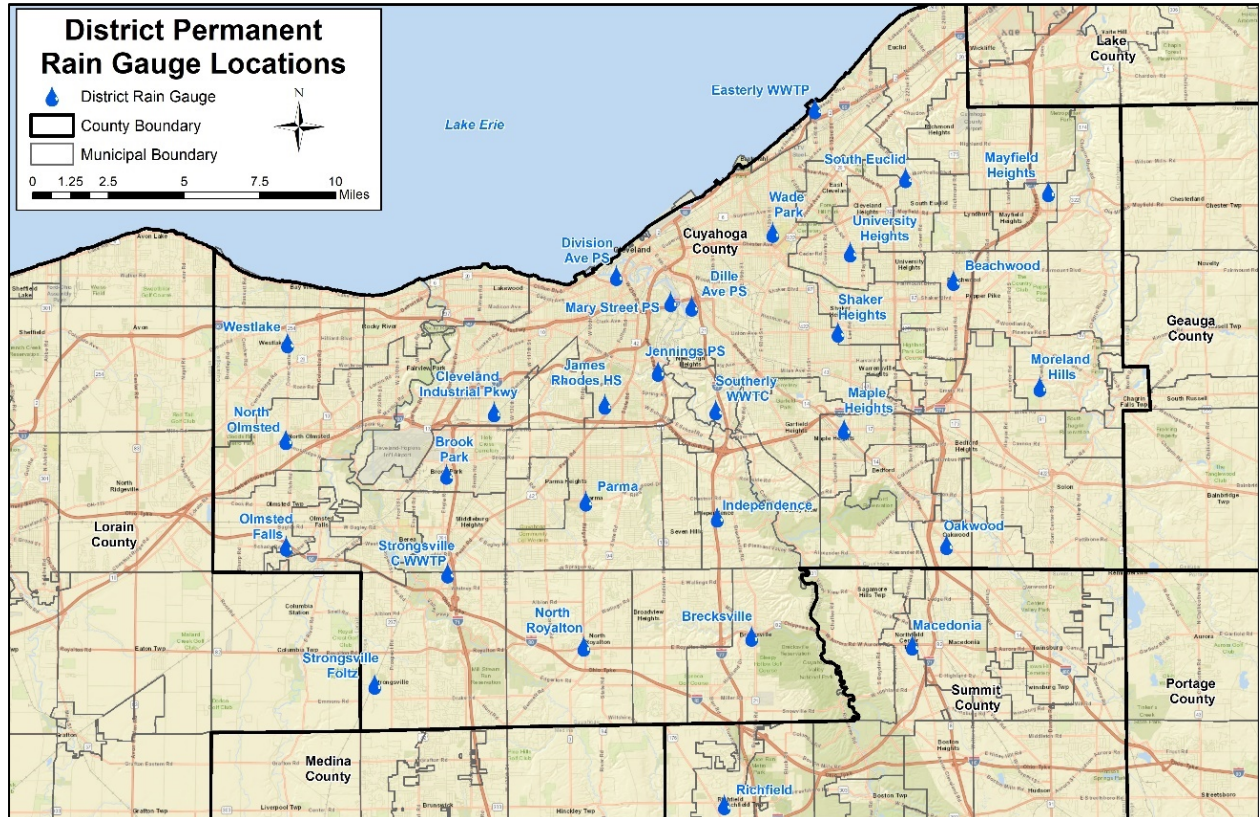


Table 1. Total Precipitation Observed from January 1, 2019 through December 31, 2019

Precipitation Gauge ²	Total Precipitation Depth (inches)	Total Precipitation Depth after supplemental GARR data (inches)	Model Rainfall Profile
Beachwood	49.19	49.19	1
Brecksville	44.89	45.34	2
Brook Park	42.12	43.20	3
Cleveland Industrial Pkwy	44.62	45.66	5
Dille Ave PS	35.64	39.84	6
Division Ave PS	42.23	42.30	7
Easterly WWTP	36.06	36.78	8
Independence	50.15	50.15	9
James Rhodes HS	42.01	42.01	10
Jennings PS	46.49	47.08	11
Macedonia	44.57	45.68	12
Maple Heights	47.31	47.31	13
Mary Street PS	40.65	40.68	4
Mayfield Heights	48.43	49.25	14
Moreland Hills ¹	29.16	48.10	15
North Olmsted ²	30.91	41.55	16
North Royalton	44.51	44.51	17
Oakwood	44.07	44.07	18
Olmsted Falls	46.34	46.34	19
Parma	42.6	42.60	20
Richfield	41.4	41.44	21
Shaker Heights	46.73	47.07	22
South Euclid	47.43	47.43	23
Southerly WWTC	44.35	44.62	24
Strongsville C WWTP	46.97	46.97	25
Strongsville Foltz	39.97	39.97	26
University Hts	44.92	44.92	27
Wade Park	40.47	40.47	28
Westlake	42.05	42.05	29

¹ Moreland Hills (RMN) was out of service from 1/15/2019 to 6/7/2019 due to a roof replacement.

² North Olmsted (RNT) was out of service from 8/16/19 to 12/27/19 due to a roof replacement project.

2.2 CSO Models

The District owns and actively maintains six (6) baseline condition models to reflect current conditions in the CSS (**Table 2**). Baseline conditions assumes modulating devices, such as control gates, inflatable dams, and pumps, are operating as designed or last field verified, and sewers are clean and free of debris unless known sedimentation issues have been documented and removal determined to be cost prohibitive. The

models and simulation results presented here for 2019 were developed using Innovyze’s InfoWorks ICM 9.5 (Version 9.5.1.19011 December 2018) modeling software platform using continuous simulation of hourly precipitation data. Continuous simulation of hourly precipitation data is consistent with the approach for Typical Year rainfall simulations. Continuous simulation takes antecedent soil moisture conditions into account when predicting overflows.

The Easterly, Southerly, and Westerly systems were noted to have completed improvement projects that updated system operations for certain periods throughout 2019. To reflect the changes, improvements were grouped accordingly to represent system performance at key milestones. Easterly model simulations were broken into four periods; Southerly simulations were broken into two periods; and, Westerly simulations were broken into two periods.

The four simulation periods for the Easterly system were as follows:

1. **January 1st to March 1st:** ECT-2, ECT-3, and ECT-5 gates were open.
2. **March 1st to July 1st:** ECT-2, ECT-3, and ECT-5 gates were closed to support construction activities for the Dugway Storage Tunnel (DST) system and remaining ECT-4 connection.
3. **July 1st to November 15th:** The Appendix 3 Green Infrastructure (GI) portion of the East 140th Consolidation and Relief Sewer (E140CRS) and Buckeye GI facilities were completed and put into operation. ECT-2, ECT-3, and ECT-5 gates remained closed.
4. **November 15th to December 31st:** ECT-2, ECT-3, and ECT-5 gates were reopened.

Note: The DST came online in December 2019 which allowed associated tunnel connections for CSOs 209, 230, and 231 to also be opened. These system changes were not incorporated into the model representation at the time of this report. Reported CSO performance at these CSOs are considered conservative and expected to be less.

The two simulation periods for the Southerly system included:

1. **January 1st to July 1st:** All scheduled Appendix 3 GI projects in the Southerly system, except for Union GI, were operational.
2. **July 1st to December 31st:** The Union GI facility was operational.

The three simulation periods for Westerly system were as follows:

1. **January 1st to March 21st:** The Westerly Low-Level Relief Sewer (WLLRS) project was substantially completed and operational, except for modifications at regulator WR-09/CSO 076.
2. **March 21st to September 1st:** Associated regulators for CSOs 066 and 083 were abandoned and outfalls were converted to separated stormwater only outfalls.
3. **September 1st to December 31st:** The WR-09/CSO 076 and WR-18/CSO 078 modifications were completed. Associated regulators for CSO 085 were abandoned and outfalls were converted to separated stormwater only outfalls.

Table 2. District’s Baseline Condition Models

Baseline Conditions Model	Model Version
Big Creek	BCBL201910MM
Easterly ^{1,2,3}	ESBG201910MM-20191031_no_E140_UBGI
	ESBG201910MM-20191031_noE140_UBGI_noECT
	ESBG201910MM-20191031_noECT
	ESBG201910MM-20191031

Heights-Hilltop	HHCS201901MM
Mill Creek ⁴	MCCS
Southerly ^{1,2}	SOBG201910MM_Jan1_2019-June30_2019
	SOBG201910MM_July1_2019-Dec31_2019
Westerly ⁵	WEBL201907MM-20191120_Jan2019_Mar2019
	WEBL201907MM-20191120_Mar2019_Aug2019
	WEBL201907MM-20191120_Sept2019_Dec2019

¹ Representations of four (4) of the District's Appendix 3 green infrastructure (GI) projects (i.e., Green Ambassador – Fairhill-MLK GI, University Circle GI, Green Ambassador – Urban Agriculture GI, and Fleet Ave GI) built and operational prior to January 1, 2017 are included in the Easterly and Southerly models. All projects were operational at the start of 2017 year and were included in the 2019 model simulations.

² Representations of two (2) of the District's Appendix 3 green infrastructure (GI) projects (i.e., E140CRS, Union-Buckeye GI (UBGI)) were complete and operational on July 1st, 2019 and are included in Easterly and Southerly Models (post July 1st, 2019).

³ The Easterly Baseline Conditions model was split into four simulations for 2019. The ESBG201910MM-20191031_no_E140_UBGI model represented the system with gates at ECT-2, ECT-3, and ECT-5 open and E140CRS not in operation (ran from January 1 through February 28, 2019). The ESBG201910MM-20191031_noE140_UBGI_noECT model represented the system with gates at ECT-2, ECT-3, and ECT-5 closed and E140CRS not in operation (ran from March 1 through June 30, 2019). The ESBG201910MM-20191031_noECT model represented the system with E140CRS in operation and gates at ECT-2, ECT-3, and ECT-5 closed (ran from July 1 through November 14, 2019). The ESBG201910MM-20191031 model represented the system with E140CRS in operation and gates at ECT-2, ECT-3, and ECT-5 open (ran from November 15, 2019 through December 31, 2019).

⁴ Mill Creek Collection System Model and simulation results were obtained from MCI-LSES contract's draft project model currently undergoing recalibration based on monitoring data.

⁵ The Westerly model was split into three simulations for 2019. The Model version WEBL201907MM-20191120_Jan2019_Mar2019 was simulated from January 1, 2019 through March 20th. Model version WEBL201907MM-20191120_Mar2019_Aug2019 was simulated from March 21st through August 31, 2019 representing abandonment of CSO 066 and 083 regulators. Model version WEBL201907MM-20191120_Sept2019_Dec2019 was simulated from September 1 through December 31, 2019 representing the period the WLLRS improvements were officially brought online and operational with modifications at associated regulators at CSO 076 and 078, associated regulators to CSO 085 were abandoned.

2.3 2019 CSO Volumes and Activations

In accordance with the District's CSO NPDES permit 3PA00002*HD, the District monitors the CSOs listed in **Table 3**.

Table 3. 2019 Monitored CSOs

Outfall Names				
CSO 025	CSO 045	CSO 072	CSO 206	CSO 258
CSO 035	CSO 056	CSO 080	CSO 211	
CSO 038	CSO 058	CSO 088	CSO 218	
CSO 040	CSO 059	CSO 200	CSO 239	
CSO 044	CSO 069	CSO 202	CSO 242	

Model-estimated CSO volumes and activations were quantified using the latest versions of the District's collection system models (**Table 2**) to supplement the monitoring data for all CSO outfalls contained in the NPDES permit. Total annual CSO volumes and activations for the January 1, 2019 through December 31, 2019 period are presented in **Table 4**. Total annual CSO performance at CSOs not monitored are based on model results following the approach described in Section 2.2 above for the full 2019 period. Total

annual CSO performance at CSOs that were monitored for the entire or partial 2019 period are a composite of the model-estimates and monitoring results in which time periods were not overlapped.

Table 4. 2019 CSO Volumes and Activations

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 007	Mill Creek	0	0	N/A	N/A	0	0
CSO 013	Mill Creek	0	0	N/A	N/A	0	0
CSO 014	Mill Creek	0	0	N/A	N/A	0	0
CSO 017	Mill Creek	5	3.1	N/A	N/A	5	3.1
CSO 019	Mill Creek	0	0	N/A	N/A	0	0
CSO 020	Mill Creek	1	0.4	N/A	N/A	1	0.4
CSO 021	Mill Creek	0	0	N/A	N/A	0	0
CSO 022	Mill Creek	2	0.3	N/A	N/A	2	0.3
CSO 025	Mill Creek	N/A	N/A	4	0.5	4	0.5
CSO 027	Mill Creek	0	0	N/A	N/A	0	0
CSO 028	Mill Creek	0	0	N/A	N/A	0	0
CSO 030	Mill Creek	0	0	N/A	N/A	0	0
CSO 031	Mill Creek	4	0.8	N/A	N/A	4	0.8
CSO 032	Mill Creek	0	0	N/A	N/A	0	0
CSO 033	Southerly	11	1.5	N/A	N/A	11	1.5
CSO 035	Southerly	N/A	N/A	28	4.4	28	4.4
CSO 036	Southerly	49	213.5	N/A	N/A	49	213.5
CSO 037	Southerly	0	0	N/A	N/A	0	0
CSO 038	Southerly	N/A	N/A	0	0	0	0
CSO 039	Southerly	44	8.7	N/A	N/A	44	8.7
CSO 040 ¹	Southerly	N/A	N/A	47	104.8	47	104.8
CSO 043	Big Creek	0	0	N/A	N/A	0	0
CSO 044	Big Creek	N/A	N/A	14	0.4	14	0.4
CSO 045	Big Creek	N/A	N/A	14	2.8	14	2.8
CSO 050	Big Creek	10	0.8	N/A	N/A	10	0.8
CSO 051	Big Creek	30	37.4	N/A	N/A	30	37.4
CSO 052	Big Creek	2	0.2	N/A	N/A	2	0.2
CSO 053	Big Creek	40	44	N/A	N/A	40	44
CSO 054	Big Creek	35	53.8	N/A	N/A	35	53.8
CSO 055	Big Creek	2	1.5	N/A	N/A	2	1.5
CSO 056	Big Creek	N/A	N/A	35	43.9	35	43.9
CSO 057	Big Creek	59	246	N/A	N/A	59	246
CSO 058	Big Creek	N/A	N/A	42	476	42	476
CSO 059	Big Creek	N/A	N/A	15	7.5	15	7.5

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 060	Big Creek	0	0	N/A	N/A	0	0
CSO 062 ²	Big Creek	AH	AH	N/A	N/A	AH	AH
CSO 063	Big Creek	1	0.1	N/A	N/A	1	0.1
CSO 064	Westerly	4	0.3	N/A	N/A	4	0.3
CSO 065	Westerly	1	<0.1	N/A	N/A	1	<0.1
CSO 066 ⁵	Westerly	0	0	N/A	N/A	0	0
CSO 067	Westerly	4	1.3	N/A	N/A	4	1.3
CSO 068	Westerly	45	20.1	N/A	N/A	45	20.1
CSO 069	Westerly	N/A	N/A	2	0.2	2	0.2
CSO 071	Westerly	0	0	N/A	N/A	0	0
CSO 072	Southerly	N/A	N/A	12	2.6	12	2.6
CSO 073	Easterly	30	61.2	N/A	N/A	30	61.2
CSO 074	Westerly	11	2.1	N/A	N/A	11	2.1
CSO 075	Westerly	1	<0.1	N/A	N/A	1	<0.1
CSO 076 ⁷	Westerly	4	0.4	N/A	N/A	4	0.4
CSO 078 ⁷	Westerly	0	0	N/A	N/A	0	0
CSO 079 ³	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 080	Westerly	N/A	N/A	67	309.7	67	309.7
CSO 081	Westerly	3	0.8	N/A	N/A	3	0.8
CSO 082	Westerly	16	1.6	N/A	N/A	16	1.6
CSO 083 ⁵	Westerly	0	0	N/A	N/A	0	0
CSO 084	Westerly	1	<0.1	N/A	N/A	1	<0.1
CSO 085 ⁶	Westerly	1	<0.1	N/A	N/A	1	<0.1
CSO 086	Westerly	3	1.5	N/A	N/A	3	1.5
CSO 087	Westerly	45	10.1	N/A	N/A	45	10.1
CSO 088	Westerly	N/A	N/A	48	17.8	48	17.8
CSO 089	Westerly	8	0.4	N/A	N/A	8	0.4
CSO 090 ³	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO SAPS ¹⁰	Easterly	1	<0.1	N/A	N/A	1	<0.1
CSO SLPS ³	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 091	Easterly	0	0	N/A	N/A	0	0
CSO 092	Easterly	0	0	N/A	N/A	0	0
CSO 093	Easterly	0	0	N/A	N/A	0	0
CSO 094	Easterly	35	29.5	N/A	N/A	35	29.5
CSO 095	Easterly	5	5.9	N/A	N/A	5	5.9
CSO 096	Easterly	22	11.7	N/A	N/A	22	11.7
CSO 097	Easterly	15	2.5	N/A	N/A	15	2.5
CSO 098	Easterly	60	21.8	N/A	N/A	60	21.8

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 099	Easterly	3	0.9	N/A	N/A	3	0.9
CSO 200	Easterly	N/A	N/A	70	69.6	70	69.6
CSO 201	Easterly	38	21.9	N/A	N/A	38	21.9
CSO 202	Easterly	N/A	N/A	46	29.9	46	29.9
CSO 203	Easterly	11	4	N/A	N/A	11	4
CSO 204	Easterly	64	63.6	N/A	N/A	64	63.6
CSO 205	Easterly	54	20.8	N/A	N/A	54	20.8
CSO 206 ⁴	Easterly	N/A	N/A	48	57.5	48	57.5
CSO 207	Easterly	0	0	N/A	N/A	0	0
CSO 208	Easterly	0	0	N/A	N/A	0	0
CSO 209	Easterly	47	38	N/A	N/A	47	38
CSO 210 ⁴	Easterly	46	68.9	N/A	N/A	46	68.9
CSO 211	Easterly	N/A	N/A	8	2.1	8	2.1
CSO 212	Easterly	29	1.6	N/A	N/A	29	1.6
CSO 214	Easterly	34	8.4	N/A	N/A	34	8.4
CSO 215	Easterly	0	0	N/A	N/A	0	0
CSO 216	Easterly	0	0	N/A	N/A	0	0
CSO 217	Easterly	43	7.6	N/A	N/A	43	7.6
CSO 218	Easterly	N/A	N/A	49	14.8	49	14.8
CSO 219	Easterly	2	<0.1	N/A	N/A	2	<0.1
CSO 220	Easterly	31	20.5	N/A	N/A	31	20.5
CSO 221	Easterly	54	29.4	N/A	N/A	54	29.4
CSO 222	Easterly	49	183.1	N/A	N/A	49	183.1
CSO 223	Easterly	0	0	N/A	N/A	0	0
CSO 224	Easterly	16	2.9	N/A	N/A	16	2.9
CSO 225	Easterly	0	0	N/A	N/A	0	0
CSO 226	Easterly	1	0.2	N/A	N/A	1	0.2
CSO 230	Easterly	3	0.8	N/A	N/A	3	0.8
CSO 231	Easterly	38	25.9	N/A	N/A	38	25.9
CSO 232	Easterly	74	101.8	N/A	N/A	74	101.8
CSO 233	Big Creek	67	25.1	N/A	N/A	67	25.1
CSO 234	Easterly	44	27.8	N/A	N/A	44	27.8
CSO 235 ³	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 236 ³	Easterly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 238	Big Creek	2	0.7	N/A	N/A	2	0.7
CSO 239	Easterly	N/A	N/A	0	0	0	0
CSO 240	Westerly	8	0.5	N/A	N/A	8	0.5
CSO 241	Big Creek	1	0.1	N/A	N/A	1	0.1

Outfall Name	Baseline Conditions Model	Model-Estimated		Monitored		Annual Total	
		# of Overflows	Volume (MG)	# of Overflows	Volume (MG)	# of Overflows	Volume (MG)
CSO 242 ⁴	Easterly	N/A	N/A	9	22.5	9	22.5
CSO 243	Mill Creek	5	0.1	N/A	N/A	5	0.1
CSO 245	Mill Creek	0	0	N/A	N/A	0	0
CSO 246	Mill Creek	0	0	N/A	N/A	0	0
CSO 247	Mill Creek	1	<0.1	N/A	N/A	1	<0.1
CSO 249 ⁹	Mill Creek	AH	AH	N/A	AH	AH	AH
CSO 250	Southerly	0	0	N/A	N/A	0	0
CSO 252	Mill Creek	5	1	N/A	N/A	5	1
CSO 253 ³	Westerly	N/A	N/A	N/A	N/A	N/A	N/A
CSO 254 ⁸	Big Creek	AH	AH	N/A	AH	AH	AH
CSO 255	Big Creek	13	4	N/A	N/A	13	4
CSO 256	Easterly	1	<0.1	N/A	N/A	1	<0.1
CSO 257	Big Creek	0	0	N/A	N/A	0	0
CSO 258	Mill Creek	N/A		2	10.3	2	10.3
Total			1,443.7		1,177.3		2,621.0

¹ Regulator SO-08A came online and SO-08 was modified in 2018. The monitored results reflect the changes in system.

² Modeling data is not available for CSO 062. Project out for bid that will eliminate CSO 062.

³ Associated regulators for this CSO were eliminated prior to 2019.

⁴ CSOs 206, 210, and 242 overflow performance was affected by inflow control gate closures to ECT to support construction activities for the DST system between March 1, 2019 through November 15, 2019.

⁵ CSO 066 and CSO 083 are stormwater only outlets as of March 21, 2019 after associated regulators were abandoned.

⁶ CSO 085 is a stormwater only outlet as of September 17, 2019 after associated regulators were abandoned.

⁷ CSO 076 and CSO 078 overflow performance were affected by the WLLRS becoming fully operational as of September 1, 2019.

⁸ Associated regulators and CSO 254 tributary area are not represented in the Big Creek collection system model. Model representation is scheduled to be expanded.

⁹ Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model. Model representation is underway MCI-LSESS contract currently in progress.

¹⁰ Upon completion of the Superior Avenue Pump Station Project in 2019 and review of CSO permit renewal, currently under review by EPA, this will likely be the new CSO 090 due to its proximity to the former CSO 090.

In the 2019 eDMR report, CSO 062 was reported with the AH code since modeling data is not currently available for this outfall. The regulator associated with CSO 062 (BC 74) is in the process of being abandoned. The current baseline conditions model reflects abandonment of regulator BC-74 and, therefore, is not capable of providing model-estimated CSO volume or activation results. Water quality testing is currently being performed to confirm upstream sewer separation efforts. The District is continuing to work with the City of Cleveland to address illicit discharges to this sewer before removing BC-74 and eliminating CSO 062. The District is conducting a project to remove seven laterals that connect to the main sewer. Following this work in 2020 and confirmatory water quality samples, BC-74 will be eliminated and CSO 062 will become a stormwater only outfall. If the separation efforts are found to be unsuccessful in eliminating the upstream sanitary flows, the baseline conditions model will be revised accordingly for future reporting purposes while the District continues to address the illicit discharge issue.

2.4 Typical Year Rainfall Data

Table 5 presents the 121 rainfall events that comprise the District's synthetic Typical Year for the period of January 1st through December 31st.

Table 5. Rainfall Events for Typical Year (January through December)

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
1	01/03/93	0.01	1	0.01	0.01
2	01/05/93	0.18	10	0.02	0.03
3	01/09/93	0.03	2	0.01	0.02
4	01/11/93	0.39	19	0.02	0.09
5	01/12/93	0.04	21	<0.01	0.01
6	01/15/93	0.33	8	0.04	0.08
7	01/16/93	0.17	10	0.02	0.03
8	01/20/93	0.53	30	0.02	0.05
9	01/26/93	0.03	10	<0.01	0.01
10	01/27/93	0.08	4	0.02	0.03
11	01/29/93	0.37	11	0.03	0.1
12	01/30/93	0.01	1	0.01	0.01
13	01/31/93	0.01	1	0.01	0.01
14	02/05/93	0.01	1	0.01	0.01
15	02/06/93	0.1	9	0.01	0.02
16	02/10/93	0.73	20	0.04	0.09
17	02/13/93	1.53	59	0.03	0.16
18	02/16/93	0.18	14	0.01	0.04
19	02/18/93	0.08	13	0.01	0.04
20	02/19/93	0.29	7	0.04	0.1
21	02/26/93	0.08	40	<0.01	0.01
22	02/28/93	0.04	4	0.01	0.02
23	03/02/93	0.06	14	<0.01	0.02
24	03/03/93	0.7	24	0.03	0.1
25	03/06/93	0.83	14	0.06	0.13
26	03/09/93	0.07	2	0.04	0.05
27	03/10/93	0.08	4	0.02	0.03
28	03/17/93	0.5	31	0.02	0.07
29	03/22/93	0.32	4	0.08	0.18
30	03/22/93	0.14	3	0.05	0.08
31	03/23/93	0.23	10	0.02	0.06
32	03/26/93	0.02	1	0.02	0.02
33	03/27/93	0.62	1	0.62	0.62
34	03/31/93	0.07	6	0.01	0.03

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
35	04/01/93	0.16	5	0.03	0.07
36	04/02/93	0.06	12	<0.01	0.02
37	04/09/93	0.77	16	0.05	0.09
38	04/11/93	0.09	1	0.09	0.09
39	04/14/93	0.03	2	0.02	0.02
40	04/15/93	0.34	3	0.11	0.16
41	04/19/93	0.27	13	0.02	0.11
42	04/20/93	0.61	18	0.03	0.13
43	04/24/93	0.03	2	0.02	0.02
44	04/25/93	0.46	15	0.03	0.16
45	04/30/93	0.1	6	0.02	0.03
46	05/04/93	0.63	25	0.03	0.22
47	05/19/93	0.15	6	0.03	0.07
48	05/23/93	0.01	1	0.01	0.01
49	05/24/93	0.08	6	0.01	0.04
50	05/28/93	0.03	2	0.02	0.02
51	05/31/93	0.16	2	0.08	0.08
52	06/03/93	0.07	2	0.04	0.04
53	06/05/93	0.37	6	0.06	0.25
54	06/07/93	1.56	9	0.17	0.67
55	06/09/93	0.21	1	0.21	0.21
56	06/09/93	0.24	1	0.24	0.24
57	06/19/93	0.31	2	0.16	0.22
58	06/20/93	0.54	26	0.02	0.15
59	06/25/93	0.08	1	0.08	0.08
60	06/27/93	0.94	1	0.94	0.94
61	07/01/93	0.05	4	0.01	0.02
62	07/03/93	0.01	1	0.01	0.01
63	07/04/93	0.44	1	0.44	0.44
64	07/06/93	0.47	1	0.47	0.47
65	07/11/93	0.35	3	0.12	0.24
66	07/19/93	0.14	2	0.07	0.13
67	07/26/93	0.04	2	0.02	0.02
68	07/28/93	1.08	9	0.12	0.72
69	07/29/93	0.67	3	0.22	0.31
70	08/02/93	0.42	2	0.21	0.41
71	08/03/93	0.42	10	0.04	0.2
72	08/06/93	0.1	4	0.03	0.06
73	08/07/93	0.13	1	0.13	0.13

Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
74	08/10/93	0.02	2	0.01	0.01
75	08/11/93	0.24	4	0.06	0.23
76	08/12/93	0.02	1	0.02	0.02
77	08/16/93	0.07	1	0.07	0.07
78	08/20/93	0.01	1	0.01	0.01
79	08/28/93	0.06	1	0.06	0.06
80	08/31/93	0.03	6	0.01	0.02
81	09/02/93	1.02	21	0.05	0.67
82	09/06/93	0.35	1	0.35	0.35
83	09/07/93	0.01	1	0.01	0.01
84	09/10/93	0.01	1	0.01	0.01
85	09/10/93	0.01	1	0.01	0.01
86	09/15/93	2.38	16	0.15	0.4
87	09/22/93	0.12	16	0.01	0.05
88	09/25/93	1.63	20	0.08	0.29
89	09/27/93	0.15	9	0.02	0.06
90	09/28/93	0.23	3	0.08	0.12
91	09/29/93	0.97	17	0.06	0.24
92	10/01/93	0.01	1	0.01	0.01
93	10/01/93	0.58	6	0.1	0.22
94	10/09/93	0.43	13	0.03	0.13
95	10/16/93	0.6	16	0.04	0.18
96	10/19/93	0.04	1	0.04	0.04
97	10/20/93	0.04	6	0.01	0.02
98	10/27/93	0.15	4	0.04	0.1
99	10/30/93	1.67	39	0.04	0.12
100	11/01/93	0.01	1	0.01	0.01
101	11/07/93	0.12	12	0.01	0.02
102	11/11/93	0.69	7	0.1	0.14
103	11/12/93	0.21	12	0.02	0.06
104	11/15/93	0.62	31	0.02	0.1
105	11/18/93	0.3	21	0.01	0.1
106	11/20/93	0.46	19	0.02	0.14
107	11/23/93	0.24	3	0.08	0.12
108	11/24/93	0.03	8	0	0.01
109	11/25/93	0.01	1	0.01	0.01
110	11/28/93	0.19	8	0.02	0.05
111	11/30/93	0.04	1	0.04	0.04
112	12/02/93	1.19	17	0.07	0.29

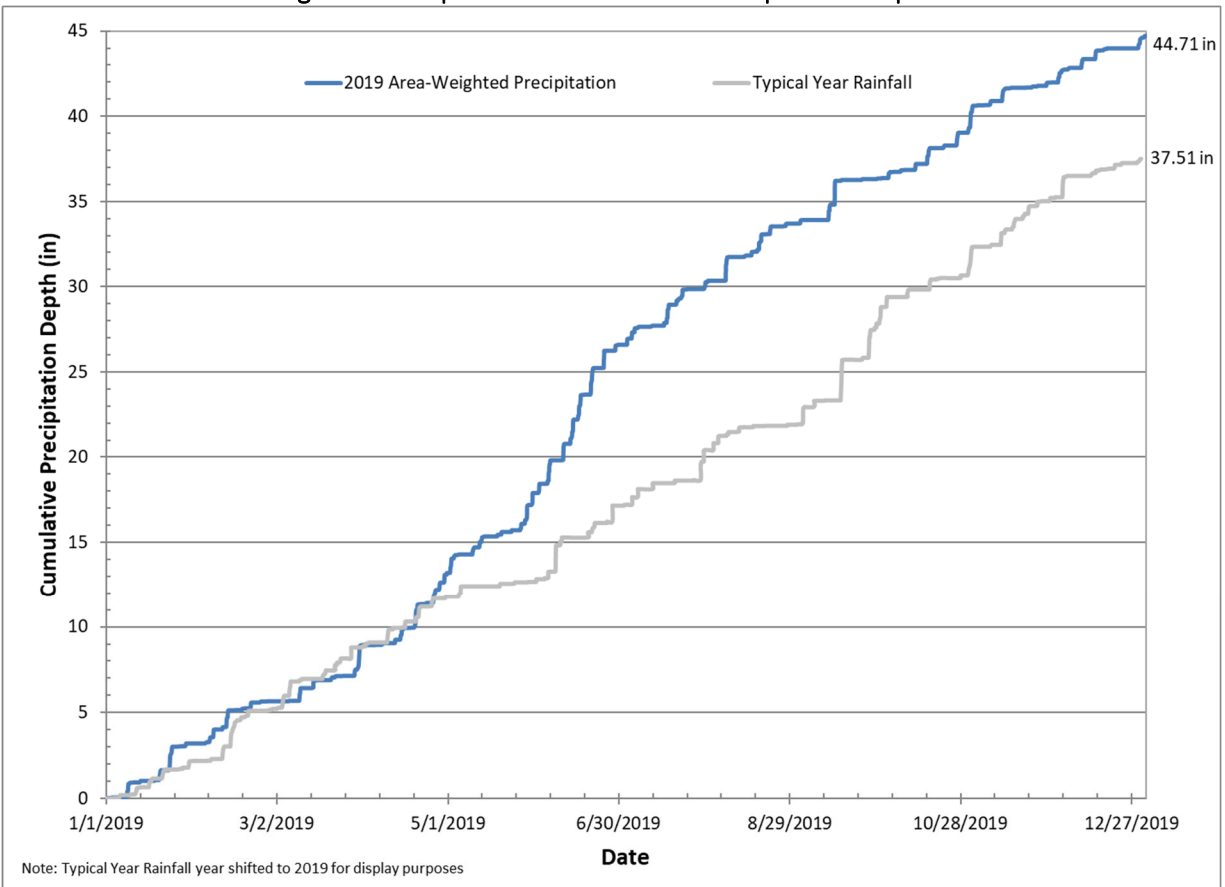
Storm Number	Date	Depth (Inches)	Duration (Hours)	Average 1-Hour Intensity (In/Hr)	Peak 1-Hour Intensity (In/Hr)
113	12/03/93	0.06	11	0.01	0.02
114	12/12/93	0.16	17	0.01	0.06
115	12/14/93	0.15	6	0.03	0.12
116	12/15/93	0.07	16	0	0.01
117	12/18/93	0.02	2	0.01	0.01
118	12/18/93	0.03	16	0	0.01
119	12/20/93	0.22	8	0.03	0.07
120	12/23/93	0.1	6	0.02	0.03
121	12/28/93	0.26	35	0.01	0.03
	Total	37.51			

2.5 2019 Precipitation Data and Typical Year Rainfall Comparison

Area-weighted precipitation data was used to compare 2019 precipitation events (**Section 2.1**) with the District's synthetic Typical Year (**Section 2.4**). The weight for each precipitation gauge is based on the CSO service areas within the Thiessen Polygons. **Figure 2** compares the cumulative precipitation depth for 2019 with the Typical Year rainfall. Based on the area-weighted precipitation, 2019 cumulative precipitation was 44.71 inches, 7.2 inches greater than the Typical Year. Specific observations from the Typical Year and 2019 cumulative precipitation graph (**Figure 2**) show:

- Consistent cumulative precipitation depth from January to mid-April.
- Higher cumulative precipitation depth from mid-April through June.
- Somewhat less cumulative precipitation in mid to late-September.
- Consistent cumulative precipitation for the remainder of year.

Figure 2. Comparison of Cumulative Precipitation Depths



The 2019 area-weighted time series was processed using USEPA-SSOAP to separate the precipitation record into discrete events. A 12-hour inter-event dry weather duration was used to separate events. This analysis resulted in 101 discrete events ranging in total depth from 0.01 inch to 1.79 inches. **Figure 3** shows the total depths of both the 2019 precipitation events and the Typical Year events ranked from largest to smallest. The largest event for 2019 had appreciably less total precipitation depth than the largest Typical Year event. The subsequent 4 events, ranked 2 to 5, had similar total precipitation the Typical Year ranked events. Events ranked 6 to 52 in the Typical Year had significantly less total precipitation compared to the equivalently ranked observed events. The Typical Year had greater frequency of events with lower total precipitation.

The peak hourly intensities for the 2019 events and Typical Year events were also ranked, with the comparison shown in **Figure 4**. The largest 2019 peak hourly intensity (0.96 in/hr) was similar to the largest Typical Year peak hourly intensity (0.94 in/hr). The Typical Year had greater peak hourly intensities for the 9 subsequent events. The remaining events for 2019 have generally comparable peak hourly intensities. Overall, significant differences in peak hourly intensities were not observed.

Figure 3. Precipitation Events Ranked by Total Depth

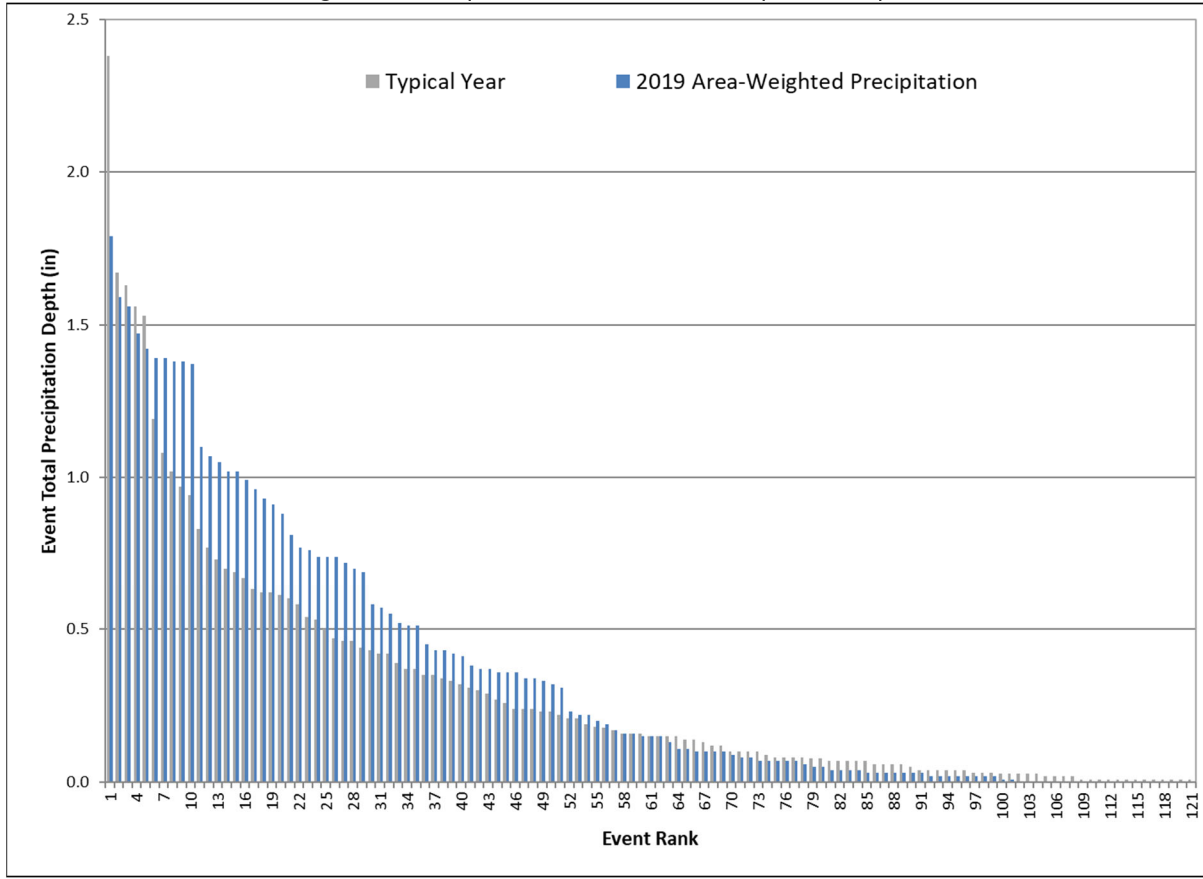
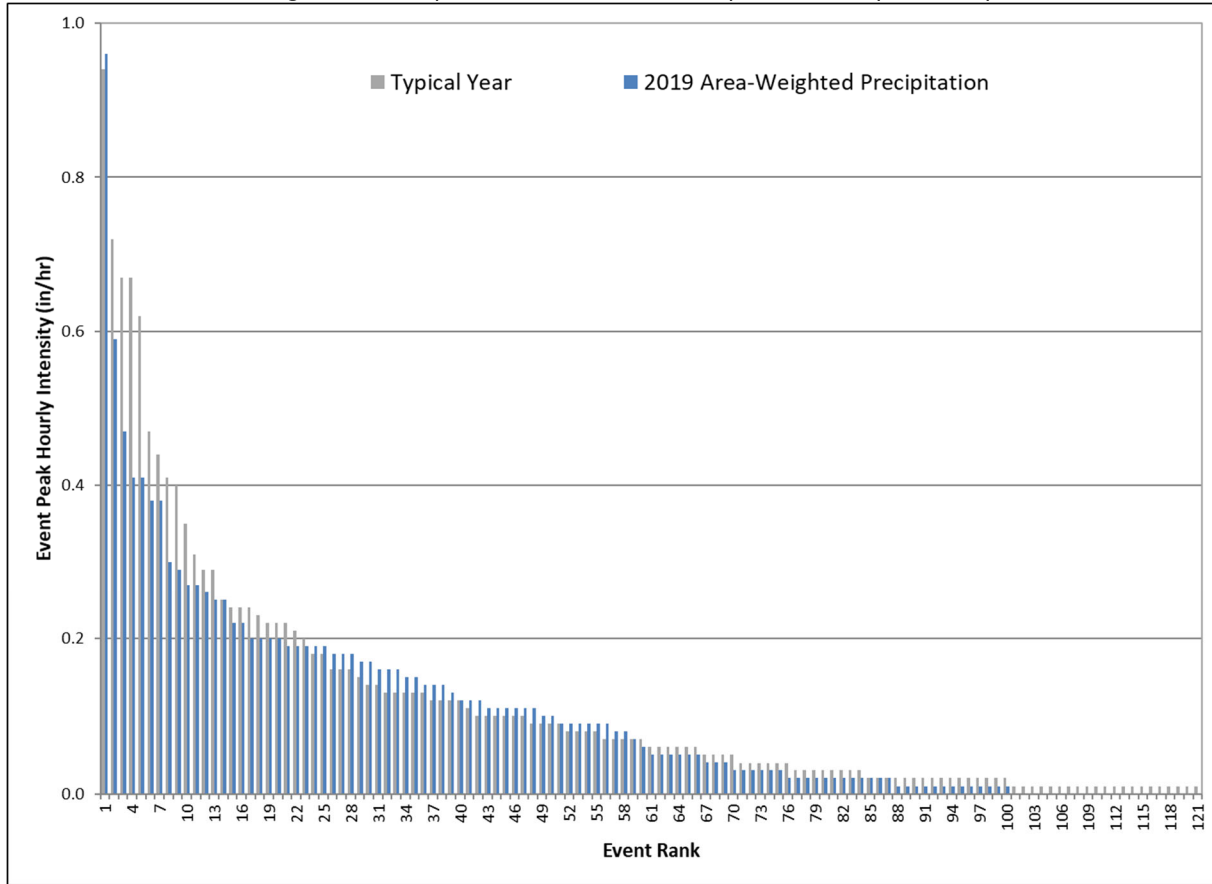


Figure 4. Precipitation Events Ranked by Peak Hourly Intensity



2.6 Typical Year CSO Volumes and Activations

Table 6 presents model-estimated CSO volumes and activations baseline conditions for the District’s synthetic Typical Year for all 121 events as of December 31, 2019. The District’s synthetic Typical year is based on 1-hr precipitation intervals and is evaluated using a continuous simulation.

Table 6. Typical Year Model-Estimated CSO Activations and Volumes Based on December 31, 2019 Baseline Conditions

Outfall Name	# of Overflows	Volume (MG)	December 31, 2019 Baseline Conditions Model ⁽¹⁾
CSO 007	0	0	Mill Creek
CSO 013	0	0	Mill Creek
CSO 014	0	0	Mill Creek
CSO 017	1	0.2	Mill Creek
CSO 019	0	0	Mill Creek
CSO 020	0	0	Mill Creek
CSO 021	0	0	Mill Creek
CSO 022	1	<0.1	Mill Creek
CSO 025	1	0.8	Mill Creek
CSO 027	0	0	Mill Creek
CSO 028	0	0	Mill Creek

Outfall Name	# of Overflows	Volume (MG)	December 31, 2019 Baseline Conditions Model ⁽¹⁾
CSO 030	0	0	Mill Creek
CSO 031	0	0	Mill Creek
CSO 032	0	0	Mill Creek
CSO 033	9	1.6	Southerly
CSO 035	62	32.6	Southerly
CSO 036	41	199.1	Southerly
CSO 037	0	0	Southerly
CSO 038	0	0	Southerly
CSO 039	32	8.7	Southerly
CSO 040	64	370.7	Southerly
CSO 043	0	0	Big Creek
CSO 044	2	<0.1	Big Creek
CSO 045	15	9.2	Big Creek
CSO 050	9	1	Big Creek
CSO 051	20	26.7	Big Creek
CSO 052	0	0	Big Creek
CSO 053	34	30.6	Big Creek
CSO 054	26	38.5	Big Creek
CSO 055	5	0.7	Big Creek
CSO 056	47	93.7	Big Creek
CSO 057	54	223.9	Big Creek
CSO 058	63	191.3	Big Creek
CSO 059	15	12.8	Big Creek
CSO 060	0	0	Big Creek
CSO 062 ²	N/A	N/A	Big Creek
CSO 063	1	0.2	Big Creek
CSO 064	3	<0.1	Westerly
CSO 065	0	0	Westerly
CSO 066 ^{2,3}	N/A	N/A	Westerly
CSO 067	5	0.5	Westerly
CSO 068 ⁸	41	16.5	Westerly
CSO 069	0	0	Westerly
CSO 071	0	0	Westerly
CSO 072	0	0	Southerly
CSO 073	27	38.7	Easterly
CSO 074	13	4.4	Westerly
CSO 075	1	1.0	Westerly
CSO 076 ⁵	4	2.3	Westerly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2019 Baseline Conditions Model ⁽¹⁾
CSO 078 ^{5,8}	1	<0.1	Westerly
CSO 079 ²	N/A	N/A	Westerly
CSO 080	52	304.6	Westerly
CSO 081	0	0	Westerly
CSO 082	10	0.7	Westerly
CSO 083 ^{2,3}	N/A	N/A	Westerly
CSO 084	0	0	Westerly
CSO 085 ^{2,4}	N/A	N/A	Westerly
CSO 086	1	0.1	Westerly
CSO 087	36	7.6	Westerly
CSO 088	59	22.7	Westerly
CSO 089	6	0.2	Westerly
CSO 090 ²	N/A	N/A	Easterly
CSO SAPS	1	<0.1	Easterly
CSO SLPS ²	N/A	N/A	Easterly
CSO 091	0	0	Easterly
CSO 092	0	0	Easterly
CSO 093	1	<0.1	Easterly
CSO 094	32	40.1	Easterly
CSO 095	7	5.1	Easterly
CSO 096	14	9.1	Easterly
CSO 097	13	1.7	Easterly
CSO 098	53	15.7	Easterly
CSO 099	1	<0.1	Easterly
CSO 200	80	173.1	Easterly
CSO 201	32	21.4	Easterly
CSO 202	14	19.9	Easterly
CSO 203	13	11.8	Easterly
CSO 204	67	63.9	Easterly
CSO 205	49	22.0	Easterly
CSO 206	0	0	Easterly
CSO 207	0	0	Easterly
CSO 208	0	0	Easterly
CSO 209 ⁸	38	21.5	Easterly
CSO 210	0	0	Easterly
CSO 211	75	165.9	Easterly
CSO 212	15	1.3	Easterly
CSO 214	20	5.9	Easterly

Outfall Name	# of Overflows	Volume (MG)	December 31, 2019 Baseline Conditions Model ⁽¹⁾
CSO 215	0	0	Easterly
CSO 216	0	0	Easterly
CSO 217	39	6.4	Easterly
CSO 218	47	88.0	Easterly
CSO 219	6	0.3	Easterly
CSO 220	22	25.1	Easterly
CSO 221	50	23.4	Easterly
CSO 222	45	161.4	Easterly
CSO 223	0	0	Easterly
CSO 224	13	6.2	Easterly
CSO 225	0	0	Easterly
CSO 226	1	<0.1	Easterly
CSO 230 ⁸	6	9.0	Easterly
CSO 231 ⁸	32	56.1	Easterly
CSO 232	66	78.7	Easterly
CSO 233	64	22.7	Big Creek
CSO 234	37	28.1	Easterly
CSO 235 ²	N/A	N/A	Easterly
CSO 236 ²	N/A	N/A	Easterly
CSO 238	5	0.3	Big Creek
CSO 239	0	0	Easterly
CSO 240	4	0.2	Westerly
CSO 241	0	0	Big Creek
CSO 242	0	0	Easterly
CSO 243	0	0	Mill Creek
CSO 245	0	0	Mill Creek
CSO 246	0	0	Mill Creek
CSO 247	0	0	Mill Creek
CSO 249 ⁷	2	<0.1	Mill Creek
CSO 250	0	0	Southerly
CSO 252	0	0	Mill Creek
CSO 253 ²	N/A	N/A	Westerly
CSO 254 ⁶	N/A	N/A	Big Creek
CSO 255	14	4.4	Big Creek
CSO 256	2	<0.1	Easterly
CSO 257	0	0	Big Creek
CSO 258	1	9.4	Mill Creek
Total		2,740.0	

Outfall Name	# of Overflows	Volume (MG)	December 31, 2019 Baseline Conditions Model ⁽¹⁾
			<ol style="list-style-type: none"> ¹ December 31, 2019 baseline conditions reflect system configuration and operation that existed as of December 31, 2019 as described in section 2.2, unless noted otherwise. ² Associated regulators to these CSOs were abandoned prior to December 31, 2019 and converted to stormwater only outfalls. ³ CSO 066 and CSO 083 are stormwater only outlets as of March 21, 2019 after associated regulators were abandoned. Represented in model per footnote 1 for Typical Year simulation. ⁴ CSO 085 is a stormwater only outlet as of September 17, 2019 after associated regulators were abandoned. Represented in model per footnote 1 for Typical Year simulation. ⁵ CSO 076 and CSO 078 overflow performance were affected by the WLLRS becoming fully operational as of September 1, 2019. Represented in model per footnote 1 for Typical Year simulation. ⁶ Associated regulators and tributary area to CSO 254 not represented in model; model representation is scheduled to be expanded. ⁷ Overflows for CSO 249 are taken from the December 2015 Mill Creek Collection System model as regulators MC-49 and MC-50 are not included in the MCI-LSSSE Fast Track Calibration project model. ⁸ Additional system improvements became operational late in 2019 but were not able to be incorporated into the model due to schedule. CSO performance would have been less than is reported.

2.7 Evaluation of CSO Volumes and Activations

The NPDES Permit 3PA00002*HD, Part II, Item K.3, requires the District to provide “an evaluation of whether the CSO activation volume and frequency for the previous year is in accordance with the estimates in the Facilities Plan(s) and/or Consent Decree, given the precipitation which occurred during the year, and the CSO abatement activities which have been implemented.” For purposes of the evaluation of whether the CSO activation volume and frequency for 2019 was in accordance with the Facilities Plan and/or Consent Decree, this exercise was performed for Easterly CSOs (CSO 090, 235, SLPS, SAPS, 206, 208, 210, 239, and 242), Southerly CSOs (CSO 019, 022, 027, 063, 243, 247, 249, and 252), and Westerly CSOs (CSO 076, 078 and 086). The following CSO abatement projects were partially or fully operational as of December 31, 2019.

Table 7. CSO Status & Performance Summary

CSOs	Control Measure	Consent Decree AFO Date	December 31, 2019 Status	Status Details	Typical Year Performance Criteria	Performance Analysis
Easterly CSOs						
CSO 206 CSO 208 CSO 209 CSO 210 CSO 230 CSO 231 CSO 239 CSO 242	CM-6	12/31/2020	Partially Operational	Euclid Creek Tunnel (ECT) and Euclid Creek Pump Station-Lakeshore Boulevard Relief Sewer (ECPS-LBRS) are complete (CSO 208). The ECT-2 (CSO 242), ECT-3 (CSO 206) and ECT-5 (CSO 210) gates were closed from March 1 st to November 15 th to allow for construction activities associated with the Dugway Storage Tunnel (DST) and the ECT-4 (CSO 209) connection. CSO 230/231 connections to DST and CSO 209 connections to ECT were operational in December 2019, however, model results presented in the report do not reflect these changes.	≤ 2	CSO 208 – In Compliance CSO 239 – In Compliance All other CM-6 CSOs – N/A
CSO 090 CSO SAPs	CM-9	12/31/2018	Fully Operational		≤ 2	In Compliance
CSO 235 CSO SLPs	CM-10	12/31/2017	Fully Operational		≤ 3	In Compliance
CSO 090 CSO 235	CM-11	12/31/2018	Fully Operational		≤ 3	In Compliance
Southerly CSOs						
CSO 063	CM-24	12/31/2014	Fully Operational		≤ 1	In Compliance
CSO 019 CSO 022 CSO 027 CSO 243 CSO 247 CSO 249 CSO 252	Mill Creek LTCP	N/A	Fully Operational		≤ 5	In Compliance

Westerly CSOs						
CSO 078	CM-15	12/31/2019	Fully Operational	This control measure was operational in December 2019.	0	Post-construction monitoring is ongoing to support demonstration of compliance.
CSO 076	CM-16	12/31/2024	Fully Operational	This control measure was operational on September 1, 2019.	0	Post-construction monitoring is ongoing to support demonstration of compliance.
CSO 086	CM-18	12/31/2017	Fully Operational		≤ 4	In Compliance

3.0 Nine Minimum Control Program Modifications

The District administers its Nine Minimum Controls Program through its CSO Operational Plan, which was updated and submitted to Ohio EPA in March 2016 as required in NPDES permit 3PA00002*HD. In 2019, the District continued to remotely monitor its automatic regulators in the combined sewer system and modified regulators to continue efforts to maximize CSO capture and conveyance to treatment. Additionally, work done on the combined collection system, confirmed through flow monitoring and modelling, eliminated three (3) more CSOs in its collection system by converting outfalls CSO-066, CSO-083, and CSO-085 to stormwater only outfalls. The District continues to try to reduce the frequency and magnitude of wet weather overflows as well as prevent dry weather overflows by implementing the requirements of its CSO Operational Plan.

4.0 Stream Assessment Results

Part II., Section J. of NPDES Permit 3PA00002*HD requires the District to conduct biological, chemical and habitat assessments on each of the following receiving streams at least once during the 5-year permit cycle:

- Big Creek
- Cuyahoga River
- Doan Brook
- Euclid Creek
- Mill Creek
- Rocky River
- West Creek

In 2019, the District conducted biological, chemical, and habitat assessments on the **Rocky River and Euclid Creek**. The results of the biological and habitat assessments are provided in **Table 8**. The field data sheets that support the biological and habitat results are provided in **Appendix C (Qualitative Habitat Evaluation Index (QHEI) field sheets)**, **D (Macroinvertebrate field sheets and results)** and **E (Fish data sheets)**. The surface water quality chemistry results and surface water sampling field data sheets are located in **Appendix F** and **G**, respectively.

Table 8. 2019 Biological and Habitat Results

Stream	Site	IBI		MIwb		ICI		QHEI	
		Score(s)	Narrative Rating	Score(s)	Narrative Rating	Score	Narrative Rating	Score	Narrative Rating
Euclid Creek	1.65	24, 22	Poor, Poor	5.4, 5.4	Poor, Poor	46	Exceptional	71.00	Good
Euclid Creek	0.55	32, 36	Fair, Marginally Good	6.8, 7.3	Fair, Fair	18	Fair	55.75	Fair
Rocky River	8.30	40, 40	Good, Good	8.5, 8.2	Good, Good	34	Good	62.50	Good
Rocky River	2.50	50, 44	Exceptional, Good	9.9, 9.4	Exceptional, Exceptional	36	Good	75.50	Excellent

Appendix A: 2019 Observed Precipitation Statistics by District Precipitation Gauge

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:50	0.03	8.92	0.02	0.1
2	1/2/2019 21:35	0.03	2.92	0.02	1.4
3	1/7/2019 5:05	0.99	57.5	0.29	4.2
4	1/10/2019 5:10	0.02	9.92	0.01	0.6
5	1/12/2019 21:15	0.05	2.5	0.03	2.3
6	1/16/2019 4:40	0.01	0.08	0.01	3.2
7	1/17/2019 19:20	0.05	8.75	0.01	1.6
8	1/19/2019 12:55	0.4	37.5	0.05	1.4
9	1/23/2019 2:55	1.44	26.5	0.22	2
10	1/26/2019 23:45	0.02	0.58	0.02	2.8
11	1/28/2019 18:30	0.21	5.75	0.06	1.8
12	1/29/2019 15:40	0.01	0.08	0.01	0.6
13	2/4/2019 18:45	0.09	11.58	0.03	6.1
14	2/6/2019 4:50	0.27	14.75	0.08	0.9
15	2/7/2019 14:25	0.42	8.33	0.14	0.8
16	2/10/2019 17:35	0.15	4.83	0.07	2.8
17	2/12/2019 0:10	1.01	25.67	0.22	1.1
18	2/17/2019 14:45	0.09	8.42	0.06	4.5
19	2/20/2019 7:45	0.32	13.08	0.15	2.4
20	2/23/2019 17:20	0.09	20.75	0.04	2.9
21	3/3/2019 23:30	0.01	0.08	0.01	7.4
22	3/6/2019 3:35	0.02	0.67	0.02	2.2
23	3/9/2019 19:10	0.72	11.5	0.18	3.6
24	3/14/2019 11:00	0.35	10.33	0.24	4.2
25	3/15/2019 14:15	0.06	10.83	0.03	0.7
26	3/20/2019 21:40	0.11	9.17	0.02	4.9
27	3/22/2019 8:00	0.1	8.33	0.08	1
28	3/25/2019 7:30	0.01	0.08	0.01	2.6
29	3/28/2019 11:50	0.01	0.08	0.01	3.2
30	3/29/2019 4:25	0.32	7.5	0.09	0.7
31	3/30/2019 2:45	1.47	31.58	0.26	0.6
32	4/5/2019 7:50	0.03	1.25	0.02	4.9
33	4/7/2019 19:45	0.16	7.58	0.09	2.4
34	4/12/2019 10:40	0.23	1.75	0.13	4.3
35	4/14/2019 5:10	0.7	26.92	0.25	1.7
36	4/17/2019 23:45	0.04	11.5	0.02	2.7
37	4/19/2019 6:55	1.29	27.5	0.26	0.8

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/21/2019 6:40	0.03	1.75	0.02	0.8
39	4/23/2019 10:05	0.05	0.25	0.05	2.1
40	4/25/2019 18:25	1.02	24.67	0.21	2.3
41	4/27/2019 21:20	0.4	10.25	0.1	1.1
42	4/29/2019 15:50	0.49	5.17	0.21	1.3
43	4/30/2019 13:45	0.11	0.75	0.11	0.7
44	5/1/2019 17:35	0.94	13.17	0.21	1.1
45	5/3/2019 1:50	0.1	12.58	0.03	0.8
46	5/4/2019 4:25	0.04	14.17	0.01	0.6
47	5/9/2019 14:50	0.51	15.33	0.13	4.8
48	5/11/2019 23:30	0.3	5.42	0.12	1.7
49	5/12/2019 18:45	0.36	18	0.11	0.6
50	5/17/2019 12:20	0.01	0.08	0.01	4
51	5/18/2019 7:45	0.08	1.5	0.06	0.8
52	5/18/2019 22:10	0.02	0.42	0.02	0.5
53	5/19/2019 18:15	0.15	1.92	0.09	0.8
54	5/20/2019 23:35	0.01	0.08	0.01	1.1
55	5/23/2019 8:30	0.07	0.42	0.07	2.4
56	5/26/2019 9:05	0.38	11	0.19	3
57	5/27/2019 23:20	1.19	28.5	0.71	1.1
58	5/30/2019 8:00	0.59	10.08	0.41	1.2
59	6/1/2019 21:15	0.43	6.33	0.16	2.1
60	6/4/2019 23:45	1.47	24.75	0.41	2.8
61	6/10/2019 2:20	1.08	16.75	0.34	4.1
62	6/12/2019 23:40	1.84	26.58	0.51	2.2
63	6/15/2019 14:55	1.45	26.83	0.4	1.5
64	6/18/2019 0:50	0.01	0.08	0.01	1.3
65	6/20/2019 1:20	1.84	23.25	0.86	2
66	6/24/2019 17:35	2.03	4.33	1.35	3.7
67	6/28/2019 19:50	0.26	0.5	0.26	3.9
68	6/29/2019 13:00	0.06	0.17	0.06	0.7
69	7/2/2019 22:50	0.58	6.58	0.48	3.4
70	7/4/2019 13:05	0.15	5.83	0.13	1.3
71	7/15/2019 21:50	0.06	0.17	0.06	11.1
72	7/16/2019 15:30	1.17	22.5	0.48	0.7
73	7/20/2019 5:35	0.26	1.92	0.25	2.6
74	7/21/2019 21:30	0.4	13.5	0.26	1.6

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
75	7/23/2019 21:55	0.09	2	0.08	1.5
76	7/30/2019 1:00	0.46	10.17	0.22	6
77	7/31/2019 5:15	0.19	0.25	0.19	0.8
78	8/6/2019 13:45	1.53	11.58	0.7	6.3
79	8/12/2019 13:30	0.04	0.75	0.04	5.5
80	8/13/2019 6:30	0.05	3	0.03	0.7
81	8/15/2019 15:05	0.58	0.75	0.58	2.2
82	8/17/2019 14:55	0.02	0.17	0.02	2
83	8/18/2019 6:15	0.71	6.08	0.68	0.6
84	8/19/2019 0:30	0.31	2.08	0.26	0.5
85	8/22/2019 2:20	0.41	10.33	0.24	3
86	8/27/2019 0:10	0.02	0.42	0.02	4.5
87	8/27/2019 14:15	0.16	2.92	0.12	0.6
88	9/1/2019 7:10	0.18	14.83	0.07	4.6
89	9/2/2019 10:05	0.01	0.08	0.01	0.5
90	9/11/2019 14:25	1.47	20.5	0.62	9.2
91	9/13/2019 20:35	2.42	4.25	2.12	1.4
92	9/16/2019 0:35	0.09	1.25	0.08	2
93	9/23/2019 5:15	0.02	4.67	0.01	7.1
94	9/28/2019 15:50	0.02	0.17	0.02	5.2
95	9/29/2019 20:25	0.05	7.75	0.04	1.2
96	10/2/2019 15:55	0.32	14.25	0.11	2.5
97	10/4/2019 10:10	0.01	0.08	0.01	1.2
98	10/6/2019 22:05	0.1	4.33	0.06	2.5
99	10/11/2019 23:15	0.42	7.92	0.11	4.9
100	10/16/2019 6:20	1.11	21.75	0.22	4
101	10/21/2019 23:50	0.13	14.5	0.05	4.8
102	10/26/2019 12:55	0.78	20.67	0.13	3.9
103	10/30/2019 15:10	1.83	49.42	0.21	3.2
104	11/2/2019 15:20	0.02	4.92	0.01	0.9
105	11/5/2019 3:35	0.01	0.08	0.01	2.3
106	11/7/2019 4:05	0.21	9.75	0.06	2
107	11/11/2019 12:50	0.75	25.92	0.13	4
108	11/13/2019 4:35	0.01	0.08	0.01	0.6
109	11/14/2019 3:30	0.03	9.17	0.02	1
110	11/19/2019 18:40	0.06	1.33	0.04	5.3
111	11/21/2019 23:15	0.07	6.67	0.02	2.1

Beachwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
112	11/27/2019 2:10	0.17	7.83	0.09	4.8
113	11/28/2019 3:30	0.01	0.08	0.01	0.7
114	12/1/2019 5:25	0.82	12.5	0.29	3.1
115	12/2/2019 6:55	0.24	22.08	0.08	0.5
116	12/4/2019 10:50	0.13	11.17	0.06	1.2
117	12/9/2019 8:15	0.55	13.42	0.1	4.4
118	12/14/2019 6:10	0.49	19.58	0.09	4.4
119	12/17/2019 1:20	0.09	11	0.02	2
120	12/18/2019 5:50	0.03	0.58	0.03	0.7
121	12/29/2019 5:45	0.7	55.25	0.13	11

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 1:15	0.04	3	0.02	0.1
2	1/2/2019 21:55	0.01	0.08	0.01	1.7
3	1/7/2019 17:35	1.03	45.42	0.35	4.8
4	1/10/2019 8:30	0.06	2.58	0.03	0.7
5	1/12/2019 17:35	0.15	7.67	0.04	2.3
6	1/16/2019 0:20	0.01	0.08	0.01	3
7	1/17/2019 18:35	0.04	8.33	0.01	1.8
8	1/19/2019 11:45	1.03	28.42	0.11	1.4
9	1/23/2019 2:50	1.54	28.17	0.25	2.4
10	1/26/2019 23:20	0.05	5.33	0.02	2.7
11	1/28/2019 18:20	0.19	5.67	0.07	1.6
12	2/1/2019 7:30	0.01	0.08	0.01	3.3
13	2/4/2019 21:25	0.07	6.83	0.03	3.6
14	2/6/2019 4:30	0.29	9.25	0.08	1
15	2/7/2019 14:00	0.46	8.67	0.14	1
16	2/10/2019 17:55	0.13	3.58	0.05	2.8
17	2/11/2019 23:40	0.92	20.08	0.18	1.1
18	2/15/2019 3:00	0.02	2.75	0.01	2.3
19	2/17/2019 14:10	0.13	9.08	0.05	2.4
20	2/20/2019 6:40	0.45	14.25	0.18	2.3
21	2/23/2019 16:55	0.09	9.58	0.06	2.8
22	2/24/2019 15:10	0.01	0.08	0.01	0.5
23	3/3/2019 15:15	0.01	0.08	0.01	7
24	3/6/2019 5:20	0.01	0.08	0.01	2.6
25	3/9/2019 18:55	0.99	11.92	0.21	3.6
26	3/14/2019 18:35	0.29	3.08	0.24	4.5
27	3/15/2019 14:35	0.04	10.67	0.02	0.7
28	3/20/2019 21:10	0.12	10	0.03	4.8
29	3/22/2019 8:30	0.12	11.42	0.06	1.1
30	3/24/2019 19:50	0.07	7.58	0.03	2
31	3/28/2019 21:30	2.32	59.67	0.45	3.8
32	4/5/2019 7:20	0.04	2.5	0.02	4.9
33	4/7/2019 18:05	0.16	9.42	0.15	2.3
34	4/12/2019 10:25	0.27	1.83	0.16	4.3
35	4/14/2019 5:35	0.75	26.75	0.27	1.7
36	4/18/2019 10:50	0.01	0.08	0.01	3.1
37	4/19/2019 4:45	1.76	28.67	0.44	0.7
38	4/21/2019 7:25	0.01	0.08	0.01	0.9

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/23/2019 10:15	0.02	0.17	0.02	2.1
40	4/25/2019 6:15	0.01	0.08	0.01	1.8
41	4/25/2019 18:35	0.89	21	0.22	0.5
42	4/27/2019 21:20	0.54	10.83	0.14	1.2
43	4/29/2019 15:50	0.28	5	0.15	1.3
44	4/30/2019 13:40	0.13	0.67	0.13	0.7
45	5/1/2019 19:25	0.67	11.58	0.13	1.2
46	5/3/2019 7:55	0.08	6.5	0.03	1
47	5/4/2019 16:35	0.04	2.75	0.02	1.1
48	5/9/2019 14:50	0.42	14.67	0.11	4.8
49	5/11/2019 23:35	0.29	5.08	0.14	1.8
50	5/12/2019 18:15	0.22	16.5	0.08	0.6
51	5/18/2019 5:35	0.18	2.92	0.14	4.8
52	5/18/2019 22:00	0.17	0.33	0.17	0.6
53	5/19/2019 18:15	0.06	1.5	0.04	0.8
54	5/21/2019 0:05	0.01	0.08	0.01	1.2
55	5/23/2019 8:25	0.05	0.42	0.05	2.3
56	5/26/2019 9:15	0.1	11.92	0.06	3
57	5/28/2019 0:40	0.15	1.92	0.11	1.1
58	5/28/2019 14:50	0.37	5.92	0.25	0.5
59	5/30/2019 7:35	0.37	10.33	0.23	1.5
60	6/1/2019 21:05	0.63	6.42	0.23	2.1
61	6/4/2019 22:15	1.12	28.08	0.48	2.8
62	6/9/2019 9:25	0.01	0.08	0.01	3.3
63	6/10/2019 11:35	0.7	7.5	0.34	1.1
64	6/12/2019 21:15	1.39	31.17	0.39	2.1
65	6/15/2019 15:05	1.14	24.25	0.41	1.4
66	6/18/2019 0:35	0.03	1	0.03	1.4
67	6/20/2019 0:35	2.25	24.67	0.96	2
68	6/24/2019 17:55	0.63	3.92	0.43	3.7
69	6/28/2019 16:00	0.47	9.42	0.34	3.8
70	7/3/2019 0:10	0.02	0.75	0.02	3.9
71	7/4/2019 12:55	0.02	0.58	0.02	1.5
72	7/5/2019 14:15	1.28	24.67	0.65	1
73	7/11/2019 12:25	0.42	2.33	0.31	4.9
74	7/16/2019 20:15	1.32	18.25	0.83	5.2
75	7/20/2019 7:10	0.01	0.08	0.01	2.7
76	7/21/2019 5:10	0.37	0.33	0.37	0.9

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/21/2019 20:50	1.11	14.67	0.66	0.6
78	7/30/2019 0:20	0.4	15.92	0.15	7.5
79	8/6/2019 14:50	1.07	19.33	0.43	6.9
80	8/12/2019 14:30	0.01	0.08	0.01	5.2
81	8/13/2019 5:05	0.43	10.42	0.24	0.6
82	8/15/2019 14:55	0.3	14.42	0.19	2
83	8/17/2019 15:45	0.17	0.83	0.17	1.4
84	8/18/2019 6:15	1.1	20.17	0.45	0.6
85	8/22/2019 2:35	0.28	7.92	0.24	3
86	8/23/2019 4:35	0.01	0.08	0.01	0.8
87	8/27/2019 14:20	0.12	3	0.08	4.4
88	9/1/2019 16:10	0.35	6	0.13	5
89	9/11/2019 18:50	0.11	15.75	0.08	9.9
90	9/13/2019 21:15	1.11	4.75	0.98	1.4
91	9/16/2019 0:10	0.01	0.08	0.01	1.9
92	9/23/2019 5:00	0.03	4.58	0.02	7.2
93	9/28/2019 4:00	0.07	11.92	0.06	4.8
94	9/30/2019 5:55	0.01	0.08	0.01	1.6
95	10/2/2019 15:45	0.15	2.92	0.09	2.4
96	10/6/2019 8:45	0.01	0.08	0.01	3.6
97	10/6/2019 21:30	0.09	3.92	0.05	0.5
98	10/8/2019 6:35	0.01	0.08	0.01	1.2
99	10/11/2019 23:00	0.18	7.33	0.08	3.7
100	10/16/2019 6:40	0.6	17.75	0.16	4
101	10/22/2019 0:15	0.11	8	0.05	5
102	10/26/2019 12:55	0.78	14.83	0.15	4.2
103	10/30/2019 15:00	1.18	37.08	0.19	3.5
104	11/2/2019 14:45	0.05	6.25	0.02	1.4
105	11/5/2019 4:20	0.01	0.08	0.01	2.3
106	11/7/2019 3:05	0.22	11.17	0.05	1.9
107	11/11/2019 14:10	0.81	23	0.1	4
108	11/14/2019 6:30	0.12	4.5	0.04	1.7
109	11/21/2019 19:00	0.07	9.83	0.04	7.3
110	11/23/2019 19:25	0.05	1.67	0.04	1.6
111	11/27/2019 1:40	0.2	8.75	0.11	3.2
112	12/1/2019 5:10	0.68	10.83	0.26	3.8
113	12/2/2019 5:20	0.25	21.08	0.06	0.6
114	12/4/2019 10:35	0.2	14.17	0.07	1.3

Brecksville Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/9/2019 5:05	0.66	16.67	0.12	4.2
116	12/14/2019 5:40	0.51	20.67	0.11	4.3
117	12/17/2019 1:30	0.09	8.92	0.02	2
118	12/18/2019 6:15	0.06	3.5	0.03	0.8
119	12/29/2019 7:55	0.99	53.92	0.11	10.9

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:20	0.01	0.08	0.01	0.1
2	1/1/2019 17:25	0.01	0.08	0.01	0.6
3	1/2/2019 21:15	0.04	1	0.04	1.2
4	1/7/2019 5:00	0.01	0.08	0.01	4.3
5	1/7/2019 18:10	0.78	45.58	0.32	0.5
6	1/12/2019 18:45	0.07	4.75	0.03	3.1
7	1/17/2019 19:15	0.02	1.58	0.01	4.8
8	1/19/2019 12:35	0.34	13.92	0.05	1.7
9	1/23/2019 2:35	1.45	25.33	0.24	3
10	1/26/2019 23:40	0.02	3.67	0.01	2.8
11	1/28/2019 18:25	0.1	4.75	0.03	1.6
12	2/1/2019 16:50	0.01	0.08	0.01	3.7
13	2/4/2019 18:20	0.08	9.08	0.03	3.1
14	2/6/2019 4:25	0.31	13.75	0.09	1
15	2/7/2019 14:05	0.48	7.92	0.21	0.8
16	2/10/2019 18:10	0.11	2.83	0.05	2.8
17	2/12/2019 0:10	0.93	25	0.17	1.1
18	2/17/2019 14:35	0.07	18.92	0.04	4.6
19	2/20/2019 7:15	0.36	13.08	0.15	1.9
20	2/23/2019 16:45	0.1	17.25	0.05	2.9
21	3/6/2019 4:25	0.03	1	0.03	9.8
22	3/9/2019 19:00	0.69	11.17	0.18	3.6
23	3/14/2019 9:30	0.69	11.58	0.53	4.1
24	3/15/2019 14:05	0.02	2.25	0.01	0.7
25	3/18/2019 13:30	0.01	0.08	0.01	2.9
26	3/20/2019 21:25	0.17	9.5	0.05	2.3
27	3/22/2019 8:20	0.07	10.83	0.04	1.1
28	3/25/2019 1:40	0.02	0.83	0.02	2.3
29	3/28/2019 21:20	0.39	15	0.12	3.8
30	3/30/2019 3:10	1.46	35.42	0.22	0.6
31	4/5/2019 8:05	0.01	0.08	0.01	4.7
32	4/7/2019 17:10	0.11	13.42	0.07	2.4
33	4/12/2019 10:30	0.11	1.67	0.08	4.2
34	4/14/2019 5:05	0.6	25.58	0.13	1.7
35	4/17/2019 23:20	0.03	10.67	0.02	2.7
36	4/19/2019 3:35	1.57	30.83	0.32	0.7
37	4/21/2019 0:20	0.02	5.75	0.01	0.6
38	4/23/2019 9:40	0.13	0.33	0.13	2.1

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/25/2019 4:30	0.01	0.08	0.01	1.8
40	4/25/2019 18:35	0.76	21	0.26	0.6
41	4/27/2019 21:10	0.48	10.25	0.13	1.2
42	4/29/2019 15:25	0.68	22.83	0.23	1.3
43	5/1/2019 18:55	0.73	11.83	0.15	1.2
44	5/3/2019 0:50	0.37	13.67	0.29	0.8
45	5/4/2019 8:15	0.03	10.08	0.01	0.7
46	5/9/2019 14:05	0.45	15.5	0.22	4.8
47	5/11/2019 22:35	0.29	6.42	0.12	1.7
48	5/12/2019 18:05	0.3	21.5	0.1	0.5
49	5/14/2019 12:15	0.01	0.08	0.01	0.9
50	5/17/2019 12:20	0.01	0.08	0.01	3
51	5/18/2019 5:40	0.11	2.42	0.09	0.7
52	5/19/2019 17:55	0.15	3.08	0.09	1.4
53	5/23/2019 8:15	0.16	0.25	0.16	3.5
54	5/26/2019 9:00	0.31	10.25	0.14	3
55	5/27/2019 21:20	1.02	30.17	0.51	1.1
56	5/30/2019 7:50	1.03	9.75	0.75	1.2
57	6/1/2019 18:25	0.77	13.58	0.24	2
58	6/4/2019 21:50	1.5	35.25	0.91	2.6
59	6/10/2019 11:10	0.9	7.17	0.45	4.1
60	6/12/2019 21:35	1.28	27.08	0.29	2.1
61	6/15/2019 10:45	1.54	30.67	0.51	1.4
62	6/17/2019 6:00	0.01	0.08	0.01	0.5
63	6/18/2019 1:00	0.01	0.08	0.01	0.8
64	6/20/2019 0:30	1.08	24.5	0.21	2
65	6/24/2019 17:30	0.47	11.5	0.33	3.7
66	6/28/2019 18:55	0.27	8.25	0.16	3.6
67	7/3/2019	0.03	1.92	0.02	3.9
68	7/4/2019 14:40	0.35	0.58	0.35	1.5
69	7/5/2019 14:45	0.4	0.5	0.4	1
70	7/15/2019 21:05	0.21	0.33	0.21	10.2
71	7/16/2019 20:05	1.6	17.58	0.66	0.9
72	7/20/2019 5:45	0.02	1.25	0.01	2.7
73	7/21/2019 4:35	0.39	0.33	0.39	0.9
74	7/21/2019 20:40	0.69	14.33	0.41	0.7
75	7/24/2019 5:35	0.09	3.25	0.05	1.8
76	7/30/2019 0:10	0.08	11.5	0.04	5.6

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/6/2019 13:25	0.97	8.83	0.32	7.1
78	8/7/2019 11:00	0.04	3.83	0.03	0.5
79	8/12/2019 13:35	0.02	0.25	0.02	4.9
80	8/13/2019 4:45	0.31	2.25	0.21	0.6
81	8/15/2019 13:20	0.1	1	0.1	2.3
82	8/17/2019 14:20	0.49	1.67	0.46	2
83	8/18/2019 5:55	0.43	6	0.35	0.6
84	8/18/2019 23:55	0.66	5.33	0.53	0.5
85	8/22/2019 2:00	0.37	10.25	0.22	2.9
86	8/26/2019 19:30	0.15	21.17	0.09	4.3
87	9/1/2019 16:05	0.26	10.25	0.15	5
88	9/2/2019 21:10	0.01	0.08	0.01	0.8
89	9/12/2019 5:30	0.12	4.67	0.1	9.3
90	9/13/2019 20:05	1	3.58	0.92	1.4
91	9/23/2019 4:35	0.03	4.25	0.02	9.2
92	9/25/2019 18:35	0.01	0.08	0.01	2.4
93	9/28/2019 6:30	0.11	9.17	0.1	2.5
94	9/29/2019 20:15	0.06	8.17	0.05	1.2
95	10/2/2019 15:30	0.14	7.83	0.08	2.5
96	10/4/2019 9:40	0.02	0.42	0.02	1.4
97	10/6/2019 21:25	0.1	15.75	0.05	2.5
98	10/12/2019 1:15	0.27	4.83	0.12	4.5
99	10/16/2019 5:25	0.76	19	0.27	4
100	10/21/2019 16:45	0.21	15.42	0.15	4.7
101	10/26/2019 12:55	0.76	13.92	0.19	4.2
102	10/28/2019 8:45	0.01	0.08	0.01	1.2
103	10/30/2019 14:40	1.31	36.92	0.22	2.2
104	11/2/2019 14:10	0.05	5.58	0.04	1.4
105	11/5/2019 3:25	0.01	0.08	0.01	2.3
106	11/7/2019 4:00	0.23	10.83	0.06	2
107	11/11/2019 12:55	0.77	20.5	0.2	3.9
108	11/14/2019 12:30	0.22	2.33	0.15	2.1
109	11/21/2019 23:20	0.03	4.33	0.02	7.4
110	11/23/2019 20:05	0.09	1.25	0.08	1.7
111	11/27/2019 1:25	0.18	8.17	0.08	3.2
112	11/28/2019 18:30	0.01	0.08	0.01	1.4
113	12/1/2019 5:10	0.64	45.42	0.17	2.4
114	12/3/2019 15:10	0.01	0.08	0.01	0.5

Brook Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/4/2019 6:45	0.05	12.08	0.02	0.6
116	12/5/2019 11:50	0.22	2.17	0.16	0.7
117	12/9/2019 6:45	0.52	14.67	0.1	3.7
118	12/14/2019 3:15	0.66	22	0.12	4.2
119	12/17/2019 3:30	0.05	8.25	0.02	2.1
120	12/19/2019 12:45	0.01	0.08	0.01	2
121	12/20/2019 13:20	0.01	0.08	0.01	1
122	12/29/2019 7:20	0.7	52.67	0.12	8.7

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:25	0.01	0.08	0.01	0.1
2	1/2/2019 21:10	0.04	4.67	0.03	1.7
3	1/7/2019 5:20	0.01	0.08	0.01	4.1
4	1/7/2019 18:55	0.05	0.5	0.05	0.6
5	1/8/2019 8:20	0.77	30	0.29	0.5
6	1/10/2019 10:00	0.02	0.75	0.02	0.8
7	1/12/2019 18:45	0.13	5.5	0.04	2.3
8	1/17/2019 18:55	0.02	1.5	0.01	4.8
9	1/19/2019 12:00	1.52	24.08	0.21	1.6
10	1/23/2019 2:30	1.36	26.08	0.22	2.6
11	1/26/2019 23:50	0.02	2.67	0.01	2.8
12	1/28/2019 17:15	0.11	5.92	0.04	1.6
13	2/4/2019 18:25	0.07	8.67	0.03	6.8
14	2/6/2019 4:30	0.29	9.67	0.07	1.1
15	2/7/2019 14:05	0.47	4.25	0.21	1
16	2/10/2019 18:00	0.14	2.25	0.08	3
17	2/11/2019 23:35	1	25.92	0.2	1.1
18	2/17/2019 14:35	0.1	17.25	0.06	4.5
19	2/20/2019 7:05	0.41	13.42	0.17	2
20	2/23/2019 17:05	0.09	16.92	0.04	2.9
21	3/6/2019 4:25	0.04	8.58	0.03	9.8
22	3/9/2019 18:55	0.71	11.42	0.19	3.2
23	3/14/2019 9:35	0.59	11.58	0.41	4.1
24	3/15/2019 17:15	0.01	0.08	0.01	0.8
25	3/18/2019 13:20	0.03	0.58	0.03	2.8
26	3/20/2019 21:20	0.19	9.42	0.05	2.3
27	3/22/2019 8:15	0.06	1.83	0.04	1.1
28	3/24/2019 20:55	0.03	5.92	0.01	2.5
29	3/29/2019 4:15	0.4	8.08	0.12	4.1
30	3/30/2019 3:00	1.4	28.83	0.23	0.6
31	4/5/2019 7:50	0.01	0.08	0.01	5
32	4/7/2019 17:20	0.12	9.92	0.07	2.4
33	4/12/2019 10:35	0.12	1.67	0.09	4.3
34	4/14/2019 5:05	0.61	26.83	0.14	1.7
35	4/17/2019 23:30	0.02	1.58	0.01	2.6
36	4/19/2019 3:20	1.73	31.08	0.55	1.1
37	4/21/2019 0:30	0.02	3.67	0.01	0.6

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
38	4/21/2019 16:15	0.01	0.08	0.01	0.5
39	4/23/2019 9:55	0.07	0.17	0.07	1.7
40	4/25/2019 18:50	0.63	20.83	0.27	2.4
41	4/27/2019 21:25	0.5	10.67	0.11	1.2
42	4/29/2019 15:30	0.46	5.08	0.21	1.3
43	4/30/2019 13:30	0.15	0.83	0.15	0.7
44	5/1/2019 18:55	0.67	11.25	0.17	1.2
45	5/2/2019 23:00	0.33	15.58	0.23	0.7
46	5/4/2019 9:15	0.02	7.5	0.01	0.8
47	5/9/2019 14:10	0.33	15.25	0.14	4.9
48	5/11/2019 22:35	0.31	6.58	0.12	1.7
49	5/12/2019 18:15	0.26	17.75	0.08	0.5
50	5/17/2019 12:40	0.01	0.08	0.01	4
51	5/18/2019 7:15	0.06	1	0.06	0.8
52	5/19/2019 18:00	0.15	1.92	0.1	1.4
53	5/23/2019 8:00	0.12	0.5	0.12	3.5
54	5/26/2019 8:45	0.51	22.08	0.2	3
55	5/27/2019 22:15	1.81	29.33	1.32	0.6
56	5/30/2019 7:55	1.04	9.92	0.64	1.2
57	6/1/2019 18:25	0.71	9	0.24	2
58	6/4/2019 21:05	1.06	26.08	0.71	2.7
59	6/7/2019 7:05	0.01	0.08	0.01	1.3
60	6/10/2019 11:15	1.01	7.33	0.49	3.2
61	6/12/2019 21:45	0.37	4.33	0.21	2.1
62	6/13/2019 14:35	1.13	10.17	0.33	0.5
63	6/15/2019 12:25	1.53	27.5	0.52	1.5
64	6/17/2019 4:10	0.01	0.08	0.01	0.5
65	6/18/2019 1:00	0.01	0.08	0.01	0.9
66	6/20/2019 0:55	1.7	23.5	0.45	2
67	6/24/2019 19:15	0.44	2.83	0.33	3.8
68	6/28/2019 19:05	0.22	6.25	0.16	3.9
69	7/2/2019 22:55	0.07	6.08	0.04	3.9
70	7/4/2019 13:35	1.39	2.92	1	1.4
71	7/6/2019 0:05	0.03	9.58	0.02	1.3
72	7/15/2019 21:05	0.29	0.5	0.29	9.5
73	7/16/2019 20:10	1.15	16.33	0.4	0.9
74	7/20/2019 5:45	0.05	1.08	0.04	2.7
75	7/21/2019 4:40	0.14	1.92	0.13	0.9

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
76	7/21/2019 20:50	0.66	13.58	0.41	0.6
77	7/24/2019 2:40	0.01	0.08	0.01	1.7
78	7/30/2019 0:15	0.07	1.92	0.05	5.9
79	8/6/2019 13:20	0.94	10	0.34	7.5
80	8/7/2019 13:35	0.07	1.17	0.06	0.6
81	8/13/2019 5:05	0.11	7.58	0.06	5.6
82	8/14/2019 10:50	0.05	2.67	0.03	0.9
83	8/15/2019 13:30	0.35	1.17	0.33	1
84	8/17/2019 14:30	0.2	1.5	0.12	2
85	8/18/2019 5:55	1.16	20.42	0.5	0.6
86	8/22/2019 2:00	0.42	10.25	0.15	3
87	8/26/2019 18:50	0.02	4.17	0.01	4.3
88	8/27/2019 14:05	0.13	2.58	0.08	0.6
89	9/1/2019 16:20	0.23	5.42	0.12	5
90	9/2/2019 20:40	0.02	0.33	0.02	1
91	9/11/2019 16:30	0.34	14.75	0.14	8.8
92	9/13/2019 20:10	1.21	3.5	1.15	1.5
93	9/15/2019 23:30	0.04	1.42	0.02	2
94	9/23/2019 4:30	0.03	4.25	0.02	7.1
95	9/28/2019 15:35	0.03	1	0.03	5.3
96	9/30/2019 3:45	0.1	1.08	0.09	1.5
97	10/2/2019 15:50	0.22	4.25	0.15	2.5
98	10/6/2019 13:05	0.1	18.17	0.05	3.7
99	10/12/2019 0:40	0.26	6.17	0.12	4.7
100	10/16/2019 5:30	0.77	17.08	0.23	3.9
101	10/21/2019 16:50	0.18	15.33	0.13	4.8
102	10/26/2019 12:45	0.84	14.08	0.21	4.2
103	10/30/2019 14:40	1.43	37.75	0.19	3.5
104	11/2/2019 14:10	0.03	5.58	0.02	1.4
105	11/5/2019 3:40	0.01	0.08	0.01	2.3
106	11/7/2019 7:20	0.16	6.08	0.05	2.1
107	11/11/2019 12:50	1.02	21.5	0.2	4
108	11/14/2019 9:20	0.04	3.08	0.02	2
109	11/21/2019 23:30	0.03	2.42	0.02	7.5
110	11/23/2019 20:05	0.05	1.42	0.04	1.8
111	11/27/2019 1:25	0.22	8.17	0.11	3.2
112	12/1/2019 5:10	0.61	43.25	0.18	3.8
113	12/4/2019 17:50	0.1	6.08	0.05	1.7

Cleveland Industrial Parkway Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
114	12/9/2019 6:40	0.48	14.75	0.09	4.3
115	12/14/2019 3:35	0.64	22.08	0.11	4.3
116	12/17/2019 1:20	0.13	10.42	0.04	2
117	12/18/2019 5:45	0.03	0.33	0.03	0.8
118	12/29/2019 7:50	0.59	31.67	0.12	11.1
119	12/31/2019 7:55	0.05	4.58	0.02	0.7

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:45	0.01	0.08	0.01	0.1
2	1/1/2019 17:15	0.01	0.08	0.01	0.6
3	1/2/2019 21:20	0.03	0.58	0.03	1.2
4	1/7/2019 4:50	0.01	0.08	0.01	4.3
5	1/7/2019 19:00	0.05	1	0.05	0.6
6	1/8/2019 8:35	0.72	21	0.26	0.5
7	1/10/2019 7:20	0.01	0.08	0.01	1.1
8	1/12/2019 19:55	0.11	4.67	0.05	2.5
9	1/17/2019 20:40	0.02	2	0.01	4.8
10	1/19/2019 12:40	0.59	23.25	0.07	1.6
11	1/23/2019 2:50	1.28	25.5	0.21	2.6
12	1/24/2019 23:20	0.01	0.08	0.01	0.8
13	1/26/2019 23:40	0.02	0.5	0.02	2
14	1/28/2019 18:40	0.1	4.67	0.04	1.8
15	2/4/2019 18:50	0.06	8.42	0.03	6.8
16	2/6/2019 2:45	0.33	15.75	0.09	1
17	2/7/2019 14:20	0.4	4	0.16	0.8
18	2/10/2019 17:50	0.16	2.92	0.08	3
19	2/12/2019 1:00	0.94	18.83	0.19	1.2
20	2/17/2019 14:35	0.08	8.25	0.07	4.8
21	2/20/2019 7:40	0.33	13.67	0.15	2.4
22	2/23/2019 20:50	0.04	5.67	0.03	3
23	3/6/2019 4:10	0.02	0.67	0.02	10.1
24	3/9/2019 18:45	0.54	11.58	0.16	3.6
25	3/14/2019 9:35	0.48	10.5	0.37	4.1
26	3/15/2019 14:30	0.02	3	0.01	0.8
27	3/20/2019 21:50	0.19	9.08	0.04	5.2
28	3/22/2019 8:15	0.06	6.83	0.04	1.1
29	3/29/2019 4:30	0.34	7.58	0.09	6.6
30	3/30/2019 2:50	1.35	30.17	0.22	0.6
31	4/5/2019 8:10	0.01	0.08	0.01	5
32	4/7/2019 17:15	0.07	10	0.05	2.4
33	4/12/2019 10:20	0.18	2.17	0.14	4.3
34	4/14/2019 4:45	0.63	26	0.17	1.7
35	4/19/2019 4:35	1.29	29.92	0.23	3.9
36	4/21/2019 1:45	0.03	5.92	0.01	0.6
37	4/23/2019 9:50	0.12	0.33	0.12	2.1
38	4/25/2019 18:50	0.54	24.08	0.17	2.4

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/27/2019 21:25	0.41	10.17	0.1	1.1
40	4/29/2019 15:40	0.45	4.92	0.22	1.3
41	4/30/2019 13:40	0.12	0.83	0.12	0.7
42	5/1/2019 17:25	0.78	19.75	0.17	1.1
43	5/3/2019 1:40	0.31	13.17	0.22	0.5
44	5/4/2019 18:00	0.01	0.08	0.01	1.1
45	5/9/2019 14:30	0.29	12.92	0.15	4.9
46	5/11/2019 23:00	0.31	6.83	0.13	1.8
47	5/12/2019 18:30	0.29	16.5	0.1	0.5
48	5/17/2019 23:30	0.04	10	0.03	4.5
49	5/19/2019 18:10	0.15	1.83	0.1	1.4
50	5/23/2019 8:10	0.12	0.75	0.12	3.5
51	5/26/2019 8:55	0.23	9.92	0.07	3
52	5/27/2019 23:10	1.23	28.08	0.77	1.2
53	5/30/2019 10:05	0.77	7.75	0.4	1.3
54	6/1/2019 20:50	0.58	6.75	0.25	2.1
55	6/4/2019 23:25	0.94	23.42	0.37	2.8
56	6/10/2019 11:40	0.77	7.08	0.29	4.5
57	6/12/2019 23:25	0.24	3.08	0.14	2.2
58	6/13/2019 14:50	1.14	9.92	0.48	0.5
59	6/15/2019 14:45	1.41	24.42	0.33	1.6
60	6/18/2019 1:00	0.01	0.08	0.01	1.4
61	6/20/2019 1:40	1.54	22.25	0.31	2
62	6/24/2019 17:30	0.5	4.5	0.29	3.7
63	6/28/2019 19:25	0.07	0.58	0.07	3.9
64	6/29/2019 13:10	0.05	0.17	0.05	0.7
65	7/2/2019 22:35	0.24	6.58	0.19	3.4
66	7/4/2019 12:00	0.51	4.17	0.25	1.3
67	7/5/2019 12:50	0.04	0.17	0.04	0.9
68	7/15/2019 21:25	0.3	0.33	0.3	10.4
69	7/16/2019 20:20	1.11	16.58	0.33	0.9
70	7/20/2019 6:25	0.18	0.58	0.18	2.7
71	7/21/2019 21:15	0.45	13.08	0.24	1.6
72	7/30/2019 0:35	0.04	2.08	0.02	7.6
73	8/6/2019 13:15	1.19	14.67	0.36	7.4
74	8/12/2019 13:05	0.02	0.25	0.02	5.4
75	8/13/2019 6:10	0.05	1.67	0.04	0.7
76	8/15/2019 14:35	0.36	3.33	0.35	2.3

Dille Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2019 14:35	0.11	0.42	0.11	1.9
78	8/18/2019 6:05	0.88	20.42	0.42	0.6
79	8/22/2019 2:10	0.34	10.33	0.15	3
80	8/23/2019 10:10	0.01	0.08	0.01	0.9
81	8/27/2019 0:05	0.01	0.08	0.01	3.6
82	8/27/2019 14:00	0.13	3.33	0.07	0.6
83	9/1/2019 7:30	0.21	14.33	0.11	4.6
84	9/2/2019 9:50	0.01	0.08	0.01	0.5
85	9/11/2019 14:05	0.71	16.42	0.28	9.2
86	9/13/2019 20:20	1.44	2.25	1.31	1.6
87	9/16/2019 1:10	0.01	0.08	0.01	2.1
88	9/23/2019 8:35	0.01	0.08	0.01	7.3
89	9/25/2019 18:45	0.03	0.08	0.03	2.4
90	9/28/2019 15:45	0.01	0.08	0.01	2.9
91	9/30/2019 3:55	0.02	0.42	0.02	1.5
92	10/2/2019 15:45	0.31	13.75	0.11	2.5
93	10/6/2019 22:10	0.07	6.5	0.04	3.7
94	10/11/2019 23:25	0.26	6.75	0.12	4.8
95	10/16/2019 5:45	0.97	21.92	0.17	4
96	10/21/2019 23:40	0.12	8.92	0.06	4.8
97	10/26/2019 12:55	0.65	14.92	0.17	4.2
98	10/28/2019 12:05	0.01	0.08	0.01	1.3
99	10/30/2019 14:55	1.65	39.42	0.21	2.1
100	11/2/2019 19:40	0.01	0.08	0.01	1.6
101	11/7/2019 4:15	0.27	9.92	0.07	4.4
102	11/11/2019 12:25	0.76	23.17	0.16	3.9
103	11/14/2019 2:25	0.02	0.67	0.02	1.6
104	11/21/2019 23:10	0.03	1.08	0.02	7.8
105	11/23/2019 20:05	0.02	0.42	0.02	1.8
106	11/27/2019 1:40	0.17	8.33	0.08	3.2
107	12/1/2019 5:20	0.58	45.5	0.2	3.8
108	12/4/2019 12:30	0.02	7.83	0.01	1.4
109	12/9/2019 8:55	0.44	12.5	0.09	4.5
110	12/14/2019 5:00	0.43	5.17	0.12	4.3
111	12/17/2019 3:25	0.07	5.75	0.03	2.7
112	12/18/2019 5:40	0.02	0.25	0.02	0.9
113	12/29/2019 5:25	0.53	25.25	0.11	11
114	12/31/2019 0:25	0.07	9.92	0.03	0.7

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:15	0.01	0.08	0.01	0.1
2	1/2/2019 21:05	0.05	4	0.04	1.7
3	1/7/2019 4:55	0.04	14.5	0.02	4.2
4	1/8/2019 8:40	0.91	28.5	0.38	0.6
5	1/10/2019 7:00	0.02	0.33	0.02	0.7
6	1/12/2019 20:25	0.09	4.17	0.04	2.5
7	1/17/2019 20:35	0.02	3.33	0.01	4.8
8	1/19/2019 12:30	0.55	23.08	0.07	1.5
9	1/23/2019 2:40	1.36	25.58	0.25	2.6
10	1/25/2019 3:30	0.01	0.08	0.01	1
11	1/26/2019 23:50	0.02	2.67	0.01	1.8
12	1/28/2019 18:25	0.11	4.83	0.04	1.7
13	2/1/2019 6:25	0.02	1	0.02	3.3
14	2/4/2019 18:00	0.06	9.08	0.02	3.4
15	2/6/2019 4:40	0.29	10.92	0.07	1.1
16	2/7/2019 14:15	0.5	4	0.23	0.9
17	2/10/2019 17:35	0.18	3.25	0.09	3
18	2/11/2019 23:45	1.04	22.42	0.2	1.1
19	2/15/2019 2:55	0.02	11.58	0.01	2.2
20	2/17/2019 14:35	0.07	0.92	0.07	2
21	2/18/2019 14:25	0.03	9.67	0.02	1
22	2/20/2019 7:30	0.38	13.92	0.17	1.3
23	2/23/2019 17:40	0.08	16.42	0.03	2.8
24	2/26/2019 12:05	0.01	0.08	0.01	2.1
25	3/6/2019 3:50	0.02	12.08	0.01	7.7
26	3/9/2019 19:00	0.65	11.42	0.18	3.1
27	3/14/2019 9:40	0.64	11.5	0.44	4.1
28	3/19/2019 0:15	0.01	0.08	0.01	4.1
29	3/20/2019 21:20	0.24	10.5	0.06	1.9
30	3/22/2019 8:15	0.05	6.83	0.03	1
31	3/29/2019 4:35	0.32	7.67	0.08	6.6
32	3/30/2019 3:25	1.39	29.08	0.24	0.6
33	4/5/2019 7:50	0.01	0.08	0.01	5
34	4/7/2019 17:20	0.05	9.83	0.02	2.4
35	4/12/2019 10:35	0.14	1.75	0.11	4.3
36	4/14/2019 5:05	0.66	25.58	0.18	1.7
37	4/18/2019 1:00	0.01	0.08	0.01	2.8
38	4/19/2019 3:50	1.44	30.67	0.24	1.1

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2019 0:50	0.02	6.42	0.01	0.6
40	4/23/2019 9:50	0.07	0.25	0.07	2.1
41	4/25/2019 6:15	0.67	36.58	0.24	1.8
42	4/27/2019 21:15	0.47	10.5	0.1	1.1
43	4/29/2019 15:40	0.53	4.75	0.24	1.3
44	4/30/2019 13:40	0.11	0.75	0.11	0.7
45	5/1/2019 17:15	0.77	14.33	0.17	1.1
46	5/3/2019 1:45	0.17	12.92	0.11	0.8
47	5/4/2019 9:00	0.02	8.58	0.01	0.8
48	5/9/2019 14:20	0.32	15.17	0.12	4.9
49	5/11/2019 22:45	0.34	6.75	0.12	1.7
50	5/12/2019 18:35	0.28	15.83	0.09	0.5
51	5/15/2019 22:30	0.01	0.08	0.01	2.5
52	5/17/2019 23:20	0.09	9.5	0.05	2
53	5/19/2019 18:00	0.18	6.08	0.11	1.4
54	5/23/2019 8:15	0.11	0.25	0.11	3.3
55	5/26/2019 8:50	0.55	9.83	0.22	3
56	5/27/2019 23:05	0.26	6.92	0.13	1.2
57	5/28/2019 18:45	0.91	8.25	0.74	0.5
58	5/30/2019 10:10	0.38	8	0.35	1.3
59	6/1/2019 18:30	0.57	9.58	0.24	2
60	6/4/2019 23:20	1.42	23.42	0.49	2.8
61	6/10/2019 11:30	0.9	6.83	0.45	4.5
62	6/12/2019 21:45	0.3	4.58	0.16	2.1
63	6/13/2019 14:40	0.9	10	0.31	0.5
64	6/15/2019 14:40	1.43	26.17	0.34	1.6
65	6/18/2019 0:55	0.01	0.08	0.01	1.3
66	6/20/2019 1:15	0.91	22.42	0.23	2
67	6/24/2019 19:55	0.48	1.75	0.35	3.8
68	6/28/2019 19:20	0.23	0.75	0.23	3.9
69	6/29/2019 13:05	0.03	0.08	0.03	0.7
70	7/2/2019 22:10	0.33	6.83	0.27	3.4
71	7/4/2019 13:10	0.56	3.92	0.27	1.3
72	7/11/2019 8:00	0.01	0.08	0.01	6.6
73	7/15/2019 21:15	0.4	0.33	0.4	4.5
74	7/16/2019 20:20	0.72	16.33	0.22	0.9
75	7/20/2019 6:20	0.19	0.42	0.19	2.7
76	7/21/2019 21:25	0.46	12.83	0.28	1.6

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/30/2019 0:25	0.25	11	0.2	7.6
78	8/6/2019 12:40	2.05	15.58	1.01	7.1
79	8/13/2019 7:00	0.01	0.08	0.01	6.1
80	8/15/2019 14:30	0.1	0.25	0.1	2.3
81	8/17/2019 14:35	0.23	0.33	0.23	2
82	8/18/2019 4:05	1.18	22.42	0.52	0.5
83	8/20/2019 19:45	0.08	0.17	0.08	1.7
84	8/22/2019 1:55	0.46	10.08	0.18	1.3
85	8/26/2019 22:50	0.01	0.08	0.01	4.5
86	8/27/2019 11:30	0.2	5.58	0.11	0.5
87	9/1/2019 7:40	0.22	15.08	0.1	4.6
88	9/6/2019 14:35	0.01	0.08	0.01	4.7
89	9/11/2019 14:00	0.79	16.92	0.4	5
90	9/13/2019 20:15	0.52	2.17	0.45	1.6
91	9/16/2019 0:55	0.02	0.25	0.02	2.1
92	9/23/2019 4:35	0.04	4.08	0.02	7.1
93	9/28/2019 3:55	0.07	13.08	0.03	4.8
94	9/29/2019 20:35	0.02	8	0.01	1.1
95	10/2/2019 15:45	0.43	13.67	0.12	2.5
96	10/6/2019 13:05	0.06	11.17	0.02	3.3
97	10/12/2019 0:35	0.33	5.75	0.15	5
98	10/16/2019 5:35	1.06	21.08	0.2	4
99	10/21/2019 23:20	0.15	8.92	0.12	4.9
100	10/26/2019 12:45	0.8	14.25	0.19	4.2
101	10/30/2019 14:50	1.88	40.83	0.23	3.5
102	11/2/2019 19:25	0.03	5.92	0.02	1.5
103	11/5/2019 3:25	0.01	0.08	0.01	2.1
104	11/7/2019 8:10	0.13	5.33	0.04	2.2
105	11/11/2019 12:40	0.75	21.92	0.17	4
106	11/14/2019 2:50	0.01	0.08	0.01	1.7
107	11/21/2019 14:40	0.07	11.83	0.05	7.5
108	11/23/2019 20:25	0.06	2.33	0.04	1.7
109	11/27/2019 1:30	0.21	8.25	0.09	3.1
110	12/1/2019 5:15	0.69	45.17	0.2	3.8
111	12/4/2019 10:25	0.05	11.25	0.01	1.3
112	12/9/2019 8:45	0.47	12.42	0.09	4.5
113	12/14/2019 3:45	0.5	10.5	0.1	4.3
114	12/17/2019 1:10	0.06	9.17	0.02	2.5

Division Ave PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2019 5:35	0.02	0.17	0.02	0.8
116	12/29/2019 7:55	0.66	54.17	0.11	11.1

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/2/2019 21:40	0.02	0.17	0.02	1.9
2	1/7/2019 6:20	0.05	13.25	0.02	4.4
3	1/8/2019 8:40	0.88	21	0.29	0.5
4	1/12/2019 22:10	0.05	2.92	0.03	3.7
5	1/17/2019 22:10	0.03	4.33	0.02	4.9
6	1/19/2019 10:55	0.56	26.25	0.11	1.4
7	1/23/2019 2:45	1.22	25.42	0.22	2.6
8	1/24/2019 23:25	0.01	0.08	0.01	0.8
9	1/27/2019 0:05	0.01	0.08	0.01	2
10	1/28/2019 18:50	0.11	4.58	0.05	1.8
11	2/2/2019 10:10	0.01	0.08	0.01	4.4
12	2/4/2019 21:30	0.04	4.92	0.03	2.5
13	2/6/2019 4:55	0.29	8.75	0.12	1.1
14	2/7/2019 14:30	0.49	4.08	0.21	1
15	2/10/2019 17:55	0.12	7.92	0.06	3
16	2/12/2019 0:30	1.11	19.42	0.21	0.9
17	2/15/2019 2:55	0.01	0.08	0.01	2.3
18	2/17/2019 13:50	0.09	2.17	0.07	2.5
19	2/18/2019 9:00	0.01	0.08	0.01	0.7
20	2/20/2019 11:40	0.29	9.42	0.16	2.1
21	2/24/2019 2:00	0.05	8.17	0.02	3.2
22	3/9/2019 19:15	0.51	11.17	0.15	13.4
23	3/14/2019 9:50	0.45	11.42	0.34	4.1
24	3/15/2019 16:10	0.02	7.25	0.01	0.8
25	3/20/2019 20:55	0.23	10	0.05	4.9
26	3/22/2019 8:00	0.04	0.58	0.04	1
27	3/28/2019 11:30	0.01	0.08	0.01	6.1
28	3/28/2019 23:35	0.3	11	0.08	0.5
29	3/30/2019 3:40	1.13	22.17	0.2	0.7
30	4/5/2019 13:10	0.01	0.08	0.01	5.5
31	4/7/2019 17:30	0.13	9.58	0.07	2.2
32	4/12/2019 10:45	0.17	1.67	0.14	4.3
33	4/14/2019 5:05	0.68	26.92	0.29	1.7
34	4/19/2019 4:45	1.33	30.5	0.29	3.9
35	4/23/2019 12:05	0.01	0.08	0.01	3
36	4/25/2019 19:10	0.54	23.75	0.17	2.3
37	4/27/2019 21:15	0.4	9.5	0.14	1.1
38	4/29/2019 15:40	0.46	4.92	0.22	1.4

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/30/2019 13:55	0.07	0.67	0.07	0.7
40	5/1/2019 17:20	0.9	13.25	0.2	1.1
41	5/3/2019 2:00	0.45	12.5	0.4	0.8
42	5/4/2019 16:55	0.02	0.67	0.02	1.1
43	5/9/2019 14:35	0.27	15.25	0.1	4.9
44	5/11/2019 23:35	0.31	6	0.1	1.7
45	5/12/2019 18:35	0.27	16.33	0.09	0.5
46	5/18/2019 7:25	0.28	2.42	0.25	4.9
47	5/19/2019 18:00	0.2	2.17	0.14	1.3
48	5/23/2019 8:25	0.09	0.25	0.09	3.5
49	5/26/2019 9:35	0.29	9.08	0.21	3
50	5/28/2019 0:55	0.21	5.42	0.17	1.3
51	5/28/2019 18:55	0.57	3.25	0.29	0.5
52	5/30/2019 10:10	0.56	7.75	0.54	1.5
53	6/1/2019 18:30	0.46	8.67	0.21	2
54	6/5/2019 1:20	1.43	21.17	0.55	2.9
55	6/7/2019 5:00	0.01	0.08	0.01	1.3
56	6/10/2019 11:45	1.14	6.25	0.54	3.3
57	6/12/2019 23:30	0.87	24.58	0.19	2.2
58	6/15/2019 12:20	1.43	28.42	0.21	1.5
59	6/20/2019 1:25	0.81	20	0.2	3.4
60	6/24/2019 18:15	0.48	3.67	0.3	3.9
61	6/28/2019 19:40	0.42	12.58	0.22	3.9
62	7/2/2019 22:45	0.34	2.33	0.32	3.6
63	7/6/2019 8:05	0.02	0.17	0.02	3.3
64	7/11/2019 6:40	0.07	4.17	0.05	4.9
65	7/16/2019 20:35	0.5	8.25	0.31	5.4
66	7/20/2019 6:05	0.7	0.83	0.7	3.1
67	7/20/2019 19:40	0.36	9.75	0.21	0.5
68	7/21/2019 21:25	0.73	13.08	0.41	0.7
69	7/30/2019 0:50	0.1	10.17	0.06	7.6
70	8/6/2019 12:50	0.69	21.5	0.35	7.1
71	8/13/2019 11:55	0.07	0.5	0.07	6.1
72	8/16/2019 10:25	0.19	0.33	0.19	2.9
73	8/18/2019 3:30	0.96	23	0.34	1.7
74	8/22/2019 2:20	0.47	9.83	0.21	3
75	8/27/2019 3:15	0.19	12.92	0.16	4.6
76	9/1/2019 17:05	0.08	1.92	0.05	5

Easterly WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	9/11/2019 16:10	0.46	14.75	0.38	9.9
78	9/13/2019 20:20	0.53	2	0.44	1.6
79	9/16/2019 0:45	0.05	0.92	0.05	2.1
80	9/23/2019 4:45	0.03	4.58	0.02	7.1
81	9/28/2019 15:45	0.03	2.83	0.01	5.3
82	10/2/2019 15:50	0.48	25.25	0.18	3.9
83	10/6/2019 12:20	0.05	14.08	0.01	2.8
84	10/11/2019 23:35	0.47	7.58	0.14	4.9
85	10/16/2019 5:45	0.64	21.58	0.17	3.9
86	10/21/2019 23:30	0.11	9.17	0.09	4.8
87	10/26/2019 12:45	0.68	14.17	0.2	4.2
88	10/30/2019 15:00	1.37	38.75	0.24	3.5
89	11/2/2019 14:30	0.03	9.58	0.02	1.4
90	11/5/2019 3:25	0.02	5.25	0.01	2.1
91	11/7/2019 7:15	0.13	6.17	0.03	1.9
92	11/11/2019 12:40	0.58	23.42	0.14	4
93	11/14/2019 2:45	0.01	0.08	0.01	1.6
94	11/19/2019 20:00	0.04	3.58	0.03	5.7
95	11/21/2019 15:30	0.04	10.08	0.02	1.7
96	11/23/2019 20:25	0.03	2.92	0.02	1.8
97	11/27/2019 1:40	0.21	8.08	0.09	3.1
98	12/1/2019 5:25	0.46	32.08	0.15	3.8
99	12/4/2019 10:40	0.05	10.83	0.02	1.9
100	12/9/2019 6:55	0.38	13.92	0.09	4.4
101	12/14/2019 5:45	0.41	19.75	0.09	4.4
102	12/17/2019 9:00	0.01	0.08	0.01	2.3
103	12/18/2019 5:15	0.07	0.33	0.07	0.8
104	12/29/2019 5:45	0.47	36.5	0.09	11
105	12/31/2019 8:10	0.06	2.25	0.03	0.6

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 0:50	0.04	3	0.02	0
2	1/1/2019 17:25	0.01	0.08	0.01	0.6
3	1/2/2019 22:15	0.01	0.08	0.01	1.2
4	1/7/2019 5:25	0.01	0.08	0.01	4.3
5	1/7/2019 18:15	0.01	0.08	0.01	0.5
6	1/8/2019 6:25	0.8	32.5	0.28	0.5
7	1/10/2019 8:35	0.02	0.67	0.02	0.7
8	1/12/2019 17:30	0.16	7.75	0.05	2.3
9	1/17/2019 20:35	0.02	3.17	0.01	4.8
10	1/19/2019 12:05	0.55	22.08	0.08	1.5
11	1/23/2019 3:00	1.29	26.42	0.24	2.7
12	1/26/2019 23:30	0.04	3.67	0.02	2.8
13	1/28/2019 18:30	0.19	5	0.07	1.6
14	2/1/2019 7:15	0.01	0.08	0.01	3.3
15	2/4/2019 17:25	0.07	8.08	0.04	3.4
16	2/6/2019 2:40	0.33	11	0.08	1
17	2/7/2019 14:00	0.46	8.58	0.15	1
18	2/10/2019 18:10	0.12	2.42	0.06	2.8
19	2/11/2019 23:10	0.97	20.5	0.19	1.1
20	2/15/2019 2:50	0.03	0.42	0.03	2.3
21	2/17/2019 14:30	0.09	4.33	0.06	2.5
22	2/18/2019 12:00	0.01	0.08	0.01	0.7
23	2/20/2019 7:10	0.34	17.5	0.16	1.8
24	2/23/2019 17:10	0.09	21.17	0.05	2.7
25	3/6/2019 4:30	0.01	0.08	0.01	9.6
26	3/9/2019 19:00	0.8	11.5	0.18	3.6
27	3/14/2019 9:35	0.34	11.67	0.27	4.1
28	3/15/2019 14:30	0.03	3.58	0.02	0.7
29	3/20/2019 21:05	0.14	9.58	0.03	5.1
30	3/22/2019 8:05	0.07	2.25	0.05	1.1
31	3/24/2019 20:35	0.05	6.92	0.02	2.4
32	3/28/2019 21:35	0.39	14.92	0.13	3.8
33	3/30/2019 2:40	1.4	29.42	0.22	0.6
34	4/5/2019 7:35	0.03	1.17	0.02	5
35	4/7/2019 18:05	0.08	9.25	0.07	2.4
36	4/12/2019 10:25	0.18	1.83	0.09	4.3
37	4/14/2019 5:10	0.7	31.42	0.19	1.7
38	4/18/2019 1:05	0.03	9.83	0.02	2.5

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/19/2019 4:30	1.62	29.08	0.3	0.7
40	4/21/2019 7:00	0.02	0.33	0.02	0.9
41	4/23/2019 10:00	0.02	0.17	0.02	2.1
42	4/25/2019 17:45	0.99	22	0.42	2.3
43	4/27/2019 21:25	0.51	10	0.13	1.2
44	4/29/2019 15:40	0.42	4.83	0.16	1.3
45	4/30/2019 13:35	0.13	0.83	0.13	0.7
46	5/1/2019 17:30	0.8	12.5	0.22	1.1
47	5/3/2019 1:25	0.14	13.75	0.04	0.8
48	5/4/2019 12:00	0.04	7.33	0.02	0.9
49	5/9/2019 14:40	0.49	15.33	0.12	4.8
50	5/11/2019 22:55	0.39	5.75	0.17	1.7
51	5/12/2019 18:15	0.35	21.42	0.12	0.6
52	5/18/2019 5:50	0.11	2.58	0.09	4.6
53	5/18/2019 21:50	0.35	0.67	0.35	0.6
54	5/19/2019 18:10	0.11	1.83	0.07	0.8
55	5/22/2019 14:55	0.01	0.08	0.01	2.8
56	5/23/2019 8:25	0.1	0.25	0.1	0.7
57	5/26/2019 9:15	0.38	21	0.15	3
58	5/28/2019 0:40	0.22	1.5	0.17	0.8
59	5/28/2019 14:15	1.76	12.58	0.76	0.5
60	5/30/2019 7:40	0.54	10.08	0.3	1.2
61	6/1/2019 18:50	0.66	8.5	0.21	2
62	6/2/2019 22:50	0.01	0.08	0.01	0.8
63	6/4/2019 21:55	1.43	25.25	0.56	2
64	6/7/2019 5:40	0.01	0.08	0.01	1.3
65	6/10/2019 2:40	0.78	16.08	0.39	2.9
66	6/12/2019 21:30	1.77	28.5	0.58	2.1
67	6/15/2019 15:20	1.05	34.83	0.26	1.6
68	6/18/2019 0:35	0.03	5.5	0.02	0.9
69	6/20/2019 0:45	2.81	23.5	1.5	1.8
70	6/24/2019 17:20	2.26	4.33	1.75	3.7
71	6/28/2019 20:00	0.08	5.67	0.07	3.9
72	7/2/2019 21:45	0.08	3	0.05	3.8
73	7/4/2019 14:30	0.42	1.5	0.32	1.6
74	7/5/2019 13:00	0.51	3.17	0.48	0.9
75	7/7/2019 0:50	0.19	0.83	0.19	1.4
76	7/11/2019 12:15	1.06	2.5	1.04	4.4

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/16/2019 20:15	1.92	17.08	0.99	5.2
78	7/21/2019 5:10	0.17	0.25	0.17	3.7
79	7/21/2019 20:50	1.03	13.83	0.6	0.6
80	7/24/2019 5:35	0.01	0.08	0.01	1.8
81	7/30/2019 0:35	0.3	1.75	0.27	5.8
82	8/6/2019 13:40	1.99	22.08	1.03	7.5
83	8/12/2019 14:00	0.01	0.08	0.01	5.1
84	8/13/2019 4:55	0.24	14.17	0.1	0.6
85	8/15/2019 15:00	0.48	2.83	0.47	1.8
86	8/17/2019 14:45	0.75	1.58	0.63	1.9
87	8/18/2019 6:05	0.32	0.42	0.32	0.6
88	8/19/2019 0:15	0.32	2.25	0.21	0.7
89	8/22/2019 2:25	0.44	8.42	0.26	3
90	8/26/2019 21:00	0.02	2.17	0.01	4.4
91	8/27/2019 15:00	0.16	1.75	0.14	0.7
92	9/1/2019 16:30	0.2	5.33	0.1	5
93	9/11/2019 18:55	0.13	11.75	0.09	9.9
94	9/13/2019 20:35	1.26	4.17	0.93	1.6
95	9/23/2019 4:55	0.02	0.33	0.02	9.2
96	9/28/2019 15:30	0.15	0.5	0.15	5.4
97	9/30/2019 4:00	0.03	0.58	0.03	1.5
98	10/2/2019 15:40	0.13	4.58	0.08	2.5
99	10/6/2019 21:20	0.08	3.75	0.04	4
100	10/8/2019 2:50	0.01	0.08	0.01	1.1
101	10/11/2019 22:50	0.22	7.5	0.08	3.8
102	10/16/2019 6:15	0.84	16.67	0.26	4
103	10/21/2019 23:50	0.12	8.75	0.06	5
104	10/26/2019 13:15	0.67	14.17	0.14	4.2
105	10/30/2019 14:55	1.3	36.92	0.21	3.5
106	11/2/2019 15:10	0.06	4.92	0.05	1.5
107	11/5/2019 4:40	0.01	0.08	0.01	2.4
108	11/7/2019 3:50	0.24	9.58	0.07	2
109	11/11/2019 13:00	0.75	23.17	0.12	4
110	11/14/2019 2:35	0.03	9.5	0.02	1.6
111	11/21/2019 22:30	0.04	6.25	0.02	7.4
112	11/23/2019 20:25	0.01	0.08	0.01	1.7
113	11/27/2019 1:40	0.18	8.17	0.11	3.2
114	12/1/2019 5:10	0.83	44.92	0.19	3.8

Independence Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/4/2019 10:40	0.12	23.58	0.04	1.4
116	12/9/2019 8:45	0.53	11.42	0.11	3.9
117	12/14/2019 5:20	0.59	20.58	0.11	4.4
118	12/17/2019 4:35	0.09	8.25	0.03	2.1
119	12/29/2019 8:00	0.78	52.58	0.12	11.8

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:30	0.01	0.08	0.01	0.1
2	1/2/2019 21:20	0.03	3.17	0.02	1.7
3	1/7/2019 7:10	0.77	54.25	0.29	4.3
4	1/10/2019 8:20	0.03	1.58	0.02	0.8
5	1/12/2019 18:00	0.11	6.33	0.04	2.3
6	1/17/2019 20:35	0.01	0.08	0.01	4.8
7	1/19/2019 12:25	0.5	22.58	0.08	1.7
8	1/23/2019 2:40	1.15	25.42	0.21	2.7
9	1/26/2019 23:40	0.01	0.08	0.01	2.8
10	1/28/2019 17:35	0.09	5.75	0.03	1.7
11	2/4/2019 18:25	0.05	9.42	0.02	6.8
12	2/6/2019 2:35	0.35	15.83	0.11	0.9
13	2/7/2019 14:15	0.4	4.08	0.16	0.8
14	2/10/2019 18:00	0.13	2.5	0.07	3
15	2/12/2019 0:10	0.91	25.08	0.18	1.2
16	2/17/2019 14:40	0.08	8.5	0.06	4.6
17	2/20/2019 7:15	0.31	14	0.14	2.3
18	2/23/2019 20:45	0.06	13.33	0.04	3
19	3/6/2019 4:15	0.05	0.58	0.05	9.8
20	3/9/2019 18:50	0.65	11.5	0.15	3.6
21	3/14/2019 9:35	0.44	11.58	0.33	4.1
22	3/15/2019 16:10	0.02	0.42	0.02	0.8
23	3/20/2019 21:25	0.19	9.5	0.05	5.2
24	3/22/2019 8:20	0.05	1.58	0.04	1.1
25	3/24/2019 20:55	0.02	5	0.01	2.5
26	3/29/2019 4:20	1.71	53.25	0.21	4.1
27	4/5/2019 8:10	0.01	0.08	0.01	4.9
28	4/7/2019 19:30	0.12	7.67	0.09	2.5
29	4/12/2019 10:35	0.17	2.08	0.13	4.3
30	4/14/2019 6:45	0.5	24.5	0.1	1.8
31	4/17/2019 23:50	0.02	1.5	0.01	2.7
32	4/19/2019 4:20	1.45	29.33	0.29	1.1
33	4/21/2019 2:00	0.02	5	0.01	0.7
34	4/23/2019 9:50	0.05	0.25	0.05	2.1
35	4/25/2019 18:55	0.65	21	0.2	2.4
36	4/27/2019 21:25	0.45	10.08	0.11	1.2
37	4/29/2019 15:35	0.61	22.83	0.2	1.3
38	5/1/2019 17:20	0.74	13.17	0.17	1.1

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	5/3/2019 1:00	0.11	13.42	0.05	0.8
40	5/4/2019 8:30	0.03	10.58	0.01	0.8
41	5/9/2019 14:30	0.4	15	0.2	4.8
42	5/11/2019 22:45	0.31	6.58	0.13	1.7
43	5/12/2019 18:15	0.28	16.33	0.09	0.5
44	5/18/2019 7:20	0.04	1.33	0.03	4.9
45	5/19/2019 18:10	0.17	1.75	0.12	1.4
46	5/20/2019 23:40	0.01	0.08	0.01	1.2
47	5/23/2019 8:20	0.05	0.25	0.05	2.4
48	5/26/2019 8:50	0.45	10	0.18	3
49	5/27/2019 7:00	0.01	0.08	0.01	0.5
50	5/27/2019 22:55	0.23	3.08	0.13	0.7
51	5/28/2019 14:15	1.43	12.75	1.19	0.5
52	5/30/2019 8:00	1.1	9.67	0.7	1.2
53	6/1/2019 16:05	0.65	11.25	0.24	1.9
54	6/4/2019 21:30	1.38	32.08	0.8	2.8
55	6/10/2019 11:30	0.68	7	0.23	4.2
56	6/12/2019 22:00	0.28	4.33	0.17	2.1
57	6/13/2019 14:45	1.17	10.67	0.44	0.5
58	6/15/2019 12:40	1.23	26.67	0.31	1.5
59	6/18/2019 0:30	0.02	1.17	0.01	1.4
60	6/20/2019 1:50	1.71	23.08	0.3	2
61	6/24/2019 17:20	0.58	9.83	0.3	3.7
62	6/28/2019 19:15	0.16	6.17	0.13	3.7
63	7/2/2019 22:50	0.2	6.33	0.17	3.9
64	7/4/2019 13:55	0.59	2.08	0.53	1.4
65	7/15/2019 21:15	0.43	0.33	0.43	11.2
66	7/16/2019 14:40	1.38	22.17	0.53	0.7
67	7/21/2019 4:50	0.15	0.25	0.15	3.7
68	7/21/2019 21:05	0.59	13.17	0.34	0.7
69	7/30/2019 0:25	0.06	1.75	0.05	7.6
70	8/6/2019 13:20	1.45	25.42	0.85	7.5
71	8/13/2019 6:00	0.01	0.08	0.01	5.6
72	8/15/2019 13:35	0.21	1.67	0.15	2.3
73	8/17/2019 14:35	0.35	1.58	0.22	2
74	8/18/2019 6:00	1.17	20.33	0.56	0.6
75	8/20/2019 19:30	0.14	0.17	0.14	1.7
76	8/22/2019 2:15	0.38	8.58	0.15	1.3

James Rhodes HS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/27/2019 0:30	0.01	0.08	0.01	4.6
78	8/27/2019 15:00	0.09	2	0.06	0.6
79	9/1/2019 7:10	0.26	14.75	0.14	4.6
80	9/2/2019 20:40	0.01	0.08	0.01	0.9
81	9/11/2019 16:40	0.39	14.08	0.22	8.8
82	9/13/2019 20:15	1.33	3.58	1.21	1.6
83	9/15/2019 23:50	0.03	1.08	0.02	2
84	9/23/2019 4:40	0.02	4.25	0.01	7.2
85	9/28/2019 15:35	0.04	1.33	0.03	5.3
86	9/30/2019 3:55	0.04	1	0.04	1.5
87	10/2/2019 16:05	0.21	2.83	0.17	2.5
88	10/6/2019 22:05	0.09	6.58	0.05	4.1
89	#####	0.27	6.67	0.14	4.8
90	10/16/2019 5:40	0.86	16.92	0.22	4
91	#####	0.12	9	0.07	5
92	#####	0.68	14.25	0.19	4.2
93	#####	1.37	37.58	0.22	3.5
94	11/2/2019 14:25	0.04	5.83	0.03	1.4
95	11/7/2019 4:15	0.21	9.17	0.06	4.3
96	#####	0.8	21.08	0.18	4
97	11/14/2019 2:15	0.02	0.67	0.02	1.7
98	#####	0.04	4.58	0.02	7.9
99	#####	0.05	1.08	0.04	1.7
100	11/27/2019 1:35	0.17	8.08	0.09	3.2
101	12/1/2019 5:15	0.33	12.75	0.17	3.8
102	12/2/2019 7:05	0.25	20	0.09	0.5
103	12/4/2019 18:10	0.1	10.08	0.03	1.6
104	12/9/2019 8:50	0.41	12.58	0.08	4.2
105	12/14/2019 5:20	0.55	22.67	0.11	4.3
106	12/17/2019 1:25	0.07	7.58	0.02	1.9
107	12/18/2019 5:40	0.07	3.42	0.03	0.9
108	12/29/2019 8:00	0.48	27	0.1	11
109	12/31/2019 0:25	0.09	13	0.03	0.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:30	0.01	0.08	0.01	0.1
2	1/2/2019 21:20	0.02	0.42	0.02	1.7
3	1/7/2019 4:55	0.01	0.08	0.01	4.3
4	1/7/2019 18:10	0.89	42.5	0.32	0.5
5	1/10/2019 7:30	0.02	1.75	0.01	0.8
6	1/12/2019 19:10	0.13	5.67	0.05	2.4
7	1/17/2019 21:15	0.01	0.08	0.01	4.9
8	1/19/2019 12:10	0.79	23.75	0.11	1.6
9	1/23/2019 2:45	1.34	25.75	0.23	2.6
10	1/26/2019 23:35	0.03	2.92	0.02	2.8
11	1/28/2019 17:35	0.12	5.83	0.04	1.6
12	1/29/2019 15:20	0.01	0.08	0.01	0.7
13	2/4/2019 18:30	0.05	8.83	0.02	6.1
14	2/6/2019 2:40	0.37	15.83	0.11	1
15	2/7/2019 14:15	0.41	4.25	0.15	0.8
16	2/10/2019 18:00	0.16	2.58	0.08	3
17	2/12/2019	0.98	25.25	0.18	1.1
18	2/17/2019 14:40	0.1	8.58	0.06	4.6
19	2/20/2019 7:10	0.35	13.25	0.15	2.3
20	2/23/2019 20:05	0.07	14.08	0.04	3
21	2/26/2019 11:00	0.01	0.08	0.01	2
22	3/6/2019 2:45	0.09	2	0.07	7.7
23	3/9/2019 18:45	0.59	11.67	0.16	3.6
24	3/14/2019 9:30	0.56	12.25	0.43	4.1
25	3/15/2019 16:40	0.01	0.08	0.01	0.8
26	3/20/2019 21:25	0.21	9.33	0.06	5.2
27	3/22/2019 8:15	0.07	6.58	0.05	1.1
28	3/24/2019 21:40	0.01	0.08	0.01	2.3
29	3/29/2019 4:15	0.4	7.92	0.12	4.3
30	3/30/2019 3:10	1.54	29.75	0.24	0.6
31	4/5/2019 8:00	0.02	1.5	0.01	5
32	4/7/2019 19:30	0.2	9.67	0.12	2.4
33	4/12/2019 10:35	0.18	1.75	0.13	4.2
34	4/14/2019 5:15	0.65	25.5	0.12	1.7
35	4/17/2019 23:30	0.04	11	0.02	2.7
36	4/19/2019 4:30	1.54	29.33	0.26	0.8
37	4/21/2019 0:55	0.04	6.75	0.02	0.6
38	4/23/2019 9:50	0.06	0.83	0.06	2.1

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/25/2019 18:55	0.71	24	0.2	2.3
40	4/27/2019 21:20	0.49	12.33	0.12	1.1
41	4/29/2019 15:40	0.61	22.75	0.21	1.3
42	5/1/2019 17:25	0.77	13.25	0.2	1.1
43	5/3/2019 1:05	0.13	13.5	0.06	0.8
44	5/4/2019 8:40	0.03	9.92	0.01	0.8
45	5/9/2019 14:25	0.45	15.08	0.22	4.8
46	5/11/2019 22:55	0.32	6	0.14	1.7
47	5/12/2019 18:15	0.31	21.5	0.09	0.6
48	5/17/2019 23:30	0.06	9.33	0.03	4.3
49	5/19/2019 18:05	0.18	1.92	0.11	1.4
50	5/22/2019 14:55	0.01	0.08	0.01	2.8
51	5/23/2019 8:10	0.07	0.42	0.07	0.7
52	5/26/2019 8:50	0.6	10.25	0.28	3
53	5/27/2019 23:00	0.27	3.33	0.15	1.2
54	5/28/2019 16:50	1.16	13.17	1.05	0.6
55	5/30/2019 8:15	0.75	9.5	0.56	1.1
56	5/31/2019 6:35	0.01	0.08	0.01	0.5
57	6/1/2019 16:10	0.62	13.33	0.24	1.4
58	6/4/2019 21:35	1.36	25.42	0.6	2.7
59	6/10/2019 11:30	0.8	7	0.29	4.5
60	6/12/2019 22:30	0.25	4.33	0.15	2.2
61	6/13/2019 14:50	1.3	12.67	0.47	0.5
62	6/15/2019 14:05	1.46	26.92	0.37	1.4
63	6/18/2019 0:55	0.01	0.08	0.01	1.3
64	6/20/2019 1:05	2	22.75	0.49	2
65	6/24/2019 17:25	0.63	4.33	0.3	3.7
66	6/28/2019 19:25	0.11	17.92	0.05	3.9
67	7/2/2019 22:30	0.46	6.67	0.38	3.4
68	7/4/2019 12:50	0.79	3.5	0.38	1.3
69	7/6/2019 1:30	0.15	2.42	0.14	1.4
70	7/6/2019 23:55	0.89	0.67	0.89	0.8
71	7/15/2019 21:20	0.35	0.33	0.35	8.9
72	7/16/2019 14:45	1.36	22.67	0.46	0.7
73	7/20/2019 6:30	0.01	0.08	0.01	2.7
74	7/21/2019 4:55	0.04	0.17	0.04	0.9
75	7/21/2019 21:15	0.56	12.83	0.34	0.7
76	7/30/2019 0:30	0.07	2	0.04	7.6

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/6/2019 13:25	1.39	15.08	0.42	7.5
78	8/12/2019 14:10	0.01	0.08	0.01	5.4
79	8/13/2019 5:30	0.06	5.42	0.04	0.6
80	8/15/2019 13:50	0.37	1.5	0.36	2.1
81	8/17/2019 14:35	0.12	0.33	0.12	2
82	8/18/2019 6:05	0.54	6.08	0.51	0.6
83	8/19/2019 0:10	0.62	2.25	0.54	0.5
84	8/20/2019 19:40	0.08	0.25	0.08	1.7
85	8/22/2019 2:15	0.35	8.33	0.16	1.3
86	8/26/2019 23:00	0.02	1.08	0.01	4.5
87	8/27/2019 14:05	0.09	2.92	0.05	0.6
88	9/1/2019 7:10	0.28	15	0.13	4.6
89	9/11/2019 14:00	0.7	16.75	0.32	9.7
90	9/13/2019 20:20	1.88	6.17	1.7	1.6
91	9/16/2019 0:10	0.03	4.58	0.02	1.9
92	9/23/2019 4:45	0.02	1.33	0.01	7
93	9/28/2019 15:40	0.03	1.08	0.02	5.4
94	9/30/2019 3:50	0.05	0.92	0.05	1.5
95	10/2/2019 15:40	0.23	4.17	0.15	2.5
96	10/6/2019 21:40	0.12	7.25	0.06	4.1
97	10/8/2019 8:15	0.01	0.08	0.01	1.1
98	10/11/2019 23:15	0.28	7	0.14	3.6
99	10/16/2019 5:45	1.09	22.08	0.26	4
100	10/21/2019 23:30	0.13	9.08	0.07	4.8
101	10/26/2019 12:40	0.71	14.42	0.2	4.2
102	10/30/2019 14:50	1.58	38.42	0.21	3.5
103	11/2/2019 19:25	0.03	0.5	0.03	1.6
104	11/5/2019 3:40	0.01	0.08	0.01	2.3
105	11/7/2019 4:10	0.31	9.17	0.11	2
106	11/11/2019 12:45	0.77	23.08	0.18	4
107	11/14/2019 2:45	0.03	9.25	0.01	1.6
108	11/21/2019 23:45	0.03	2.17	0.02	7.5
109	11/23/2019 20:15	0.02	1.5	0.01	1.8
110	11/27/2019 1:55	0.17	8	0.08	3.2
111	11/28/2019 21:10	0.01	0.08	0.01	1.5
112	12/1/2019 5:20	0.68	46.58	0.19	2.3
113	12/4/2019 18:10	0.05	9.33	0.01	1.6
114	12/9/2019 8:45	0.48	12.75	0.1	4.2

Jennings PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/14/2019 5:25	0.58	20	0.11	4.3
116	12/17/2019 1:10	0.1	10.75	0.03	2
117	12/18/2019 5:45	0.07	3.08	0.03	0.7
118	12/29/2019 7:55	0.71	55.25	0.1	11

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:00	0.03	1.17	0.02	0.1
2	1/1/2019 19:00	0.01	0.08	0.01	0.6
3	1/2/2019 21:45	0.01	0.08	0.01	1.1
4	1/7/2019 6:25	0.07	13.75	0.03	4.4
5	1/8/2019 9:05	0.7	30.67	0.24	0.5
6	1/10/2019 7:25	0.06	2.25	0.04	0.7
7	1/12/2019 17:40	0.13	7.83	0.04	2.3
8	1/17/2019 18:20	0.04	8.58	0.01	4.7
9	1/19/2019 11:10	0.64	41.75	0.07	1.3
10	1/22/2019 12:25	0.01	0.08	0.01	1.3
11	1/23/2019 3:05	1.71	26.5	0.26	0.6
12	1/26/2019 23:15	0.09	5.17	0.04	2.7
13	1/28/2019 18:30	0.18	5.75	0.05	1.6
14	2/1/2019 7:15	0.01	0.08	0.01	3.3
15	2/4/2019 21:40	0.06	6.67	0.02	3.6
16	2/6/2019 6:45	0.3	11.5	0.1	1.1
17	2/7/2019 14:00	0.48	8.75	0.17	0.8
18	2/10/2019 17:55	0.14	3.75	0.06	2.8
19	2/11/2019 23:30	0.93	20.17	0.2	1.1
20	2/15/2019 3:05	0.01	0.08	0.01	2.3
21	2/17/2019 14:10	0.14	18.58	0.06	2.5
22	2/20/2019 6:40	0.37	14.25	0.15	1.9
23	2/23/2019 16:50	0.09	9.5	0.05	2.8
24	3/3/2019 15:35	0.01	0.08	0.01	7.6
25	3/6/2019 6:40	0.01	0.08	0.01	2.6
26	3/9/2019 19:00	1.25	11.83	0.28	3.5
27	3/14/2019 11:05	0.43	10.92	0.31	4.2
28	3/15/2019 15:15	0.03	9.08	0.02	0.7
29	3/20/2019 22:10	0.09	9	0.04	4.9
30	3/22/2019 8:30	0.12	7	0.05	1.1
31	3/24/2019 20:00	0.08	7.67	0.02	2.2
32	3/28/2019 23:45	2.31	57.42	0.37	3.8
33	4/5/2019 6:25	0.04	2.33	0.02	4.9
34	4/8/2019 3:10	0.1	0.33	0.1	2.8
35	4/12/2019 10:45	0.18	1.5	0.11	4.3
36	4/14/2019 6:55	0.73	25.42	0.21	1.8
37	4/18/2019 1:35	0.01	0.08	0.01	2.7
38	4/19/2019 9:30	1.14	23.92	0.26	1.3

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2019 8:05	0.01	0.08	0.01	0.9
40	4/23/2019 10:20	0.03	0.17	0.03	2.1
41	4/25/2019 5:40	0.81	37.67	0.16	1.8
42	4/27/2019 21:30	0.48	10.5	0.13	1.1
43	4/29/2019 15:55	0.35	4.75	0.14	1.3
44	4/30/2019 11:00	0.13	3.42	0.12	0.6
45	5/1/2019 19:35	0.73	11.33	0.16	1.2
46	5/3/2019 7:55	0.09	7.83	0.03	1
47	5/4/2019 9:05	0.06	12.58	0.02	0.7
48	5/9/2019 15:35	0.47	17.67	0.17	4.7
49	5/11/2019 23:05	0.55	43.33	0.14	1.6
50	5/18/2019 7:25	0.13	1.25	0.11	4.5
51	5/18/2019 22:15	0.01	0.08	0.01	0.6
52	5/19/2019 18:40	0.04	1.17	0.03	0.8
53	5/23/2019 8:45	0.04	3.67	0.03	3.5
54	5/26/2019 9:25	0.08	19.33	0.04	2.9
55	5/28/2019 0:45	0.83	29.92	0.3	0.8
56	5/30/2019 7:55	0.22	19.83	0.17	1.1
57	6/1/2019 17:40	0.8	10.58	0.19	1.6
58	6/4/2019 22:25	1.14	28.92	0.57	2.8
59	6/9/2019 8:55	0.04	0.17	0.04	3.2
60	6/10/2019 2:00	0.9	17.17	0.35	0.7
61	6/12/2019 22:05	1.9	28	0.52	2.1
62	6/15/2019 15:20	1.36	24.17	0.55	1.6
63	6/18/2019 0:35	0.04	1.67	0.03	1.4
64	6/20/2019 0:35	2.16	26.67	1	1.9
65	6/24/2019 17:10	0.71	12.25	0.46	3.6
66	6/26/2019 14:15	0.03	0.17	0.03	1.4
67	6/28/2019 16:30	0.14	9.17	0.07	2.1
68	7/2/2019 23:15	0.03	2	0.02	3.9
69	7/5/2019 14:30	1.12	12.08	0.54	2.6
70	7/7/2019 4:40	0.08	8.17	0.05	1.1
71	7/11/2019 12:30	0.9	2.92	0.51	4
72	7/16/2019 20:25	1.24	17.58	0.64	5.2
73	7/20/2019 7:30	0.01	0.08	0.01	2.7
74	7/21/2019 5:30	0.17	0.25	0.17	0.9
75	7/21/2019 19:35	1.11	15.25	0.63	0.6
76	7/24/2019 6:05	0.05	0.42	0.05	1.8

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/30/2019 0:35	0.36	15.92	0.13	5.8
78	8/5/2019 15:40	0.16	0.5	0.16	6
79	8/6/2019 13:20	0.58	14.5	0.22	0.9
80	8/8/2019 5:00	0.01	0.08	0.01	1
81	8/13/2019 5:10	0.45	10	0.26	5
82	8/14/2019 7:25	0.01	0.08	0.01	0.7
83	8/15/2019 17:05	0.61	11.33	0.41	1.4
84	8/17/2019 16:05	0.7	0.92	0.7	1.5
85	8/18/2019 5:35	0.3	1.17	0.29	0.5
86	8/19/2019 0:20	0.39	7.25	0.29	0.7
87	8/20/2019 20:10	0.07	7.33	0.05	1.5
88	8/22/2019 2:50	0.16	7.83	0.13	1
89	8/27/2019 14:30	0.11	12.5	0.07	5.2
90	9/1/2019 16:50	0.27	5.67	0.12	4.6
91	9/6/2019 15:35	0.01	0.08	0.01	4.7
92	9/11/2019 18:50	0.22	12.25	0.12	5.1
93	9/13/2019 21:35	0.83	3.5	0.74	1.6
94	9/15/2019 23:50	0.02	0.75	0.02	1.9
95	9/23/2019 5:05	0.07	7	0.03	7.2
96	9/28/2019 4:20	0.02	0.08	0.02	4.7
97	9/30/2019 4:35	0.02	1.58	0.01	2
98	10/2/2019 15:50	0.14	3	0.09	2.4
99	10/6/2019 21:45	0.17	11.67	0.1	4.1
100	10/11/2019 23:20	0.21	7.08	0.11	4.6
101	10/16/2019 6:25	0.74	22.58	0.24	4
102	10/22/2019 0:30	0.2	9.92	0.09	4.8
103	10/26/2019 13:20	0.94	14.17	0.27	4.1
104	10/30/2019 15:00	1.29	32.92	0.28	3.5
105	11/2/2019 15:20	0.02	4.75	0.01	1.6
106	11/5/2019 3:50	0.02	1.67	0.01	2.3
107	11/7/2019 3:25	0.2	10.17	0.05	1.9
108	11/8/2019 9:40	0.01	0.08	0.01	0.8
109	11/11/2019 14:20	0.69	23.92	0.08	3.2
110	11/14/2019 3:35	0.12	9.25	0.04	1.6
111	11/22/2019 0:20	0.05	4.83	0.03	7.5
112	11/23/2019 20:05	0.13	3.83	0.09	1.6
113	11/27/2019 1:55	0.22	11.83	0.11	3.1
114	12/1/2019 5:05	0.81	11.5	0.32	3.6

Macedonia Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/2/2019 7:50	0.16	20.58	0.06	0.6
116	12/4/2019 11:30	0.14	18.5	0.03	1.3
117	12/9/2019 6:20	0.71	15.42	0.13	4
118	12/14/2019 5:20	0.44	21.17	0.1	4.3
119	12/17/2019 1:40	0.07	4.58	0.03	2
120	12/18/2019 6:15	0.04	3.58	0.02	1
121	12/29/2019 6:30	1.06	55.33	0.14	10.9

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:45	0.01	0.08	0.01	0.2
2	1/2/2019 22:35	0.01	0.08	0.01	1.8
3	1/7/2019 6:15	0.01	0.08	0.01	4.3
4	1/7/2019 18:20	0.01	0.08	0.01	0.5
5	1/8/2019 6:35	0.69	30.83	0.3	0.5
6	1/12/2019 19:30	0.09	5.92	0.04	3.3
7	1/18/2019 2:30	0.01	0.08	0.01	5
8	1/19/2019 12:05	0.36	14.75	0.06	1.4
9	1/23/2019 2:50	1.33	26.58	0.21	3
10	1/27/2019 0:35	0.01	0.08	0.01	2.8
11	1/28/2019 18:10	0.13	5.83	0.04	1.7
12	2/4/2019 17:15	0.06	10.33	0.02	6.7
13	2/6/2019 2:50	0.31	11.08	0.08	1
14	2/7/2019 14:05	0.4	8.58	0.14	1
15	2/10/2019 18:10	0.11	2.42	0.06	2.8
16	2/12/2019 1:45	0.9	24.17	0.2	1.2
17	2/15/2019 3:00	0.01	0.08	0.01	2
18	2/17/2019 14:20	0.07	4.08	0.05	2.5
19	2/18/2019 8:00	0.01	0.08	0.01	0.6
20	2/20/2019 7:25	0.29	13.5	0.14	2
21	2/23/2019 17:15	0.08	9.17	0.05	2.8
22	3/6/2019 4:05	0.04	0.75	0.04	10.1
23	3/9/2019 19:05	0.74	11.42	0.19	3.6
24	3/14/2019 10:55	0.33	10.42	0.24	4.2
25	3/15/2019 14:40	0.02	3.5	0.01	0.7
26	3/20/2019 21:30	0.1	9.33	0.03	5.1
27	3/22/2019 8:15	0.08	7	0.05	1.1
28	3/24/2019 20:55	0.03	6	0.01	2.2
29	3/29/2019 4:15	0.36	8.33	0.1	4.1
30	3/30/2019 3:05	1.35	37.67	0.21	0.6
31	4/5/2019 8:00	0.04	5.42	0.02	4.6
32	4/8/2019 3:10	0.09	0.17	0.09	2.6
33	4/11/2019 1:15	0.01	0.08	0.01	2.9
34	4/12/2019 10:35	0.17	1.92	0.09	1.4
35	4/14/2019 5:35	0.58	25.42	0.15	1.7
36	4/17/2019 23:40	0.03	11.42	0.02	2.7
37	4/19/2019 4:55	1.22	28.58	0.25	0.7
38	4/21/2019 1:25	0.04	11.17	0.02	0.7

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/23/2019 10:00	0.05	0.25	0.05	1.9
40	4/25/2019 18:00	1.01	25.08	0.32	2.3
41	4/27/2019 21:10	0.42	10.58	0.11	1.1
42	4/29/2019 15:55	0.46	5.17	0.17	1.3
43	4/30/2019 13:45	0.12	0.75	0.12	0.7
44	5/1/2019 17:30	0.96	13.5	0.21	1.1
45	5/3/2019 5:00	0.12	9.92	0.04	0.9
46	5/4/2019 8:45	0.05	10.58	0.02	0.7
47	5/9/2019 14:45	0.41	15.08	0.09	4.8
48	5/11/2019 22:50	0.34	5.92	0.14	1.7
49	5/12/2019 18:35	0.32	16.33	0.12	0.6
50	5/17/2019 11:25	0.08	21.58	0.04	4
51	5/18/2019 22:00	0.2	0.42	0.2	0.5
52	5/19/2019 18:10	0.09	1.75	0.05	0.8
53	5/20/2019 23:55	0.01	0.08	0.01	1.2
54	5/23/2019 8:30	0.07	0.17	0.07	2.4
55	5/26/2019 9:00	0.67	20.17	0.31	3
56	5/27/2019 23:05	1.42	27.92	0.75	0.7
57	5/30/2019 7:55	1.48	21.75	1.04	1.2
58	6/1/2019 21:05	0.55	9.67	0.17	1.6
59	6/4/2019 21:40	1.59	25.25	0.68	2.6
60	6/7/2019 3:25	0.01	0.08	0.01	1.2
61	6/10/2019 1:25	0.82	17.33	0.33	2.9
62	6/11/2019 8:50	0.01	0.08	0.01	0.6
63	6/12/2019 21:45	1.5	27.5	0.35	1.5
64	6/15/2019 11:10	1.58	40.17	0.63	1.4
65	6/18/2019 0:40	0.03	1.08	0.02	0.9
66	6/20/2019 0:50	2.16	23.5	1.23	2
67	6/24/2019 5:25	0.04	0.08	0.04	3.2
68	6/24/2019 17:30	1.68	4.33	1.01	0.5
69	6/28/2019 19:55	0.1	17.58	0.06	3.9
70	7/2/2019 22:35	0.41	8.5	0.33	3.4
71	7/4/2019 15:00	0.06	1.33	0.05	1.3
72	7/5/2019 13:00	0.73	1.17	0.69	0.9
73	7/11/2019 12:20	0.06	0.17	0.06	5.9
74	7/15/2019 21:40	0.02	0.25	0.02	4.4
75	7/16/2019 20:20	1.91	17.25	0.66	0.9
76	7/20/2019 5:45	0.03	0.75	0.03	2.7

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/21/2019 5:05	0.13	0.58	0.13	0.9
78	7/21/2019 21:05	0.81	13.58	0.49	0.6
79	7/29/2019 18:40	0.44	12.08	0.38	7.3
80	7/31/2019 4:40	0.12	0.42	0.12	0.9
81	8/6/2019 13:30	2.86	12.08	1.23	6.4
82	8/7/2019 14:15	0.02	0.17	0.02	0.5
83	8/13/2019 5:35	0.18	11.75	0.07	5.6
84	8/14/2019 5:55	0.01	0.08	0.01	0.5
85	8/15/2019 13:00	0.35	4.92	0.26	1.3
86	8/17/2019 14:50	0.1	1.42	0.06	1.9
87	8/18/2019 6:15	0.16	0.92	0.16	0.6
88	8/19/2019 0:20	0.38	5.42	0.29	0.7
89	8/22/2019 2:25	0.38	10.5	0.17	2.9
90	8/27/2019 14:05	0.12	1.75	0.11	5
91	9/1/2019 16:45	0.15	5.33	0.09	5
92	9/2/2019 10:15	0.02	0.33	0.02	0.5
93	9/11/2019 18:45	0.26	12.5	0.17	9.3
94	9/13/2019 20:35	1.41	4.25	1.06	1.6
95	9/16/2019 0:10	0.04	5.25	0.02	2
96	9/21/2019 18:55	0.03	0.5	0.03	5.6
97	9/23/2019 5:10	0.01	0.08	0.01	1.4
98	9/28/2019 15:45	0.05	0.33	0.05	5.4
99	9/30/2019 4:00	0.03	0.58	0.03	1.5
100	10/2/2019 15:45	0.19	4.75	0.12	2.5
101	10/6/2019 21:55	0.1	5.08	0.06	4.1
102	10/8/2019 5:40	0.01	0.08	0.01	1.1
103	10/11/2019 23:00	0.29	7.5	0.09	3.7
104	10/16/2019 6:40	1.08	21.58	0.31	4
105	10/22/2019 0:10	0.08	8.08	0.03	4.8
106	10/26/2019 13:05	0.71	14.92	0.12	4.2
107	10/30/2019 15:05	1.38	38.08	0.21	3.5
108	11/2/2019 20:00	0.01	0.08	0.01	1.6
109	11/5/2019 3:55	0.01	0.08	0.01	2.3
110	11/7/2019 3:55	0.17	9.75	0.04	2
111	11/11/2019 13:10	0.65	24.17	0.13	4
112	11/14/2019 3:55	0.01	0.08	0.01	1.6
113	11/21/2019 14:50	0.05	13.92	0.02	7.5
114	11/23/2019 20:35	0.02	0.92	0.02	1.7

Maple Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	11/27/2019 1:50	0.17	8.5	0.1	3.2
116	12/1/2019 5:20	0.62	12.58	0.19	3.8
117	12/2/2019 7:30	0.14	21	0.04	0.6
118	12/4/2019 18:10	0.08	7.33	0.02	1.6
119	12/9/2019 8:05	0.57	13.5	0.11	4.3
120	12/14/2019 5:50	0.45	20.17	0.09	4.3
121	12/17/2019 2:20	0.05	9.83	0.01	2
122	12/18/2019 6:10	0.01	0.08	0.01	0.8
123	12/29/2019 8:00	0.58	27.5	0.13	11.1
124	12/31/2019 0:40	0.12	12.58	0.03	0.5

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:25	0.01	0.08	0.01	0.1
2	1/2/2019 21:20	0.03	0.92	0.03	1.7
3	1/7/2019 19:05	0.04	0.42	0.04	4.9
4	1/8/2019 8:35	0.66	21	0.23	0.5
5	1/10/2019 7:00	0.01	0.08	0.01	1.1
6	1/12/2019 22:05	0.05	13.5	0.02	2.6
7	1/14/2019 12:25	0.01	0.08	0.01	1
8	1/17/2019 20:45	0.02	2.17	0.01	3.3
9	1/19/2019 12:25	0.29	26.42	0.04	1.6
10	1/23/2019 2:50	1.27	25.42	0.2	2.5
11	1/24/2019 23:15	0.01	0.08	0.01	0.8
12	1/26/2019 23:40	0.02	2.33	0.01	2
13	1/28/2019 17:40	0.11	5.75	0.04	1.7
14	2/1/2019 6:55	0.02	2.08	0.01	3.3
15	2/4/2019 18:35	0.06	8.83	0.03	3.4
16	2/6/2019 4:40	0.29	10.17	0.08	1.1
17	2/7/2019 14:10	0.43	4.17	0.18	1
18	2/10/2019 17:30	0.15	3.08	0.07	3
19	2/12/2019 0:25	0.95	24.08	0.18	1.2
20	2/17/2019 14:45	0.08	18.42	0.06	4.6
21	2/20/2019 7:40	0.34	12.83	0.16	1.9
22	2/23/2019 17:25	0.07	16.75	0.03	2.9
23	3/6/2019 2:25	0.05	12.92	0.02	9.7
24	3/9/2019 19:00	0.61	11.25	0.15	3.2
25	3/14/2019 9:30	0.48	11.67	0.35	4.1
26	3/20/2019 21:05	0.2	9.67	0.05	6
27	3/22/2019 8:05	0.06	6.92	0.04	1.1
28	3/24/2019 21:50	0.01	0.08	0.01	2.3
29	3/29/2019 4:30	0.32	7.75	0.09	4.3
30	3/30/2019 3:25	1.38	29.5	0.25	0.6
31	4/5/2019 7:55	0.02	4.42	0.01	5
32	4/7/2019 17:15	0.06	10	0.04	2.2
33	4/12/2019 10:40	0.18	1.75	0.14	4.3
34	4/14/2019 5:35	0.53	25.17	0.11	1.7
35	4/17/2019 23:50	0.01	0.08	0.01	2.7
36	4/19/2019 4:15	1.25	50.75	0.22	1.2
37	4/23/2019 9:50	0.12	0.33	0.12	2.1
38	4/25/2019 18:25	0.62	24.5	0.19	2.3

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/27/2019 21:20	0.4	10.5	0.09	1.1
40	4/29/2019 15:40	0.46	4.83	0.22	1.3
41	4/30/2019 13:40	0.1	0.67	0.1	0.7
42	5/1/2019 17:20	0.82	13	0.19	1.1
43	5/2/2019 23:05	0.32	15.75	0.24	0.7
44	5/4/2019 17:45	0.01	0.08	0.01	1.1
45	5/9/2019 14:25	0.3	13.17	0.15	4.9
46	5/11/2019 22:55	0.29	5.92	0.12	1.8
47	5/12/2019 18:20	0.26	16.25	0.08	0.6
48	5/15/2019 23:00	0.01	0.08	0.01	2.5
49	5/17/2019 23:25	0.09	9.5	0.04	2
50	5/19/2019 18:05	0.16	1.83	0.11	1.4
51	5/23/2019 8:10	0.08	0.42	0.08	3.5
52	5/26/2019 8:50	0.46	14.17	0.16	3
53	5/27/2019 23:10	1.31	27.92	0.86	1
54	5/30/2019 10:05	0.55	9.92	0.37	1.3
55	6/1/2019 18:50	0.55	8.25	0.24	2
56	6/4/2019 21:50	1.03	25	0.33	2.8
57	6/6/2019 15:10	0.01	0.08	0.01	0.7
58	6/10/2019 11:35	0.81	6.67	0.34	3.8
59	6/12/2019 22:15	1.43	27.33	0.56	2.2
60	6/15/2019 14:35	1.56	26.67	0.41	1.5
61	6/18/2019 3:15	0.01	0.08	0.01	1.4
62	6/20/2019 1:10	1.4	22.42	0.35	1.9
63	6/24/2019 17:25	0.53	8.92	0.36	3.7
64	6/28/2019 19:25	0.1	0.58	0.1	3.7
65	6/29/2019 13:10	0.05	0.17	0.05	0.7
66	7/2/2019 22:30	0.29	6.67	0.24	3.4
67	7/4/2019 12:55	0.39	3.5	0.28	1.3
68	7/5/2019 12:50	0.01	0.08	0.01	0.9
69	7/15/2019 21:20	0.32	2.58	0.31	10.4
70	7/16/2019 20:20	1.26	16.42	0.4	0.9
71	7/20/2019 6:25	0.22	0.5	0.22	2.7
72	7/21/2019 21:05	0.42	13.25	0.23	1.6
73	7/30/2019 0:25	0.06	10.83	0.04	7.6
74	8/6/2019 12:30	1.39	17.08	0.49	7.1
75	8/12/2019 13:10	0.02	1.17	0.01	5.3
76	8/13/2019 6:05	0.03	1.33	0.02	0.7

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/15/2019 13:40	0.32	1.67	0.31	2.3
78	8/17/2019 14:40	0.11	0.25	0.11	2
79	8/18/2019 6:05	1.02	27.92	0.46	0.6
80	8/20/2019 19:45	0.02	0.5	0.02	1.4
81	8/22/2019 2:00	0.38	10.33	0.17	1.2
82	8/26/2019 23:00	0.01	0.08	0.01	4.4
83	8/27/2019 13:35	0.16	3.67	0.09	0.6
84	9/1/2019 7:30	0.2	12.33	0.11	4.6
85	9/2/2019 20:35	0.01	0.08	0.01	1
86	9/11/2019 14:00	0.65	16.5	0.3	8.7
87	9/12/2019 18:30	0.01	0.08	0.01	0.5
88	9/13/2019 20:20	1.22	2.17	1.18	1.1
89	9/16/2019 1:05	0.01	0.08	0.01	2.1
90	9/17/2019 8:40	0.01	0.08	0.01	1.3
91	9/23/2019 4:45	0.03	7.25	0.01	5.8
92	9/25/2019 18:45	0.02	0.67	0.02	2.3
93	9/28/2019 15:40	0.03	1.5	0.02	2.8
94	9/30/2019 3:55	0.02	0.92	0.02	1.4
95	10/2/2019 15:45	0.32	13.67	0.12	2.5
96	10/6/2019 13:10	0.1	15.5	0.04	3.3
97	10/12/2019 0:30	0.3	5.75	0.14	4.8
98	10/16/2019 5:45	1	21.92	0.21	4
99	10/21/2019 23:30	0.12	9	0.07	4.8
100	10/26/2019 12:50	0.71	14.92	0.18	4.2
101	10/30/2019 14:45	1.8	39.33	0.22	3.5
102	11/2/2019 19:20	0.01	0.08	0.01	1.6
103	11/5/2019 3:20	0.01	0.08	0.01	2.3
104	11/7/2019 4:10	0.37	9.25	0.14	2
105	11/11/2019 12:45	0.77	23.92	0.16	4
106	11/14/2019 3:40	0.01	0.08	0.01	1.6
107	11/19/2019 19:30	0.01	0.08	0.01	5.7
108	11/21/2019 23:15	0.03	1.58	0.02	2.2
109	11/23/2019 20:35	0.03	0.83	0.03	1.8
110	11/24/2019 12:35	0.01	0.08	0.01	0.6
111	11/27/2019 1:50	0.15	7.83	0.07	2.5
112	12/1/2019 5:15	0.59	42.08	0.2	3.8
113	12/4/2019 10:55	0.03	10.25	0.01	1.5
114	12/9/2019 9:00	0.43	12.42	0.09	4.5

Mary Street PS Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/14/2019 5:25	0.59	19.92	0.11	4.3
116	12/17/2019 3:50	0.05	6.08	0.02	2.1
117	12/18/2019 5:35	0.04	0.67	0.04	0.8
118	12/29/2019 7:55	0.52	31.92	0.1	11.1
119	12/31/2019 4:05	0.12	9.67	0.05	0.5

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:45	0.04	9.42	0.02	0.1
2	1/2/2019 21:35	0.04	3.25	0.03	1.4
3	1/7/2019 5:50	1.02	55.08	0.26	4.2
4	1/12/2019 19:50	0.07	4.83	0.03	3.3
5	1/16/2019 12:20	0.02	0.75	0.02	3.5
6	1/17/2019 10:30	0.01	0.08	0.01	0.9
7	1/18/2019 2:30	0.13	10.08	0.03	0.7
8	1/19/2019 11:55	0.46	13.75	0.09	1
9	1/23/2019 0:15	1.75	29.08	0.25	2.9
10	1/26/2019 1:30	0.03	2.83	0.01	1.8
11	1/26/2019 23:55	0.03	0.67	0.03	0.8
12	1/28/2019 18:15	0.24	6.08	0.07	1.7
13	1/29/2019 15:50	0.01	0.08	0.01	0.6
14	2/1/2019 8:00	0.01	0.08	0.01	2.7
15	2/4/2019 18:50	0.1	8.92	0.03	3.4
16	2/6/2019 5:00	0.24	12.75	0.07	1.1
17	2/7/2019 14:20	0.4	4.33	0.14	0.9
18	2/8/2019 10:15	0.01	0.08	0.01	0.6
19	2/10/2019 17:55	0.14	4.75	0.07	2.3
20	2/12/2019 1:00	1	24.42	0.2	1.1
21	2/15/2019 3:10	0.01	0.08	0.01	2.1
22	2/17/2019 14:50	0.12	18.92	0.08	2.5
23	2/20/2019 8:10	0.33	13.42	0.16	1.9
24	2/23/2019 17:45	0.09	20.67	0.04	2.8
25	2/26/2019 5:50	0.02	4.75	0.01	1.6
26	3/5/2019 21:55	0.02	6.17	0.01	7.5
27	3/6/2019 16:15	0.02	0.67	0.02	0.5
28	3/9/2019 19:15	0.76	11.5	0.18	3.1
29	3/14/2019 10:25	0.37	11	0.25	4.2
30	3/15/2019 14:45	0.06	8.92	0.03	0.7
31	3/20/2019 21:45	0.13	9.67	0.03	4.9
32	3/22/2019 8:05	0.11	8.58	0.08	1
33	3/29/2019 4:20	0.33	9.25	0.08	6.5
34	3/30/2019 2:55	1.48	32.25	0.23	0.6
35	4/5/2019 7:50	0.03	1.92	0.02	4.9
36	4/7/2019 19:55	0.12	7.5	0.07	2.4
37	4/12/2019 10:50	0.24	1.67	0.16	4.3
38	4/14/2019 5:40	0.75	28.42	0.21	1.7

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/17/2019 3:30	0.01	0.08	0.01	1.7
40	4/18/2019 0:05	0.01	0.08	0.01	0.9
41	4/19/2019 7:05	1.32	27.92	0.34	1.3
42	4/21/2019 6:55	0.02	1.17	0.01	0.8
43	4/23/2019 10:05	0.07	0.25	0.07	2.1
44	4/25/2019 18:35	0.96	24.58	0.15	2.3
45	4/27/2019 21:20	0.46	12.5	0.12	1.1
46	4/29/2019 15:55	0.46	7.08	0.2	1.3
47	4/30/2019 14:00	0.08	0.67	0.08	0.6
48	5/1/2019 17:40	0.87	13.08	0.22	1.1
49	5/3/2019 1:55	0.14	13	0.06	0.8
50	5/4/2019 9:30	0.03	8.17	0.02	0.8
51	5/9/2019 15:00	0.41	16.25	0.11	4.9
52	5/11/2019 23:30	0.34	5.25	0.13	1.7
53	5/12/2019 18:45	0.39	17.92	0.13	0.6
54	5/18/2019 7:40	0.13	1.75	0.12	4.8
55	5/18/2019 22:40	0.02	0.17	0.02	0.6
56	5/19/2019 18:10	0.17	2.17	0.08	0.8
57	5/23/2019 8:30	0.17	0.33	0.17	3.5
58	5/26/2019 9:20	0.27	9.75	0.15	3
59	5/27/2019 23:30	0.61	23.42	0.25	1.2
60	5/30/2019 8:20	0.67	9.75	0.39	1.4
61	5/31/2019 6:20	0.01	0.08	0.01	0.5
62	6/1/2019 21:30	0.35	6.17	0.15	1.6
63	6/5/2019 0:20	1.34	22.42	0.57	2.9
64	6/7/2019 3:35	0.01	0.08	0.01	1.2
65	6/10/2019 2:35	0.91	16.5	0.27	3
66	6/12/2019 23:45	1.77	27	0.41	2.2
67	6/15/2019 12:45	1.32	29	0.32	1.4
68	6/18/2019 0:55	0.02	1.08	0.01	1.3
69	6/20/2019 1:30	1.36	23.33	0.52	2
70	6/24/2019 17:50	1.71	8	0.98	3.7
71	6/28/2019 19:55	0.49	0.58	0.49	3.8
72	6/29/2019 11:20	0.04	1.83	0.02	0.6
73	7/2/2019 23:10	0.24	2.42	0.21	3.4
74	7/4/2019 12:55	0.48	3.25	0.37	1.5
75	7/5/2019 13:15	0.44	0.92	0.44	0.9
76	7/7/2019 4:45	0.04	0.25	0.04	1.6

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/11/2019 7:35	0.01	0.08	0.01	4.1
78	7/15/2019 21:55	0.03	0.17	0.03	4.6
79	7/16/2019 15:25	0.75	21.75	0.36	0.7
80	7/20/2019 1:05	0.49	6.75	0.32	2.5
81	7/20/2019 20:05	0.36	9.67	0.35	0.5
82	7/22/2019 0:30	0.28	18.08	0.15	0.8
83	7/28/2019 8:30	0.01	0.08	0.01	5.6
84	7/29/2019 19:00	1.22	16.17	0.96	1.4
85	7/31/2019 5:35	0.17	0.33	0.17	0.8
86	8/6/2019 12:30	1.33	13.5	0.32	6.3
87	8/13/2019 6:55	0.04	1	0.04	6.2
88	8/15/2019 15:30	0.11	0.42	0.11	2.3
89	8/17/2019 13:05	0.06	2.17	0.05	1.9
90	8/18/2019 6:20	0.96	22.83	0.57	0.6
91	8/22/2019 2:30	0.47	10.67	0.23	2.9
92	8/27/2019 0:25	0.01	0.08	0.01	4.5
93	8/27/2019 14:20	0.14	3.42	0.1	0.6
94	8/28/2019 9:00	0.01	0.08	0.01	0.6
95	9/1/2019 7:30	0.19	14.75	0.09	3.9
96	9/2/2019 10:20	0.01	0.08	0.01	0.5
97	9/11/2019 14:30	1.74	16.5	1.07	9.2
98	9/13/2019 20:40	1.7	4.25	1.34	1.6
99	9/16/2019 1:00	0.05	1	0.05	2
100	9/23/2019 4:55	0.1	7.17	0.07	7.1
101	9/28/2019 15:50	0.03	1.75	0.02	5.2
102	10/2/2019 15:55	0.66	15.08	0.19	3.9
103	10/4/2019 8:40	0.01	0.08	0.01	1.1
104	10/6/2019 21:30	0.16	7.33	0.07	2.5
105	10/8/2019 6:00	0.01	0.08	0.01	1
106	10/11/2019 23:15	0.49	8.42	0.13	3.7
107	10/16/2019 6:15	0.99	23.17	0.25	3.9
108	10/22/2019 0:15	0.17	9.58	0.05	4.8
109	10/26/2019 12:55	0.81	20.83	0.12	4.1
110	10/30/2019 15:15	1.58	40.33	0.2	3.2
111	11/2/2019 16:05	0.01	0.08	0.01	1.4
112	11/5/2019 3:00	0.03	1.08	0.02	2.5
113	11/7/2019 4:05	0.27	9.67	0.08	2
114	11/8/2019 6:55	0.01	0.08	0.01	0.7

Mayfield Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	11/10/2019 18:30	0.01	0.08	0.01	2.5
116	11/11/2019 13:00	0.93	36.33	0.14	0.8
117	11/13/2019 14:20	0.01	0.08	0.01	0.5
118	11/14/2019 3:20	0.07	8.67	0.03	0.5
119	11/19/2019 18:50	0.02	0.42	0.02	5.3
120	11/21/2019 23:05	0.14	5.75	0.09	2.2
121	11/27/2019 2:05	0.22	8.08	0.13	4.9
122	11/27/2019 22:25	0.02	4.42	0.01	0.5
123	11/28/2019 18:10	0.02	0.58	0.02	0.6
124	12/1/2019 5:30	1.1	43.17	0.3	2.4
125	12/3/2019 15:40	0.01	0.08	0.01	0.6
126	12/4/2019 10:50	0.15	11.17	0.04	0.8
127	12/6/2019 16:15	0.01	0.08	0.01	1.8
128	12/9/2019 6:30	0.62	17.83	0.11	2.6
129	12/14/2019 6:00	0.59	28.42	0.11	4.2
130	12/17/2019 1:20	0.1	9.83	0.02	1.6
131	12/18/2019 5:30	0.09	0.92	0.09	0.8
132	12/29/2019 5:50	0.77	57.5	0.15	11

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 1:05	0.05	2.83	0.02	0
2	1/2/2019 22:10	0.04	4.42	0.01	1.8
3	1/7/2019 5:20	1.25	73.92	0.3	4.1
4	1/12/2019 19:40	0.13	5.5	0.05	2.5
5	1/17/2019 14:30	0.01	4.75	0.01	4.6
6	1/19/2019 11:45	0.53	27.67	0.08	1.7
7	1/23/2019 2:35	1.42	26.75	0.2	2.5
8	1/24/2019 21:25	0.02	2.33	0.02	0.7
9	1/26/2019 23:25	0.05	3.5	0.04	2
10	1/28/2019 19:00	0.18	5.33	0.06	1.7
11	1/29/2019 15:40	0.01	0.33	0.01	0.6
12	2/4/2019 16:55	0.05	5.83	0.03	6
13	2/6/2019 2:45	0.3	10.25	0.09	1.2
14	2/7/2019 14:10	0.46	8.83	0.11	1
15	2/8/2019 11:00	0.01	10.75	0.01	0.5
16	2/10/2019 18:15	0.08	1.42	0.07	1.9
17	2/12/2019 3:15	0.88	27.67	0.16	1.3
18	2/15/2019 0:15	0.05	3.25	0.04	1.7
19	2/17/2019 13:30	0.1	3.58	0.08	2.4
20	2/20/2019 6:45	0.29	13.67	0.14	2.6
21	2/24/2019 1:55	0.05	12.5	0.04	3.2
22	3/3/2019 14:15	0.01	0.5	0.01	7
23	3/6/2019 2:00	0.03	9.67	0.02	2.5
24	3/9/2019 18:55	0.83	11.83	0.24	3.3
25	3/14/2019 9:45	0.36	14.67	0.27	4.1
26	3/15/2019 14:20	0.02	32.17	0.01	0.6
27	3/20/2019 21:30	0.12	7.42	0.04	4
28	3/22/2019 8:00	0.08	9.33	0.05	1.1
29	3/24/2019 20:45	0.06	7.08	0.04	2.1
30	3/28/2019 11:25	0.34	25.17	0.11	3.3
31	3/30/2019 2:40	1.25	40.25	0.3	0.6
32	4/4/2019 20:50	0.05	24.25	0.02	4.1
33	4/7/2019 17:55	0.06	9.67	0.05	1.9
34	4/10/2019 22:50	0.01	2.58	0.01	2.8
35	4/12/2019 10:35	0.18	1.92	0.1	1.4
36	4/14/2019 4:50	0.73	27.25	0.26	1.7
37	4/17/2019 23:35	0.06	11.25	0.03	2.6
38	4/19/2019 9:00	0.92	25.33	0.25	0.9
39	4/23/2019 10:05	0.08	0.42	0.08	3

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
40	4/25/2019 18:00	1.36	25.33	0.58	2.3
41	4/27/2019 21:05	0.36	10.58	0.09	1.1
42	4/29/2019 15:30	0.44	5.33	0.19	1.3
43	4/30/2019 13:45	0.09	1	0.09	0.7
44	5/1/2019 17:40	0.85	13.42	0.22	1.1
45	5/2/2019 21:45	0.12	16.83	0.06	0.6
46	5/4/2019 9:05	0.04	9.75	0.02	0.8
47	5/9/2019 14:10	0.58	14.17	0.15	4.8
48	5/11/2019 22:25	0.26	6.5	0.11	1.8
49	5/12/2019 18:45	0.19	18.08	0.09	0.6
50	5/15/2019 21:35	0.01	1.42	0.01	2.4
51	5/17/2019 22:30	0.27	24.25	0.18	2
52	5/19/2019 18:00	0.06	2	0.03	0.8
53	5/23/2019 8:30	0.13	0.75	0.13	3.5
54	5/26/2019 8:55	0.4	10.42	0.14	3
55	5/27/2019 21:40	1.33	24.92	0.69	1.1
56	5/30/2019 7:45	1.15	10.33	0.96	1.4
57	6/1/2019 21:15	0.44	6.25	0.15	2.1
58	6/4/2019 21:50	1.21	25.25	0.42	2.8
59	6/10/2019 2:05	0.86	17.33	0.23	4.1
60	6/12/2019 23:35	1.46	26.75	0.25	2.2
61	6/15/2019 15:00	1.89	26.58	0.61	1.5
62	6/18/2019 0:45	0.04	1.08	0.03	1.3
63	6/20/2019 1:00	1.33	26.08	0.52	2
64	6/24/2019 17:25	1.07	8.42	0.43	3.6
65	6/28/2019 19:50	0.16	17.67	0.08	3.8
66	7/2/2019 23:00	0.3	6.75	0.24	3.4
67	7/4/2019 14:15	0.79	1.92	0.74	1.4
68	7/5/2019 13:30	0.44	13.08	0.41	0.9
69	7/16/2019 20:35	1.86	18.25	0.66	10.8
70	7/20/2019 1:05	0.17	5.92	0.13	2.4
71	7/20/2019 20:05	0.66	9.42	0.64	0.5
72	7/21/2019 21:15	0.62	13.75	0.31	0.7
73	7/23/2019 22:10	0.03	0.5	0.03	1.5
74	7/30/2019 0:50	0.51	6.08	0.34	6.1
75	7/31/2019 6:45	0.01	0.08	0.01	1
76	8/6/2019 13:40	1.48	12	0.47	6.3
77	8/7/2019 13:45	0.07	0.83	0.07	0.5
78	8/12/2019 14:35	0.02	0.08	0.02	5

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
79	8/13/2019 5:45	0.09	2.25	0.06	0.6
80	8/15/2019 14:00	0.09	1.58	0.06	2.3
81	8/17/2019 15:00	0.01	0.08	0.01	2
82	8/18/2019 6:25	0.49	20.75	0.29	0.6
83	8/22/2019 2:40	0.45	10.33	0.22	3
84	8/27/2019 14:15	0.12	2.75	0.1	5.1
85	8/31/2019 8:50	0.01	0.08	0.01	3.7
86	9/1/2019 16:40	0.12	5.42	0.07	1.3
87	9/2/2019 10:10	0.05	0.58	0.05	0.5
88	9/11/2019 14:45	0.28	16.25	0.11	9.2
89	9/13/2019 20:50	2.15	15.75	1.67	1.6
90	9/16/2019 0:35	0.03	1.08	0.02	1.5
91	9/21/2019 19:15	0.08	0.92	0.08	5.7
92	9/22/2019 8:20	0.01	0.08	0.01	0.5
93	9/23/2019 5:05	0.06	6.92	0.04	0.9
94	9/28/2019 4:15	0.06	11.83	0.03	4.7
95	9/29/2019 14:55	0.01	0.08	0.01	1
96	9/30/2019 4:15	0.02	1.25	0.01	0.6
97	10/2/2019 16:00	0.18	4.42	0.07	2.4
98	10/4/2019 9:25	0.01	0.08	0.01	1.5
99	10/6/2019 7:40	0.04	0.25	0.04	1.9
100	10/6/2019 21:45	0.1	7.25	0.04	0.6
101	10/11/2019 23:30	0.32	7.67	0.1	4.8
102	10/16/2019 6:35	1.13	21.67	0.24	4
103	10/22/2019 0:20	0.17	9.17	0.07	4.8
104	10/26/2019 13:10	0.96	14.58	0.27	4.2
105	10/30/2019 15:15	1.7	42.08	0.21	3.5
106	11/2/2019 15:25	0.03	4.92	0.02	1.3
107	11/5/2019 3:15	0.04	1.67	0.03	2.3
108	11/7/2019 3:55	0.22	10.17	0.06	2
109	11/8/2019 9:45	0.01	0.08	0.01	0.8
110	11/11/2019 13:15	0.81	29.33	0.12	3.1
111	11/13/2019 12:55	0.01	0.08	0.01	0.8
112	11/14/2019 9:25	0.2	4.5	0.08	0.9
113	11/21/2019 14:55	0.11	13.83	0.03	7
114	11/23/2019 20:50	0.05	2.58	0.03	1.7
115	11/27/2019 2:15	0.14	7.67	0.09	3.1
116	11/27/2019 22:25	0.03	5.67	0.02	0.5
117	12/1/2019 5:25	0.91	12.75	0.29	3.1

Moreland Hills Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
118	12/2/2019 7:15	0.21	22.25	0.05	0.5
119	12/4/2019 11:40	0.24	14.5	0.05	1.3
120	12/9/2019 6:30	0.63	14.83	0.1	4.2
121	12/14/2019 4:50	0.45	21.33	0.09	4.3
122	12/17/2019 0:50	0.09	8.67	0.02	1.9
123	12/18/2019 5:50	0.06	2.75	0.04	0.8
124	12/29/2019 5:50	0.94	58.42	0.14	10.9

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/2/2019 20:50	0.05	0.83	0.05	1.9
2	1/7/2019 4:55	0.01	0.08	0.01	4.3
3	1/7/2019 19:10	0.01	0.08	0.01	0.6
4	1/8/2019 8:25	0.68	29.42	0.25	0.5
5	1/12/2019 18:30	0.12	5.92	0.04	3.2
6	1/17/2019 18:30	0.04	3.08	0.02	4.8
7	1/19/2019 11:55	1.02	15.58	0.11	1.6
8	1/23/2019 2:45	1.24	24.92	0.22	3
9	1/25/2019 3:00	0.01	0.08	0.01	1
10	1/26/2019 23:30	0.03	2.83	0.02	1.9
11	1/28/2019 16:55	0.1	5.75	0.03	1.6
12	2/1/2019 7:10	0.01	0.08	0.01	3.4
13	2/4/2019 18:00	0.1	9.33	0.04	3.4
14	2/6/2019 5:35	0.29	8	0.1	1.1
15	2/7/2019 13:55	0.42	4.17	0.17	1
16	2/10/2019 17:55	0.12	2.17	0.07	3
17	2/11/2019 22:50	0.81	20.33	0.15	1.1
18	2/17/2019 14:30	0.1	18.75	0.07	4.8
19	2/20/2019 7:15	0.34	13.17	0.15	1.9
20	2/23/2019 16:55	0.13	17	0.04	2.9
21	3/6/2019 4:20	0.01	0.08	0.01	9.8
22	3/9/2019 18:40	0.66	11.42	0.17	3.6
23	3/14/2019 9:15	0.41	11.67	0.24	4.1
24	3/20/2019 21:15	0.15	9.33	0.04	6
25	3/22/2019 8:10	0.07	4.92	0.03	1.1
26	3/24/2019 20:45	0.03	6.25	0.01	2.3
27	3/28/2019 11:00	0.38	25.5	0.1	3.3
28	3/30/2019 4:20	1.3	25.92	0.22	0.7
29	4/5/2019 7:55	0.01	0.08	0.01	5.1
30	4/7/2019 16:55	0.11	10.17	0.1	2.4
31	4/12/2019 10:25	0.08	2	0.05	4.3
32	4/14/2019 4:55	0.98	25.67	0.43	1.7
33	4/17/2019 23:15	0.04	11	0.02	2.7
34	4/19/2019 2:55	1.97	31.58	0.47	0.7
35	4/20/2019 23:50	0.03	5.75	0.01	0.6
36	4/23/2019 9:45	0.04	0.17	0.04	2.2
37	4/25/2019 4:30	0.77	34.67	0.32	1.8
38	4/27/2019 3:55	0.01	0.08	0.01	0.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/27/2019 21:05	0.57	10.67	0.14	0.7
40	4/29/2019 15:25	0.48	5.25	0.2	1.3
41	4/30/2019 13:20	0.15	4.42	0.14	0.7
42	5/1/2019 18:40	0.57	13.75	0.15	1
43	5/3/2019 6:00	0.06	8.33	0.02	0.9
44	5/4/2019 6:50	0.02	11	0.01	0.7
45	5/9/2019 14:05	0.34	15.17	0.16	4.8
46	5/11/2019 22:15	0.37	7.42	0.11	1.7
47	5/12/2019 17:50	0.29	26.83	0.09	0.5
48	5/18/2019 5:40	0.08	2.25	0.06	4.4
49	5/19/2019 17:55	0.09	6	0.06	1.4
50	5/22/2019 14:40	0.01	0.08	0.01	2.6
51	5/23/2019 8:05	0.06	0.25	0.06	0.7
52	5/26/2019 8:40	0.23	10.67	0.08	3
53	5/27/2019 21:10	0.24	4.67	0.1	1.1
54	5/28/2019 14:00	1.61	12.67	1.26	0.5
55	5/30/2019 15:00	0.49	2.42	0.45	1.5
56	6/1/2019 18:20	0.83	8.83	0.28	2
57	6/4/2019 21:40	0.86	34.33	0.47	2.8
58	6/9/2019 8:30	0.01	0.08	0.01	3
59	6/10/2019 0:20	0.77	17.5	0.31	0.7
60	6/12/2019 23:05	0.26	2.83	0.15	2.2
61	6/13/2019 14:10	0.81	11.25	0.26	0.5
62	6/15/2019 12:15	1.22	29.08	0.32	1.5
63	6/18/2019 0:15	0.02	1.92	0.01	1.3
64	6/20/2019 1:50	2.12	23	0.7	2
65	6/24/2019 19:45	0.34	1.67	0.25	3.8
66	6/28/2019 19:00	0.35	6.58	0.25	3.9
67	7/2/2019 17:05	0.21	11	0.11	3.6
68	7/15/2019 20:55	0.37	1	0.37	12.7
69	7/16/2019 19:55	1.25	17.33	0.39	0.9
70	7/20/2019 5:15	0.15	1.67	0.09	2.7
71	7/21/2019 4:30	0.34	0.42	0.34	0.9
72	7/21/2019 20:20	0.74	14.33	0.3	0.6
73	7/24/2019 2:45	0.05	3.92	0.03	1.7
74	7/30/2019 0:05	0.06	1.92	0.03	5.7
75	8/6/2019 13:05	0.77	21.83	0.42	7.5
76	8/12/2019 22:45	0.26	7.83	0.18	5.5

North Olmsted Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/15/2019 14:05	0.08	3.25	0.06	2.3
78	8/17/2019 14:05	0.22	1.83	0.21	1.9
79	8/18/2019 5:45	0.87	20.5	0.47	0.6
80	8/20/2019 19:15	0.08	1.17	0.08	1.7
81	8/22/2019 1:25	0.57	10.75	0.32	1.2
82	8/26/2019 18:15	0.2	22.5	0.14	4.3
83	9/1/2019 7:00	0.33	14.5	0.13	4.6
84	9/2/2019 20:35	0.04	0.83	0.04	1
85	9/11/2019 16:20	0.18	17.83	0.11	8.8
86	9/13/2019 19:55	0.59	3.92	0.53	1.4
87	9/23/2019 4:00	0.04	4.58	0.02	9.2
88	9/28/2019 3:40	0.04	12.75	0.02	4.8
89	9/30/2019 3:40	0.09	1	0.09	1.5
90	10/2/2019 15:10	0.15	13.92	0.08	2.4
91	10/6/2019 6:15	0.07	22.5	0.02	3
92	10/11/2019 19:35	0.31	10.5	0.15	4.6
93	10/16/2019 5:20	0.54	19.25	0.19	4
94	10/21/2019 22:35	0.08	9.58	0.05	4.9
95	10/26/2019 12:15	1.08	15	0.25	4.2
96	10/30/2019 14:20	1.41	38	0.22	3.5
97	11/2/2019 13:45	0.05	10.25	0.03	1.4
98	11/7/2019 4:00	0.16	21.17	0.06	4.2
99	11/11/2019 12:15	1.08	21.58	0.14	3.5
100	11/21/2019 14:20	0.04	13.92	0.02	9.2
101	11/23/2019 19:50	0.08	4.33	0.07	1.6
102	11/26/2019 20:50	0.27	12.83	0.08	2.9
103	11/28/2019 16:35	0.03	2.25	0.01	1.3
104	12/1/2019 4:55	0.62	42.83	0.14	2.4
105	12/4/2019 9:55	0.17	14.08	0.04	1.4
106	12/9/2019 6:05	0.4	15.08	0.09	4.3
107	12/14/2019 2:20	0.64	8.83	0.12	4.2
108	12/17/2019 0:45	0.14	9.75	0.03	2.6
109	12/18/2019 5:40	0.05	4.08	0.04	0.8
110	12/29/2019 7:50	0.62	31.42	0.15	10.9
111	12/31/2019 7:50	0.08	5.5	0.02	0.7

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:45	0.04	1.42	0.02	0.1
2	1/2/2019 22:20	0.01	0.08	0.01	1.8
3	1/7/2019 17:35	0.94	41.58	0.38	4.8
4	1/12/2019 15:50	0.13	11.17	0.04	3.2
5	1/17/2019 18:45	0.04	8.25	0.01	4.7
6	1/19/2019 11:35	0.42	16.25	0.05	1.4
7	1/23/2019 2:55	1.46	26.58	0.23	3
8	1/26/2019 23:40	0.03	3.25	0.02	2.8
9	1/28/2019 17:40	0.16	5.75	0.05	1.6
10	2/1/2019 6:55	0.01	0.08	0.01	3.3
11	2/4/2019 18:10	0.09	9.5	0.03	3.5
12	2/6/2019 2:35	0.37	18.33	0.09	1
13	2/7/2019 14:05	0.47	8.42	0.14	0.7
14	2/10/2019 17:40	0.13	3.25	0.06	2.8
15	2/11/2019 23:05	0.89	20.25	0.19	1.1
16	2/15/2019 2:55	0.01	0.08	0.01	2.3
17	2/16/2019 13:05	0.01	0.08	0.01	1.4
18	2/17/2019 14:20	0.11	19.33	0.05	1
19	2/20/2019 6:45	0.46	13.5	0.17	1.9
20	2/23/2019 16:45	0.1	18.17	0.05	2.9
21	3/9/2019 18:45	0.89	11.75	0.21	13.3
22	3/14/2019 9:35	0.36	11.58	0.29	4.1
23	3/15/2019 14:35	0.02	2.83	0.01	0.7
24	3/20/2019 21:05	0.16	11.5	0.05	5.2
25	3/22/2019 8:30	0.12	11.08	0.05	1
26	3/24/2019 20:05	0.06	7.42	0.02	2
27	3/28/2019 20:50	2.04	61.33	0.24	3.7
28	4/5/2019 7:15	0.03	1.42	0.02	4.9
29	4/7/2019 17:40	0.18	9.58	0.15	2.4
30	4/12/2019 10:20	0.23	1.92	0.12	4.3
31	4/14/2019 5:40	0.61	26.25	0.15	1.7
32	4/18/2019 10:05	0.03	0.92	0.03	3.1
33	4/19/2019 4:25	1.55	28.67	0.29	0.7
34	4/21/2019 1:35	0.02	5.25	0.01	0.7
35	4/23/2019 10:10	0.01	0.08	0.01	2.1
36	4/25/2019 4:10	0.01	0.08	0.01	1.7
37	4/25/2019 17:55	0.82	21.92	0.23	0.6
38	4/27/2019 21:30	0.45	9.92	0.12	1.2

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/29/2019 15:40	0.28	7.08	0.14	1.3
40	4/30/2019 13:35	0.13	0.67	0.13	0.6
41	5/1/2019 19:20	0.75	11.58	0.19	1.2
42	5/3/2019 7:40	0.12	7.25	0.04	1
43	5/4/2019 8:45	0.04	10.92	0.02	0.7
44	5/9/2019 14:35	0.48	15.42	0.12	4.8
45	5/11/2019 23:00	0.33	5.67	0.16	1.7
46	5/12/2019 18:15	0.34	27.17	0.1	0.6
47	5/18/2019 5:00	0.34	3.25	0.26	4.3
48	5/18/2019 21:40	0.36	0.42	0.36	0.6
49	5/19/2019 18:05	0.08	1.92	0.05	0.8
50	5/23/2019 8:30	0.01	0.08	0.01	3.5
51	5/26/2019 9:15	0.07	7.83	0.05	3
52	5/27/2019 6:15	0.01	0.08	0.01	0.5
53	5/28/2019 0:30	0.12	1.67	0.08	0.8
54	5/28/2019 14:40	0.32	11.67	0.21	0.5
55	5/30/2019 7:45	0.55	12.08	0.26	1.2
56	6/1/2019 20:55	0.69	6.5	0.23	2
57	6/4/2019 22:40	1.31	25.25	0.68	2.8
58	6/7/2019 6:40	0.01	0.08	0.01	1.3
59	6/10/2019 11:15	0.5	7.67	0.21	3.2
60	6/12/2019 21:35	1.1	28.33	0.2	2.1
61	6/15/2019 15:00	0.82	24.17	0.24	1.5
62	6/18/2019 0:35	0.02	0.75	0.02	1.4
63	6/20/2019 0:35	1.91	24.5	0.5	2
64	6/24/2019 17:10	0.92	12.08	0.42	3.7
65	6/28/2019 15:45	0.16	9.5	0.09	3.4
66	7/2/2019 23:05	0.14	17.08	0.07	3.9
67	7/5/2019 13:50	2.3	2.08	1.72	1.9
68	7/6/2019 14:35	0.23	10.92	0.22	0.9
69	7/11/2019 12:25	0.02	2.17	0.01	4.5
70	7/16/2019 20:10	1.67	16.58	0.97	5.2
71	7/20/2019 5:45	0.07	1.58	0.05	2.7
72	7/21/2019 5:00	0.13	0.25	0.13	0.9
73	7/21/2019 20:40	0.75	13.75	0.34	0.6
74	7/24/2019 6:35	0.1	3.58	0.09	1.8
75	7/30/2019 0:25	0.33	14.25	0.24	5.6
76	8/6/2019 13:30	1.02	7.92	0.43	7

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/7/2019 9:30	0.02	0.33	0.02	0.5
78	8/12/2019 13:50	0.02	0.25	0.02	5.2
79	8/13/2019 4:50	0.42	11	0.22	0.6
80	8/15/2019 14:45	0.58	3.08	0.3	2
81	8/16/2019 5:50	0.01	0.08	0.01	0.5
82	8/17/2019 15:35	0.02	0.33	0.02	1.4
83	8/18/2019 6:05	1.31	24.92	0.47	0.6
84	8/22/2019 2:30	0.45	10.33	0.39	2.8
85	8/26/2019 18:50	0.02	4.08	0.01	4.3
86	8/27/2019 13:55	0.27	2.92	0.2	0.6
87	8/28/2019 9:15	0.01	0.08	0.01	0.7
88	8/30/2019 12:35	0.01	0.08	0.01	2.1
89	9/1/2019 16:40	0.5	18.83	0.13	2.2
90	9/11/2019 18:55	0.11	13	0.08	9.3
91	9/13/2019 20:55	1.09	3.67	0.94	1.5
92	9/23/2019 4:55	0.03	4.5	0.02	9.2
93	10/2/2019 15:40	0.14	1.92	0.12	9.3
94	10/4/2019 9:40	0.02	0.67	0.02	1.7
95	10/6/2019 21:55	0.1	5.5	0.04	2.5
96	10/11/2019 22:40	0.3	7.58	0.1	4.8
97	10/16/2019 6:00	0.61	18.25	0.22	4
98	10/21/2019 23:45	0.09	8.5	0.05	5
99	10/26/2019 13:00	0.69	14.58	0.16	4.2
100	10/30/2019 14:50	1.31	37.5	0.23	3.5
101	11/2/2019 15:15	0.02	4.58	0.01	1.5
102	11/5/2019 3:50	0.01	0.08	0.01	2.3
103	11/7/2019 4:00	0.23	9.58	0.06	2
104	11/11/2019 13:55	0.62	21.58	0.09	4
105	11/14/2019 2:35	0.05	1.75	0.04	1.6
106	11/21/2019 18:50	0.06	9.75	0.03	7.6
107	11/23/2019 19:15	0.05	1.75	0.04	1.6
108	11/27/2019 1:40	0.19	8.17	0.07	3.2
109	11/28/2019 18:30	0.01	0.08	0.01	1.4
110	12/1/2019 5:05	0.76	44	0.2	2.4
111	12/3/2019 17:55	0.01	0.08	0.01	0.7
112	12/4/2019 18:30	0.17	5.92	0.05	1
113	12/9/2019 5:55	0.64	15.75	0.11	4.2
114	12/14/2019 5:15	0.5	20.83	0.1	4.3

North Royalton Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2019 1:30	0.08	9	0.02	2
116	12/18/2019 6:25	0.05	4.33	0.02	0.8
117	12/29/2019 7:55	0.93	52.33	0.11	10.9

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 1:15	0.04	3.42	0.02	0.1
2	1/2/2019 22:35	0.01	0.08	0.01	1.7
3	1/7/2019 6:10	0.91	75.42	0.3	4.3
4	1/12/2019 19:00	0.12	6.25	0.04	2.4
5	1/16/2019 5:15	0.01	0.08	0.01	3.2
6	1/17/2019 19:50	0.03	7.42	0.01	1.6
7	1/19/2019 12:10	0.42	14.75	0.06	1.4
8	1/20/2019 22:15	0.02	3.42	0.01	0.8
9	1/23/2019 3:05	1.59	26.83	0.22	2.1
10	1/26/2019 23:40	0.04	4.67	0.02	2.7
11	1/28/2019 18:35	0.17	5.58	0.05	1.6
12	2/1/2019 7:05	0.01	0.08	0.01	3.3
13	2/4/2019 21:45	0.06	8.5	0.02	3.6
14	2/6/2019 6:35	0.27	7.08	0.1	1
15	2/7/2019 3:35	0.42	19.17	0.13	0.6
16	2/10/2019 17:45	0.12	11	0.05	2.8
17	2/11/2019 23:30	0.9	20.25	0.23	0.8
18	2/17/2019 13:40	0.12	19.67	0.05	4.7
19	2/20/2019 7:05	0.31	13.58	0.16	1.9
20	2/23/2019 17:05	0.08	9.33	0.05	2.9
21	3/3/2019 15:35	0.01	0.08	0.01	7.5
22	3/5/2019 15:40	0.01	0.08	0.01	2
23	3/6/2019 4:35	0.03	1.17	0.02	0.5
24	3/9/2019 19:00	0.96	12	0.2	3.6
25	3/14/2019 18:40	0.24	3.08	0.17	4.5
26	3/15/2019 13:20	0.05	11.5	0.02	0.6
27	3/21/2019 1:50	0.08	3	0.03	5
28	3/22/2019 8:15	0.08	2.75	0.05	1.1
29	3/24/2019 20:40	0.06	7	0.03	2.4
30	3/28/2019 21:50	0.29	15.25	0.08	3.8
31	3/30/2019 4:35	1.53	29.75	0.3	0.6
32	4/5/2019 7:20	0.04	1.58	0.02	4.9
33	4/7/2019 18:15	0.15	9.25	0.14	2.4
34	4/12/2019 10:50	0.16	1.75	0.09	4.3
35	4/14/2019 7:00	0.8	24.67	0.35	1.8
36	4/18/2019 1:35	0.01	0.08	0.01	2.7
37	4/19/2019 9:05	1.17	24.42	0.28	1.3
38	4/21/2019 7:10	0.03	1	0.03	0.9

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/23/2019 10:20	0.01	0.08	0.01	2.1
40	4/25/2019 18:10	0.74	25	0.14	2.3
41	4/27/2019 21:25	0.4	10.17	0.1	1.1
42	4/29/2019 16:00	0.48	22.5	0.24	1.4
43	5/1/2019 17:45	0.7	12.5	0.12	1.1
44	5/2/2019 23:10	0.08	15.33	0.03	0.7
45	5/4/2019 9:40	0.04	9.5	0.02	0.8
46	5/9/2019 15:25	0.48	18.17	0.15	4.8
47	5/11/2019 23:05	0.3	5.5	0.12	1.6
48	5/12/2019 18:35	0.28	16.58	0.09	0.6
49	5/16/2019 0:40	0.01	0.08	0.01	2.6
50	5/17/2019 23:50	0.1	9.08	0.07	2
51	5/18/2019 22:15	0.21	1.08	0.2	0.6
52	5/19/2019 18:55	0.05	1.25	0.04	0.8
53	5/23/2019 8:35	0.05	0.5	0.05	3.5
54	5/26/2019 9:25	0.21	21.67	0.08	3
55	5/28/2019 0:50	1.84	26.25	0.76	0.7
56	5/30/2019 7:40	0.54	10.33	0.36	1.2
57	6/1/2019 16:05	0.64	11.5	0.18	1.9
58	6/2/2019 22:55	0.01	0.08	0.01	0.8
59	6/4/2019 22:10	2.42	26.92	0.96	2
60	6/10/2019 2:15	0.8	16.67	0.36	4
61	6/12/2019 23:35	1.56	26.58	0.39	2.2
62	6/15/2019 15:20	1.35	24.17	0.51	1.5
63	6/18/2019 0:35	0.04	1.17	0.03	1.4
64	6/20/2019 0:50	1.65	27.58	0.71	2
65	6/24/2019 17:15	0.75	8	0.41	3.5
66	6/28/2019 19:50	0.09	6.25	0.08	3.8
67	7/2/2019 22:45	0.46	7.08	0.41	3.9
68	7/5/2019 14:40	0.33	12.67	0.25	2.4
69	7/7/2019 11:25	0.05	1.75	0.04	1.3
70	7/11/2019 12:30	0.51	2.58	0.34	4
71	7/16/2019 20:25	1.28	17.25	0.88	5.2
72	7/20/2019 6:20	0.05	0.58	0.05	2.7
73	7/21/2019 5:25	0.22	0.33	0.22	0.9
74	7/21/2019 21:05	1.01	14	0.56	0.6
75	7/30/2019 0:40	0.27	6.42	0.14	7.6
76	8/6/2019 13:40	1.48	25.08	0.43	7.3

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/12/2019 14:00	0.03	0.5	0.03	5
78	8/13/2019 5:15	0.28	12.5	0.15	0.6
79	8/15/2019 15:10	0.09	3.17	0.08	1.9
80	8/17/2019 15:05	0.58	1.58	0.39	1.9
81	8/18/2019 6:25	0.74	20.17	0.28	0.6
82	8/20/2019 20:20	0.02	1.33	0.01	1.7
83	8/22/2019 2:40	0.24	8.17	0.13	1.2
84	8/27/2019 15:05	0.16	1.75	0.15	5.2
85	9/1/2019 16:25	0.3	20	0.09	5
86	9/11/2019 16:15	0.13	14.75	0.05	9.2
87	9/13/2019 21:30	0.87	4.33	0.71	1.6
88	9/16/2019	0.05	1.5	0.04	1.9
89	9/23/2019 5:10	0.02	4.58	0.01	7.2
90	9/28/2019 4:10	0.03	12	0.02	4.8
91	9/30/2019 4:40	0.01	0.08	0.01	1.5
92	10/2/2019 15:55	0.15	3.75	0.1	2.5
93	10/6/2019 21:40	0.08	3.58	0.04	4.1
94	10/8/2019 5:40	0.01	0.08	0.01	1.2
95	10/11/2019 23:30	0.19	7	0.08	3.7
96	10/16/2019 6:40	1	21.75	0.26	4
97	10/22/2019 0:20	0.14	9.08	0.06	4.8
98	10/26/2019 13:25	0.82	14.25	0.22	4.2
99	10/30/2019 15:05	1.11	34.75	0.21	3.5
100	11/2/2019 19:40	0.02	1.08	0.01	1.7
101	11/5/2019 4:20	0.02	4.83	0.01	2.3
102	11/7/2019 3:25	0.12	10.08	0.03	1.8
103	11/11/2019 14:10	0.67	23.75	0.09	4
104	11/14/2019 2:55	0.06	9.67	0.03	1.5
105	11/22/2019 0:10	0.05	4.58	0.03	7.5
106	11/23/2019 20:25	0.08	1.25	0.06	1.7
107	11/27/2019 2:00	0.17	8.25	0.09	3.2
108	12/1/2019 4:55	0.78	11.33	0.3	3.8
109	12/2/2019 7:20	0.07	3.42	0.03	0.6
110	12/2/2019 23:00	0.08	6	0.03	0.5
111	12/4/2019 12:35	0.19	14.33	0.05	1.3
112	12/9/2019 6:20	0.63	15.08	0.11	4.1
113	12/14/2019 5:40	0.37	20.5	0.08	4.3
114	12/17/2019 2:15	0.05	7.17	0.02	2

Oakwood Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/18/2019 7:20	0.03	3.58	0.01	0.9
116	12/29/2019 7:55	0.79	55.25	0.13	10.9

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/2/2019 21:05	0.03	0.33	0.03	1.9
2	1/7/2019 18:50	0.67	35.67	0.26	4.9
3	1/12/2019 17:25	0.12	6.42	0.04	3.5
4	1/17/2019 17:55	0.06	5.92	0.02	4.8
5	1/19/2019 11:55	0.65	14.33	0.08	1.5
6	1/23/2019 2:25	1.55	25.42	0.28	3
7	1/26/2019 23:15	0.04	3.42	0.02	2.8
8	1/28/2019 17:15	0.11	5.75	0.03	1.6
9	2/1/2019 7:20	0.01	0.08	0.01	3.3
10	2/4/2019 13:35	0.13	9.5	0.05	3.3
11	2/6/2019 4:20	0.33	10.42	0.09	1.2
12	2/7/2019 14:00	0.45	7.83	0.17	1
13	2/10/2019 17:55	0.13	2.75	0.07	2.8
14	2/11/2019 22:50	0.91	20.42	0.18	1.1
15	2/15/2019 2:40	0.01	0.08	0.01	2.3
16	2/17/2019 14:30	0.1	19.17	0.06	2.5
17	2/20/2019 6:55	0.44	13.42	0.19	1.9
18	2/23/2019 16:45	0.09	17.17	0.04	2.9
19	3/9/2019 18:40	0.74	11.67	0.19	13.4
20	3/14/2019 9:15	0.63	11.83	0.38	4.1
21	3/15/2019 17:05	0.01	0.08	0.01	0.8
22	3/20/2019 22:25	0.13	8.17	0.06	5.2
23	3/22/2019 8:20	0.08	10.67	0.03	1.1
24	3/24/2019 20:15	0.01	0.08	0.01	2.1
25	3/29/2019 4:05	0.38	8.08	0.12	4.3
26	3/30/2019 2:35	1.28	29.75	0.24	0.6
27	4/7/2019 16:50	0.07	10.33	0.04	7.4
28	4/12/2019 10:10	0.09	1.92	0.06	4.3
29	4/14/2019 5:20	1.07	25.25	0.48	1.7
30	4/17/2019 23:15	0.03	10.58	0.01	2.7
31	4/19/2019 3:00	1.59	30.25	0.37	0.7
32	4/23/2019 9:45	0.03	0.17	0.03	3
33	4/25/2019 4:05	0.02	0.17	0.02	1.8
34	4/25/2019 18:30	0.93	20.83	0.43	0.6
35	4/27/2019 21:10	0.47	10.58	0.13	1.2
36	4/29/2019 15:25	0.54	5.33	0.25	1.3

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
37	4/30/2019 13:25	0.14	0.67	0.14	0.7
38	5/1/2019 18:50	0.68	12	0.19	1.2
39	5/3/2019 1:10	0.23	13.25	0.13	0.8
40	5/4/2019 16:40	0.01	0.08	0.01	1.1
41	5/9/2019 14:00	0.42	15.42	0.16	4.9
42	5/11/2019 22:35	0.28	6.58	0.12	1.7
43	5/12/2019 18:15	0.25	21.83	0.09	0.5
44	5/15/2019 22:30	0.01	0.08	0.01	2.3
45	5/18/2019 4:50	0.38	3.17	0.31	2.3
46	5/19/2019 17:55	0.09	1.83	0.06	1.4
47	5/23/2019 8:05	0.18	0.33	0.18	3.5
48	5/26/2019 8:55	0.17	10.5	0.05	3
49	5/27/2019 21:15	1.43	38.67	1.04	1.1
50	5/30/2019 7:40	0.52	9.83	0.41	0.8
51	6/1/2019 18:20	0.8	15.92	0.24	2
52	6/4/2019 21:45	2.77	34.92	1.1	2.5
53	6/9/2019 8:30	0.02	0.17	0.02	3
54	6/10/2019 0:15	0.63	17.25	0.24	0.6
55	6/12/2019 22:05	1.12	26.5	0.2	2.2
56	6/15/2019 10:40	1.44	28.08	0.56	1.4
57	6/18/2019 0:20	0.02	0.83	0.02	1.4
58	6/20/2019 1:20	1.7	23.58	0.47	2
59	6/24/2019 19:45	0.67	8.75	0.51	3.8
60	6/28/2019 18:30	0.68	16.5	0.32	3.6
61	7/2/2019 17:10	0.37	7.83	0.32	3.3
62	7/5/2019 14:25	0.39	10.5	0.3	2.6
63	7/6/2019 18:00	0.01	0.08	0.01	0.7
64	7/15/2019 20:55	0.03	0.58	0.03	9.1
65	7/16/2019 19:55	1.96	17.67	0.73	0.9
66	7/20/2019 6:30	0.08	0.5	0.08	2.7
67	7/21/2019 4:45	0.01	0.08	0.01	0.9
68	7/21/2019 20:30	0.76	13.92	0.46	0.7
69	7/24/2019 2:45	0.32	9.42	0.12	1.7
70	7/30/2019	0.09	6.58	0.05	5.5
71	8/6/2019 13:05	1.14	21.58	0.36	7.3
72	8/12/2019 13:20	0.55	19.33	0.37	5.1

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
73	8/15/2019 13:55	0.12	0.75	0.12	2.2
74	8/17/2019 15:35	0.03	0.17	0.03	2
75	8/18/2019 5:50	0.59	5.92	0.57	0.6
76	8/18/2019 23:50	0.43	3.58	0.29	0.5
77	8/20/2019 19:15	0.08	0.42	0.08	1.7
78	8/22/2019 1:50	1.17	9.75	0.98	1.3
79	8/26/2019 22:35	0.01	0.08	0.01	4.5
80	8/27/2019 13:15	0.17	3.5	0.14	0.6
81	9/1/2019 15:55	0.3	6.08	0.17	5
82	9/2/2019 11:05	0.07	19.83	0.03	0.5
83	9/6/2019 14:30	0.05	0.25	0.05	3.3
84	9/7/2019 8:40	0.01	0.08	0.01	0.7
85	9/11/2019 22:00	0.25	12.17	0.13	4.6
86	9/13/2019 20:00	0.73	4.67	0.62	1.4
87	9/23/2019 4:20	0.02	0.5	0.02	9.2
88	9/28/2019 15:20	0.14	0.42	0.14	5.4
89	9/30/2019 7:20	0.01	0.08	0.01	1.6
90	10/2/2019 15:20	0.15	6.08	0.08	2.3
91	10/4/2019 10:30	0.03	0.42	0.03	1.5
92	10/6/2019 21:20	0.1	6.33	0.04	2.4
93	10/12/2019 0:50	0.24	5.25	0.1	4.9
94	10/16/2019 5:20	0.65	20.08	0.21	4
95	10/21/2019 16:35	0.12	15.42	0.07	4.6
96	10/26/2019 13:00	0.91	14.33	0.21	4.2
97	10/30/2019 14:30	1.36	37.83	0.21	3.5
98	11/2/2019 19:10	0.06	0.42	0.06	1.6
99	11/7/2019 3:55	0.15	9.33	0.04	4.3
100	11/8/2019 5:05	0.01	0.08	0.01	0.7
101	11/11/2019 12:55	1.08	21.83	0.2	3.3
102	11/21/2019 23:05	0.03	5.17	0.02	9.5
103	11/23/2019 19:50	0.08	3.67	0.07	1.6
104	11/27/2019 1:30	0.17	8	0.08	3.1
105	11/28/2019 19:20	0.01	0.08	0.01	1.4
106	12/1/2019 5:00	0.59	40.83	0.17	2.4
107	12/4/2019 10:10	0.13	14.83	0.06	1.5
108	12/9/2019 6:20	0.54	15	0.1	4.2

Olmsted Falls Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
109	12/14/2019 2:30	0.55	11.25	0.1	4.2
110	12/15/2019 1:45	0.01	0.08	0.01	0.5
111	12/17/2019 1:15	0.11	11.08	0.02	2
112	12/18/2019 6:05	0.06	3.67	0.04	0.7
113	12/29/2019 7:50	0.68	31.5	0.16	10.9
114	12/31/2019 7:55	0.06	5.33	0.02	0.7

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:05	0.02	0.83	0.02	0.1
2	1/2/2019 22:05	0.01	0.08	0.01	1.8
3	1/7/2019 11:30	0.71	51.83	0.31	4.6
4	1/10/2019 10:10	0.01	0.08	0.01	0.8
5	1/12/2019 17:45	0.13	6.83	0.05	2.3
6	1/17/2019 19:20	0.02	7.75	0.01	4.8
7	1/19/2019 12:15	0.78	22.58	0.09	1.4
8	1/23/2019 2:40	1.27	26.33	0.21	2.7
9	1/27/2019	0.01	0.08	0.01	2.8
10	1/28/2019 17:35	0.14	6.17	0.04	1.7
11	2/4/2019 18:25	0.08	9.08	0.04	6.8
12	2/6/2019 4:30	0.31	14	0.1	1
13	2/7/2019 14:05	0.4	4.25	0.15	0.8
14	2/10/2019 17:55	0.13	2.92	0.07	3
15	2/12/2019 0:15	0.88	25.42	0.18	1.1
16	2/15/2019 2:50	0.02	0.25	0.02	2
17	2/17/2019 14:35	0.08	8.5	0.05	2.5
18	2/20/2019 7:00	0.28	13.33	0.14	2.3
19	2/23/2019 17:00	0.07	17	0.04	2.9
20	3/6/2019 4:55	0.01	0.08	0.01	9.8
21	3/9/2019 18:45	0.77	11.75	0.17	3.6
22	3/14/2019 9:30	0.61	11.67	0.43	4.1
23	3/15/2019 14:20	0.03	2.83	0.01	0.7
24	3/18/2019 14:00	0.01	0.08	0.01	2.9
25	3/20/2019 20:55	0.18	10	0.05	2.3
26	3/22/2019 8:25	0.05	1.67	0.03	1.1
27	3/24/2019 20:35	0.04	6.67	0.02	2.4
28	3/28/2019 21:25	0.39	15.25	0.12	3.8
29	3/30/2019 3:05	1.31	27.33	0.23	0.6
30	4/5/2019 8:35	0.01	0.08	0.01	5.1
31	4/8/2019 2:55	0.07	0.25	0.07	2.8
32	4/12/2019 10:35	0.17	2.58	0.11	4.3
33	4/14/2019 6:45	0.57	25.42	0.09	1.7
34	4/18/2019 1:05	0.01	0.08	0.01	2.7
35	4/19/2019 4:30	1.63	30	0.43	1.1
36	4/21/2019 6:30	0.02	0.67	0.02	0.8
37	4/23/2019 9:55	0.04	0.17	0.04	2.1
38	4/25/2019 18:45	0.92	20.75	0.24	2.4

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/27/2019 21:10	0.47	10.42	0.12	1.2
40	4/29/2019 15:35	0.53	22.67	0.2	1.3
41	5/1/2019 9:20	0.89	21	0.19	0.8
42	5/3/2019 1:00	0.17	42.42	0.03	0.8
43	5/9/2019 14:25	0.48	13.5	0.22	4.8
44	5/11/2019 22:45	0.35	6	0.14	1.8
45	5/12/2019 18:05	0.28	23.83	0.08	0.6
46	5/18/2019 5:45	0.16	16.08	0.07	4.5
47	5/19/2019 18:05	0.15	1.92	0.1	0.8
48	5/23/2019 8:20	0.12	0.25	0.12	3.5
49	5/26/2019 9:10	0.34	10.08	0.21	3
50	5/27/2019 22:50	1.4	27.92	0.6	1.1
51	5/30/2019 7:45	0.33	10.08	0.24	1.2
52	6/1/2019 18:40	0.59	8.5	0.19	2
53	6/2/2019 22:25	0.01	0.08	0.01	0.8
54	6/4/2019 21:55	2.01	27.75	0.82	2
55	6/10/2019 11:25	0.65	7.5	0.32	4.4
56	6/12/2019 23:15	1.04	25.83	0.23	2.2
57	6/15/2019 14:40	0.85	28	0.23	1.6
58	6/18/2019 1:15	0.01	0.08	0.01	1.3
59	6/20/2019 1:35	1.96	23.67	0.54	2
60	6/23/2019 9:50	0.02	0.08	0.02	2.4
61	6/24/2019 17:15	0.64	4.33	0.29	1.3
62	6/29/2019 1:05	0.14	0.42	0.14	4.1
63	7/2/2019 21:35	0.06	3	0.03	3.8
64	7/4/2019 14:20	0.52	1.67	0.45	1.6
65	7/5/2019 14:20	1.64	1.17	1.63	0.9
66	7/11/2019 12:05	0.11	2.33	0.07	5.9
67	7/15/2019 21:25	0.01	0.08	0.01	4.3
68	7/16/2019 14:35	1.6	22	0.64	0.7
69	7/21/2019 4:55	0.13	0.25	0.13	3.7
70	7/21/2019 20:50	0.76	13.83	0.43	0.7
71	7/30/2019 0:25	0.17	1.83	0.11	7.6
72	8/6/2019 13:40	0.89	7.75	0.35	7.5
73	8/7/2019 11:25	0.01	0.08	0.01	0.6
74	8/12/2019 13:45	0.01	0.08	0.01	5.1
75	8/13/2019 4:50	0.2	2.42	0.12	0.6
76	8/15/2019 13:25	0.17	4.25	0.09	2.3

Parma Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/17/2019 14:35	0.28	2.33	0.2	1.9
78	8/18/2019 6:05	0.36	6	0.34	0.5
79	8/19/2019 0:05	0.68	7.33	0.56	0.5
80	8/20/2019 19:20	0.12	0.25	0.12	1.5
81	8/22/2019 2:10	0.32	10.25	0.15	1.3
82	8/26/2019 22:45	0.14	18.5	0.06	4.4
83	9/1/2019 16:25	0.21	5.5	0.12	5
84	9/12/2019 0:50	0.13	5.83	0.11	10.1
85	9/13/2019 20:15	1.07	3.75	0.68	1.6
86	9/23/2019 4:55	0.02	0.17	0.02	9.2
87	9/28/2019 15:30	0.1	2.67	0.09	5.4
88	9/29/2019 20:20	0.06	8.75	0.04	1.1
89	10/2/2019 15:40	0.13	3.17	0.08	2.4
90	10/4/2019 9:30	0.03	0.5	0.03	1.6
91	10/6/2019 21:55	0.08	5.42	0.04	2.5
92	10/11/2019 22:50	0.24	7.33	0.12	4.8
93	10/16/2019 6:00	0.78	18.58	0.28	4
94	10/21/2019 23:25	0.1	9	0.06	5
95	10/26/2019 13:15	0.72	13.92	0.22	4.2
96	10/30/2019 14:50	1.24	37	0.21	3.5
97	11/2/2019 19:35	0.07	0.5	0.07	1.7
98	11/7/2019 3:50	0.18	9.58	0.05	4.3
99	11/11/2019 12:50	0.81	23.67	0.14	4
100	11/14/2019 2:40	0.03	0.67	0.03	1.6
101	11/21/2019 23:00	0.04	5.42	0.03	7.8
102	11/23/2019 19:55	0.03	0.92	0.03	1.6
103	11/27/2019 1:40	0.18	7.92	0.09	3.2
104	12/1/2019 5:10	0.52	43.5	0.14	3.8
105	12/4/2019 11:20	0.12	12.83	0.04	1.4
106	12/9/2019 8:45	0.48	15.33	0.1	4.4
107	12/14/2019 5:15	0.47	19.67	0.09	4.2
108	12/17/2019 1:05	0.1	11	0.02	2
109	12/18/2019 6:05	0.02	0.25	0.02	0.8
110	12/29/2019 8:00	0.68	53.42	0.09	11.1

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:10	0.02	1.25	0.01	0.1
2	1/2/2019 21:45	0.01	0.08	0.01	1.7
3	1/3/2019 23:10	0.01	0.08	0.01	1.1
4	1/7/2019 17:10	0.05	2.42	0.04	3.7
5	1/8/2019 9:00	0.56	30.42	0.23	0.6
6	1/12/2019 15:00	0.15	9.75	0.03	3
7	1/17/2019 18:20	0.05	5.5	0.02	4.7
8	1/19/2019 10:55	0.57	25.25	0.08	1.5
9	1/23/2019 3:05	1.29	26	0.17	2.6
10	1/26/2019 23:00	0.04	5.33	0.02	2.7
11	1/28/2019 18:20	0.16	5.75	0.05	1.6
12	2/1/2019 7:20	0.01	0.08	0.01	3.3
13	2/4/2019 21:40	0.05	5.83	0.02	3.6
14	2/6/2019 6:35	0.3	12.58	0.08	1.1
15	2/7/2019 13:55	0.56	8.75	0.2	0.8
16	2/10/2019 16:45	0.04	2.58	0.03	2.8
17	2/12/2019 1:35	0.91	19.92	0.18	1.3
18	2/15/2019 2:55	0.02	4.08	0.01	2.2
19	2/17/2019 13:45	0.15	9.25	0.07	2.3
20	2/20/2019 6:15	0.41	14.17	0.13	2.3
21	2/23/2019 16:40	0.08	9.5	0.04	2.8
22	3/3/2019 16:25	0.01	0.08	0.01	7.6
23	3/9/2019 18:45	1.28	14.75	0.26	6.1
24	3/14/2019 19:05	0.27	2.5	0.17	4.4
25	3/15/2019 14:20	0.04	3.08	0.02	0.7
26	3/16/2019 6:55	0.01	0.08	0.01	0.6
27	3/20/2019 21:20	0.06	8.25	0.02	4.6
28	3/22/2019 8:30	0.09	11.42	0.05	1.1
29	3/24/2019 20:00	0.08	6.92	0.03	2
30	3/28/2019 21:25	2.09	57.58	0.29	3.8
31	3/31/2019 22:55	0.01	0.08	0.01	0.7
32	4/5/2019 6:55	0.05	2.58	0.03	4.3
33	4/8/2019 3:10	0.01	0.08	0.01	2.7
34	4/12/2019 10:40	0.27	1.83	0.16	4.3
35	4/14/2019 6:45	0.84	25.17	0.35	1.8
36	4/18/2019 0:20	0.03	10.5	0.02	2.7
37	4/19/2019 6:45	1.23	24.42	0.26	0.8
38	4/21/2019 7:10	0.01	0.08	0.01	1

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/23/2019 10:15	0.04	0.08	0.04	2.1
40	4/25/2019 4:50	0.8	34.75	0.22	1.8
41	4/27/2019 21:10	0.44	10.75	0.12	1.2
42	4/29/2019 15:55	0.31	4.75	0.14	1.3
43	4/30/2019 13:35	0.12	0.67	0.12	0.7
44	5/1/2019 19:40	0.79	10.75	0.24	1.2
45	5/3/2019 7:25	0.12	8.42	0.04	1
46	5/4/2019 9:00	0.04	10.5	0.01	0.7
47	5/9/2019 15:10	0.66	16.42	0.18	4.8
48	5/11/2019 23:10	0.31	6.5	0.14	1.6
49	5/12/2019 18:25	0.25	24.17	0.08	0.5
50	5/18/2019 5:35	0.08	2.5	0.06	4.5
51	5/19/2019 18:30	0.05	1.08	0.04	1.4
52	5/20/2019 10:35	0.01	0.08	0.01	0.6
53	5/22/2019 19:00	0.01	0.08	0.01	2.3
54	5/23/2019 8:30	0.07	0.33	0.07	0.6
55	5/24/2019 15:55	0.03	0.42	0.03	1.3
56	5/26/2019 9:15	0.15	9.08	0.09	1.7
57	5/28/2019 0:30	0.28	1.83	0.23	1.3
58	5/28/2019 14:50	0.75	14.17	0.69	0.5
59	5/30/2019 7:30	0.15	10.25	0.12	1.1
60	6/1/2019 17:50	0.84	9.75	0.24	2
61	6/4/2019 21:35	1.44	32	0.61	2.8
62	6/10/2019 11:25	0.85	7.67	0.41	4.2
63	6/12/2019 21:35	1.1	27.75	0.23	2.1
64	6/15/2019 17:00	1.26	18.75	0.53	1.7
65	6/17/2019 4:40	0.05	1.25	0.04	0.7
66	6/18/2019 0:20	0.03	0.75	0.03	0.8
67	6/20/2019 0:15	1.02	25.5	0.35	2
68	6/24/2019 17:55	0.66	13.08	0.4	3.7
69	6/28/2019 16:00	0.41	4	0.27	3.4
70	6/29/2019 15:25	0.02	0.58	0.02	0.8
71	7/2/2019 23:20	0.25	2.25	0.17	3.3
72	7/5/2019 14:30	0.37	1.42	0.35	2.5
73	7/6/2019 15:00	0.42	0.25	0.42	1
74	7/7/2019 11:55	0.01	0.08	0.01	0.9
75	7/11/2019 12:30	0.4	2.83	0.28	4
76	7/16/2019 20:10	1.01	18.67	0.36	5.2

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/20/2019 6:20	0.13	1.33	0.12	2.6
78	7/21/2019 5:30	0.12	0.25	0.12	0.9
79	7/21/2019 20:30	0.98	14.17	0.46	0.6
80	7/30/2019 0:20	0.37	13.42	0.15	7.6
81	8/5/2019 16:25	0.03	0.25	0.03	6.1
82	8/6/2019 13:00	1.77	9	0.66	0.8
83	8/8/2019 6:10	0.01	0.08	0.01	1.3
84	8/13/2019 4:40	0.24	10	0.1	4.9
85	8/15/2019 14:35	0.02	0.17	0.02	2
86	8/16/2019 3:30	0.01	0.08	0.01	0.5
87	8/18/2019 16:20	0.34	10.08	0.22	2.5
88	8/20/2019 20:05	0.01	0.08	0.01	1.7
89	8/22/2019 2:45	0.33	7.83	0.27	1.3
90	8/26/2019 21:05	0.1	30.58	0.04	4.4
91	9/1/2019 16:35	0.44	8.83	0.28	4.5
92	9/5/2019 9:05	0.01	0.08	0.01	3.3
93	9/11/2019 18:05	0.41	12.92	0.28	6.4
94	9/13/2019 21:30	0.89	3.67	0.77	1.6
95	9/16/2019 0:15	0.01	0.08	0.01	2
96	9/23/2019 5:00	0.15	6.42	0.09	7.2
97	9/30/2019 6:25	0.02	2.58	0.01	6.8
98	10/2/2019 16:25	0.12	8.17	0.08	2.3
99	10/6/2019 14:05	0.14	12.67	0.06	3.6
100	10/8/2019 3:10	0.01	0.08	0.01	1
101	10/11/2019 23:05	0.14	7.25	0.07	3.8
102	10/16/2019 6:40	0.53	18.42	0.16	4
103	10/22/2019 0:25	0.12	8.83	0.04	5
104	10/26/2019 12:50	0.8	19.25	0.14	4.1
105	10/30/2019 14:55	1.33	33.42	0.27	3.3
106	11/2/2019 19:55	0.02	0.25	0.02	1.8
107	11/5/2019 3:40	0.05	3.42	0.03	2.3
108	11/7/2019 3:20	0.21	10.33	0.08	1.8
109	11/11/2019 14:25	0.44	19.42	0.08	4
110	11/14/2019 2:50	0.03	8.67	0.01	1.7
111	11/21/2019 19:05	0.08	9.42	0.03	7.3
112	11/23/2019 19:30	0.14	4.92	0.09	1.6
113	11/27/2019 2:00	0.22	8.17	0.1	3.1
114	12/1/2019 4:10	0.64	11.92	0.26	3.8

Richfield Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/2/2019 8:25	0.04	2.25	0.02	0.7
116	12/2/2019 22:45	0.04	2.92	0.02	0.5
117	12/4/2019 10:20	0.16	17.42	0.04	1.4
118	12/9/2019 6:20	0.73	13.92	0.12	4.1
119	12/14/2019 6:10	0.33	7.67	0.08	4.4
120	12/16/2019 4:05	0.01	0.08	0.01	1.6
121	12/17/2019 1:45	0.07	4.67	0.02	0.9
122	12/18/2019 9:55	0.03	0.42	0.03	1.1
123	12/29/2019 5:50	1.2	56.75	0.22	10.8

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:55	0.02	0.75	0.02	0.1
2	1/2/2019 21:30	0.02	0.67	0.02	1.7
3	1/7/2019 4:55	0.84	50.08	0.24	4.3
4	1/10/2019 3:25	0.02	5.17	0.01	0.9
5	1/12/2019 20:25	0.08	4	0.04	2.5
6	1/17/2019 20:45	0.04	6.17	0.02	4.8
7	1/19/2019 12:25	0.54	15.58	0.07	1.4
8	1/23/2019 2:50	1.36	26.5	0.2	3
9	1/26/2019 23:45	0.02	0.42	0.02	2.8
10	1/28/2019 17:50	0.17	6.67	0.07	1.7
11	2/4/2019 18:40	0.05	8.92	0.02	6.8
12	2/6/2019 2:55	0.29	16.58	0.08	1
13	2/7/2019 14:20	0.42	4.17	0.15	0.8
14	2/10/2019 17:55	0.13	2.67	0.06	3
15	2/12/2019 0:25	0.92	19.42	0.22	1.2
16	2/17/2019 14:35	0.08	8.33	0.06	4.8
17	2/20/2019 7:35	0.31	13.17	0.17	2.4
18	2/23/2019 17:10	0.07	17.08	0.03	2.9
19	2/26/2019 11:55	0.01	0.08	0.01	2.1
20	3/6/2019 3:40	0.02	1	0.02	7.7
21	3/9/2019 19:10	0.77	11.5	0.22	3.6
22	3/14/2019 9:45	0.37	11.58	0.27	4.1
23	3/15/2019 14:35	0.04	1.92	0.03	0.7
24	3/20/2019 21:30	0.18	9.75	0.04	5.2
25	3/22/2019 8:10	0.07	1.83	0.05	1
26	3/24/2019 22:00	0.02	5.33	0.01	2.5
27	3/29/2019 4:15	0.38	8.17	0.11	4
28	3/30/2019 3:05	1.5	38.58	0.23	0.6
29	4/5/2019 8:20	0.02	0.67	0.02	4.6
30	4/7/2019 17:20	0.11	9.92	0.08	2.3
31	4/12/2019 10:30	0.17	1.92	0.09	4.3
32	4/14/2019 5:35	0.58	26.67	0.13	1.7
33	4/17/2019 23:45	0.02	1.67	0.01	2.6
34	4/19/2019 4:45	1.34	29.58	0.28	1.1
35	4/21/2019 2:05	0.03	5.58	0.02	0.7
36	4/23/2019 9:55	0.06	0.33	0.06	2.1
37	4/25/2019 19:00	0.91	24	0.19	2.4
38	4/27/2019 21:20	0.44	10.25	0.11	1.1

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/29/2019 15:45	0.61	22.75	0.22	1.3
40	5/1/2019 17:30	0.92	13.33	0.17	1.1
41	5/3/2019 1:45	0.09	12.75	0.03	0.8
42	5/4/2019 9:25	0.03	10.25	0.01	0.8
43	5/9/2019 14:50	0.38	14.83	0.1	4.8
44	5/11/2019 23:10	0.32	5.5	0.14	1.7
45	5/12/2019 18:30	0.35	21.5	0.12	0.6
46	5/17/2019 23:25	0.07	9.67	0.04	4.3
47	5/18/2019 22:00	0.03	0.42	0.03	0.5
48	5/19/2019 18:10	0.14	2.42	0.07	0.8
49	5/21/2019 7:15	0.01	0.08	0.01	1.4
50	5/23/2019 8:30	0.03	0.17	0.03	2
51	5/26/2019 9:00	0.55	10.33	0.2	3
52	5/27/2019 23:10	1.07	28.17	0.63	1.2
53	5/30/2019 8:10	0.98	9.83	0.77	1.2
54	6/1/2019 21:05	0.51	7.75	0.2	2.1
55	6/4/2019 22:05	1.23	24.83	0.36	2.7
56	6/10/2019 1:40	1.07	17	0.48	4.1
57	6/12/2019 22:30	1.62	26.83	0.4	2.2
58	6/15/2019 12:40	1.6	28.25	0.61	1.5
59	6/18/2019 0:35	0.02	1.08	0.01	1.3
60	6/20/2019 1:35	2.35	23.42	1.09	2
61	6/24/2019 5:30	1.64	16.42	1.07	3.2
62	6/28/2019 19:40	0.19	5.83	0.16	3.9
63	7/2/2019 22:55	0.7	1.67	0.65	3.9
64	7/4/2019 16:25	0.01	0.08	0.01	1.7
65	7/5/2019 12:55	0.8	1.17	0.79	0.9
66	7/15/2019 21:40	0.09	0.25	0.09	10.3
67	7/16/2019 15:10	1.7	22.75	0.6	0.7
68	7/20/2019 4:45	0.03	2.33	0.02	2.6
69	7/21/2019 21:25	0.49	17.58	0.28	1.6
70	7/30/2019 0:50	0.19	10.17	0.15	7.4
71	7/31/2019 4:50	0.19	0.75	0.19	0.7
72	8/6/2019 13:35	1.48	7.83	0.81	6.3
73	8/12/2019 14:10	0.02	0.33	0.02	5.7
74	8/13/2019 5:55	0.05	2.08	0.03	0.6
75	8/15/2019 15:00	0.19	0.58	0.19	2.3
76	8/17/2019 14:35	0.1	0.42	0.1	2

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/18/2019 6:10	0.43	6.08	0.39	0.6
78	8/19/2019 0:15	0.29	2.25	0.23	0.5
79	8/20/2019 19:40	0.04	0.33	0.04	1.7
80	8/22/2019 2:10	0.48	10.33	0.23	1.3
81	8/26/2019 23:15	0.02	1.17	0.01	4.4
82	8/27/2019 13:00	0.14	4.5	0.08	0.5
83	9/1/2019 16:45	0.17	17.58	0.09	5
84	9/11/2019 14:15	0.51	16.33	0.18	9.2
85	9/13/2019 20:30	2.17	4.33	1.85	1.6
86	9/16/2019 0:30	0.03	1.75	0.02	2
87	9/23/2019 5:05	0.02	4	0.01	7.1
88	9/25/2019 18:55	0.02	1.58	0.01	2.4
89	9/28/2019 15:45	0.05	1.67	0.04	2.8
90	9/30/2019 4:10	0.02	2.67	0.01	1.4
91	10/2/2019 15:50	0.25	14.67	0.08	2.4
92	10/6/2019 21:25	0.12	7.75	0.06	3.6
93	10/11/2019 23:10	0.33	7.17	0.11	4.8
94	10/16/2019 6:15	1.06	22.17	0.23	4
95	10/22/2019	0.16	8.75	0.09	4.8
96	10/26/2019 12:50	0.68	14.42	0.12	4.2
97	10/28/2019 8:10	0.01	0.08	0.01	1.2
98	10/30/2019 15:05	1.72	44.83	0.2	2.3
99	11/2/2019 16:00	0.03	4.58	0.02	1.2
100	11/5/2019 4:55	0.01	0.08	0.01	2.3
101	11/7/2019 4:25	0.3	9.33	0.07	2
102	11/11/2019 13:00	0.72	24.5	0.15	4
103	11/14/2019 4:05	0.05	6.92	0.03	1.6
104	11/19/2019 19:05	0.01	0.08	0.01	5.3
105	11/21/2019 23:50	0.05	4.83	0.02	2.2
106	11/23/2019 20:15	0.02	3.08	0.01	1.6
107	11/27/2019 1:50	0.19	8.08	0.1	3.1
108	12/1/2019 5:20	0.59	12.83	0.2	3.8
109	12/2/2019 7:15	0.21	31.75	0.06	0.5
110	12/4/2019 12:30	0.09	14.25	0.03	0.9
111	12/9/2019 5:55	0.52	15.83	0.1	4.1
112	12/14/2019 5:20	0.53	20.33	0.1	4.3
113	12/17/2019 1:20	0.1	11.17	0.02	2
114	12/18/2019 6:15	0.01	0.08	0.01	0.7

Shaker Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/29/2019 5:45	0.65	57.67	0.13	11

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 11:45	0.02	5.83	0.01	0.5
2	1/2/2019 21:25	0.03	0.75	0.03	1.2
3	1/7/2019 6:00	0.09	13.58	0.04	4.3
4	1/8/2019 8:50	0.76	20.92	0.31	0.6
5	1/9/2019 22:45	0.01	0.08	0.01	0.7
6	1/12/2019 21:05	0.07	3.58	0.04	2.9
7	1/17/2019 23:05	0.03	4	0.02	4.9
8	1/19/2019 12:25	0.49	15.17	0.06	1.4
9	1/23/2019 2:40	1.48	25.83	0.25	3
10	1/26/2019 1:15	0.04	1.83	0.02	1.9
11	1/26/2019 23:50	0.01	0.08	0.01	0.9
12	1/28/2019 17:40	0.18	6.17	0.07	1.7
13	1/29/2019 15:40	0.01	0.08	0.01	0.7
14	2/1/2019 7:50	0.01	0.08	0.01	2.7
15	2/4/2019 18:45	0.06	8.67	0.02	3.5
16	2/6/2019 3:00	0.36	14	0.11	1
17	2/7/2019 14:20	0.44	4.17	0.16	0.9
18	2/10/2019 17:50	0.16	4.92	0.08	3
19	2/12/2019 0:40	1.12	24.25	0.3	1.1
20	2/17/2019 14:55	0.09	17.58	0.06	4.6
21	2/20/2019 8:00	0.32	13.33	0.14	2
22	2/23/2019 20:40	0.07	13.67	0.03	3
23	2/26/2019 11:50	0.01	0.08	0.01	2.1
24	3/9/2019 19:10	0.71	11.58	0.18	11.3
25	3/14/2019 9:50	0.48	11.5	0.35	4.1
26	3/15/2019 14:20	0.02	0.33	0.02	0.7
27	3/20/2019 13:30	0.18	17.5	0.03	5
28	3/22/2019 8:00	0.06	1.92	0.05	1
29	3/29/2019 4:15	0.34	6.67	0.08	6.8
30	3/30/2019 2:50	1.44	31.33	0.24	0.7
31	4/5/2019 8:25	0.01	0.08	0.01	4.9
32	4/7/2019 17:30	0.14	9.92	0.11	2.4
33	4/12/2019 10:40	0.3	2.17	0.21	4.3
34	4/14/2019 6:00	1	28	0.51	1.7
35	4/19/2019 4:55	1.29	29.58	0.23	3.8
36	4/21/2019 2:50	0.03	5.08	0.02	0.7
37	4/23/2019 10:00	0.03	0.17	0.03	2.1
38	4/25/2019 19:00	1.02	24	0.26	2.4

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/27/2019 21:15	0.43	10.75	0.13	1.1
40	4/29/2019 15:50	0.52	5	0.25	1.3
41	4/30/2019 13:55	0.08	0.67	0.08	0.7
42	5/1/2019 19:10	0.99	12.42	0.21	1.2
43	5/3/2019 1:55	0.47	12.42	0.39	0.8
44	5/4/2019 4:30	0.05	13.75	0.02	0.6
45	5/9/2019 14:45	0.5	15.5	0.17	4.9
46	5/11/2019 23:15	0.31	5.5	0.12	1.7
47	5/12/2019 18:35	0.42	21.67	0.11	0.6
48	5/18/2019 7:15	0.15	2	0.13	4.6
49	5/19/2019 18:10	0.21	2	0.13	1.4
50	5/20/2019 23:10	0.01	0.08	0.01	1.1
51	5/23/2019 8:20	0.16	0.33	0.16	2.4
52	5/26/2019 8:55	0.22	10.25	0.12	3
53	5/28/2019	0.47	27.17	0.23	1.2
54	5/30/2019 10:20	0.54	7.67	0.5	1.3
55	6/1/2019 18:30	0.45	8.67	0.2	2
56	6/5/2019 0:10	1.53	22.58	0.62	2.9
57	6/7/2019 3:00	0.01	0.08	0.01	1.2
58	6/10/2019 2:20	1.13	16.67	0.42	3
59	6/12/2019 23:30	1.23	25.08	0.31	2.2
60	6/15/2019 12:35	1.75	27.25	0.46	1.5
61	6/18/2019 1:15	0.01	0.08	0.01	1.4
62	6/20/2019 1:25	1.51	34.17	0.35	2
63	6/24/2019 17:45	0.86	4.25	0.41	3.3
64	6/25/2019 11:05	0.01	0.08	0.01	0.5
65	6/28/2019 19:45	0.79	0.42	0.79	3.4
66	6/29/2019 8:15	0.03	4.67	0.02	0.5
67	7/2/2019 23:00	0.37	6.75	0.3	3.4
68	7/4/2019 12:55	0.01	0.08	0.01	1.3
69	7/5/2019 12:55	0.57	0.92	0.57	1
70	7/11/2019 6:45	0.03	1	0.03	5.7
71	7/15/2019 21:45	0.07	0.17	0.07	4.6
72	7/16/2019 20:30	0.84	16.58	0.24	0.9
73	7/20/2019 0:50	0.33	6.25	0.32	2.5
74	7/20/2019 19:55	0.37	2.17	0.36	0.5
75	7/21/2019 21:50	0.26	13	0.11	1
76	7/23/2019 21:40	0.14	0.33	0.14	1.5

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/29/2019 18:50	0.78	16.42	0.46	5.9
78	7/31/2019 5:20	0.22	0.92	0.22	0.8
79	8/6/2019 12:10	1.21	19	0.62	6.2
80	8/13/2019 12:00	0.01	0.08	0.01	6.2
81	8/15/2019 15:00	0.02	0.5	0.02	2.1
82	8/17/2019 12:55	0.27	2.25	0.19	1.9
83	8/18/2019 6:15	0.95	25.17	0.37	0.6
84	8/22/2019 2:20	0.81	10.67	0.43	2.8
85	8/27/2019 0:25	0.02	0.42	0.02	4.5
86	8/27/2019 14:20	0.21	3.25	0.17	0.6
87	9/1/2019 16:45	0.15	8.33	0.08	5
88	9/11/2019 14:20	1.67	19.17	0.81	9.6
89	9/13/2019 20:30	0.91	2.17	0.67	1.5
90	9/16/2019 1:15	0.06	0.42	0.06	2.1
91	9/23/2019 4:45	0.1	5.08	0.08	7.1
92	9/28/2019 15:50	0.03	1.33	0.02	5.3
93	10/2/2019 15:55	0.67	25.25	0.21	3.9
94	10/6/2019 14:05	0.13	14.92	0.05	2.9
95	10/8/2019 12:05	0.01	0.08	0.01	1.3
96	10/11/2019 23:20	0.6	7.75	0.16	3.5
97	10/16/2019 5:50	1.05	21.67	0.25	3.9
98	10/21/2019 23:40	0.28	9.17	0.13	4.8
99	10/26/2019 12:45	0.79	15.42	0.18	4.2
100	10/30/2019 15:05	1.63	50.5	0.25	3.5
101	11/2/2019 19:55	0.01	0.08	0.01	1.1
102	11/5/2019 3:20	0.02	0.67	0.02	2.3
103	11/7/2019 4:30	0.24	18.25	0.07	2
104	11/8/2019 17:00	0.01	0.08	0.01	0.8
105	11/11/2019 12:35	0.75	21.25	0.18	2.8
106	11/14/2019 2:30	0.04	6.67	0.01	1.7
107	11/19/2019 21:45	0.01	0.08	0.01	5.5
108	11/21/2019 14:55	0.09	12.33	0.06	1.7
109	11/23/2019 20:30	0.02	0.67	0.02	1.7
110	11/27/2019 2:00	0.18	7.83	0.1	3.2
111	12/1/2019 5:25	0.76	58.33	0.26	3.8
112	12/4/2019 10:45	0.07	10.75	0.02	0.8
113	12/9/2019 5:55	0.47	15.67	0.11	4.4
114	12/14/2019 5:30	0.57	20.08	0.11	4.3

South Euclid Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2019 1:10	0.08	10.92	0.03	2
116	12/18/2019 5:25	0.06	0.75	0.06	0.7
117	12/29/2019 5:45	0.61	29.5	0.12	11
118	12/31/2019 0:40	0.12	12.08	0.05	0.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:35	0.01	0.08	0.01	0.1
2	1/2/2019 21:30	0.03	3.08	0.02	1.7
3	1/7/2019 18:10	0.02	0.92	0.02	4.7
4	1/8/2019 8:25	0.95	30.08	0.36	0.6
5	1/10/2019 7:25	0.02	1.08	0.01	0.7
6	1/12/2019 18:50	0.14	5.83	0.05	2.4
7	1/17/2019 22:35	0.01	0.08	0.01	4.9
8	1/19/2019 12:20	0.46	16.42	0.1	1.6
9	1/23/2019 2:50	1.07	26.75	0.17	2.9
10	1/27/2019 0:10	0.01	0.08	0.01	2.8
11	1/28/2019 18:40	0.12	5.33	0.04	1.8
12	2/4/2019 17:20	0.05	14.92	0.01	6.7
13	2/6/2019 2:40	0.27	10.42	0.08	0.8
14	2/7/2019 1:45	0.01	0.08	0.01	0.5
15	2/7/2019 14:10	0.4	6.08	0.15	0.5
16	2/10/2019 18:05	0.15	2.33	0.08	2.9
17	2/11/2019 23:55	0.91	19.75	0.22	1.1
18	2/15/2019 2:55	0.01	0.08	0.01	2.3
19	2/17/2019 14:35	0.1	8.58	0.06	2.5
20	2/20/2019 7:25	0.27	12.92	0.13	2.3
21	2/23/2019 19:35	0.06	18.92	0.03	3
22	3/6/2019 3:10	0.1	1.92	0.08	9.5
23	3/9/2019 18:45	0.62	11.58	0.13	3.6
24	3/14/2019 9:35	0.44	11.67	0.34	4.1
25	3/15/2019 14:30	0.02	1.92	0.01	0.7
26	3/20/2019 21:35	0.17	9.08	0.06	5.2
27	3/22/2019 8:15	0.08	6.92	0.05	1.1
28	3/25/2019 1:35	0.01	0.08	0.01	2.4
29	3/29/2019 4:15	0.4	8.33	0.12	4.1
30	3/30/2019 3:10	1.41	30	0.25	0.6
31	4/5/2019 8:50	0.01	0.08	0.01	5
32	4/8/2019 3:00	0.06	0.25	0.06	2.8
33	4/12/2019 10:40	0.15	1.92	0.08	4.3
34	4/14/2019 6:45	0.54	24.33	0.09	1.8
35	4/17/2019 23:40	0.02	10.92	0.01	2.7
36	4/19/2019 4:35	1.43	29.08	0.24	0.8
37	4/21/2019 1:15	0.03	5.92	0.01	0.6
38	4/23/2019 10:00	0.16	0.25	0.16	2.1

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/25/2019 18:55	0.88	28.92	0.18	2.4
40	4/27/2019 21:35	0.41	9.75	0.1	0.9
41	4/29/2019 15:40	0.5	7	0.22	1.3
42	4/30/2019 13:45	0.13	0.67	0.13	0.6
43	5/1/2019 17:25	0.8	13.17	0.19	1.1
44	5/3/2019 1:05	0.09	13.83	0.02	0.8
45	5/4/2019 9:15	0.03	10.83	0.01	0.8
46	5/9/2019 14:45	0.37	15.25	0.15	4.8
47	5/11/2019 23:05	0.33	5.92	0.14	1.7
48	5/12/2019 18:20	0.34	21.75	0.1	0.6
49	5/17/2019 13:00	0.07	20	0.03	3.9
50	5/18/2019 21:50	0.03	0.5	0.03	0.5
51	5/19/2019 18:15	0.13	1.75	0.08	0.8
52	5/21/2019 1:15	0.01	0.08	0.01	1.2
53	5/23/2019 8:25	0.04	0.25	0.04	2.3
54	5/26/2019 8:55	0.5	10.17	0.19	3
55	5/27/2019 21:40	1.57	31.67	1.05	1.1
56	5/30/2019 7:55	1.34	20.58	0.92	1.1
57	6/1/2019 21:00	0.55	6.17	0.21	1.7
58	6/2/2019 22:40	0.01	0.08	0.01	0.8
59	6/4/2019 21:30	1.94	25.33	0.76	1.9
60	6/7/2019 3:50	0.01	0.08	0.01	1.2
61	6/10/2019 11:35	0.81	7.08	0.32	3.3
62	6/12/2019 22:20	1.47	36.33	0.48	2.2
63	6/15/2019 14:45	1.19	24.83	0.35	1.2
64	6/18/2019 0:45	0.02	1.17	0.01	1.4
65	6/20/2019 1:05	2.16	23	0.96	2
66	6/24/2019 17:30	0.85	4.25	0.45	3.7
67	6/28/2019 19:30	0.09	17.92	0.05	3.9
68	7/2/2019 22:35	0.39	12.33	0.33	3.4
69	7/4/2019 12:25	1.65	4.08	0.96	1.1
70	7/5/2019 13:15	0.15	0.33	0.15	0.9
71	7/6/2019 23:35	0.14	10.42	0.12	1.4
72	7/15/2019 21:25	0.54	0.33	0.54	8.5
73	7/16/2019 14:45	1.33	22.5	0.56	0.7
74	7/21/2019 4:55	0.09	0.33	0.09	3.7
75	7/21/2019 21:15	0.59	13.33	0.33	0.7
76	7/30/2019 0:35	0.13	1.75	0.1	7.6

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/6/2019 13:25	1.16	14.83	0.52	7.5
78	8/13/2019 5:55	0.05	1.42	0.04	6.1
79	8/14/2019 6:50	0.01	0.08	0.01	1
80	8/15/2019 13:50	0.22	1.42	0.2	1.3
81	8/17/2019 14:40	0.16	1.5	0.12	2
82	8/18/2019 6:05	0.41	6.08	0.38	0.6
83	8/19/2019 0:15	0.41	2.92	0.33	0.5
84	8/20/2019 19:30	0.02	0.25	0.02	1.7
85	8/22/2019 2:20	0.32	10.33	0.14	1.3
86	8/26/2019 23:10	0.01	0.08	0.01	4.4
87	8/27/2019 15:00	0.07	1.92	0.06	0.7
88	9/1/2019 16:45	0.17	5	0.11	5
89	9/11/2019 16:45	0.35	13.75	0.17	9.8
90	9/13/2019 20:20	1.47	3.42	1.18	1.6
91	9/16/2019	0.04	2.75	0.03	2
92	9/23/2019 5:00	0.01	0.08	0.01	7.1
93	9/28/2019 15:40	0.03	0.17	0.03	5.4
94	9/30/2019 3:50	0.05	3	0.04	1.5
95	10/2/2019 15:55	0.2	4	0.14	2.4
96	10/6/2019 22:00	0.09	6.92	0.04	4.1
97	10/8/2019 5:10	0.01	0.08	0.01	1
98	10/11/2019 23:05	0.24	7.08	0.1	3.7
99	10/16/2019 6:05	0.99	21.83	0.26	4
100	10/21/2019 23:55	0.09	8.5	0.04	4.8
101	10/26/2019 12:25	0.64	14.42	0.18	4.2
102	10/28/2019 0:15	0.01	0.08	0.01	0.9
103	10/30/2019 14:50	1.44	38.25	0.2	2.6
104	11/2/2019 14:40	0.04	5.33	0.03	1.4
105	11/5/2019 3:25	0.01	0.08	0.01	2.3
106	11/7/2019 4:10	0.24	9.25	0.05	2
107	11/11/2019 12:45	0.62	21.67	0.14	4
108	11/14/2019 11:10	0.04	1.08	0.03	2
109	11/22/2019 0:20	0.03	1.75	0.02	7.5
110	11/23/2019 20:00	0.02	0.42	0.02	1.7
111	11/27/2019 1:55	0.14	7.75	0.08	3.2
112	12/1/2019 5:15	0.66	46.83	0.19	3.8
113	12/4/2019 18:25	0.05	3.5	0.02	1.6
114	12/9/2019 5:45	0.42	17.92	0.1	4.3

Southerly WWTC Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/14/2019 5:40	0.5	20.42	0.09	4.3
116	12/17/2019 1:25	0.06	7.83	0.02	2
117	12/18/2019 5:45	0.07	2.5	0.04	0.9
118	12/29/2019 8:00	0.52	27.17	0.11	11
119	12/31/2019 0:30	0.13	13.5	0.04	0.6

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 2:20	0.03	1.42	0.02	0.1
2	1/2/2019 13:15	0.04	9.25	0.02	1.4
3	1/7/2019 18:10	0.85	44.92	0.31	4.8
4	1/12/2019 17:05	0.17	7.17	0.05	3.1
5	1/16/2019 5:30	0.01	0.08	0.01	3.2
6	1/17/2019 18:30	0.04	4.5	0.02	1.5
7	1/19/2019 11:55	0.98	21.58	0.12	1.5
8	1/23/2019 2:35	1.46	26.67	0.23	2.7
9	1/26/2019 10:50	0.01	0.08	0.01	2.2
10	1/26/2019 23:30	0.03	3.08	0.02	0.5
11	1/28/2019 17:25	0.13	5.83	0.04	1.6
12	1/29/2019 20:25	0.01	0.08	0.01	0.9
13	2/1/2019 7:10	0.01	0.08	0.01	2.4
14	2/4/2019 16:55	0.12	10.33	0.05	3.4
15	2/6/2019 4:20	0.36	10.33	0.1	1
16	2/7/2019 13:50	0.44	4.42	0.15	1
17	2/10/2019 17:40	0.16	5.17	0.07	3
18	2/11/2019 22:55	1	30.17	0.18	1
19	2/15/2019 2:40	0.03	0.25	0.03	1.9
20	2/17/2019 14:25	0.12	18.42	0.06	2.5
21	2/20/2019 6:40	0.41	13.58	0.16	1.9
22	2/23/2019 16:40	0.1	17.25	0.06	2.9
23	3/6/2019 7:30	0.01	0.08	0.01	9.9
24	3/9/2019 18:45	0.81	18.33	0.18	3.5
25	3/14/2019 9:25	0.45	10.67	0.34	3.8
26	3/15/2019 14:05	0.04	3.83	0.02	0.8
27	3/20/2019 21:10	0.16	10	0.04	5.1
28	3/22/2019 8:20	0.1	9.08	0.05	1
29	3/24/2019 20:00	0.05	7.75	0.02	2.1
30	3/28/2019 22:10	0.4	14.17	0.13	3.8
31	3/30/2019 1:35	1.56	30	0.25	0.6
32	3/31/2019 22:35	0.01	0.08	0.01	0.6
33	4/5/2019 7:40	0.03	1.33	0.02	4.4
34	4/8/2019 2:55	0.06	0.58	0.06	2.7
35	4/12/2019 10:30	0.16	1.75	0.11	4.3
36	4/14/2019 5:05	0.64	26.5	0.11	1.7
37	4/17/2019 23:50	0.03	10.75	0.01	2.7
38	4/19/2019 3:50	1.64	29.83	0.35	0.7

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/21/2019 2:05	0.02	4.33	0.01	0.7
40	4/23/2019 9:50	0.01	0.08	0.01	2.1
41	4/25/2019 18:30	1.01	21.17	0.3	2.4
42	4/27/2019 21:15	0.53	12.33	0.13	1.2
43	4/29/2019 15:30	0.51	22.83	0.2	1.2
44	5/1/2019 17:15	0.87	13.58	0.2	1.1
45	5/2/2019 22:50	0.14	16	0.03	0.7
46	5/4/2019 8:10	0.06	13.5	0.02	0.7
47	5/9/2019 14:15	0.7	17.33	0.33	4.7
48	5/11/2019 22:55	0.34	5.67	0.15	1.6
49	5/12/2019 17:55	0.32	26.92	0.08	0.6
50	5/18/2019 4:55	0.31	3.25	0.24	4.3
51	5/18/2019 21:30	0.02	0.08	0.02	0.6
52	5/19/2019 18:00	0.16	6.33	0.11	0.9
53	5/23/2019 8:10	0.15	0.42	0.15	3.3
54	5/26/2019 9:10	0.16	21.58	0.04	3
55	5/27/2019 21:25	0.15	4.5	0.11	0.6
56	5/28/2019 14:40	1	11.92	0.61	0.5
57	5/30/2019 7:40	0.28	9.92	0.24	1.2
58	5/31/2019 8:50	0.01	0.08	0.01	0.6
59	6/1/2019 18:25	0.85	10.08	0.24	1.4
60	6/4/2019 21:50	2.42	34.58	0.93	2.7
61	6/10/2019 11:10	0.56	17.67	0.18	4.1
62	6/12/2019 21:35	0.41	4.67	0.22	1.7
63	6/13/2019 14:30	0.78	17.5	0.28	0.5
64	6/15/2019 15:10	0.89	23.75	0.26	1.3
65	6/18/2019 0:25	0.02	0.67	0.02	1.4
66	6/20/2019 1:00	1.79	24	0.46	2
67	6/24/2019 17:00	0.97	8	0.41	3.7
68	6/28/2019 15:30	0.46	10	0.23	3.6
69	7/2/2019 18:15	0.07	7.08	0.05	3.7
70	7/3/2019 15:30	0.1	0.25	0.1	0.6
71	7/4/2019 14:40	1.14	0.83	1.14	1
72	7/5/2019 14:40	0.16	0.5	0.16	1
73	7/6/2019 18:10	0.01	0.08	0.01	1.1
74	7/16/2019 20:00	2.02	16.33	0.79	10.1
75	7/20/2019 6:35	0.06	0.5	0.06	2.8
76	7/21/2019 4:50	0.09	0.58	0.09	0.9

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	7/21/2019 20:45	0.97	13.67	0.63	0.6
78	7/24/2019 3:20	0.33	5.17	0.22	1.7
79	7/30/2019 0:10	0.18	5.17	0.1	5.7
80	8/5/2019 14:45	0.23	0.42	0.23	6.4
81	8/6/2019 13:05	1.46	22.83	0.44	0.9
82	8/12/2019 13:25	0.11	1.33	0.1	5.1
83	8/13/2019 4:40	0.39	3.92	0.3	0.6
84	8/14/2019 6:40	0.01	0.08	0.01	0.9
85	8/15/2019 14:10	0.16	3.5	0.12	1.3
86	8/17/2019 15:50	0.12	0.17	0.12	1.9
87	8/18/2019 6:00	0.2	0.58	0.2	0.6
88	8/18/2019 23:55	0.69	7.33	0.53	0.7
89	8/22/2019 2:05	0.61	10.25	0.5	2.8
90	8/23/2019 6:05	0.01	0.08	0.01	0.7
91	8/26/2019 19:00	0.03	3.92	0.02	3.5
92	8/27/2019 13:50	0.11	2.92	0.07	0.6
93	9/1/2019 16:00	0.34	37	0.16	5
94	9/6/2019 14:45	0.01	0.08	0.01	3.4
95	9/7/2019 9:35	0.01	0.08	0.01	0.8
96	9/12/2019 5:25	0.17	4.75	0.11	4.8
97	9/13/2019 20:20	0.66	2	0.44	1.4
98	9/23/2019 4:45	0.02	0.25	0.02	9.3
99	9/28/2019 15:15	0.22	1.08	0.21	5.4
100	9/30/2019 8:40	0.01	0.08	0.01	1.7
101	10/2/2019 15:30	0.12	4.25	0.08	2.3
102	10/4/2019 10:05	0.02	1.5	0.01	1.6
103	10/6/2019 21:45	0.1	7	0.04	2.4
104	10/8/2019 8:15	0.01	0.08	0.01	1.1
105	10/11/2019 23:15	0.24	6.75	0.12	3.6
106	10/16/2019 5:35	0.56	18.58	0.19	4
107	10/21/2019 23:10	0.16	9	0.12	5
108	10/26/2019 13:05	0.72	13.75	0.18	4.2
109	10/30/2019 14:40	1.38	37.67	0.24	3.5
110	11/2/2019 14:55	0.07	5.17	0.06	1.4
111	11/7/2019 3:35	0.18	9.75	0.05	4.3
112	11/11/2019 12:45	0.94	22.58	0.15	4
113	11/14/2019 3:30	0.02	7.08	0.01	1.7
114	11/21/2019 23:15	0.04	5.08	0.03	7.5

Strongsville C WWTP Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	11/23/2019 19:50	0.08	1.25	0.07	1.6
116	11/27/2019 1:30	0.2	8	0.09	3.2
117	11/28/2019 18:35	0.01	0.08	0.01	1.4
118	12/1/2019 5:05	0.52	43	0.16	2.4
119	12/4/2019 10:15	0.21	14.75	0.06	1.4
120	12/9/2019 8:40	0.49	12.58	0.1	4.3
121	12/14/2019 3:10	0.54	22.92	0.1	4.2
122	12/17/2019 1:20	0.14	8.75	0.04	2
123	12/18/2019 6:05	0.07	4.08	0.05	0.8
124	12/29/2019 7:45	0.89	55.92	0.11	10.9

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 1:50	0.02	2.08	0.01	0.1
2	1/2/2019 21:25	0.03	2.83	0.02	1.7
3	1/7/2019 17:25	0.02	1.33	0.01	4.7
4	1/8/2019 8:35	1.02	28.75	0.5	0.6
5	1/12/2019 15:50	0.12	8.5	0.04	3.1
6	1/17/2019 18:05	0.03	2.92	0.01	4.7
7	1/19/2019 11:05	0.27	15.75	0.05	1.6
8	1/23/2019 2:55	1.39	26.42	0.25	3
9	1/26/2019 23:30	0.03	3.08	0.02	2.8
10	1/28/2019 17:05	0.12	6.67	0.04	1.6
11	2/1/2019 6:50	0.01	0.08	0.01	3.3
12	2/4/2019 18:00	0.11	9.58	0.05	3.5
13	2/6/2019 2:15	0.4	15.58	0.14	0.9
14	2/7/2019 13:50	0.43	8.42	0.14	0.8
15	2/10/2019 18:00	0.11	2.33	0.06	2.8
16	2/11/2019 22:20	0.92	21	0.2	1.1
17	2/15/2019 2:40	0.03	0.33	0.03	2.3
18	2/17/2019 14:05	0.09	19.08	0.05	2.5
19	2/20/2019 6:45	0.37	13.42	0.16	1.9
20	2/23/2019 16:40	0.08	9.5	0.06	2.9
21	3/9/2019 18:40	0.75	12.33	0.17	13.7
22	3/14/2019 9:20	0.46	11.75	0.33	4.1
23	3/15/2019 14:10	0.04	6.08	0.02	0.7
24	3/20/2019 20:50	0.14	18.92	0.04	5
25	3/22/2019 8:30	0.1	10.83	0.04	0.7
26	3/24/2019 20:00	0.05	7.42	0.02	2
27	3/28/2019 20:45	0.42	15.83	0.15	3.7
28	3/30/2019 1:15	1.37	30.25	0.24	0.5
29	4/5/2019 1:50	0.03	6.92	0.02	4.8
30	4/7/2019 17:45	0.14	9.33	0.12	2.4
31	4/12/2019 10:25	0.15	1.67	0.1	4.3
32	4/14/2019 5:25	0.6	29.58	0.11	1.7
33	4/18/2019 9:50	0.02	0.33	0.02	3
34	4/19/2019 3:40	1.22	27.75	0.21	0.7
35	4/21/2019 6:00	0.01	0.08	0.01	0.9

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
36	4/25/2019 17:30	1.07	21.92	0.39	4.5
37	4/27/2019 21:15	0.46	10.17	0.13	1.2
38	4/29/2019 11:55	0.33	8.5	0.16	1.2
39	4/30/2019 13:25	0.1	0.67	0.1	0.7
40	5/1/2019 10:00	0.87	20.58	0.26	0.8
41	5/3/2019 0:55	0.13	13.67	0.03	0.8
42	5/4/2019 16:40	0.02	1.17	0.01	1.1
43	5/9/2019 14:20	0.72	15.33	0.33	4.9
44	5/11/2019 22:45	0.31	5.75	0.13	1.7
45	5/12/2019 17:50	0.26	27	0.07	0.6
46	5/18/2019 5:40	0.2	2.58	0.14	4.4
47	5/18/2019 21:25	0.03	0.42	0.03	0.5
48	5/19/2019 11:45	0.12	15.25	0.08	0.6
49	5/23/2019 8:10	0.04	0.33	0.04	3.2
50	5/25/2019 13:40	0.01	0.08	0.01	2.2
51	5/26/2019 9:00	0.08	6.17	0.06	0.8
52	5/27/2019 9:15	0.01	0.08	0.01	0.8
53	5/28/2019 0:15	0.12	1.92	0.08	0.6
54	5/28/2019 14:30	0.08	12.25	0.03	0.5
55	5/30/2019 7:45	0.3	9.83	0.23	1.2
56	6/1/2019 18:30	0.7	9.08	0.23	2
57	6/4/2019 21:50	1.21	29.17	0.53	2.8
58	6/9/2019 8:15	0.01	0.08	0.01	3.2
59	6/10/2019 0:10	0.4	15.08	0.16	0.7
60	6/12/2019 21:20	1.11	27.42	0.22	2.3
61	6/15/2019 14:50	0.8	20.83	0.26	1.6
62	6/17/2019 5:15	0.01	0.08	0.01	0.7
63	6/18/2019 0:30	0.02	0.92	0.02	0.8
64	6/20/2019 1:05	1.94	24.33	0.75	2
65	6/24/2019 17:00	0.81	4.42	0.41	3.6
66	6/28/2019 15:25	0.78	8.92	0.55	3.8
67	7/2/2019 17:05	0.75	7.83	0.71	3.7
68	7/3/2019 16:50	0.05	0.25	0.05	0.7
69	7/4/2019 19:25	0.01	0.08	0.01	1.1
70	7/5/2019 14:10	0.59	10	0.58	0.8

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
71	7/16/2019 19:55	1.48	17.92	0.79	10.8
72	7/20/2019 5:00	0.19	2.25	0.11	2.6
73	7/21/2019 20:30	0.69	13.75	0.29	1.6
74	7/24/2019 7:05	0.49	3.92	0.45	1.9
75	7/30/2019 0:05	0.2	5.92	0.09	5.5
76	8/6/2019 15:15	0.86	9	0.48	7.4
77	8/12/2019 13:50	0.42	21.58	0.19	5.6
78	8/15/2019 14:35	0.25	3	0.23	2.1
79	8/18/2019 5:55	0.3	0.25	0.3	2.5
80	8/18/2019 23:55	0.48	6.58	0.32	0.7
81	8/22/2019 2:15	0.74	10.58	0.66	2.8
82	8/26/2019 22:20	0.29	18.92	0.17	4.4
83	9/1/2019 16:00	0.37	9.42	0.13	4.9
84	9/2/2019 21:50	0.01	0.08	0.01	0.9
85	9/12/2019 5:25	0.12	4.67	0.11	9.3
86	9/13/2019 20:25	0.69	4.25	0.49	1.4
87	9/23/2019 4:50	0.02	0.17	0.02	9.2
88	9/25/2019 20:00	0.01	0.08	0.01	2.6
89	9/30/2019 6:05	0.04	2.67	0.03	4.4
90	10/2/2019 16:25	0.06	1.17	0.05	2.3
91	10/6/2019 21:30	0.1	5.67	0.05	4.2
92	10/12/2019 1:15	0.23	4.83	0.11	4.9
93	10/16/2019 5:45	0.59	20.25	0.2	4
94	10/21/2019 23:05	0.13	9	0.1	4.9
95	10/26/2019 12:50	0.67	17.5	0.17	4.2
96	10/30/2019 14:40	1.26	34.08	0.21	3.3
97	11/2/2019 19:20	0.05	0.33	0.05	1.8
98	11/5/2019 6:00	0.01	0.08	0.01	2.4
99	11/7/2019 3:35	0.14	9.58	0.03	1.9
100	11/11/2019 12:55	0.71	22.92	0.12	4
101	11/14/2019 10:00	0.01	0.08	0.01	1.9
102	11/21/2019 18:50	0.05	9.58	0.03	7.4
103	11/23/2019 19:45	0.11	4.92	0.09	1.6
104	11/27/2019 1:20	0.19	8.42	0.07	3
105	12/1/2019 5:05	0.4	40.58	0.16	3.8

Strongsville Foltz Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
106	12/3/2019 17:50	0.01	0.08	0.01	0.8
107	12/4/2019 11:10	0.1	12.08	0.03	0.7
108	12/9/2019 8:35	0.48	12.92	0.09	4.4
109	12/14/2019 4:15	0.49	20.08	0.1	4.3
110	12/17/2019 1:05	0.07	7.25	0.03	2
111	12/18/2019 9:40	0.02	0.25	0.02	1.1
112	12/29/2019 7:35	0.89	53.5	0.12	10.9

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 3:20	0.01	0.08	0.01	0.1
2	1/2/2019 21:25	0.06	3.5	0.03	1.8
3	1/7/2019 6:00	0.94	56.17	0.26	4.2
4	1/10/2019 4:15	0.04	2.33	0.02	0.6
5	1/12/2019 21:15	0.05	2.58	0.03	2.6
6	1/17/2019 20:40	0.04	6.5	0.02	4.9
7	1/19/2019 12:35	0.29	15	0.04	1.4
8	1/23/2019 3:00	1.25	25.58	0.18	3
9	1/24/2019 23:20	0.01	0.08	0.01	0.8
10	1/26/2019 23:35	0.02	0.58	0.02	2
11	1/28/2019 17:50	0.16	6.25	0.07	1.7
12	2/1/2019 7:40	0.01	0.08	0.01	3.3
13	2/4/2019 21:25	0.11	6.08	0.05	3.6
14	2/6/2019 2:55	0.27	15.67	0.08	1
15	2/7/2019 14:20	0.41	4.17	0.15	0.8
16	2/10/2019 17:45	0.15	6.58	0.07	3
17	2/12/2019 1:45	0.95	24	0.22	1.1
18	2/17/2019 14:50	0.08	18	0.06	4.5
19	2/20/2019 7:50	0.29	13.67	0.14	2
20	2/23/2019 20:35	0.06	13.75	0.02	3
21	2/26/2019 10:10	0.01	0.08	0.01	2
22	3/6/2019 1:55	0.06	14.5	0.02	7.7
23	3/9/2019 19:10	0.67	15.5	0.17	3.1
24	3/14/2019 11:05	0.35	10.25	0.26	4
25	3/15/2019 15:55	0.03	9.25	0.02	0.8
26	3/20/2019 22:20	0.1	8.42	0.02	4.9
27	3/22/2019 8:05	0.08	1.92	0.07	1.1
28	3/29/2019 4:20	0.3	8	0.09	6.8
29	3/30/2019 2:50	1.37	31.58	0.23	0.6
30	4/5/2019 7:55	0.01	0.08	0.01	4.9
31	4/7/2019 17:30	0.04	9.83	0.02	2.4
32	4/12/2019 10:40	0.19	2.17	0.1	4.3
33	4/14/2019 7:05	0.54	24.33	0.13	1.8
34	4/18/2019 1:20	0.01	0.08	0.01	2.7
35	4/19/2019 5:30	1.2	29	0.22	1.2

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
36	4/21/2019 3:25	0.03	4.58	0.02	0.7
37	4/23/2019 10:00	0.1	0.5	0.1	2.1
38	4/25/2019 19:20	0.91	25.42	0.22	2.4
39	4/27/2019 21:35	0.35	9.83	0.1	1
40	4/29/2019 16:00	0.42	4.67	0.19	1.4
41	4/30/2019 13:05	0.09	1.5	0.08	0.7
42	5/1/2019 17:30	0.87	13.25	0.21	1.1
43	5/3/2019 1:50	0.11	12.5	0.04	0.8
44	5/4/2019 9:05	0.03	10.25	0.01	0.8
45	5/9/2019 14:55	0.37	13.17	0.12	4.8
46	5/11/2019 23:00	0.29	5.5	0.12	1.8
47	5/12/2019 18:30	0.39	22.25	0.11	0.6
48	5/17/2019 12:05	0.01	0.08	0.01	3.8
49	5/18/2019 7:45	0.06	1.42	0.05	0.8
50	5/19/2019 18:10	0.16	2.08	0.1	1.4
51	5/23/2019 8:15	0.11	0.5	0.11	3.5
52	5/26/2019 9:25	0.38	9.42	0.22	3
53	5/27/2019 23:15	1.03	23.33	0.57	1.2
54	5/30/2019 8:20	0.81	10	0.43	1.4
55	6/1/2019 21:15	0.45	6.25	0.19	2.1
56	6/4/2019 23:50	1.63	23.17	0.56	2.8
57	6/10/2019 2:20	1.05	16.33	0.39	4.1
58	6/12/2019 23:30	1.46	26	0.41	2.2
59	6/15/2019 14:50	1.4	26.08	0.39	1.6
60	6/17/2019 12:45	0.01	0.08	0.01	0.8
61	6/18/2019 1:30	0.01	0.08	0.01	0.5
62	6/20/2019 1:30	1.81	22.92	0.7	2
63	6/24/2019 5:35	1.36	16.75	0.82	3.2
64	6/28/2019 19:45	0.27	0.33	0.27	3.9
65	6/29/2019 8:20	0.07	4.75	0.06	0.5
66	7/2/2019 22:50	0.56	6.67	0.47	3.4
67	7/5/2019 13:00	0.03	0.25	0.03	2.3
68	7/15/2019 21:40	0.2	0.25	0.2	10.4
69	7/16/2019 15:15	0.96	25.17	0.46	0.7
70	7/20/2019 1:00	0.44	6	0.29	2.4

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
71	7/21/2019 21:40	0.32	20.83	0.18	1.6
72	7/23/2019 21:45	0.06	0.42	0.06	1.1
73	7/30/2019 0:45	0.85	10.33	0.72	6.1
74	7/31/2019 5:10	0.04	0.17	0.04	0.8
75	8/6/2019 12:20	1.25	19	0.56	6.3
76	8/12/2019 13:25	0.04	0.33	0.04	5.3
77	8/13/2019 6:50	0.02	0.83	0.02	0.7
78	8/15/2019 14:50	0.26	0.83	0.26	2.3
79	8/17/2019 14:50	0.05	0.33	0.05	2
80	8/18/2019 6:15	0.86	22	0.54	0.6
81	8/20/2019 19:55	0.02	0.08	0.02	1.7
82	8/22/2019 2:15	0.45	10.33	0.23	1.3
83	8/27/2019 0:05	0.02	0.33	0.02	4.5
84	8/27/2019 13:45	0.11	3.75	0.07	0.6
85	9/1/2019 7:35	0.13	15.67	0.06	4.6
86	9/11/2019 14:15	1.6	20.5	0.71	9.6
87	9/13/2019 20:30	1.68	3.58	1.27	1.4
88	9/16/2019 1:00	0.09	0.58	0.09	2
89	9/23/2019 5:00	0.03	4.67	0.02	7.1
90	9/28/2019 15:50	0.02	1.17	0.01	5.3
91	9/30/2019 3:40	0.05	0.92	0.05	1.4
92	10/2/2019 15:55	0.37	13.67	0.11	2.5
93	10/4/2019 8:45	0.01	0.08	0.01	1.1
94	10/6/2019 22:05	0.12	6.58	0.06	2.6
95	10/8/2019 9:10	0.01	0.08	0.01	1.2
96	10/11/2019 23:15	0.46	8.67	0.13	3.6
97	10/16/2019 6:10	1.05	22	0.26	3.9
98	10/21/2019 23:50	0.15	8.83	0.09	4.8
99	10/26/2019 12:55	0.65	14.67	0.13	4.2
100	10/30/2019 15:05	1.65	44.92	0.19	3.5
101	11/2/2019 15:10	0.01	0.08	0.01	1.1
102	11/5/2019 3:30	0.02	0.58	0.02	2.5
103	11/7/2019 4:35	0.27	9.33	0.07	2
104	11/8/2019 16:25	0.01	0.08	0.01	1.1
105	11/11/2019 12:55	0.71	25.33	0.14	2.9

University Heights Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
106	11/14/2019 3:15	0.03	8.67	0.02	1.5
107	11/19/2019 19:20	0.02	0.67	0.02	5.3
108	11/21/2019 14:50	0.09	13.75	0.05	1.8
109	11/23/2019 20:25	0.02	3.08	0.01	1.7
110	11/27/2019 1:55	0.16	7.92	0.09	3.1
111	12/1/2019 5:25	0.62	11.42	0.29	3.8
112	12/2/2019 6:50	0.22	22.17	0.08	0.6
113	12/4/2019 10:40	0.14	11.33	0.09	1.2
114	12/9/2019 7:05	0.45	14.5	0.09	4.4
115	12/14/2019 5:35	0.54	20.33	0.1	4.3
116	12/17/2019 1:15	0.07	10	0.02	2
117	12/18/2019 5:35	0.06	0.58	0.06	0.8
118	12/29/2019 5:45	0.67	56.67	0.12	11

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/1/2019 0:20	0.01	0.08	0.01	0
2	1/2/2019 21:15	0.04	4.17	0.03	1.9
3	1/7/2019 6:10	0.06	13.25	0.04	4.2
4	1/8/2019 8:40	0.84	38.83	0.31	0.6
5	1/12/2019 20:25	0.07	4	0.03	2.9
6	1/17/2019 22:25	0.03	4.75	0.02	4.9
7	1/19/2019 13:05	0.26	14.17	0.04	1.4
8	1/23/2019 2:50	1.3	25.5	0.24	3
9	1/26/2019 1:35	0.01	0.08	0.01	1.9
10	1/26/2019 23:35	0.02	2.58	0.01	0.9
11	1/28/2019 17:40	0.11	5.83	0.04	1.6
12	2/1/2019 6:50	0.02	0.92	0.02	3.3
13	2/4/2019 18:35	0.05	8.83	0.02	3.5
14	2/6/2019 2:50	0.28	11.08	0.07	1
15	2/7/2019 14:15	0.45	4.17	0.17	1
16	2/10/2019 17:45	0.16	6.58	0.07	3
17	2/12/2019 0:25	0.99	22.08	0.2	1
18	2/17/2019 14:50	0.07	8.17	0.06	4.7
19	2/20/2019 7:45	0.34	16.17	0.15	2.4
20	2/23/2019 20:55	0.05	13.25	0.02	2.9
21	3/6/2019 2:25	0.02	1	0.02	9.7
22	3/6/2019 16:15	0.01	0.08	0.01	0.5
23	3/9/2019 19:05	0.63	11.25	0.16	3.1
24	3/14/2019 9:40	0.46	10.5	0.37	4.1
25	3/15/2019 14:30	0.01	0.08	0.01	0.8
26	3/20/2019 21:00	0.22	9.83	0.05	5.3
27	3/22/2019 8:05	0.06	1.75	0.05	1.1
28	3/29/2019 4:35	0.29	6.67	0.07	6.8
29	3/30/2019 3:20	1.28	30.92	0.21	0.7
30	4/5/2019 12:30	0.01	0.08	0.01	5.1
31	4/7/2019 17:25	0.03	9.83	0.02	2.2
32	4/12/2019 10:40	0.21	1.83	0.15	4.3
33	4/14/2019 5:40	0.66	25.33	0.21	1.7
34	4/18/2019 1:00	0.01	0.08	0.01	2.8
35	4/19/2019 4:40	1.37	29.75	0.24	1.1

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
36	4/21/2019 1:10	0.02	6.08	0.01	0.6
37	4/23/2019 9:55	0.06	0.25	0.06	2.1
38	4/25/2019 18:40	0.73	28.42	0.19	2.4
39	4/27/2019 21:15	0.41	10.58	0.1	0.9
40	4/29/2019 15:40	0.5	4.83	0.24	1.3
41	4/30/2019 13:50	0.09	0.58	0.09	0.7
42	5/1/2019 17:45	0.91	12.75	0.19	1.1
43	5/3/2019 1:15	0.3	13	0.24	0.8
44	5/4/2019 7:50	0.03	10.25	0.01	0.7
45	5/9/2019 14:35	0.3	15.08	0.14	4.9
46	5/11/2019 22:50	0.3	7.17	0.1	1.7
47	5/12/2019 18:40	0.28	16.83	0.1	0.5
48	5/18/2019 8:10	0.07	0.92	0.07	4.9
49	5/19/2019 18:05	0.19	2.08	0.11	1.4
50	5/23/2019 8:15	0.08	0.33	0.08	3.5
51	5/26/2019 9:05	0.5	9.67	0.35	3
52	5/27/2019 23:15	0.24	7.25	0.11	1.2
53	5/28/2019 19:05	0.69	7.92	0.5	0.5
54	5/30/2019 10:10	0.53	7.75	0.43	1.3
55	6/1/2019 18:40	0.5	8.5	0.22	2
56	6/4/2019 23:50	1.48	24.83	0.48	2.9
57	6/10/2019 11:40	0.9	6.83	0.35	4.5
58	6/12/2019 22:35	1.25	26.75	0.3	2.2
59	6/15/2019 12:30	1.55	26.83	0.3	1.5
60	6/18/2019 0:40	0.01	0.08	0.01	1.4
61	6/20/2019 1:15	1.31	22.33	0.43	2
62	6/24/2019 17:35	0.52	4.25	0.28	3.8
63	6/28/2019 19:35	0.36	0.5	0.36	3.9
64	6/29/2019 8:15	0.02	4.67	0.01	0.5
65	7/2/2019 22:55	0.39	2.75	0.36	3.4
66	7/4/2019 16:30	0.01	0.08	0.01	1.6
67	7/5/2019 12:45	0.01	0.08	0.01	0.8
68	7/6/2019 1:30	0.01	0.08	0.01	0.5
69	7/11/2019 7:20	0.03	4.92	0.02	5.2
70	7/15/2019 21:35	0.12	0.17	0.12	4.4

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
71	7/16/2019 20:25	0.87	16.58	0.31	0.9
72	7/20/2019 6:25	0.14	0.5	0.14	2.7
73	7/21/2019 21:20	0.34	13.17	0.12	1.6
74	7/30/2019 0:35	0.66	10.25	0.6	7.6
75	7/31/2019 4:55	0.02	0.17	0.02	0.8
76	8/6/2019 12:40	1.02	17.67	0.48	6.3
77	8/12/2019 13:20	0.03	0.17	0.03	5.3
78	8/13/2019 7:20	0.01	0.08	0.01	0.7
79	8/15/2019 14:45	0.05	0.67	0.05	2.3
80	8/17/2019 12:50	0.2	2.17	0.16	1.9
81	8/18/2019 6:10	0.92	23.5	0.35	0.6
82	8/22/2019 2:05	0.58	10.33	0.22	2.9
83	8/27/2019 0:10	0.26	17.08	0.16	4.5
84	9/1/2019 7:45	0.22	36.83	0.09	4.6
85	9/11/2019 14:10	0.93	17.25	0.33	8.7
86	9/13/2019 20:25	0.73	2.17	0.66	1.5
87	9/16/2019 0:30	0.11	5.83	0.1	2.1
88	9/23/2019 4:45	0.05	4.67	0.04	6.9
89	9/25/2019 19:05	0.01	0.08	0.01	2.4
90	9/28/2019 15:45	0.03	1.33	0.02	2.9
91	9/30/2019 3:35	0.03	1.67	0.02	1.4
92	10/2/2019 15:50	0.47	25.33	0.12	2.4
93	10/6/2019 13:10	0.11	15.58	0.04	2.8
94	10/11/2019 23:20	0.47	7.25	0.19	4.8
95	10/16/2019 5:50	1	22.08	0.21	4
96	10/21/2019 23:55	0.1	8.92	0.05	4.8
97	10/26/2019 12:50	0.72	14.17	0.21	4.2
98	10/30/2019 14:55	1.62	38.75	0.2	3.5
99	11/2/2019 14:30	0.02	5.42	0.01	1.4
100	11/5/2019 3:35	0.01	0.08	0.01	2.3
101	11/7/2019 7:40	0.23	5.58	0.08	2.2
102	11/11/2019 12:35	0.66	19.25	0.16	4
103	11/13/2019 12:45	0.01	0.08	0.01	1.2
104	11/14/2019 3:20	0.01	0.08	0.01	0.6
105	11/19/2019 18:05	0.01	0.08	0.01	5.6

Wade Park Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
106	11/21/2019 15:05	0.08	12.08	0.06	1.9
107	11/23/2019 20:10	0.03	0.33	0.03	1.7
108	11/27/2019 1:35	0.18	8.17	0.11	3.2
109	12/1/2019 5:20	0.66	32.08	0.29	3.8
110	12/3/2019 2:35	0.03	4.17	0.01	0.5
111	12/4/2019 11:35	0.09	6.5	0.07	1.2
112	12/9/2019 8:10	0.44	13.42	0.09	4.6
113	12/14/2019 5:35	0.52	19.75	0.11	4.3
114	12/17/2019 3:50	0.04	5.17	0.02	2.1
115	12/18/2019 5:30	0.06	0.75	0.06	0.9
116	12/29/2019 7:30	0.56	53.17	0.09	11.1

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
1	1/2/2019 20:50	0.03	1.17	0.02	1.9
2	1/7/2019 4:45	0.01	0.08	0.01	4.3
3	1/7/2019 16:55	0.03	2.42	0.02	0.5
4	1/8/2019 8:30	0.77	28	0.26	0.5
5	1/12/2019 18:50	0.13	6	0.04	3.3
6	1/17/2019 18:35	0.04	5	0.02	4.7
7	1/19/2019 11:55	0.96	15.08	0.12	1.5
8	1/23/2019 2:30	1.34	25.25	0.25	3
9	1/26/2019 23:25	0.04	2.75	0.02	2.8
10	1/28/2019 17:20	0.12	5.33	0.04	1.6
11	2/1/2019 7:55	0.01	0.08	0.01	3.4
12	2/4/2019 16:50	0.09	10.33	0.04	3.4
13	2/6/2019 5:30	0.3	13	0.11	1.1
14	2/7/2019 14:05	0.47	4.17	0.19	0.8
15	2/10/2019 17:50	0.15	2.5	0.08	3
16	2/11/2019 23:40	0.81	19.58	0.16	1.1
17	2/15/2019 2:25	0.03	0.33	0.03	2.3
18	2/17/2019 14:40	0.09	9.67	0.06	2.5
19	2/20/2019 7:15	0.4	13.58	0.18	2.3
20	2/23/2019 17:45	0.12	16.17	0.06	2.9
21	3/6/2019 4:15	0.02	0.42	0.02	9.8
22	3/9/2019 18:45	0.7	11.42	0.21	3.6
23	3/14/2019 9:20	0.5	10.75	0.23	4.1
24	3/15/2019 15:40	0.01	0.08	0.01	0.8
25	3/18/2019 12:50	0.01	0.08	0.01	2.9
26	3/20/2019 21:30	0.19	9.92	0.05	2.4
27	3/22/2019 8:10	0.04	1.67	0.02	1
28	3/25/2019 1:40	0.02	1.42	0.01	2.7
29	3/28/2019 10:50	0.01	0.08	0.01	3.3
30	3/29/2019 4:20	0.33	7.67	0.1	0.7
31	3/30/2019 3:25	1.11	28.17	0.23	0.6
32	4/5/2019 8:55	0.01	0.08	0.01	5.1
33	4/7/2019 17:30	0.05	9.42	0.03	2.4
34	4/12/2019 10:35	0.05	1.5	0.03	4.3
35	4/14/2019 4:50	1.17	25.33	0.63	1.7
36	4/17/2019 23:10	0.04	10.92	0.02	2.7
37	4/19/2019 3:20	1.97	32.25	0.46	0.7
38	4/20/2019 23:35	0.05	8.5	0.02	0.5

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
39	4/23/2019 9:45	0.05	0.08	0.05	2.1
40	4/25/2019 5:05	0.02	0.67	0.02	1.8
41	4/25/2019 18:15	0.68	20.83	0.32	0.5
42	4/27/2019 20:55	0.55	10.5	0.12	1.2
43	4/29/2019 15:20	0.5	5.75	0.23	1.3
44	4/30/2019 13:30	0.12	0.67	0.12	0.7
45	5/1/2019 16:55	0.63	14.08	0.16	1.1
46	5/3/2019 1:40	0.47	7	0.44	0.8
47	5/4/2019 16:25	0.01	0.08	0.01	1.3
48	5/9/2019 14:05	0.38	15.17	0.13	4.9
49	5/11/2019 22:35	0.32	7.17	0.09	1.7
50	5/12/2019 17:50	0.35	23.08	0.11	0.5
51	5/18/2019 6:55	0.06	2	0.04	4.6
52	5/19/2019 17:50	0.09	1.83	0.06	1.4
53	5/22/2019 14:40	0.01	0.08	0.01	2.8
54	5/23/2019 8:05	0.34	0.25	0.34	0.7
55	5/26/2019 8:55	0.55	20.08	0.23	3
56	5/27/2019 22:40	0.26	7.08	0.15	0.7
57	5/28/2019 18:55	1.56	10.75	1.25	0.5
58	5/30/2019 9:35	0.42	7.83	0.34	1.2
59	6/1/2019 18:10	0.78	9.33	0.28	2
60	6/4/2019 21:00	1.34	36.5	0.59	2.7
61	6/10/2019 1:30	0.88	16.42	0.41	3.7
62	6/12/2019 22:55	0.24	2.92	0.13	2.2
63	6/13/2019 14:25	0.5	9.83	0.16	0.5
64	6/15/2019 12:10	1.14	28.75	0.3	1.5
65	6/18/2019 0:10	0.02	1.5	0.01	1.3
66	6/20/2019 1:40	2.16	23	0.84	2
67	6/24/2019 20:00	0.31	3.33	0.25	3.8
68	6/28/2019 18:40	0.76	6.25	0.73	3.8
69	7/2/2019 22:45	0.1	5.75	0.05	3.9
70	7/6/2019 18:25	0.01	0.08	0.01	3.6
71	7/11/2019 12:15	0.01	0.08	0.01	4.7
72	7/15/2019 21:10	0.01	0.08	0.01	4.4
73	7/16/2019 20:00	0.5	15.5	0.16	0.9
74	7/20/2019 5:10	0.55	1.75	0.49	2.7
75	7/21/2019 21:00	0.69	13.58	0.4	1.6
76	7/29/2019 23:55	0.05	2.25	0.04	7.6

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
77	8/6/2019 12:35	0.88	18.25	0.59	7.4
78	8/12/2019 13:50	0.02	0.17	0.02	5.3
79	8/13/2019 4:55	0.09	1.92	0.06	0.6
80	8/17/2019 14:15	0.15	0.25	0.15	4.3
81	8/18/2019 3:10	0.31	4.17	0.25	0.5
82	8/18/2019 23:45	0.37	2.5	0.27	0.7
83	8/20/2019 19:50	0.02	1.08	0.01	1.7
84	8/22/2019 1:30	0.7	10.58	0.27	1.2
85	8/26/2019 19:10	0.02	3.5	0.01	4.3
86	8/27/2019 13:45	0.22	2.17	0.19	0.6
87	9/1/2019 16:20	0.13	5.08	0.06	5
88	9/2/2019 20:35	0.07	7.83	0.06	1
89	9/12/2019 0:30	0.28	7.42	0.15	8.8
90	9/13/2019 19:50	0.75	4.58	0.65	1.5
91	9/15/2019 23:25	0.04	1.67	0.02	2
92	9/23/2019 4:25	0.05	4.17	0.04	7.1
93	9/25/2019 18:25	0.01	0.08	0.01	2.4
94	9/28/2019 3:45	0.1	12.92	0.06	2.4
95	9/29/2019 19:40	0.24	9.17	0.22	1.1
96	10/2/2019 15:35	0.28	13.67	0.15	2.4
97	10/6/2019 12:50	0.05	12.92	0.01	3.3
98	10/8/2019 5:30	0.01	0.08	0.01	1.2
99	10/11/2019 22:30	0.36	7.5	0.18	3.7
100	10/16/2019 5:25	0.53	14	0.2	4
101	10/21/2019 22:55	0.09	2	0.07	5.1
102	10/26/2019 12:40	1.21	14.75	0.2	4.5
103	10/30/2019 14:30	1.4	38.08	0.19	3.5
104	11/2/2019 14:00	0.05	5.33	0.04	1.4
105	11/7/2019 7:40	0.1	5.5	0.03	4.5
106	11/11/2019 12:15	0.89	15.42	0.15	4
107	11/14/2019 10:00	0.01	0.08	0.01	2.3
108	11/21/2019 23:00	0.07	5.17	0.06	7.5
109	11/23/2019 20:00	0.07	1.08	0.06	1.7
110	11/26/2019 22:55	0.29	10.67	0.12	3.1
111	12/1/2019 5:00	0.64	46	0.16	3.8
112	12/4/2019 10:35	0.13	13.17	0.04	1.3
113	12/9/2019 8:45	0.47	11.83	0.1	4.4
114	12/14/2019 3:00	0.49	22.58	0.1	4.3

Westlake Precipitation Gauge

Event	Start Date/Time	Total Precipitation Depth (inches)	Duration (hrs)	Peak 1-Hour Intensity (in/hr)	Antecedent Dry Period (days)
115	12/17/2019 3:40	0.1	6.42	0.04	2.1
116	12/18/2019 5:40	0.04	1.58	0.03	0.8
117	12/29/2019 7:40	0.62	31.5	0.14	11
118	12/31/2019 7:50	0.06	3	0.03	0.7

Appendix B: Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen Polygon Tool in ArcGIS to Spatially Distribute Precipitation Gauge Data

Thiessen polygon was constructed based on the temporary gauges, following the approach described below.

1. Create Precipitation Gauge boundaries in ArcGIS via Thiessen Polygon tool.

- A) ArcToolbox → Analysis Tools → Proximity → **Create Thiessen Polygons**
 - i. Input Features: Precipitation Gauge point shapefile
 - ii. **OK** to generate Thiessen Polygons. The default processing extent is the same extent as the precipitation gauge point features with a 10% buffer (see **Figure B1**). The extent can be changed in the Environment settings.

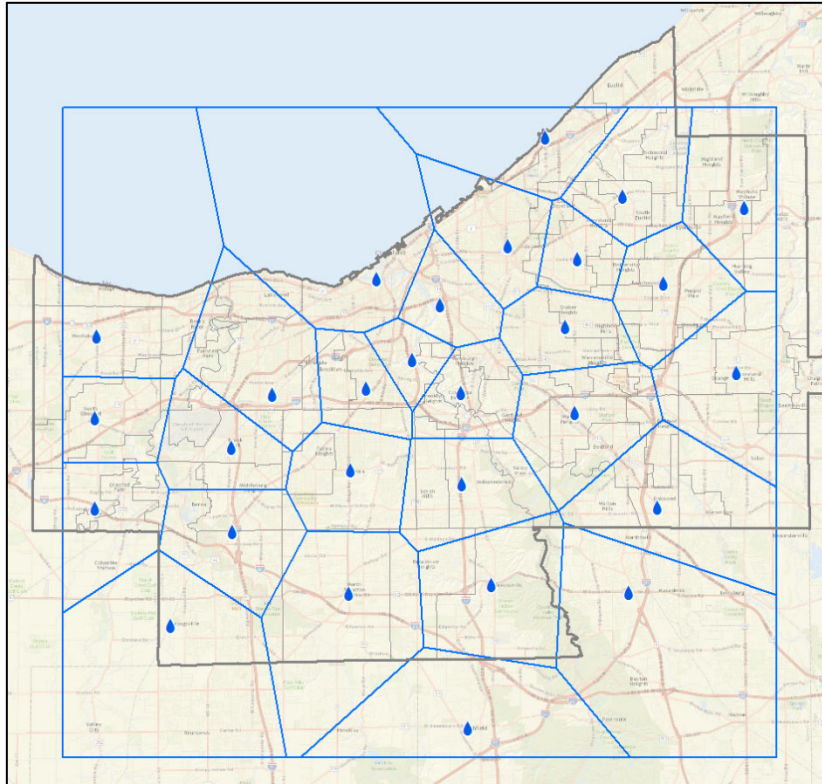


Figure B1. Precipitation Gauge Boundaries generated using the Thiessen Polygon tool in ArcGIS

- B) Add Field "PROFILE" to the precipitation gauge boundary shapefile of Type: SHORT.
 - C) Assign each precipitation gauge boundary with a unique ID# under the PROFILE field.
This will be used by InfoWorks ICM to assign rainfall profiles to subcatchments.
- ### 2. Add the Precipitation Gauge boundaries to the InfoWorks ICM model.2.
- A) Import precipitation gauge boundary shapefile as a GIS layer.
 - B) GeoPlan → Precipitation Gauge data → **Import from map data...**
 - i. Select precipitation gauge boundary layer, then Import.

- C) Verify that all the model subcatchments lie completely within the precipitation gauge boundaries. If they do not, the boundaries need to be manually adjusted in GIS, as shown in **Figure B2**, and re-imported into ICM.

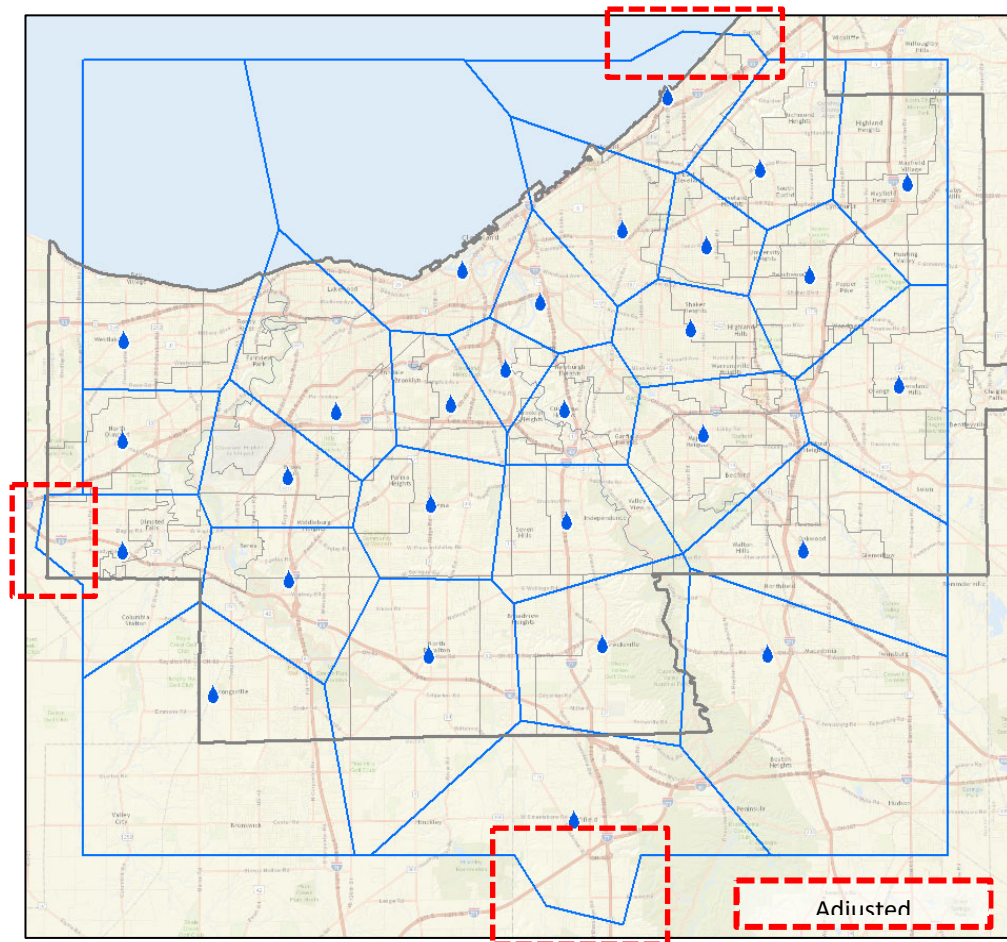


Figure B2. Precipitation Gauge Boundaries Manually Adjusted in ArcGIS to overlap model subcatchments.

3. Format Raw Data for use in ICM

- A) Fill BLANK data gaps in raw data with values of zero.
- B) Convert each time step in raw data into intensity/hour. If raw data is recorded every 5-minutes, multiply each time step by 12.

4. Add Precipitation Gauge rainfall data to ICM.

- A) Add new rainfall event in ICM and open Rainfall Event editor.
- B) Append profiles for each precipitation gauge boundary and rename profile titles to match precipitation gauge boundary profiles. There should only be one rainfall event file for all models being simulated.
 - i. Right-click cell → Profile Properties → Change Profile Title
- C) Edit start date/time to match rainfall data
 - i. Right-click cell → Sub-Event Properties
 1. Start Date: **MM/DD/YYYY**
 2. Start Time: **hh:mm:ss**
 3. Timestep: **5m** (for 5-minutes – change according to rainfall timesteps)
- D) Add rainfall to each profile via copy and paste from Excel rainfall data.

- i. Select “Add timesteps to this sub-event, so all data can be pasted” → OK
- E) Save and exit Rainfall Event editor window.

5. **Apply Precipitation Gauge boundaries to rainfall event.** This will override the profile number entered in the Subcatchment’s *Rainfall Profile* field.

- A) GeoPlan → Precipitation Gauge data → **Save to rainfall event...**
- B) Select rainfall event with precipitation gauge profiles. Make sure rainfall profile names are consistent with precipitation gauge boundary IDs as seen in the table heading on the right and the GeoPlan map on the left (**Figure B3**).

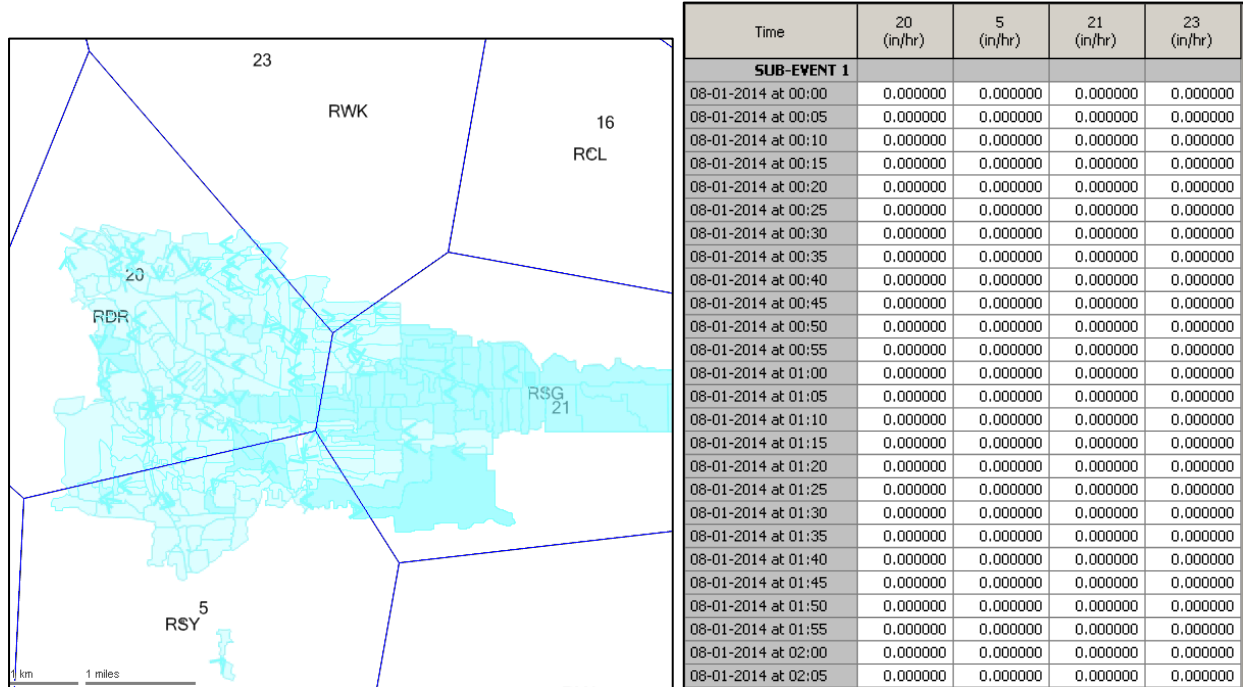
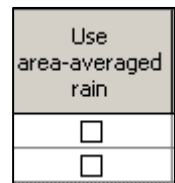


Figure B3. Confirm Rainfall Profile Names are Consistent with Precipitation Gauge Boundary Profile IDs

6. For subcatchments that lie within two or more precipitation gauge boundaries, the user can dictate whether the boundaries are assigned (A) based on the subcatchment’s centroid location or (B) using an area-averaged rainfall.

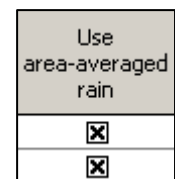
- A) In the Subcatchment Grid or Properties window, **un-check** the “**Use area-averaged rain**” option to toggle **off**. The precipitation gauge boundary that contains the centroid of the subcatchment will be used to provide rainfall data for the entire subcatchment. **This is the default and the recommended option.**

- i. The centroid is often defined by the x and y coordinates of the subcatchment.
- ii. If the subcatchment has no coordinates, ICM will use the coordinates of the drainage node.
- iii. If the drainage node has no coordinates, ICM will assume coordinates of 0, 0.
- iv. Simulations will fail if subcatchment centroids fall outside of the defined precipitation gauge boundary.



- B) In the Subcatchment Grid or Properties window, **check** the “**Use area-averaged rain**” option to toggle **on**. This will use data from all precipitation gauge boundaries that the subcatchment overlaps.

- i. Simulations will fail if the subcatchment falls wholly or partly outside any precipitation gauge boundary.
- ii. If the subcatchment does not have a boundary, the option is ignored.



-
- iii. The following variables are not area-averaged. Instead, the values are from the rainfall boundary that covers the greatest area of subcatchment.
 - Antecedent rainfall
 - Local evaporation
 - Evaporation from multiple evaporation profiles
 - Temperature from multiple temperature profiles
 - Runoff initial conditions
 7. **Run Simulation**
 - A) Open the Schedule Hydraulic Run View.
 - B) Add simulation components (e.g. model network, rainfall event, wastewater, etc.).
 - C) The rainfall event with linked precipitation gauge boundaries will automatically override rainfall profiles defined in the subcatchment properties.
 8. **QA/QC Hydrology**
 - A) Verify for a few subcatchments that the rainfall volume is consistent with the corresponding precipitation gauge's observed rainfall volume.

Appendix C: 2019 Qualitative Habitat Evaluation Index Sheets



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet

QHEI Score: 71

Stream & Location: Euclid Creek Ust of St. Claire Ave RM: 1.65 Date: 06/24/19

Seth Hoffman, Justin Telop **Scorers Full Name & Affiliation:** Northeast Ohio Regional Sewer District

River Code: 19-041-000 **STORET #:** 504250 **Lat./ Long.:** 41.5738 181.5470 (NAD 83 - decimal °) Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

<p>BEST TYPES</p> <input type="checkbox"/> BLDR/SLABS [10] <input checked="" type="checkbox"/> POOL RIFFLE <input checked="" type="checkbox"/> OTHER TYPES	<p>POOL RIFFLE</p> <input type="checkbox"/> HARDPAN [4] <input type="checkbox"/> DETRITUS [3] <input type="checkbox"/> MUCK [2] <input type="checkbox"/> SILT [2] <input type="checkbox"/> ARTIFICIAL [0]	<p>ORIGIN</p> <input type="checkbox"/> LIMESTONE [1] <input checked="" type="checkbox"/> SILT <input type="checkbox"/> TILLS [1] <input type="checkbox"/> WETLANDS [0] <input type="checkbox"/> HARDPAN [0] <input type="checkbox"/> SANDSTONE [0] <input type="checkbox"/> RIPIRAP [0] <input type="checkbox"/> LACUSTURINE [0] <input checked="" type="checkbox"/> SHALE [-1] <input type="checkbox"/> COAL FINES [-2]	<p>QUALITY</p> <input type="checkbox"/> HEAVY [-2] <input checked="" type="checkbox"/> MODERATE [-1] <input checked="" type="checkbox"/> NORMAL [0] <input type="checkbox"/> FREE [1] <input type="checkbox"/> EXTENSIVE [-2] <input type="checkbox"/> MODERATE [-1] <input checked="" type="checkbox"/> NORMAL [0] <input type="checkbox"/> NONE [1]
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Check ONE (Or 2 & average) **EMBEDDEDNESS**

NUMBER OF BEST TYPES: 4 or more [2] 3 or less [0] **Substrate**
14.5
Maximum 20

Comments: Moderate silt in pools, normal elsewhere

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

<p>UNDERCUT BANKS [1] <input type="checkbox"/></p> <p>OVERHANGING VEGETATION [1] <input type="checkbox"/></p> <p>SHALLOWS (IN SLOW WATER) [1] <input type="checkbox"/></p> <p>ROOTMATS [1] <input checked="" type="checkbox"/></p>	<p>POOLS > 70cm [2] <input checked="" type="checkbox"/></p> <p>ROOTWADS [1] <input type="checkbox"/></p> <p>BOULDERS [1] <input type="checkbox"/></p>	<p>AMOUNT Check ONE (Or 2 & average)</p> <input type="checkbox"/> EXTENSIVE >75% [11] <input type="checkbox"/> MODERATE 25-75% [7] <input checked="" type="checkbox"/> SPARSE 5-<25% [3] <input type="checkbox"/> NEARLY ABSENT <5% [1]
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Comments: One large pool in middle of site, smaller one at downstream end of zone

Cover
Maximum 20 7

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

<p>SINUOSITY</p> <input type="checkbox"/> HIGH [4] <input checked="" type="checkbox"/> MODERATE [3] <input type="checkbox"/> LOW [2] <input type="checkbox"/> NONE [1]	<p>DEVELOPMENT</p> <input type="checkbox"/> EXCELLENT [7] <input checked="" type="checkbox"/> GOOD [5] <input type="checkbox"/> FAIR [3] <input type="checkbox"/> POOR [1]	<p>CHANNELIZATION</p> <input checked="" type="checkbox"/> NONE [6] <input type="checkbox"/> RECOVERED [4] <input type="checkbox"/> RECOVERING [3] <input type="checkbox"/> RECENT OR NO RECOVERY [1]	<p>STABILITY</p> <input type="checkbox"/> HIGH [3] <input type="checkbox"/> MODERATE [2] <input type="checkbox"/> LOW [1]
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Comments:

Channel
Maximum 20 17

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

<p>EROSION</p> <input type="checkbox"/> NONE / LITTLE [3] <input checked="" type="checkbox"/> MODERATE [2] <input checked="" type="checkbox"/> HEAVY / SEVERE [1]	<p>RIPARIAN WIDTH</p> <input type="checkbox"/> WIDE > 50m [4] <input checked="" type="checkbox"/> MODERATE 10-50m [3] <input type="checkbox"/> NARROW 5-10m [2] <input type="checkbox"/> VERY NARROW < 5m [1] <input type="checkbox"/> NONE [0]	<p>FLOOD PLAIN QUALITY</p> <input type="checkbox"/> FOREST, SWAMP [3] <input type="checkbox"/> SHRUB OR OLD FIELD [2] <input checked="" type="checkbox"/> RESIDENTIAL, PARK, NEW FIELD [1] <input type="checkbox"/> FENCED PASTURE [1] <input type="checkbox"/> OPEN PASTURE, ROWCROP [0]	<p>CONSERVATION TILLAGE [1] <input type="checkbox"/> URBAN OR INDUSTRIAL [0] <input type="checkbox"/> MINING / CONSTRUCTION [0]</p>
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Comments: 1.75 3.25 0.5

Riparian
Maximum 10 5.5

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

<p>MAXIMUM DEPTH Check ONE (ONLY)</p> <input checked="" type="checkbox"/> > 1m [6] <input type="checkbox"/> 0.7-<1m [4] <input type="checkbox"/> 0.4-<0.7m [2] <input type="checkbox"/> 0.2-<0.4m [1] <input type="checkbox"/> < 0.2m [0]	<p>CHANNEL WIDTH Check ONE (Or 2 & average)</p> <input checked="" type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2] <input type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1] <input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<p>CURRENT VELOCITY Check ALL that apply</p> <input type="checkbox"/> TORRENTIAL [-1] <input checked="" type="checkbox"/> SLOW [1] <input type="checkbox"/> VERY FAST [1] <input type="checkbox"/> INTERSTITIAL [-1] <input checked="" type="checkbox"/> FAST [1] <input type="checkbox"/> INTERMITTENT [-2] <input checked="" type="checkbox"/> MODERATE [1] <input type="checkbox"/> EDDIES [1]	<p>Recreation Potential</p> <input checked="" type="checkbox"/> Primary Contact <input type="checkbox"/> Secondary Contact <small>(circle one and comment on back)</small>
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Comments:

Pool / Current
Maximum 12 11

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species: NO RIFFLE [metric=0]

<p>RIFFLE DEPTH</p> <input checked="" type="checkbox"/> BEST AREAS > 10cm [2] <input type="checkbox"/> BEST AREAS 5-10cm [1] <input type="checkbox"/> BEST AREAS < 5cm [metric=0]	<p>RUN DEPTH</p> <input type="checkbox"/> MAXIMUM > 50cm [2] <input checked="" type="checkbox"/> MAXIMUM < 50cm [1]	<p>RIFFLE / RUN SUBSTRATE</p> <input checked="" type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2] <input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1] <input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<p>RIFFLE / RUN EMBEDDEDNESS</p> <input type="checkbox"/> NONE [2] <input checked="" type="checkbox"/> LOW [1] <input type="checkbox"/> MODERATE [0] <input type="checkbox"/> EXTENSIVE [-1]
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Comments:

Riffle / Run
Maximum 8 6

6] GRADIENT 16.2 (ft/mi) VERY LOW - LOW [2-4] MODERATE [6-10] HIGH - VERY HIGH [10-6]

DRAINAGE AREA (21.8 mi²)

% POOL: 30 **% GLIDE:** 15 **% RUN:** 70 **% RIFFLE:** 40

Gradient
Maximum 10 10

Comment RE: Reach consistency/ Is reach typical of stream? Recreation/ Observed - Inferred, Other/ Sampling observations, Concerns, Access directions, etc.

AJ SAMPLED REACH

Check ALL that apply

METHOD

- BOAT
- WADE
- L. LINE
- OTHER

STAGE

- 1st-sample pass-- 2nd
- HIGH
- UP
- NORMAL
- LOW
- DRY

DISTANCE

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

CLARITY

- 1st --sample pass-- 2nd
- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/ CTB
- SECCHI DEPTH

meters

CANOPY

- > 85%- OPEN
- 55%-<85%
- 30%-<55%
- 10%-<30%
- <10%- CLOSED

CJ RECREATION

POOL: >100m² >3ft

BJ AESTHETICS

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- CSOs/SSOs/OUTFALLS

DJ MAINTENANCE

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAG / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMoured / SLUMPS
- ISLANDS / SCOURED
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

EJ ISSUES

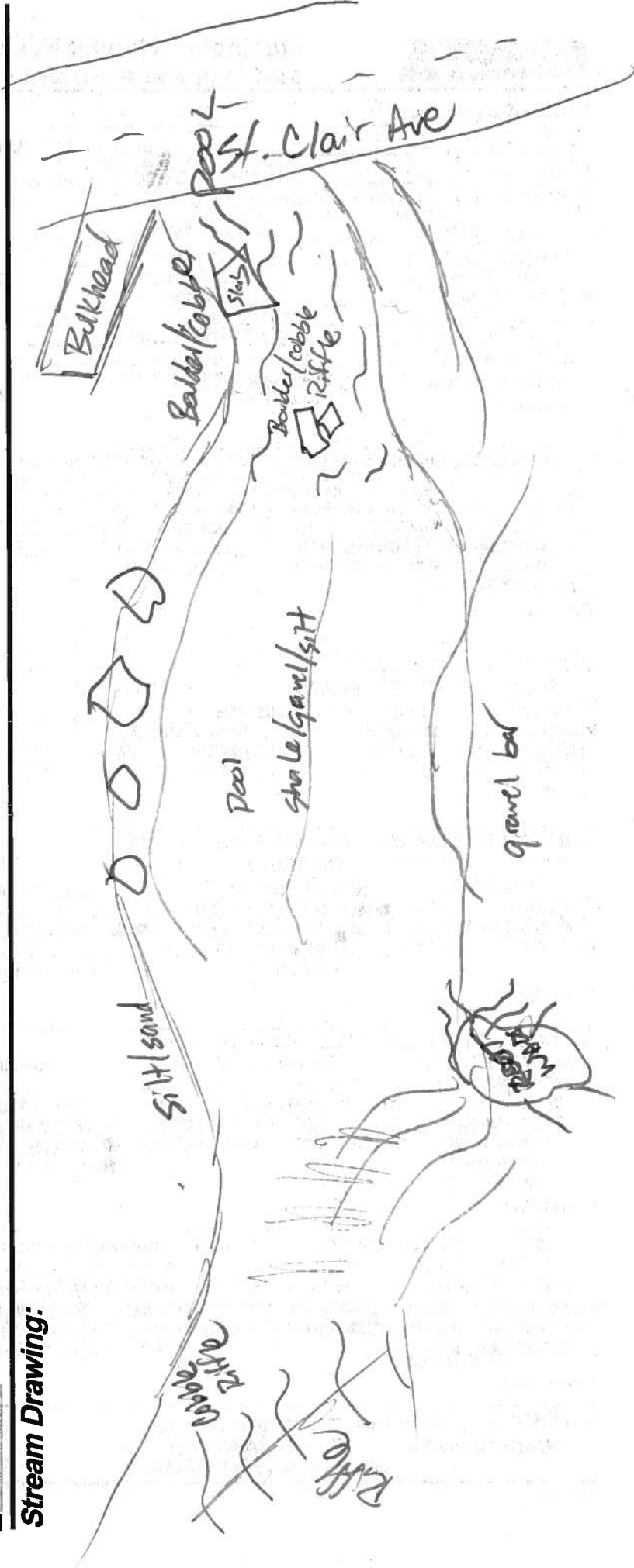
- WWTP / CSO / NPDES / INDUSTRY
- HARDENED / URBAN / DIRT&GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT
- LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SURFACE
- FALSE BANK / MANURE / LAGOON
- WASH H₂O / TILE / H₂O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

FJ MEASUREMENTS

- \bar{x} width
- \bar{x} depth
- max. depth
- \bar{x} bankfull width
- bankfull \bar{x} depth
- W/D ratio
- bankfull max. depth
- floodprone \bar{x} width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Flow →

Stream & Location: Euclid Creek Dst of Lakeshore Blvd RM: 0.55 Date: 06/24/19

S. Hothum K. Amidon Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District

River Code: 19-041-000 STORET #: P01 A47 Lat./ Long. 41.5833 81.5594 Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Substrate assessment section including categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes checkboxes for various substrate types and a score box for the final result (15).

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

Instream Cover assessment section including categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MACROPHYTES, LOGS OR WOODY DEBRIS. Includes checkboxes and a score box for the final result (10).

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

Channel Morphology assessment section including categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes checkboxes and a score box for the final result (12).

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

Bank Erosion and Riparian Zone assessment section including categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY. Includes checkboxes and a score box for the final result (4.75).

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

Pool / Glide and Riffle / Run Quality assessment section including categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY. Includes checkboxes and a score box for the final result (8).

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Riffle assessment section including categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes checkboxes and a score box for the final result (0).

6] GRADIENT (5.9 ft/mi) DRAINAGE AREA (23 mi^2) assessment section including categories: GRADIENT, DRAINAGE AREA, % POOL, % GLIDE, % RUN, % RIFFLE. Includes checkboxes and a score box for the final result (6).

AJ SAMPLED REACH

Check ALL that apply

METHOD

- BOAT
 - WADE
 - L. LINE
 - OTHER
- STAGE**
- 1st -sample pass-- 2nd
- HIGH
 - UP
 - NORMAL
 - LOW
 - DRY

DISTANCE

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

CLARITY

- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm / CTIB
- SECCHI DEPTH

meters

CANOPY 1st _____ cm

2nd _____ cm

- CJ RECREATION** AREA DEPTH
- POOL: >100ft² >3ft
- > 85%- OPEN
 - 66%-85%
 - 30%-66%
 - 10%-30%
 - <10%- CLOSED

CJ RECREATION

AREA DEPTH

POOL: >100ft² >3ft

BJ AESTHETICS

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- CSOs/SSOs/OUTFALLS

DJ MAINTENANCE

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAG / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMoured / SLUMPS
- ISLANDS / SCoured
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

Circle some & COMMENT

EJ ISSUES

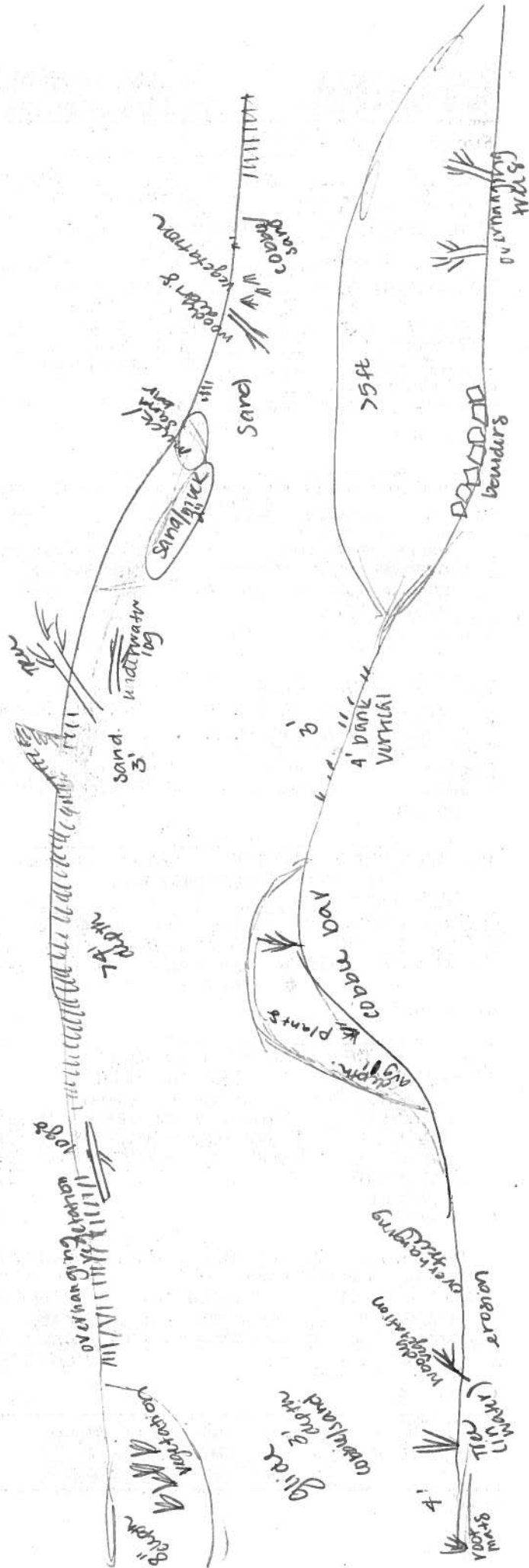
- WWTP / CSO / NPDES / INDUSTRY
- HARDENED / URBAN / DIRT&GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT
- LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SURFACE
- FALSE BANK / MANURE / LAGOON
- WASH H₂O / TILE / H₂O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

FJ MEASUREMENTS

- \bar{x} width
 - \bar{x} depth
 - max. depth
 - \bar{x} bankfull width
 - bankfull \bar{x} depth
 - W/D ratio
 - bankfull max. depth
 - floodprone \bar{x}^2 width
 - entrench. ratio
- Legacy Tree:

Stream Drawing:

← N ← FLOW



Stream & Location: Rocky River, West of Puritas RM: 8.30 Date: 08/28/19

Eric Soehlen Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District
River Code: 13-001-000 STORET #: 501810 Lat./Long.: 41.4354 187.8436 Office verified location

1) SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present. Includes categories: BEST TYPES, OTHER TYPES, ORIGIN, and QUALITY. Includes a 'Substrate' box with value 14 and 'Maximum 20'.

2) INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts; 2-Moderate amounts; 3-Highest quality. Includes categories: UNDERCUT BANKS, OVERHANGING VEGETATION, SHALLOWS, ROOTMATS, POOLS, ROOTWADS, BOULDERS, OXBOWS, BACKWATERS, AQUATIC MAGROPHYTES, LOGS OR WOODY DEBRIS. Includes an 'AMOUNT' box with value 6 and 'Maximum 20'.

3) CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average). Includes categories: SINUOSITY, DEVELOPMENT, CHANNELIZATION, STABILITY. Includes a 'Channel Maximum 20' box with value 14.5.

4) BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average). Includes categories: EROSION, RIPARIAN WIDTH, FLOOD PLAIN QUALITY, CONSERVATION TILLAGE, URBAN OR INDUSTRIAL, MINING / CONSTRUCTION. Includes a 'Riparian Maximum 10' box with value 7.

5) POOL / GLIDE AND RIFFLE / RUN QUALITY Includes categories: MAXIMUM DEPTH, CHANNEL WIDTH, CURRENT VELOCITY, and Recreation Potential. Includes a 'Pool / Current Maximum 12' box with value 5.

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species. Includes categories: RIFFLE DEPTH, RUN DEPTH, RIFFLE / RUN SUBSTRATE, RIFFLE / RUN EMBEDDEDNESS. Includes a 'Riffle / Run Maximum 8' box with value 6.

6) GRADIENT (6.13 ft/mi) DRAINAGE AREA (282 mi^2). Includes categories: VERY LOW - LOW, MODERATE, HIGH - VERY HIGH. Includes a 'Gradient Maximum 10' box with value 10.

AJ SAMPLED REACH

Check ALL that apply

METHOD

- BOAT
 - WADE
 - L LINE
 - OTHER
- DISTANCE**
- 0.5 Km
 - 0.2 Km
 - 0.15 Km
 - 0.12 Km
 - OTHER

STAGE

- 1st-sample pass-- 2nd
- HIGH
 - UP
 - NORMAL
 - LOW
 - DRY

CLARITY

- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm/CTB
- SECCHI DEPTH

CANOPY

- > 85% - OPEN
- 55% - 85%
- 30% - 55%
- 10% - 30%
- < 10% - CLOSED

BJAESTHETICS

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- CSOs/SOs/OUTFALLS

CJ RECREATION

AREA DEPTH POOL: >100ft >3ft

DJ MAINTENANCE

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAG / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMORED / SLUMPS
- ISLANDS / SCoured
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

Circle some & COMMENT

EJ ISSUES

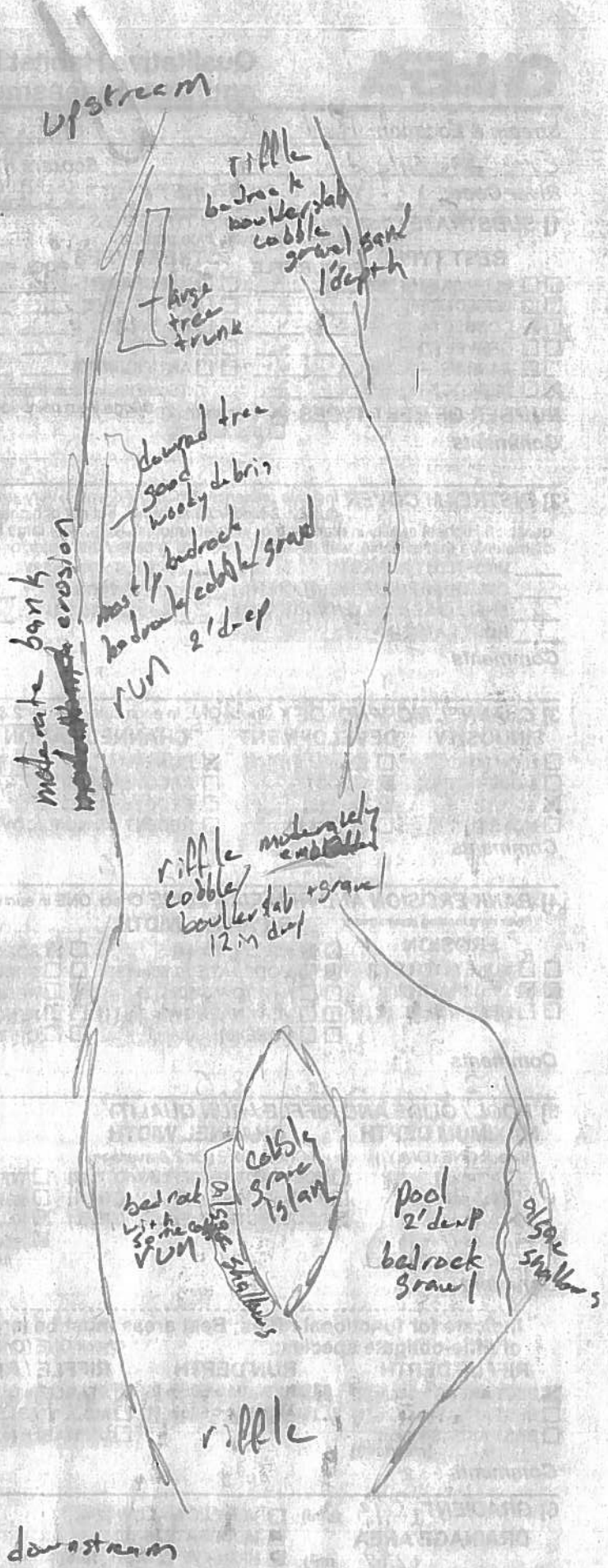
- WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SURFACE FALSE BANK / MANURE / LAGOON
- WASH H₂O / TILE / H₂O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

FJ MEASUREMENTS

- \bar{x} width
- \bar{x} depth
- max. depth
- \bar{x} bankfull width
- bankfull \bar{x} depth
- W/D ratio
- bankfull max. depth
- floodprone \bar{x}^2 width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Stream & Location: Rocky River Ust of Hilliard Boulevard RM: 250 Date: 8/28/19

Hother Boesinger Scorers Full Name & Affiliation: Northeast Ohio Regional Sewer District
 River Code: 13-001-000 STORET #: 101W04 Lat./ Long.: 41.4712181 82.3985 Office verified location

1] SUBSTRATE Check ONLY Two substrate TYPE BOXES; estimate % or note every type present

Check ONE (Or 2 & average)

<p>BEST TYPES</p> <input type="checkbox"/> BLDG/SLABS [10] <input type="checkbox"/> BOULDER [9] <input type="checkbox"/> COBBLE [8] <input type="checkbox"/> GRAVEL [7] <input type="checkbox"/> SAND [6] <input type="checkbox"/> BEDROCK [5]	<p>POOL RIFFLE</p> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<p>OTHER TYPES</p> <input type="checkbox"/> HARDPAN [4] <input type="checkbox"/> DETRITUS [3] <input type="checkbox"/> MUCK [2] <input type="checkbox"/> SILT [2] <input type="checkbox"/> ARTIFICIAL [0]	<p>POOL RIFFLE</p> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<p>ORIGIN</p> <input type="checkbox"/> LIMESTONE [4] <input type="checkbox"/> TILLS [1] <input type="checkbox"/> WETLANDS [0] <input type="checkbox"/> HARDPAN [0] <input type="checkbox"/> SANDSTONE [0] <input type="checkbox"/> RIPRAP [0] <input type="checkbox"/> LAGUSTURINE [0] <input type="checkbox"/> SHALE [1-1] <input type="checkbox"/> GOAL FINES [2]	<p>QUALITY</p> <input type="checkbox"/> HEAVY [4] <input type="checkbox"/> MODERATE [1-1] <input type="checkbox"/> NORMAL [0] <input type="checkbox"/> FREE [1] <input type="checkbox"/> EXTENSIVE [2] <input type="checkbox"/> MODERATE [1-1] <input type="checkbox"/> NORMAL [0] <input type="checkbox"/> NONE [1]	<p>EMBEDDEDNESS</p> <p>SILT</p>	<p>Substrate</p> <div style="border: 1px solid black; border-radius: 10px; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 17.5 </div> <p>Maximum 20</p>
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NUMBER OF BEST TYPES: 4 or more [2] 3 or less [0] (Score natural substrates; ignore sludge from point-sources)

Comments

2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common of marginal quality; 2-Moderate amounts, but not of highest quality or in small amounts of highest quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, large diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional pools.

AMOUNT

Check ONE (Or 2 & average)

<p><input type="checkbox"/> UNDERGUT BANKS [1] <input type="checkbox"/> OVERHANGING VEGETATION [1] <input type="checkbox"/> SPALLS (IN SLOW WATER) [1] <input type="checkbox"/> ROOTMATS [1]</p>	<p><input type="checkbox"/> POOLS > 70cm [2] <input type="checkbox"/> ROOTWADS [1] <input checked="" type="checkbox"/> BOULDERS [1]</p>	<p><input type="checkbox"/> OXBOWS, BACKWATERS [1] <input type="checkbox"/> AQUATIC MACROPHYTES [1] <input type="checkbox"/> LOGS OR WOODY DEBRIS [1]</p>	<p><input type="checkbox"/> EXTENSIVE >75% [1] <input type="checkbox"/> MODERATE 25-75% [1] <input type="checkbox"/> SPARSE 5-25% [3] <input type="checkbox"/> NEARLY ABSENT <5% [1]</p>
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Comments

Cover
Maximum 20 9

3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average)

<p>SINUOSITY</p> <input type="checkbox"/> HIGH [4] <input type="checkbox"/> MODERATE [3] <input checked="" type="checkbox"/> LOW [2] <input type="checkbox"/> NONE [1]	<p>DEVELOPMENT</p> <input checked="" type="checkbox"/> EXCELLENT [7] <input type="checkbox"/> GOOD [5] <input type="checkbox"/> FAIR [3] <input type="checkbox"/> POOR [1]	<p>CHANNELIZATION</p> <input type="checkbox"/> NONE [6] <input type="checkbox"/> RECOVERED [4] <input type="checkbox"/> RECOVERING [3] <input type="checkbox"/> RECENT OR NO RECOVERY [1]	<p>STABILITY</p> <input type="checkbox"/> HIGH [3] <input type="checkbox"/> MODERATE [2] <input type="checkbox"/> LOW [1]
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Comments

Channel
Maximum 20 16.5

4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or 2 per bank & average)

<p>River right looking downstream</p> <p>EROSION</p> <input checked="" type="checkbox"/> NONE / LITTLE [3] <input type="checkbox"/> MODERATE [2] <input type="checkbox"/> HEAVY / SEVERE [1]	<p>RIPARIAN WIDTH</p> <input type="checkbox"/> WIDE > 50m [4] <input type="checkbox"/> MODERATE 10-50m [3] <input type="checkbox"/> NARROW 5-10m [2] <input type="checkbox"/> VERY NARROW < 5m [1] <input type="checkbox"/> NONE [0]	<p>FLOOD PLAIN QUALITY</p> <input type="checkbox"/> FOREST SWAMP [3] <input type="checkbox"/> SHRUB OR OLD FIELD [2] <input type="checkbox"/> RESIDENTIAL PARK, NEW FIELD [1] <input type="checkbox"/> FENCED PASTURE [1] <input type="checkbox"/> OPEN PASTURE, ROWCROP [0]	<p><input type="checkbox"/> CONSERVATION TILLAGE [1] <input type="checkbox"/> URBAN OR INDUSTRIAL [0] <input type="checkbox"/> MINING / CONSTRUCTION [0]</p>
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Indicate predominant land use(s) past 100m riparian.

Comments

Riparian
Maximum 10 7.5

5] POOL / GLIDE AND RIFFLE / RUN QUALITY

<p>MAXIMUM DEPTH Check ONE (ONLY)</p> <input type="checkbox"/> > 1m [3] <input type="checkbox"/> 0.7-1m [4] <input type="checkbox"/> 0.4-0.7m [2] <input type="checkbox"/> 0.2-0.4m [1] <input type="checkbox"/> < 0.2m [0]	<p>CHANNEL WIDTH Check ONE (Or 2 & average)</p> <input type="checkbox"/> POOL WIDTH > RIFFLE WIDTH [2] <input type="checkbox"/> POOL WIDTH = RIFFLE WIDTH [1] <input type="checkbox"/> POOL WIDTH < RIFFLE WIDTH [0]	<p>CURRENT VELOCITY Check ALL that apply</p> <input type="checkbox"/> TORRENTIAL [1-1] <input type="checkbox"/> VERY FAST [1] <input type="checkbox"/> FAST [0] <input type="checkbox"/> MODERATE [1]	<p><input type="checkbox"/> SLOW [1] <input type="checkbox"/> INTERSTITIAL [1-1] <input type="checkbox"/> INTERMITTENT [2-2] <input type="checkbox"/> EDDIES [0]</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Indicate for reach - pools and riffles.

Comments

Recreation Potential
Primary Contact
Secondary Contact
 (circle one and comment on back)

Pool / Current
Maximum 12 9

Indicate for functional riffles; Best areas must be large enough to support a population of riffle-obligate species:

Check ONE (Or 2 & average).

NO RIFFLE [metric=0]

<p>RIFFLE DEPTH</p> <input type="checkbox"/> BEST AREAS > 10cm [2] <input type="checkbox"/> BEST AREAS 5-10cm [1] <input type="checkbox"/> BEST AREAS < 5cm [metric=0]	<p>RUN DEPTH</p> <input type="checkbox"/> MAXIMUM > 50cm [2] <input type="checkbox"/> MAXIMUM < 50cm [1]	<p>RIFFLE / RUN SUBSTRATE</p> <input type="checkbox"/> STABLE (e.g., Cobble, Boulder) [2] <input type="checkbox"/> MOD. STABLE (e.g., Large Gravel) [1] <input type="checkbox"/> UNSTABLE (e.g., Fine Gravel, Sand) [0]	<p>RIFFLE / RUN EMBEDDEDNESS</p> <input type="checkbox"/> NONE [2] <input type="checkbox"/> LOW [1] <input type="checkbox"/> MODERATE [0] <input type="checkbox"/> EXTENSIVE [1]
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Comments

Riffle / Run
Maximum 8 6

6] GRADIENT (8.77 ft/mi) VERY LOW - LOW [2-4] MODERATE [6-10] HIGH - VERY HIGH [10-5]

DRAINAGE AREA (292 mi²)

% POOL: % GLIDE:
 % RUN: % RIFFLE:

Gradient
Maximum 10 10

Comment RE: Reach consistency/Is reach typical of stream?, Recreation/Observed - Inferred, Other/Sampling observations, Concerns, Access directions, etc.

AJ SAMPLED REACH

Check ALL that apply

METHOD

- BOAT
- WADE
- L. LINE
- OTHER

STAGE

- HIGH
- UP
- NORMAL
- LOW
- DRY

DISTANCE

- 0.5 Km
- 0.2 Km
- 0.15 Km
- 0.12 Km
- OTHER

CLARITY

- 1st --sample pass-- 2nd
- < 20 cm
- 20-40 cm
- 40-70 cm
- > 70 cm / OTB
- SECHI DEPTH

meters

CANOPY

- > 85% OPEN
- 65% - 85%
- 30% - 65%
- 10% - 30%
- < 10% CLOSED

CJ RECREATION

AREA DEPTH POOL: > 100ft² > 3ft

BJ AESTHETICS

- NUISANCE ALGAE
- INVASIVE MACROPHYTES
- EXCESS TURBIDITY
- DISCOLORATION
- FOAM / SCUM
- OIL SHEEN
- TRASH / LITTER
- NUISANCE ODOR
- SLUDGE DEPOSITS
- GROSS S/Ss / OUTFALLS

DJ MAINTENANCE

- PUBLIC / PRIVATE / BOTH / NA
- ACTIVE / HISTORIC / BOTH / NA
- YOUNG-SUCCESSION-OLD
- SPRAY / SNAG / REMOVED
- MODIFIED / DIPPED OUT / NA
- LEVEED / ONE SIDED
- RELOCATED / CUTOFFS
- MOVING-BEDLOAD-STABLE
- ARMoured / SLUMPS
- ISLANDS / SCoured
- IMPOUNDED / DESICCATED
- FLOOD CONTROL / DRAINAGE

EJ ISSUES

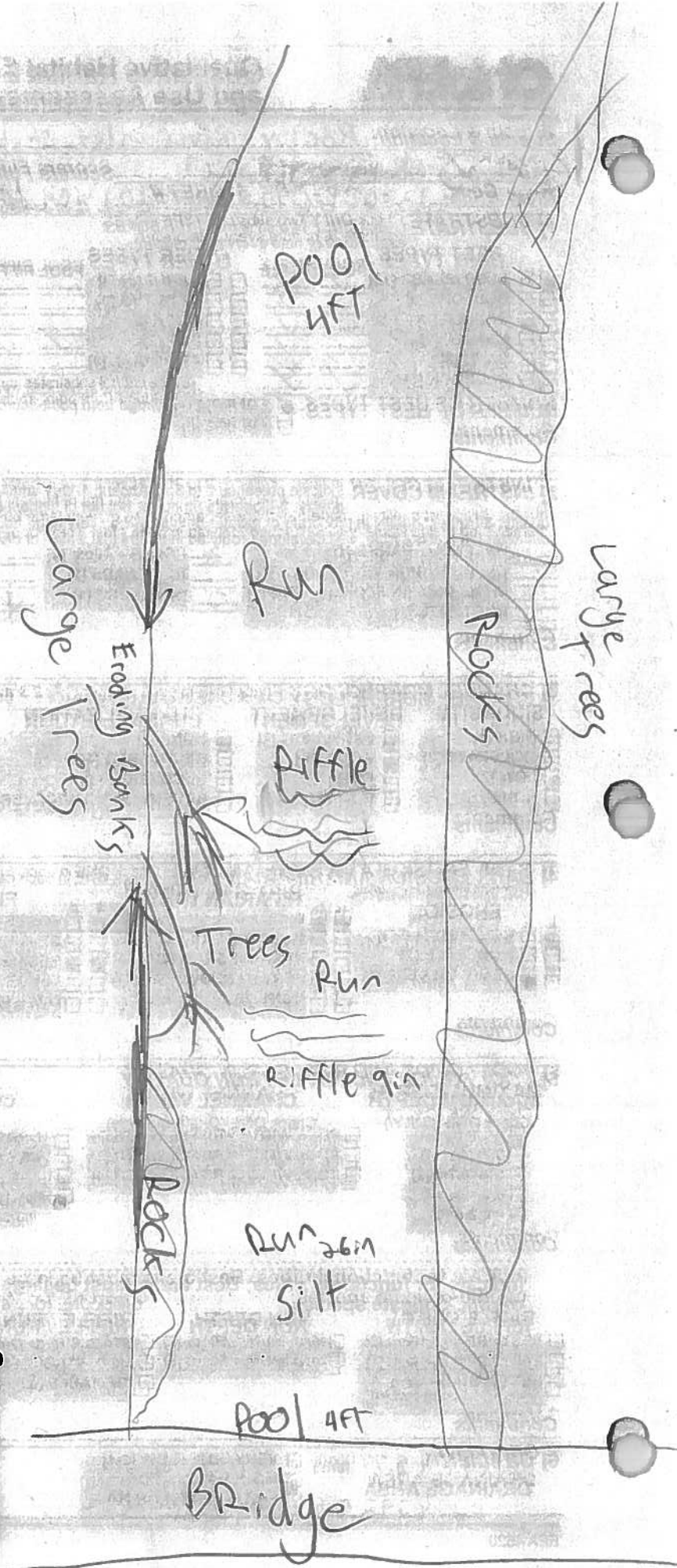
- WWTP / CSO / NPDES / INDUSTRY
- HARDENED / URBAN / DIRT & GRIME
- CONTAMINATED / LANDFILL
- BMPs-CONSTRUCTION-SEDIMENT
- LOGGING / IRRIGATION / COOLING
- BANK / EROSION / SURFACE
- FALSE BANK / MANURE / LAGOON
- WASH H₂O / TILE / H₂O TABLE
- ACID / MINE / QUARRY / FLOW
- NATURAL / WETLAND / STAGNANT
- PARK / GOLF / LAWN / HOME
- ATMOSPHERE / DATA PAUCITY

FJ MEASUREMENTS

- width
- depth
- max. depth
- bankfull width
- bankfull x depth
- W/D ratio
- bankfull max. depth
- floorprope x width
- entrench. ratio

Legacy Tree:

Stream Drawing:



Appendix D: 2019 Macroinvertebrate Field Sheets and Results

NEORS Macroinvertebrate Field Sheet

Stream: Euclid Creek, Main Branch River Mile: 1165 Year: 2019
 Location: US of St. Clair Avenue Project: 2019 Euclid Creek Environmental Monitoring
 Drainage Area (mi²): 21.8 Latitude (°N)/Longitude (°W): 41.5741, -81.5467
 Site Type: WWH EWH Coldwater Lacustrary Other: _____ Eco-Region: EOLP

Hester-Dendy Deployment Information

Install Date: 6/19/19 Crew (QDC Circled): Hothen/Bresinger/Johnson
 Current at HD (fps): 11 Depth (cm): 27 Pictures Obtained: Yes No
 Replicate/Reinstall Date: _____ Crew (QDC Circled): _____
 Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____
 Sampling Date: 8/5/19 Crew (QDC Circled): Nothen/Dreyfuss/Bayer
 OEPA Comment Field Codes: _____ Water Temp: _____ °C / °F

HD Condition- Current (fps): 0.49 Depth (cm): 15 Comments: _____
 Number of HD Blocks Obtained: 5
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: 19H015

Replicate: Current (fps): _____ Depth (cm): _____ Comments: _____
 Number of HD Blocks Obtained: _____
 Disturbed: Yes No Debris: Yes No
 Silt Solids: None Slight Moderate Heavy Sample ID: _____

Dipnet- Time Sampled (min): 35 X Number of Crew: 3 = Total (min): 105
 Start Time: 1425 End Time: 1450 Sample ID: 19Q016
 Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____
 Canopy (over HD): Open 75 % 50 % 25 % Closed
 Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood
 Current Velocity: Non-detect Slow Moderate Fast
 Channel Morphology: Natural Channelized Channelized (Recovered) Impounded
 Bank Erosion: None Slight Moderate Extensive
 Water Clarity: Clear Muddy Tea Milky Other: _____
 Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____
 Potential Pollution Sources: CSOs from Euclid, illicit discharges

Comment Section: _____

Samples Analyzed By: Marty Soren QDC #: 00026 Date: 01/24/2020
 Company/Entity: EA Engineering

NEORS Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

Cobble is up to 10 in

	Riffle	Run	Pool
	Units	Units	Units
Bedrock		X	X
Boulder	X	X	X
Cobble/Rubble	X	X	
Gravel Course	X	X	X
Gravel Fine	X	X	
Sand	X	X	X
Silt			
Clay/Hardpan			
Detritus			
Peat			
Muck			
Other			
Macrophytes			
Algae			
Artifacts	X	X	
Compaction (F,M,S)	F	F	M
Depth (Avg)	10in	1.5ft	2ft
Width (Avg)	15ft	15ft	15ft

Coarse Gravel

Fine Gravel

Predominant Land Use (Indicate Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	<u>Residential/Park</u>	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type	Riffle Habitat
		Large Trees	Embedded: Yes No
		Small Trees	Development:
		Shrubs	Extensive
		Grass/Weeds	Moderate
		None	Sparse
		Riparian Width	Absent
			Quality: Good Fair Poor

Margin Habitat

Margin Quality: Good Fair Poor %

Types Present:

Root Mats	Undercut Banks	Rip Rap
Tree Roots	Shallows	Bulkhead
<u>Woody Debris</u>	Soft Clay	
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

Est. Amt (V=>151, A= 150-101, C= 100-11, R= 10-1)

/	Porifera, Bryozoa
C	Turbellaria, Oligochaeta, Hirudinea
R R	Isopoda, Amphipoda
R	Decapoda, Hydracarina
	Ephemeroptera
A	Baetidae
R	Heptageniidae, Leptoxyphidae, Caenidae
	Other _____
R	Zygotera, Anisoptera
	Plecoptera
	Hemiptera
/	Megaloptera, Neuroptera
R	Trichoptera
A	Hydropsychidae
/	Hydroptilidae, Leptoceridae
	Other _____
	Coleoptera
C-	Elmidae
	Other _____
	Diptera
C	Chironomidae
/	Tipulidae, Simuliidae
	Other _____
/	Gastropoda, Bivalvia
	Other _____

Habitat Specific Organisms

Riffle: _____ %

Predominant Organism: Baetids

Other Common Organisms: Hydropsychids

Density: High Moderate Low

Diversity: High Moderate Low

Run: _____ %

Predominant Organism: Baetids

Other Common Organisms: Hydropsychids

Density: High Moderate Low

Diversity: High Moderate Low

Pool: _____ %

Predominant Organism: Baetids

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin: _____ %

Predominant Organism: Baetids

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

V= Very Abundant, A= Abundant, C= Common, R= Rare

Field Narrative Rating:

E VG G MG F P VP

NEORSD Macroinvertebrate Field Sheet

Stream: Euclid Creek Main Branch River Mile: 0.55 Year: 2019
 Location: DS of Lakeshore Blvd. Project: 2019 Euclid Creek Environmental Monitoring
 Drainage Area (mi²): 23 Latitude (°N)/Longitude (°W): 41.5840, -81.5601
 Site Type: WWH EWH Coldwater Lacustrary Other: _____ Eco-Region: EOLP

Hester-Dendy Deployment Information

Install Date: 6/19/19 Crew (QDC Circled): Hotham/Bessinger/Johnson
 Current at HD (fps): 0.08 Depth (cm): 15 Pictures Obtained: Yes No
 Replicate/Reinstall Date: _____ Crew (QDC Circled): _____
 Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____
 Sampling Date: 8/5/19 Crew (QDC Circled): Hotham/Dreyfuss/Bayer
 OEPA Comment Field Codes: _____ Water Temp: _____ °C / °F

HD Condition- Current (fps): -0.1 Depth (cm): 42 Comments: Backflow from lake
 Number of HD Blocks Obtained: 5
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: 19H017

Replicate: Current (fps): _____ Depth (cm): _____ Comments: _____
 Number of HD Blocks Obtained: _____
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: _____

Dipnet: Time Sampled (min): 35 X Number of Crew: 3 = Total (min): 105
 Start Time: 1315 End Time: 1350 Sample ID: 19Q018
 Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____
 Canopy (over HD): Open 75 % 50 % 25 % Closed
 Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood
 Current Velocity: Non-detec Slow Moderate Fast
 Channel Morphology: Natural Channelized Channelized (Recovered) Impounded
 Bank Erosion: None Slight Moderate Extensive
 Water Clarity: Clear Muddy Tea Milky Other: _____
 Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____

Potential Pollution Sources: CSOs

Comment Section: _____

Samples Analyzed By: Marty Green QDC #: 60026 Date: 01/24/2020
 Company/Entity: EA Engineering

NEORS Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

Cobble is up to 10 in	Bedrock				
	Boulder				
	Cobble/Rubble				
	Gravel	Course			
		Fine			
	Sand				
	Silt				
	Clay/Hardpan				
	Detritus				
	Peat				
Muck					
Coarse Gravel	Other				
	Macrophytes				
	Algae				
	Artifacts				
	Compaction (F,M,S)				
Fine Gravel	Depth (Avg)				
	Width (Avg)				

Predominant Land Use (Indicate Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	<u>Residential/Park</u>	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type	Riffle Habitat Embedded: Yes No Development: _____ Extensive Moderate Sparse Absent
		Large Trees	
		Small Trees	
		Shrubs	
		Grass/Weeds	
		None	Quality: _____ Good Fair Poor
		Riparian Width	

Margin Habitat

Margin Quality: Good Fair Poor _____ %

Types Present:

Root Mats	Undercut Banks	Rip Rap
Tree Roots	Shallows	Bulkhead
Woody Debris	Soft Clay	
<u>Macrophytes/Grass</u>	Other _____	

Overall Collection
(V = >151, A = 150-101, C = 100-11, R = 10-1)

Est. Amt	Porifera, Bryozoa
A/C	Turbellaria, Oligochaeta, Hirudinea
R/C	Isopoda, Amphipoda
/	Decapoda, Hydracarina
	Ephemeroptera
R	Baetidae
/	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
R R	Zygoptera, Anisoptera
	Plecoptera
	Hemiptera
/	Megaloptera, Neuroptera
	Trichoptera
R	Hydropsychidae
/	Hydroptilidae, Leptoceridae
	Other _____
	Coleoptera
R	Elmidae
	Other _____
	Diptera
C+	Chironomidae
/	Tipulidae, Simuliidae
	Other _____
/	Gastropoda, Bivalvia
	Other _____

Biological Characteristics

Habitat Specific Organisms

Riffle: 0 %

Predominant Organism: _____

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Run: 0 %

Predominant Organism: _____

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Pool: 100 %

Predominant Organism: Turbellaria

Other Common Organisms: Chironomids

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Turbellaria

Other Common Organisms: Chironomids, Hirudinea

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

V = Very Abundant, A = Abundant, C = Common, R = Rare

Field Narrative Rating:

E VG G MG F P VP

NEORS D Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 8.30 Year: 2019
 Location: US of Puritas Avenue Project: 2019 Rocky River Environmental Monitoring
 Drainage Area (mi²): 282 Latitude (°N)/Longitude (°W): 41.43541, -81.84358
 Site Type: WWH EWH Coldwater Lacustrary Other: _____ Eco-Region: EOLP

Hester-Dendy Deployment Information

Install Date: 6/28/19 Crew (QDC Circled): (E. Seeholzer) T. Walsh
 Current at HD (fps): 1.7 Depth (cm): 12 Pictures Obtained: Yes No
 Replicate/Reinstall Date: _____ Crew (QDC Circled): _____
 Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____
 Sampling Date: 8/26/19 Crew (QDC Circled): Seeholzer/Boezinger
 OEPA Comment Field Codes: _____ Water Temp: 18.8 °C/°F

HD Condition- Current (fps): 1.09 Depth (cm): 8cm Comments: Remained late
 Number of HD Blocks Obtained: 5 due to heavy rains on 1
 Disturbed: Yes No Debris: Yes No high flows
 Silt/Solids: None Slight Moderate Heavy Sample ID: 19H037

Replicate: Current (fps): _____ Depth (cm): _____ Comments: _____
 Number of HD Blocks Obtained: _____
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: _____

Dipnet- Time Sampled (min): 90 X Number of Crew: 2 = Total (min): 180
 Start Time: 9:20 End Time: 10:50 Sample ID: 19Q038
 Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____
 Canopy (over HD): Open 75 % 50 % 25 % Closed
 Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood
 Current Velocity: Non-detect Slow Moderate Fast
 Channel Morphology: Natural Channelized Channelized (Recovered) Impounded
 Bank Erosion: None Slight Moderate Extensive
 Water Clarity: Clear Muddy Tea Milky Other: _____
 Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: Heavy siltation possibly organic from CSOs
 Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Marty Green QDC #: 00026 Date: 01/24/2020
 Company/Entity: EA Engineering

NEORSD Macroinvertebrate Field Sheet

Substrate Characteristics

Cobble is up to 1.0 in

Coarse Gravel

Fine Gravel

	Riffle	Run	Pool
Bedrock	X	X	
Boulder	X	X	
Cobble/Rubble	X	X	
Gravel Course	X	X	
Gravel Fine	X	X	
Sand	X	X	
Silt	X	X	
Clay/Hardpan			
Detritus	K	X	
Peat			
Muck		X	
Other			
Macrophytes			
Algae	X	X	
Artifacts			
Compaction (F,M,S)	F	F	
Depth (Avg)	1A	2A	
Width (Avg)			

Physical Characteristics

Predominant Land Use (Indicate Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	Residential/Park	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other

Predominant Riparian Vegetation

Left	Right	Type
X	X	Large Trees
X	X	Small Trees
		Shrubs
X	X	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No

Development:

X	Extensive
	Moderate
	Sparse
	Absent

Quality: Good Fair Poor

Margin Habitat

Margin Quality: Good Fair Poor 5-10%

Types Present:

X	Root Mats
	Tree Roots
	Woody Debris
X	Macrophytes/Grass
	Undercut Banks
	Shallows
	Soft Clay
	Other

Overall Collection

Est. Amt (V=>151, A= 150-101, C= 100-11, R= 10-1)

Est. Amt	Group
R/R	Porifera, Bryozoa
A/R/R	Turbellaria, Oligochaeta, Hirudinea
R/R	Isopoda, Amphipoda
R	Decapoda, Hydracarina
	Ephemeroptera
A	Baetidae
C/R	Heptageniidae, Leptohyphidae, Caenidae
	Other
C/R	Zygoptera, Anisoptera
	Plecoptera
	Hemiptera
	Megaloptera, Neuroptera
	Trichoptera
C	Hydropsychidae
	Hydroptilidae, Leptoceridae
C	Other <u>Philopotamidae</u>
	Coleoptera
C-	Elimidae
C/R	Other <u>Helophidae/dytiscidae</u>
	Diptera
R+	Chironomidae
C	Tipulidae, Simuliidae
	Other
R/C	Gastropoda, Bivalvia
	Other

Biological Characteristics

Riffle: 50 %

Predominant Organism: Baetidae

Other Common Organisms: Hydropsychidae

Density: High Moderate Low

Diversity: High Moderate Low

Run: 50 %

Predominant Organism: Platworm

Other Common Organisms: Heptageniidae

Density: High Moderate Low

Diversity: High Moderate Low

Pool: X %

Predominant Organism: _____

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Pamph. Ph.

Other Common Organisms: Helophidae

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

V= Very Abundant, A= Abundant, C= Common, R= Rare

Field Narrative Rating:

E VG G MG F P VP

NEORS D Macroinvertebrate Field Sheet

Stream: Rocky River River Mile: 2.50 Year: 2019
 Location: US of Hilliard Road Project: 2019 Rocky River Environmental Monitoring
 Drainage Area (mi²): 292 Latitude (°N)/Longitude (°W): 41.4713, -81.7425
 Site Type: WWH EWH Coldwater Lacustrary Other: _____ Eco-Region: GLP

Hester-Dendy Deployment Information

Install Date: 6/28/19 Crew (QDC Circled): (E. Seeholzer) T. Walsh
 Current at HD (fps): 1.5 Depth (cm): 24 Pictures Obtained: Yes No
 Replicate/Reinstall Date: _____ Crew (QDC Circled): _____
 Current (fps): _____ Depth (cm): _____ Reason: _____

Sampling/Retrieval Information

Sampling Method: Hester-Dendy Dipnet Ekman (6x6) Other: _____
 Sampling Date: 8/13/19 Crew (QDC Circled): E. Seeholzer, D. Phillips
 OEPA Comment Field Codes: _____ Water Temp: ? °C / °F *thermometer broken*

HD Condition- Current (fps): 0.37 Depth (cm): 5 Comments: _____
 Number of HD Blocks Obtained: 5
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: 19H041

Replicate: Current (fps): _____ Depth (cm): _____ Comments: _____
 Number of HD Blocks Obtained: _____
 Disturbed: Yes No Debris: Yes No
 Silt/Solids: None Slight Moderate Heavy Sample ID: _____

Dipnet- Time Sampled (min): 100 X Number of Crew: 2 = Total (min): 200
 Start Time: 9:40am End Time: 11:20am Sample ID: 19Q042
 Habitats Sampled: Pool Riffle Run Margin Backwater

River Sampling Conditions

Weather: Clear Partly Cloudy Overcast Light Rain Other: _____
 Canopy (over HD): Open 75 % 50 % 25 % Closed
 Flow Condition: Dry Intermittent Interstitial Low Normal Above Normal Flood
 Current Velocity: Non-detect Slow Moderate Fast
 Channel Morphology: Natural Channelized Channelized (Recovered) Impounded
 Bank Erosion: None Slight Moderate Extensive
 Water Clarity: Clear Muddy Tea Milky Other: _____
 Water Color: None Green Brown Grey Other: _____

Evidence of Pollution: _____
 Potential Pollution Sources: _____

Comment Section: _____

Samples Analyzed By: Marty Sporn QDC #: 00026 Date: 01/24/2020
 Company/Entity: EA Engineering

9:10 to 11:20 = 200 mins

NEORSD Macroinvertebrate Field Sheet

Physical Characteristics

Substrate Characteristics

Cobble is up to 10 in

Coarse Gravel

Fine Gravel

	Riffle	Run	Pool
Bedrock			
Boulder	X		
Cobble/Rubble	X	X	
Gravel Course	X	X	
Gravel Fine	X	X	
Sand	X	X	
Silt	X	X	
Clay/Hardpan			
Detritus			
Peat			
Muck			
Other			
Macrophytes			
Algae	X	X	
Artifacts	X	X	
Compaction (F,M,S)	X	X	
Depth (Avg)	16"	20"	
Width (Avg)	100"	120"	

Predominant Land Use (Indicate Left, Right or Both)

Forest	Urban	Open Pasture
Shrub	<u>Residential/Park</u>	Closed Pasture
Old Field	Mining/Construction	Wetland
Rowcrop	Industrial	Other _____

Predominant Riparian Vegetation

Left	Right	Type
X	X	Large Trees
X	X	Small Trees
X	X	Shrubs
X	X	Grass/Weeds
		None
		Riparian Width

Riffle Habitat

Embedded: Yes No

Development: Extensive
 Moderate
 Sparse
 Absent

Quality: Good Fair Poor

Margin Habitat

Margin Quality: Good Fair Poor 55%

Types Present:

<u>Root Mats</u>	Undercut Banks	Rip Rap
Tree Roots	Shallows	Bulkhead
Woody Debris	Soft Clay	
Macrophytes/Grass	Other _____	

Biological Characteristics

Overall Collection

Est. Amt (V=>151, A= 150-101, C= 100-11, R= 10-1)

R/R	Porifera, Bryozoa
C/C/C	Turbellaria, Oligochaeta, Hirudinea
C/C	Isopoda, Amphipoda
R/R	Decapoda, Hydracarina
	Ephemeroptera
V	Baetidae
C/R/R	Heptageniidae, Leptohyphidae, Caenidae
	Other _____
R/R	Zygoptera, Anisoptera
	Plecoptera
R	Hemiptera - <u>Nepidae</u>
	Megaloptera, Neuroptera
	Trichoptera
C	Hydropsychidae
I/R	Hydroptilidae, Leptoceridae
A/A	Other <u>Polycentropodidae</u>
	Coleoptera <u>Philopotamidae</u>
C-	Elimidae
	Other _____
	Diptera
C	Chironomidae
I/R	Tipulidae, Simuliidae
	Other _____
R/R	Gastropoda, Bivalvia
	Other _____

Habitat Specific Organisms

Riffle: 50 %

Predominant Organism: Baetidae

Other Common Organisms: Philopotamidae

Density: High Moderate Low

Diversity: High Moderate Low

Run: 50 %

Predominant Organism: Heptageniidae

Other Common Organisms: Heptageniidae

Density: High Moderate Low

Diversity: High Moderate Low

Pool: _____ %

Predominant Organism: _____

Other Common Organisms: _____

Density: High Moderate Low

Diversity: High Moderate Low

Margin:

Predominant Organism: Amphods

Other Common Organisms: Isopod

Density: High Moderate Low

Diversity: High Moderate Low

Other Notable Collections: _____

V= Very Abundant, A= Abundant, C= Common, R= Rare

Field Narrative Rating:

E VG G MG F P VP

Euclid Creek Downstream of Lakeshore Boulevard

River Mile: 0.55
Drainage Area: 23.0 miles²

OEPA

Taxa Code	Species	Number	
		HD	Qual
1801	Turbellaria	290	+
3600	Oligochaeta	6701	+
4935	Erpobdella punctata punctata		+
5800	Caecidotea sp	34	+
6201	Hyalella sp	1	+
6700	Crangonyx sp		+
11120	Baetis flavistriga		+
13521	Stenonema femoratum	2	
17200	Caenis sp	1	+
22001	Coenagrionidae		+
22300	Argia sp	1	
23600	Aeshna sp		+
51610	Polycentropus sp	2	
52530	Hydropsyche depravata group		+
53800	Hydroptila sp	1	
60900	Peltodytes sp		+
69400	Stenelmis sp	32	
72340	Dixella sp		+
77120	Ablabesmyia mallochii	205	
78140	Labrundinia pilosella	38	
78650	Procladius sp	38	+
79100	Thienemannimyia group	205	+
80350	Corynoneura sp	85	
80420	Cricotopus (C.) bicinctus	364	+
80510	Cricotopus (Isocladius) sylvestris group		+
82141	Thienemanniella xena	38	
82820	Cryptochironomus sp	38	+
83003	Dicrotendipes fumidus		+
83040	Dicrotendipes neomodestus	568	
84200	Paratendipes sp	523	
84450	Polypedilum (Uresipedilum) flavum	606	
84470	Polypedilum (P.) illinoense		+
84520	Polypedilum (Tripodura) halterale group	83	
84540	Polypedilum (Tripodura) scalaenum group		+
84800	Tribelos jucundum	121	
85500	Paratanytarsus sp	242	
85814	Tanytarsus glabrescens group	568	
	Number of Organisms	10787	
	ICI Score	18	
	Number of Quantitative Taxa	25	
	Number of Qualitative Taxa	21	
	Number of Qualitative EPT Taxa	3	
	Total Number of Taxa	37	

Euclid Creek Upstream of St. Clair Avenue

River Mile: 1.65
Drainage Area: 21.8 miles²

OEPA

Taxa Code	Species	Number	
		HD	Qual
1801	Turbellaria	224	+
3600	Oligochaeta	160	+
4935	Erpobdella punctata punctata	16	
5800	Caecidotea sp	49	+
6700	Crangonyx sp		+
11120	Baetis flavistriga	446	+
11130	Baetis intercalaris	1454	+
13521	Stenonema femoratum	3	+
17200	Caenis sp		+
22001	Coenagrionidae		+
50315	Chimarra obscura		+
52200	Cheumatopsyche sp	225	+
52430	Ceratopsyche morosa group	194	+
52530	Hydropsyche depravata group	1595	+
53800	Hydroptila sp	32	
69400	Stenelmis sp	96	+
74100	Simulium sp	32	+
77120	Ablabesmyia mallochii	65	+
78140	Labrundinia pilosella	130	
78450	Nilotanytus fimbriatus	195	
78650	Procladius sp		+
79100	Thienemannimyia group	260	
79400	Zavrelimyia (Z.) sp	65	
80350	Corynoneura sp	256	
80420	Cricotopus (C.) bicinctus	325	+
80430	Cricotopus (C.) tremulus group		+
80440	Cricotopus (C.) trifascia	65	
81825	Rheocricotopus (Psilocricotopus) robacki	455	
82141	Thienemanniella xena	512	
82220	Tvetenia discoloripes group	130	
82700	Chironomus sp		+
83003	Dicrotendipes fumidus	195	+
84200	Paratendipes sp	65	+
84280	Phaenopsectra sp or Tribelos sp		+
84315	Phaenopsectra flavipes	65	
84450	Polypedilum (Uresipedilum) flavum	909	
84460	Polypedilum (P.) fallax group	195	
84800	Tribelos jucundum	65	
85500	Paratanytarsus sp	130	
85814	Tanytarsus glabrescens group	1104	
87540	Hemerodromia sp	16	
	Number of Organisms	9728	
	ICI Score	46	
	Number of Quantitative Taxa	33	
	Number of Qualitative Taxa	23	

Euclid Creek Upstream of St. Clair Avenue

River Mile:	1.65	
Drainage Area:	21.8	miles²
Number of Qualitative EPT Taxa	8	
Total Number of Taxa	41	

Rocky River Upstream of Hilliard Road

River Mile: 2.50

Drainage Area: 292.0 miles²

OEPA

Code	Taxa	Species	Number	
			HD	Qual
1801	Turbellaria		754	
4935	Erpobdella punctata punctata			+
4964	Erpobdella microstoma			+
5800	Caecidotea sp			+
6201	Hyalella sp			+
6700	Crangonyx sp			+
8250	Orconectes (Procericambarus) rusticus			+
11130	Baetis intercalaris		3874	+
13400	Stenacron sp			+
13510	Maccaffertium exiguum		33	+
13521	Stenonema femoratum			+
13560	Maccaffertium pulchellum group		33	+
13570	Maccaffertium terminatum			+
17200	Caenis sp			+
22001	Coenagrionidae			+
50315	Chimarra obscura		65	+
52200	Cheumatopsyche sp		3119	+
52430	Ceratopsyche morosa group		691	+
59410	Nectopsyche diarina			+
59970	Petrophila sp		1	
68601	Ancyronyx variegata			+
68901	Macronychus glabratus			+
69400	Stenelmis sp			+
74100	Simulium sp			+
78140	Labrundinia pilosella		206	
78500	Zavrelimyia			+
78650	Procladius sp			+
79100	Thienemannimyia group		275	+
80440	Cricotopus (C.) trifascia		64	
82220	Tvetenia discoloripes group		64	
83003	Dicrotendipes fumidus		64	
84000	Parachironomus sp			+
84450	Polypedilum (Uresipedilum) flavum		2748	+
84520	Polypedilum (Tripodura) halterale group			+
85625	Rheotanytarsus sp		1717	
93900	Elimia sp			+
95100	Physella sp			+
97601	Corbicula fluminea			+

Number of Organisms 13708

Rocky River Upstream of Hilliard Road

River Mile:	2.50	
Drainage Area:	292.0	miles²
ICI Score	36	
Number of Quantitative Taxa	15	
Number of Qualitative Taxa	31	
Number of Qualitative EPT Taxa	11	
Total Number of Taxa	38	

Rocky River Upstream of Puritas Avenue

River Mile: 8.30

Drainage Area: 282.0 miles²

OEPA

Taxa	Code	Species	Number	
			HD	Qual
1801	Turbellaria		1999	+
3600	Oligochaeta		171	+
4935	Erpobdella punctata punctata			+
5800	Caecidotea sp			+
6700	Crangonyx sp			+
8601	Hydrachnidia		171	+
11120	Baetis flavistriga			+
11130	Baetis intercalaris		4198	+
13560	Maccaffertium pulchellum group		597	
16700	Tricorythodes sp		51	+
17200	Caenis sp			+
21300	Hetaerina sp			+
22001	Coenagrionidae			+
22300	Argia sp			+
50315	Chimarra obscura		429	+
52200	Cheumatopsyche sp		9567	+
52430	Ceratopsyche morosa group		297	+
53800	Hydroptila sp			+
59970	Petrophila sp		51	
65800	Berosus sp			+
67800	Tropisternus sp			+
68601	Ancyronyx variegata			+
68901	Macronychus glabratus			+
69400	Stenelmis sp			+
78450	Nilotanypus fimbriatus		81	
79100	Thienemannimyia group		162	
82220	Tvetenia discoloripes group		96	+
84450	Polypedilum (Uresipedilum) flavum		6226	+
84469	Polypedilum (P.) illinoense group		81	+
84520	Polypedilum (Tripodura) halterale group		162	
85625	Rheotanytarsus sp		404	
85814	Tanytarsus glabrescens group		162	
87540	Hemerodromia sp		51	
93900	Elimia sp			+
97601	Corbicula fluminea		51	+
98600	Sphaerium sp		103	+

Number of Organisms	25110
ICI Score	34
Number of Quantitative Taxa	21

Rocky River Upstream of Puritas Avenue

River Mile: 8.30

Drainage Area: 282.0 miles²

Number of Qualitative Taxa 28

Number of Qualitative EPT Taxa 8

Total Number of Taxa 36

Appendix E: 2019 Fish Data Sheets



FISH DATA SHEET

Sheet ID For Office Use Only

Blank box for Sheet ID

New Station (requires lat/long & county)

Blank box for New Station

Mix Zone

Blank box for Mix Zone

Page 1 of 1

Station ID 504250 River Code 19-041-000 RM 1.65 Date 6/24/19 Time 1215

Stream Enclid Creek Location 1st of St. Claire Avenue

Comments DA: 21.8 mi² Gradient: 16.2

Lat 41.5738 Long -81.5470 County Cuyahoga ALP Time Fished 2163

Crew Hothem* Netter Telep/Anidon Others Matteson Sampler Type E

Distance 0.20 km Flow Temp. C Secchi Source Project Euclid Creek

Fins Code Number Weighed Total Counted Weight * Crew Leader Weights Counts DELT ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish

Table with columns: Fins Code, Number Weighed, Total Counted, Total Weight, Weights, Counts, and DELT ANOMALIES (D, E, L, T, M, *). Rows include species like Fathead minnow, Bluegill, Blacknose dace, Largemouth Bass, Bluntnose minnow, Creek chub, and Stone loach.

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Sheet ID For Office Use Only

Station ID 504250 River Code 19-041-000 RM 1.65 Date 10/14/19 Time 9:15
 Stream Euclid Creek Location 1st of St. Clair Ave
 Comments DA: 21.8 mi² Grad: 16.2
 Lat 41.5738 Long -81.5470 County Cuyahoga ALP _____ Time Fished 2904
 Crew Telep Netter Matteson*/Meyay Others Fitzgibbons Sampler Type E
 Distance 0.20km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Euclid Creek

*Crew leader

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish					
						D	E	L	T	M	*
1 43-011 Blacknose Dace V 10x	265	265	0.684	0.660 (265)	0.020 (8)						
				0.002 (1)							
				0.002 (1)							
2 77-008 Green sunfish V 10x	4	4	0.060	0.060 (4)							
3 43-043 Blu V 10x	217	217	0.217	0.210 (214)							
				0.005 (2)							
				0.002 (1)							
4 43-013 Creek Chub V 10x	101	101	0.705	(9)							
				3 (0)							
				0.002 (1)							
5 43-044 St ee V 10x	97	97	1.120	0.120 (9)							
				1.000 (88)							
6 43-042 -thead Min n V 10x	1	1	0.002	0.02 (1)							
7											
V 10x											
8											
V 10x											
9											
V 10x											

* A-anchor worm; B-black spot; C-licees; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Fins Code Number Weighed Total Counted Total Weight

Weights **Counts**

Page _____ of _____

Line No.	Fins Code	Number Weighed	Total Counted	Total Weight	Weights Counts						
					D	E	L	T	M	*	
10											
	V	10x									
11											
	V	10x									
12											
	V	10x									
13											
	V	10x									
14											
	V	10x									
15											
	V	10x									
16											
	V	10x									
17											
	V	10x									
18											
	V	10x									
19											
	V	10x									
20											
	V	10x									
21											
	V	10x									

Handwritten scribble

Station ID FO1A47 River Code 19-041-000 RMO 55 Date 6/24/2019 Time 0915 hrs
 Stream Enclid Creek Location Dst of Lakeshore Blvd
 Comments DA: 23 mi² Grad: 5.9
 Lat 41.833 Long -81.5594 County Cuyahoga ALP _____ Time Fished 2882
 Crew M. Matteson* Netter J. Tapp Others S. Hotnum/K. Amidon Sampler Type D
 Distance 0.20 km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Enclid Creek

*Crew leader

DELTA ANOMALIES
 Deformities, Erosions, Lesions, Tumors
 Multiple DELTAs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 77-006 Largemouth bass V2 10x	4	4	0.140	0.130 ③ 0.010 ①							
2 77-004 Smallmouth bass V2 photo 10x	3	3	3.000	2.250 ② 0.750 ①							
3 43-043 Bluntnose minnow V2 10x	6	6	0.020	0.020 ⑥							
77-009 Bluegill V2 10x	26	26	0.470	0.470 ②⑥							
5 77-013 Pumpkinseed V2 10x	20	20	0.110	0.110 ②①							
6 43-035 Mimic shiner V40 10x	40	40	0.050	0.050 ④①							
7 40-005 Quillback carp sucker V1 photo 10x	1	1	1.450	1.450 ①							
8 43-042 Fathead minnow V1 10x	1	1	0.010	0.010 ①							
9 87-001 Randy goby 10x	1	1	0.006	0.006 ①							

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Station ID FO1A47 River Code 19-041-000 RMO.55 Date 10/14/19 Time 11:30
 Stream Euclid Creek Location Dst of Lakeshore Blvd.
 Comments DA: 23 mi² Grad: 5.9
 Lat 41.5833 Long -81.5594 County Cuyahoga ALP _____ Time Fished 3497
 Crew Matteson* Netter Telep/Meany Others Fitzgibbons Sampler Type 0
 Distance 620 Km Flow _____ Temp. C _____ Secchi _____ Source _____ Project Euclid Creek

* Crew leader

DELTA ANOMALIES
 Deformities, Erosions, Lesions, Tumors
 Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 25-002 Rainbow Trout V 10x	3	3	4.500	1.3 (1) 1.5 (1) 1.7 (1)							
2 85-001 Freshwater drum V 10x	1	1	1.150	1.15 (1)							
3 80-011 Logperch V 10x	32	32	0.170	0.170 (32)							
4 47-004 Yellow Bullhead V 10x	17	17	0.768	0.700 (15) 0.068 (2)							
5 43-034 Sand Shiner V 10x	4	4	0.004	0.004 (4)							
6 77-006 Largemouth Bass V 10x	3	3	0.070	0.07 (3)							
7 43-035 Mimic Shiner V 10x	12	12	0.017	0.015 (11) 0.002 (1)							
8 77-004 Smallmouth Bass V 10x	1	1	0.015	0.015 (1)							
9 43-032 Spotfin Shiner V 10x	11	11	0.019	0.010 (5) 0.002 (1) 0.002 (1) 0.002 (1) 0.001 (1)	0.002 (2)						

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated; W-swirled scales Y-popeye; Z-other



FISH DATA SHEET

Sheet ID For Office Use Only

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New Station (requires lat/long & county)

Mix Zone

Station ID 501810 River Code 13-001-000 RM 8.30 Date 8/28/19 Time 0855

Stream Rocky River Location 1st of Puritas Ave

Comments DA: 282 mi² Gradient: 6.13

Lat 41.43541 Long -81.84358 County Cuyahoga ALP Time Fished 4591 sec

Crew Telep Netter Nothen/Bresinger Others Matteson Sampler Type D

Distance 0.20 Km Flow Temp. C Secchi Source Project Rocky River

Fins Code Number Weighed Total Counted Total Weight *crew leader Weights Counts DELT ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	DELT ANOMALIES
1 40-015 Northern Hog Sucker V 10x	1	1	0.090	0.090 (1)		D E L T M *
2 43-032 Spotfin Shiner V 10x	179	179	0.178	0.170 (72) 0.001 (1) 0.002 (2)	0.001 (1) 0.004 (3)	D E L T M *
3 47-002 Channel Catfish V 10x	4	4	0.021	0.001 (1) 0.020 (3)		D E L T M *
4 47-008 Stonecat Madtom V 10x	25	25	0.424	0.420 (24) 0.004 (1)		D E L T M *
5 43-013 Creek Chub V 10x	14	14	0.059	0.045 (11) 0.008 (2) 0.006 (1)		D E L T M *
6 43-022 Rosyface Shiner V 10x	17	17	0.030	0.030 (17)		D E L T M *
7 77-004 Smallmouth Bass V 10x	16	16	1.520	0.620 (3) 0.500 (5) 0.400 (8)		D E L T M *
8 43-044 Central Stoneroller minnow V 10x	25	25	0.125	0.125 (25)		D E L T M *
9 43-034 Sand Shiner V 10x	110	110	0.200	0.200 (110)		D E L T M *

* A-anchor worm; B-black spot; C-licees; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Sheet ID For Office Use Only

Station ID 501810 River Code 13-001-000 RM 8.30 Date 10/4/19 Time 12:30
 Stream Rocky River Location Ust of Puritas Ave
 Comments DA: 282 mi² Gradient: 6.13
 Lat 41.43541 Long -81.84358 County Cuyahoga ALP Time Fished 3925
 Crew Teleg Netter Fitzgibbons Others Malleson* Johnson Sampler Type E
 Distance 0.20km Flow Temp. C Secchi Source Project Rocky River

*Crew Leader

DELTA ANOMALIES
 Deformities, Erosions, Lesions, Tumors
 Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 47-008 Stoner cat mad tom V 10x	16	16	0.440	0.44	(16)						
2 40-015 Hog sucker V 10x	3	3	0.360	0.16	(1) 0.2 (2)						
3 77-003 Rock bass V 10x	5	5	0.310	0.19	(2) 0.02 (2) 0.1 (1)						
4 43-044 Stone roller minnow V 10x	26	26	0.160	0.16	(26)						
5 80-014 Johnny Darters V 10x	3	3	0.005	.005	(3)						
6 40-016 whit sucker V 10x	1	1	0.020	0.020	(1)						
7 47-004 yellow bullhead V 10x	1	1	0.010	.010	(1)						
8 43-022 rosy face shiner V 10x	1	1	0.003	.003	(1)						
9 47-00a channel catfish V 10x	1	1	0.016	.016	(1)						

* A-anchor worm; B-black spot; C-leeches; F-fungus; N-blind; P-parasites; S-emaciated; W-swirled scales Y-popeye; Z-other



FISH DATA SHEET

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New Station (requires lat/long & county)

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Mix Zone

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Page 1 of 4

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 8/28/19 Time 1145

Stream Rocky River Location Ust of Hilliard Boulevard

Comments DA: 292 mi² Gradient: 8.77

Lat 41.47129 Long -81.823985 County Cuyahoga ALP Time Fished 4843

Crew Telep Netter Hothem Others Mattesint Sampler Type D

Distance 0.20 Km Flow Temp. C Secchi Source Project Rocky River

* Crew Leader

Fins Code Number Weighed Total Counted Weight Weights Counts

DELTA ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 40-015 Hog Sucker V 10x	3	3	0.360	0.36	(3)						
2 40-010 Golden Redhorse V 10x	1	1	0.160	0.16	(1)						
3 40-011 Shorthead Redhorse V 10x	2	2	0.325	0.325	(2)						
4 80-002 Walleye V 10x	6	6	0.080	0.08	(6)						
5 47-008 Stonecat Madtom V 10x	21	21	0.426	0.602	(1) (19) (1)						
6 43-026 Common Shiner V 10x	3	3	0.010	0.010	(3)						
7 20-003 Gizzard Shad V 10x	7	7	0.070	0.07	(7)						
8 43-025 Striped Shiner V 10x	13	13	0.340	0.34	(13)						
9 80-003 Yellow Perch V 2 10x	16	16	0.500	0.5	(16)						

* A-anchor worm; B-black spot; C-licees; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other



FISH DATA SHEET

Sheet ID For Office Use Only

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New Station (requires lat/long & county)

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Mix Zone

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Page 3 of 4

Station ID T01W04 River Code 13-001-000 RM 2.50 Date 8/28/19 Time 1145
Stream Rocky River Location Ust of Hilliard Boulevard
Comments DA: 292 m Gradient: 8.77
Lat 41.47134 Long -81.823985 County Cuyahoga ALP Time Fished 4843
Crew Telep Netter Hothem Others Matteson* Sampler Type D
Distance 0.20km Flow Temp. C Secchi Source Project Rocky River

Fins Code Number Weighed Total Counted Total Weight * Crew Leader Weights Counts DELT ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish

Table with columns: Fins Code, Number Weighed, Total Counted, Total Weight, Weights, Counts, and DELT ANOMALIES (D, E, L, T, M, *). Rows include Rock Bass, Bluegill, Emerald shiner, Green Sunfish, Sandshiner, Channel catfish, Mimic Shiner, Quilback Carpsucker, and Spottail shiner.



FISH DATA SHEET

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New Station (requires lat/long & county)

Mix Zone

Station ID T01W04

River Code 13-001-000

RM 250

Date 10/7/19

Time 1130

Stream Rocky River

Location Ust of Hilliard Boulevard

Comments DA: 292 mi² Gradient: 8.77

Lat 41.47129

Long -81.823985

County Cuyahoga

ALP

Time Fished 5080

Crew Matheron*

Netter Tepp/Fitzgibbons

Others

Sampler Type F

Distance 0.20 Km Flow

Temp. C

Secchi

Source

Project Rocky River

* Crew Leader

Fins Code Number Weighed Total Counted Total Weight

Weights Counts

DELT ANOMALIES Deformities, Erosions, Lesions, Tumors Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 40-015 Northern Hog sucker V 10x	2	2	0.310	0.310	(2)						
2 77-003 Rock Bass V 10x	12	12	0.706	0.706	(12)						
3 40-016 White Sucker V 10x	10	10	0.480	0.430	(9)						
				0.050	(1)						
4 80-011 Logperch Darter V 10x	48	48	0.740	0.74	(48)						
5 47-008 Stoneroller V 10x	29	29	0.615	0.615	(29)						
6 47-002 Channel Catfish V 10x	13	13	0.115	0.110	(12)						
				0.005	(1)						
7 80-014 Johnny Darter V 10x	2	2	0.005	0.005	(2)						
8 47-004 Yellow Bullhead V 10x	16	16	0.520	0.520	(16)						
9 43-020 Emerald Shiner V 10x	1	1	0.020	0.020	(1)						

* A-anchor worm; B-black spot; C-licees; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Sheet ID For Office Use Only

Station ID

T01W04

River Code

RM 2:50

Date

10/7/19

Time

1:30

Stream Rocky River

Location Ust of Hilliard Boulevard

Comments DA: 292 mi² Gradient: 8.77

Lat 41.47129

Long

-81.823985

County Cuyahoga

ALP

Time Fished

5080

Crew Matteson*

Netter

Telep/Fitzjibbons

Others

Sampler Type

E

Distance 0.20 Km Flow

Temp. C

Secchi

Source

Project

Rocky River

Fins Code Number Weighed Total Counted Total Weight

* Crew Leader

Weights Counts

DELT ANOMALIES
Deformities, Erosions, Lesions, Tumors
Multiple DELTs on one fish

Fins Code	Number Weighed	Total Counted	Total Weight	Weights	Counts	D	E	L	T	M	*
1 87-001 Round Goby V 10x	100	100	0.590	0.590	(100)						
2 80-015 Greenside Darter V 10x	51	51	0.330	0.330	(51)						
3 80-022 Rainbow Darter V 10x	13	13	0.040	0.040	(13)						
4 43-034 Sand Shiner V 10x	2	2	0.005	0.005	(2)						
5 43-035 Mimic Shiner V 10x	12	12	0.023	0.023	(12)						
6											
7											
8											
9											

* A-anchor worm; B-black spot; C-licees; F-fungus; N-blind; P-parasites; S-emaciated, W-swirled scales Y-popeye; Z-other

Fins Code Number Weighed Total Counted Total Weight

Weights Counts

Page _____ of _____

10										D	E	L	T	M	*
	V	10x													
11										D	E	L	T	M	*
	V	10x													
12										D	E	L	T	M	*
	V	10x													
13										D	E	L	T	M	*
	V	10x													
14										D	E	L	T	M	*
	V	10x													
15										D	E	L	T	M	*
	V	10x													
16										D	E	L	T	M	*
	V	10x													
17										D	E	L	T	M	*
	V	10x													
18										D	E	L	T	M	*
	V	10x													
19										D	E	L	T	M	*
	V	10x													
20										D	E	L	T	M	*
	V	10x													
21										D	E	L	T	M	*
	V	10x													

PM

Euclid Creek Upstream of St. Clair Avenue
June 24, 2019
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	61	0.21	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	88	0.871	Highly Tolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	2	0.01	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	1	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	42	0.32	--	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.014	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	11	0.118	Moderately Tolerant	0	---
Totals		<u>209</u>	<u>1.549</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 24 (Poor)
 Modified Index of Well-Being (MIwb) = 4.6 (Poor)
 Shannon Diversity Index, no. 1.347
 Shannon Diversity Index, wt. 1.213
 N 85.5
 B 0.678

Euclid Creek Upstream of St. Clair Avenue
October 14, 2019
River Mile: 1.65
Collection Method: Longline Electrofishing
Drainage Area: 21.8 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	DELT Anomalies #	Description
43-011	<i>Rhinichthys atratulus</i> Blacknose dace	265	0.684	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	101	0.705	Highly Tolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.002	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	217	0.217	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	97	1.12	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	4	0.06	Highly Tolerant	0	---
Totals		<u><u>685</u></u>	<u><u>2.788</u></u>		<u><u>0</u></u>	

*DELT anomalies were observed on 0.00 % of the fish collected.
 Index of Biotic Integrity (IBI) = 22 (Poor)
 Modified Index of Well-Being (MIwb) = 5.4 (Poor)
 Shannon Diversity Index, no. 1.33
 Shannon Diversity Index, wt. 1.345
 N 145.5
 B 1.68

Euclid Creek Downstream of Lakeshore Boulevard
June 24, 2019
River Mile: 0.55
Collection Method: Roller Pram Electrofishing
Drainage Area: 23 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-005	<i>Carpiodes cyprinus</i> Central quillback carpsucker	1	1.45	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	199	0.7	Highly Tolerant	0	---
43-002	<i>Carassius auratus</i> Goldfish	1	1.2	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.004	--	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	40	0.05	Common Intolerant	0	---
43-042	<i>Pimephales promelas</i> Northern fathead minnow	1	0.01	Highly Tolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	6	0.02	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	2	0.002	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	10	1.14	Highly Tolerant	1	Lesion
77-003	<i>Ambloplites rupestris</i> Northern rockbass	2	0.27	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	3	3	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.14	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	2	0.02	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	26	0.47	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	20	0.11	Moderately Tolerant	0	---

Euclid Creek Downstream of Lakeshore Boulevard

June 24, 2019

River Mile: 0.55

87-001	<i>Neogobius melanostomus</i> Round goby	1	0.006	--	0	---
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Totals	<u>319</u>	<u>8.592</u>			<u>1</u>	
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*DELT anomalies were observed on	0.31	% of the fish collected.
Index of Biotic Integrity (IBI) =	32	(Fair)
Modified Index of Well-Being (MIwb) =	6.8	(Fair)
Shannon Diversity Index, no.	1.401	
Shannon Diversity Index, wt.	1.882	
N	148.5	
B	8.244	

Euclid Creek Downstream of Lakeshore Boulevard
October 14, 2019
River Mile: 0.55
Collection Method: Longline Electrofishing
Drainage Area: 23 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
25-002	<i>Oncorhynchus mykiss</i> Rainbow trout	3	4.5	--	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	6	0.11	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	3	0.05	Highly Tolerant	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	11	0.019	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	4	0.004	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	12	0.017	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	6	0.04	Highly Tolerant	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	17	0.768	Highly Tolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	3	0.062	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	1	0.015	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	3	0.07	--	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	23	0.225	Moderately Tolerant	0	---
77-013	<i>Lepomis gibbosus</i> Pumpkinseed sunfish	70	1.4	Moderately Tolerant	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	32	0.17	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	1	1.15	Moderately Tolerant	0	---

Euclid Creek Downstream of Lakeshore Boulevard

October 14, 2019

River Mile: 0.55

87-001	<i>Neogobius melanostomus</i>	31	0.125	--	0	---
	Round goby					

Totals	<u>226</u>	<u>8.725</u>			<u>0</u>	
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*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	36	(Marginally Good)
Modified Index of Well-Being (MIwb) =	7.3	(Fair)
Shannon Diversity Index, no.	2.184	
Shannon Diversity Index, wt.	1.571	
N	240	
B	4.698	

Rocky River Upstream of Puritas Avenue
August 28, 2019
River Mile: 8.30
Collection Method: Roller Pram Electrofishing
Drainage Area: 282 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	1	0.09	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.028	Highly Tolerant	0	---
43-013	<i>Semotilus atromaculatus</i> Creek chub	14	0.059	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	17	0.03	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	16	0.022	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	179	0.178	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	110	0.2	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	61	0.06	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	25	0.125	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	4	0.021	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	8	0.1	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	25	0.424	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.154	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	16	1.52	Moderately Intolerant	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	10	0.065	Highly Tolerant	0	---

Rocky River Upstream of Puritas Avenue

August 28, 2019

River Mile: **8.30**

77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	3	0.055	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.004	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	46	0.325	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	12	0.028	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	52	0.18	--	0	---
Totals		<u>607</u>	<u>3.668</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.5	(Good)
Shannon Diversity Index, no.	2.289	
Shannon Diversity Index, wt.	2.17	
N	691.5	
B	4.764	

Rocky River Upstream of Puritas Avenue
October 4, 2019
River Mile: 8.30
Collection Method: Longline Electrofishing
Drainage Area: 282 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	3	0.36	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	1	0.02	Highly Tolerant	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	1	0.003	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	1	0.005	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	98	0.138	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	48	0.105	Moderately Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	38	0.092	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	26	0.16	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	1	0.016	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	1	0.01	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	16	0.44	Intolerant	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	5	0.31	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	16	1.2	Moderately Intolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	8	0.12	Moderately Tolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	3	0.005	--	0	---

Rocky River Upstream of Puritas Avenue

October 4, 2019

River Mile: 8.30

80-015	<i>Etheostoma blenniodes</i> Greenside darter	35	0.265	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	6	0.038	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	70	0.34	--	0	---
	Totals	<u>377</u>	<u>3.627</u>		<u>0</u>	

*DELT anomalies were observed on	0.00	% of the fish collected.
Index of Biotic Integrity (IBI) =	40	(Good)
Modified Index of Well-Being (MIwb) =	8.2	(Good)
Shannon Diversity Index, no.	2.19	
Shannon Diversity Index, wt.	2.186	
N	400.5	
B	4.748	

Rocky River Upstream of Hilliard Boulevard
August 28, 2019
River Mile: 2.50
Collection Method: Roller Pram Electrofishing
Drainage Area: 292 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	7	0.07	--	0	---
40-005	<i>Carpionodes cyprinus</i> Central quillback carpsucker	2	0.025	--	0	---
40-010	<i>Moxostoma erythrurum</i> Golden redhorse	1	0.16	Moderately Intolerant	0	---
40-011	<i>Moxostoma macrolepidotum</i> Shorthead redhorse	2	0.325	Moderately Intolerant	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	3	0.36	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	8	0.42	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	21	0.14	--	0	---
43-022	<i>Notropis rubellus</i> Rosyface Shiner	1	0.003	Intolerant	0	---
43-026	<i>Notropis cornutus</i> Common shiner	3	0.01	--	0	---
43-025	<i>Notropis chrysocephalus</i> Striped shiner	13	0.34	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	61	0.078	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	3	0.003	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	41	0.075	Common Intolerant	0	---
43-043	<i>Pimephales notatus</i> Bluntnose minnow	2	0.006	Highly Tolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	34	0.215	--	0	---

Rocky River Upstream of Hilliard Boulevard

August 28, 2019

River Mile: 2.50

47-002	<i>Ictalurus punctatus</i> Channel catfish	12	0.055	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	25	0.77	Highly Tolerant	0	---
47-008	<i>Noturus flavus</i> Stonecat Madtom	21	0.426	Intolerant	0	---
74-003	<i>Morone americana</i> White perch	1	0.008	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	17	1.355	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	2	0.022	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	2	0.03	--	0	---
77-008	<i>Lepomis cyanellus</i> Green sunfish	6	0.095	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	22	0.23	Moderately Tolerant	0	---
80-002	<i>Sander vitreus</i> Walleye	6	0.08	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	16	0.5	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	28	0.46	Moderately Intolerant	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	30	0.17	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	8	0.028	Moderately Intolerant	0	---
85-001	<i>Aplodinotus grunniens</i> Freshwater drum	2	0.11	Moderately Tolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	28	0.23	--	0	---
	Totals	<u>428</u>	<u>6.799</u>		<u>0</u>	

*DELT anomalies were observed on 0.00 % of the fish collected.

Rocky River Upstream of Hilliard Boulevard

August 28, 2019

River Mile: 2.50

Index of Biotic Integrity (IBI) =	50	(Exceptional)
Modified Index of Well-Being (MIwb) =	9.9	(Exceptional)
Shannon Diversity Index, no.	2.951	
Shannon Diversity Index, wt.	2.819	
N	537	
B	7.905	

Rocky River Upstream of Hilliard Boulevard
October 7, 2019
River Mile: 2.50
Collection Method: Longline Electrofishing
Drainage Area: 292 miles²
Collection Distance: 0.2 km

Code	Species	Number	Weight (kg)	Pollution Tolerance	#	DELT Anomalies Description
20-003	<i>Dorosoma cepedianum</i> Eastern gizzard shad	3	0.06	--	0	---
40-015	<i>Hypentelium nigricans</i> Northern hog sucker	2	0.31	Moderately Intolerant	0	---
40-016	<i>Catostomus commersonii</i> Common white sucker	10	0.48	Highly Tolerant	0	---
43-020	<i>Notropis atherinoides</i> Common Emerald shiner	1	0.02	--	0	---
43-032	<i>Cyprinella spiloptera</i> Spotfin shiner	37	0.023	--	0	---
43-034	<i>Notropis stramineus</i> Sand shiner	2	0.005	Moderately Intolerant	0	---
43-035	<i>Notropis volucellus</i> Mimic Shiner	12	0.023	Common Intolerant	0	---
43-044	<i>Campostoma anomalum</i> Central stoneroller minnow	71	0.6	--	0	---
47-002	<i>Ictalurus punctatus</i> Channel catfish	13	0.115	--	0	---
47-004	<i>Ictalurus natalis</i> Yellow bullhead	16	0.52	Highly Tolerant	1	Lesion
47-008	<i>Noturus flavus</i> Stonecat Madtom	29	0.615	Intolerant	0	---
74-003	<i>Morone americana</i> White perch	3	0.022	--	0	---
77-003	<i>Ambloplites rupestris</i> Northern rockbass	12	0.706	--	0	---
77-004	<i>Micropterus dolomieu</i> Smallmouth bass	12	1.02	Moderately Intolerant	0	---
77-006	<i>Micropterus salmoides</i> Largemouth bass	4	0.075	--	0	---

Rocky River Upstream of Hilliard Boulevard

October 7, 2019

River Mile: 2.50

77-008	<i>Lepomis cyanellus</i> Green sunfish	12	0.13	Highly Tolerant	0	---
77-009	<i>Lepomis macrochirus</i> Northern bluegill sunfish	18	0.255	Moderately Tolerant	0	---
77-010	<i>Lepomis humilis</i> Orangespotted Sunfish	1	0.002	--	0	---
77-016	<i>HYBRID</i> Green SF X Pumpkinseed	1	0.015	--	0	---
80-002	<i>Sander vitreus</i> Walleye	2	0.04	--	0	---
80-003	<i>Perca flavescens</i> Yellow perch	14	0.09	--	0	---
80-011	<i>Percina caprodes</i> Northern logperch darter	48	0.74	Moderately Intolerant	0	---
80-014	<i>Etheostoma nigrum</i> Johnny darter	2	0.005	--	0	---
80-015	<i>Etheostoma blenniodes</i> Greenside darter	51	0.33	Moderately Intolerant	0	---
80-022	<i>Etheostoma caeruleum</i> Rainbow darter	13	0.04	Moderately Intolerant	0	---
87-001	<i>Neogobius melanostomus</i> Round goby	100	0.59	--	0	---
	Totals	<u>489</u>	<u>6.831</u>		<u>1</u>	

*DELT anomalies were observed on	0.20	% of the fish collected.
Index of Biotic Integrity (IBI) =	44	(Good)
Modified Index of Well-Being (MIwb) =	9.4	(Exceptional)
Shannon Diversity Index, no.	2.633	
Shannon Diversity Index, wt.	2.646	
N	520.5	
B	7.611	

Appendix F: 2019 Water Chemistry Results

Euclid Creek River Mile 1.65							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/19/2019 9:51	R-1906180007/R-1906180009	*CaCO3		187	mg/LCaCO3	1	EPA200.8
6/26/2019 9:15	R-1906250007	*CaCO3		146	mg/LCaCO3	1	EPA200.8
7/1/2019 9:36	R-1906280006	*CaCO3		174	mg/LCaCO3	1	EPA200.8
7/10/2019 9:45	R-1907090006	*CaCO3		194	mg/LCaCO3	1	EPA200.8
7/17/2019 9:35	R-1907160002	*CaCO3		92	mg/LCaCO3	1	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Ag	<	0.142	ug/L	0.142	EPA200.8
6/26/2019 9:15	R-1906250007	Ag	<	0.142	ug/L	0.142	EPA200.8
7/1/2019 9:36	R-1906280006	Ag	<	0.142	ug/L	0.142	EPA200.8
7/10/2019 9:45	R-1907090006	Ag	<	0.142	ug/L	0.142	EPA200.8
7/17/2019 9:35	R-1907160002	Ag	<	0.142	ug/L	0.142	EPA200.8
7/17/2019 9:35	R-1907160002	Al		826.6	ug/L	22.84	EPA200.7
6/19/2019 9:51	R-1906180007/R-1906180009	Al		121.1	ug/L	3.432	EPA200.8
6/26/2019 9:15	R-1906250007	Al		116.7	ug/L	3.432	EPA200.8
7/1/2019 9:36	R-1906280006	Al		36.89	ug/L	3.432	EPA200.8
7/10/2019 9:45	R-1907090006	Al		32.74	ug/L	3.432	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Alkalinity		139.25	mg/LCaCO3	5.3	EPA310.2
6/26/2019 9:15	R-1906250007	Alkalinity		123.6	mg/LCaCO3	5.3	EPA310.2
7/1/2019 9:36	R-1906280006	Alkalinity		130.9	mg/LCaCO3	5.1	EPA310.2
7/10/2019 9:45	R-1907090006	Alkalinity		135.7	mg/LCaCO3	5.1	EPA310.2
7/17/2019 9:35	R-1907160002	Alkalinity		67.4	mg/LCaCO3	5.1	EPA310.2
6/19/2019 9:51	R-1906180007/R-1906180009	As	j	1.1505	ug/L	0.292	EPA200.8
6/26/2019 9:15	R-1906250007	As	j	1.547	ug/L	0.292	EPA200.8
7/1/2019 9:36	R-1906280006	As	j	1.356	ug/L	0.292	EPA200.8
7/10/2019 9:45	R-1907090006	As	j	1.246	ug/L	0.292	EPA200.8
7/17/2019 9:35	R-1907160002	As	j	1.879	ug/L	0.292	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Ba		27.745	ug/L	0.092	EPA200.8
6/26/2019 9:15	R-1906250007	Ba		23.86	ug/L	0.092	EPA200.8
7/1/2019 9:36	R-1906280006	Ba		25.48	ug/L	0.092	EPA200.8
7/10/2019 9:45	R-1907090006	Ba		26.93	ug/L	0.092	EPA200.8
7/17/2019 9:35	R-1907160002	Ba		17.86	ug/L	0.092	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Be	<	0.094	ug/L	0.094	EPA200.8
6/26/2019 9:15	R-1906250007	Be	<	0.094	ug/L	0.094	EPA200.8
7/1/2019 9:36	R-1906280006	Be	<	0.094	ug/L	0.094	EPA200.8
7/10/2019 9:45	R-1907090006	Be	<	0.094	ug/L	0.094	EPA200.8
7/17/2019 9:35	R-1907160002	Be	<	0.094	ug/L	0.094	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	BOD	<	2	mg/L	2	SM5210 B
6/26/2019 9:15	R-1906250007	BOD	<	2	mg/L	2	SM5210 B
7/1/2019 9:36	R-1906280006	BOD	<	2	mg/L	2	SM5210 B
7/10/2019 9:45	R-1907090006	BOD	<	2	mg/L	2	SM5210 B
7/17/2019 9:35	R-1907160002	BOD		3.3	mg/L	2	SM5210 B
6/19/2019 9:51	R-1906180007/R-1906180009	Ca		53895	ug/L	62.15	EPA200.8
6/26/2019 9:15	R-1906250007	Ca		41400	ug/L	62.15	EPA200.8
7/1/2019 9:36	R-1906280006	Ca		48960	ug/L	62.15	EPA200.8
7/10/2019 9:45	R-1907090006	Ca		55320	ug/L	62.15	EPA200.8
7/17/2019 9:35	R-1907160002	Ca		26840	ug/L	62.15	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Cd	<	0.086	ug/L	0.086	EPA200.8
6/26/2019 9:15	R-1906250007	Cd	<	0.086	ug/L	0.086	EPA200.8
7/1/2019 9:36	R-1906280006	Cd	<	0.086	ug/L	0.086	EPA200.8
7/10/2019 9:45	R-1907090006	Cd	<	0.086	ug/L	0.086	EPA200.8
7/17/2019 9:35	R-1907160002	Cd	<	0.086	ug/L	0.086	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Chloride		154.2	mg/L	2.5	EPA300.0
6/26/2019 9:15	R-1906250007	Chloride		119.9	mg/L	2.5	EPA300.0
7/1/2019 9:36	R-1906280006	Chloride		159.8	mg/L	2.5	EPA300.0

Euclid Creek River Mile 1.65							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/10/2019 9:45	R-1907090006	Chloride		166.7	mg/L	2.5	EPA300.0
7/17/2019 9:35	R-1907160002	Chloride		92.24	mg/L	2.5	EPA300.0
6/19/2019 9:51	R-1906180007/R-1906180009	Co	j	0.5455	ug/L	0.104	EPA200.8
6/26/2019 9:15	R-1906250007	Co	j	0.484	ug/L	0.104	EPA200.8
7/1/2019 9:36	R-1906280006	Co	j	0.364	ug/L	0.104	EPA200.8
7/10/2019 9:45	R-1907090006	Co	j	0.336	ug/L	0.104	EPA200.8
7/17/2019 9:35	R-1907160002	Co		1.05	ug/L	0.104	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	COD		24.4	mg/L	10.3	EPA410.4
6/26/2019 9:15	R-1906250007	COD		24.3	mg/L	10.3	EPA410.4
7/1/2019 9:36	R-1906280006	COD		21.7	mg/L	10.3	EPA410.4
7/10/2019 9:45	R-1907090006	COD	j	15.8	mg/L	10.3	EPA410.4
7/17/2019 9:35	R-1907160002	COD		25.2	mg/L	10.3	EPA410.4
6/19/2019 9:51	R-1906180007/R-1906180009	Conduct	HT	931.15	uS/cm	1.13	SM2510 B
6/26/2019 9:15	R-1906250007	Conduct		759.6	uS/cm	1.13	SM2510 B
7/1/2019 9:36	R-1906280006	Conduct		918.9	uS/cm	1.13	SM2510 B
7/10/2019 9:45	R-1907090006	Conduct		906.9	uS/cm	1.13	SM2510 B
7/17/2019 9:35	R-1907160002	Conduct		524.3	uS/cm	1.13	SM2510 B
6/19/2019 9:51	R-1906180007/R-1906180009	Cr	<	0.616	ug/L	0.616	EPA200.8
6/26/2019 9:15	R-1906250007	Cr	<	0.616	ug/L	0.616	EPA200.8
7/1/2019 9:36	R-1906280006	Cr	<	0.616	ug/L	0.616	EPA200.8
7/10/2019 9:45	R-1907090006	Cr	<	0.616	ug/L	0.616	EPA200.8
7/17/2019 9:35	R-1907160002	Cr	j	1.619	ug/L	0.616	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Cu		3.6835	ug/L	0.662	EPA200.8
6/26/2019 9:15	R-1906250007	Cu		3.762	ug/L	0.662	EPA200.8
7/1/2019 9:36	R-1906280006	Cu		2.736	ug/L	0.662	EPA200.8
7/10/2019 9:45	R-1907090006	Cu		2.499	ug/L	0.662	EPA200.8
7/17/2019 9:35	R-1907160002	Cu		5.742	ug/L	0.662	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	DRPhos		0.054	mg/L	0.012	EPA365.1
6/26/2019 9:15	R-1906250007	DRPhos		0.046	mg/L	0.012	EPA365.1
7/1/2019 9:36	R-1906280006	DRPhos		0.037	mg/L	0.012	EPA365.1
7/10/2019 9:45	R-1907090006	DRPhos		0.025	mg/L	0.012	EPA365.1
7/17/2019 9:35	R-1907160002	DRPhos		0.036	mg/L	0.01	EPA365.1
6/19/2019 9:51	R-1906180007/R-1906180009	E. coli		613	MPN/100 mL	1	SM9223 Colilert
6/26/2019 9:15	R-1906250007	E. coli		1235	MPN/100 mL	1	SM9223 Colilert
7/1/2019 9:36	R-1906280006	E. coli		518	MPN/100 mL	1	SM9223 Colilert
7/10/2019 9:45	R-1907090006	E. coli		870	MPN/100 mL	1	SM9223 Colilert
7/17/2019 9:35	R-1907160002	E. coli		9330	MPN/100 mL	1	SM9223 Colilert
6/19/2019 9:51	R-1906180007/R-1906180009	Fe		598.25	ug/L	10.49	EPA200.8
6/26/2019 9:15	R-1906250007	Fe		458.3	ug/L	10.49	EPA200.8
7/1/2019 9:36	R-1906280006	Fe		311.9	ug/L	10.49	EPA200.8
7/10/2019 9:45	R-1907090006	Fe		359	ug/L	10.49	EPA200.8
7/17/2019 9:35	R-1907160002	Fe		1427	ug/L	10.49	EPA200.8
6/19/2019 9:51	R-1906180007	Field Cond		811	umhos/cm		SM 2510A
6/26/2019 9:15	R-1906250007	Field Cond		661	umhos/cm		SM 2510A
7/1/2019 9:36	R-1906280006	Field Cond		818	umhos/cm		SM 2510A
7/10/2019 9:45	R-1907090006	Field Cond		892	umhos/cm		SM 2510A
7/17/2019 9:35	R-1907160002	Field Cond		497	umhos/cm		SM 2510A
6/19/2019 9:51	R-1906180007	Field Spec Cond		944	umhos/cm		SM 2510B
6/26/2019 9:15	R-1906250007	Field Spec Cond		734	umhos/cm		SM 2510B
7/1/2019 9:36	R-1906280006	Field Spec Cond		918	umhos/cm		SM 2510B
7/10/2019 9:45	R-1907090006	Field Spec Cond		949	umhos/cm		SM 2510B
7/17/2019 9:35	R-1907160002	Field Spec Cond		522	umhos/cm		SM 2510B
6/19/2019 9:51	R-1906180007	Field DO		9.2	mg/L		SM 4500-G

Euclid Creek River Mile 1.65							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/26/2019 9:15	R-1906250007	Field DO		8.7	mg/L		SM 4500-0 G
7/1/2019 9:36	R-1906280006	Field DO		8.9	mg/L		SM 4500-0 G
7/10/2019 9:45	R-1907090006	Field DO		9.2	mg/L		SM 4500-0 G
7/17/2019 9:35	R-1907160002	Field DO		8.2	mg/L		SM 4500-0 G
6/19/2019 9:51	R-1906180007	Field DO		97	%		
6/26/2019 9:15	R-1906250007	Field DO		95	%		
7/1/2019 9:36	R-1906280006	Field DO		97	%		
7/10/2019 9:45	R-1907090006	Field DO		105	%		
7/17/2019 9:35	R-1907160002	Field DO		95	%		
6/19/2019 9:51	R-1906180007	Field Temp		17.6	C		EPA 170.1
6/26/2019 9:15	R-1906250007	Field Temp		19.8	C		EPA 170.1
7/1/2019 9:36	R-1906280006	Field Temp		19.3	C		EPA 170.1
7/10/2019 9:45	R-1907090006	Field Temp		21.9	C		EPA 170.1
7/17/2019 9:35	R-1907160002	Field Temp		22.4	C		EPA 170.1
6/19/2019 9:51	R-1906180007/R-1906180009	Hg	<	0.019	ug/L	0.019	EPA245.1
6/26/2019 9:15	R-1906250007	Hg	<	0.019	ug/L	0.019	EPA245.1
7/1/2019 9:36	R-1906280006	Hg	<	0.022	ug/L	0.022	EPA245.1
7/10/2019 9:45	R-1907090006	Hg	<	0.022	ug/L	0.022	EPA245.1
7/17/2019 9:35	R-1907160002	Hg	<	0.022	ug/L	0.022	EPA245.1
6/19/2019 9:51	R-1906180007/R-1906180009	K		3544.5	ug/L	71.95	EPA200.8
6/26/2019 9:15	R-1906250007	K		3399	ug/L	71.95	EPA200.8
7/1/2019 9:36	R-1906280006	K		3233	ug/L	71.95	EPA200.8
7/10/2019 9:45	R-1907090006	K		3494	ug/L	71.95	EPA200.8
7/17/2019 9:35	R-1907160002	K		2448	ug/L	71.95	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Mg		12825	ug/L	17.58	EPA200.8
6/26/2019 9:15	R-1906250007	Mg		9564	ug/L	17.58	EPA200.8
7/1/2019 9:36	R-1906280006	Mg		12460	ug/L	17.58	EPA200.8
7/10/2019 9:45	R-1907090006	Mg		13700	ug/L	17.58	EPA200.8
7/17/2019 9:35	R-1907160002	Mg		6107	ug/L	17.58	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Mn		17.995	ug/L	0.236	EPA200.8
6/26/2019 9:15	R-1906250007	Mn		18.08	ug/L	0.236	EPA200.8
7/1/2019 9:36	R-1906280006	Mn		17.68	ug/L	0.236	EPA200.8
7/10/2019 9:45	R-1907090006	Mn		18.05	ug/L	0.236	EPA200.8
7/17/2019 9:35	R-1907160002	Mn		59.08	ug/L	0.236	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Mo		2.4595	ug/L	0.444	EPA200.8
6/26/2019 9:15	R-1906250007	Mo		2.282	ug/L	0.444	EPA200.8
7/1/2019 9:36	R-1906280006	Mo		2.838	ug/L	0.444	EPA200.8
7/10/2019 9:45	R-1907090006	Mo		3.044	ug/L	0.444	EPA200.8
7/17/2019 9:35	R-1907160002	Mo		2.098	ug/L	0.444	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Na		92045	ug/L	247.2	EPA200.8
6/26/2019 9:15	R-1906250007	Na		65570	ug/L	247.2	EPA200.8
7/1/2019 9:36	R-1906280006	Na		89910	ug/L	247.2	EPA200.8
7/10/2019 9:45	R-1907090006	Na		94450	ug/L	247.2	EPA200.8
7/17/2019 9:35	R-1907160002	Na		62150	ug/L	247.2	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	NH3	<	0.01	mg/L	0.01	EPA350.1
6/26/2019 9:15	R-1906250007	NH3	<	0.01	mg/L	0.01	EPA350.1
7/1/2019 9:36	R-1906280006	NH3	<	0.01	mg/L	0.01	EPA350.1
7/10/2019 9:45	R-1907090006	NH3	<	0.01	mg/L	0.01	EPA350.1
7/17/2019 9:35	R-1907160002	NH3	<	0.02	mg/L	0.02	EPA350.1
6/19/2019 9:51	R-1906180007/R-1906180009	Ni		4.1895	ug/L	0.128	EPA200.8
6/26/2019 9:15	R-1906250007	Ni	j	3.926	ug/L	0.128	EPA200.8
7/1/2019 9:36	R-1906280006	Ni	j	3.208	ug/L	0.128	EPA200.8
7/10/2019 9:45	R-1907090006	Ni	j	3.164	ug/L	0.128	EPA200.8
7/17/2019 9:35	R-1907160002	Ni	j	3.949	ug/L	0.128	EPA200.8

Euclid Creek River Mile 1.65							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/19/2019 9:51	R-1906180007/R-1906180009	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
6/26/2019 9:15	R-1906250007	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/1/2019 9:36	R-1906280006	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/10/2019 9:45	R-1907090006	NO2	<	0.008	mg/L	0.008	SM4500-NO2 B/EPA 353.2
7/17/2019 9:35	R-1907160002	NO2	<	0.008	mg/L	0.008	SM4500-NO2 B/EPA 353.2
6/19/2019 9:51	R-1906180007/R-1906180009	NO3		0.573	mg/L	0.009	EPA353.2
6/26/2019 9:15	R-1906250007	NO3		0.547	mg/L	0.009	EPA353.2
7/1/2019 9:36	R-1906280006	NO3		0.48	mg/L	0.008	EPA353.2
7/10/2019 9:45	R-1907090006	NO3		0.18	mg/L	0.009	EPA353.2
7/17/2019 9:35	R-1907160002	NO3		0.422	mg/L	0.008	EPA353.2
6/19/2019 9:51	R-1906180007/R-1906180009	NO3+NO2		0.5695	mg/L	0.009	EPA353.2
6/26/2019 9:15	R-1906250007	NO3+NO2		0.539	mg/L	0.009	EPA353.2
7/1/2019 9:36	R-1906280006	NO3+NO2		0.475	mg/L	0.008	EPA353.2
7/10/2019 9:45	R-1907090006	NO3+NO2		0.18	mg/L	0.009	EPA353.2
7/17/2019 9:35	R-1907160002	NO3+NO2		0.425	mg/L	0.008	EPA353.2
6/19/2019 9:51	R-1906180007/R-1906180009	Pb	j	0.264	ug/L	0.158	EPA200.8
6/26/2019 9:15	R-1906250007	Pb	j	0.473	ug/L	0.158	EPA200.8
7/1/2019 9:36	R-1906280006	Pb	j	0.19	ug/L	0.158	EPA200.8
7/10/2019 9:45	R-1907090006	Pb	<	0.158	ug/L	0.158	EPA200.8
7/17/2019 9:35	R-1907160002	Pb		2.118	ug/L	0.158	EPA200.8
6/19/2019 9:51	R-1906180007	pH		8	S.U.		
6/26/2019 9:15	R-1906250007	pH		7.7	S.U.		
7/1/2019 9:36	R-1906280006	pH		7.8	S.U.		
7/10/2019 9:45	R-1907090006	pH		7.9	S.U.		
7/17/2019 9:35	R-1907160002	pH		7.7	S.U.		
6/19/2019 9:51	R-1906180007/R-1906180009	Sb	<	0.944	ug/L	0.944	EPA200.8
6/26/2019 9:15	R-1906250007	Sb	<	0.944	ug/L	0.944	EPA200.8
7/1/2019 9:36	R-1906280006	Sb	<	0.944	ug/L	0.944	EPA200.8
7/10/2019 9:45	R-1907090006	Sb	<	0.944	ug/L	0.944	EPA200.8
7/17/2019 9:35	R-1907160002	Sb	<	0.944	ug/L	0.944	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Se	j	0.924	ug/L	0.808	EPA200.8
6/26/2019 9:15	R-1906250007	Se	<	0.808	ug/L	0.808	EPA200.8
7/1/2019 9:36	R-1906280006	Se	<	0.808	ug/L	0.808	EPA200.8
7/10/2019 9:45	R-1907090006	Se	<	0.808	ug/L	0.808	EPA200.8
7/17/2019 9:35	R-1907160002	Se	<	0.808	ug/L	0.808	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Sn	<	11.92	ug/L	11.92	EPA200.8
6/26/2019 9:15	R-1906250007	Sn	<	11.92	ug/L	11.92	EPA200.8
7/1/2019 9:36	R-1906280006	Sn	<	11.92	ug/L	11.92	EPA200.8
7/10/2019 9:45	R-1907090006	Sn	<	11.92	ug/L	11.92	EPA200.8
7/17/2019 9:35	R-1907160002	Sn	<	11.92	ug/L	11.92	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	SO4		61.5	mg/L	0.5	EPA300.0
6/26/2019 9:15	R-1906250007	SO4		46.89	mg/L	0.5	EPA300.0
7/1/2019 9:36	R-1906280006	SO4		58.7	mg/L	0.5	EPA300.0
7/10/2019 9:45	R-1907090006	SO4		58.54	mg/L	0.5	EPA300.0
7/17/2019 9:35	R-1907160002	SO4		27.9	mg/L	0.5	EPA300.0
6/19/2019 9:51	R-1906180007/R-1906180009	Sr		270.1255	ug/L	0.292	EPA200.8
6/26/2019 9:15	R-1906250007	Sr		235.508	ug/L	0.292	EPA200.8
7/1/2019 9:36	R-1906280006	Sr		274.537	ug/L	0.292	EPA200.8
7/10/2019 9:45	R-1907090006	Sr		288.27	ug/L	0.292	EPA200.8
7/17/2019 9:35	R-1907160002	Sr		145.516	ug/L	0.292	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	TDS		549	mg/L	1	SM2540 C
6/26/2019 9:15	R-1906250007	TDS		460	mg/L	1	SM2540 C
7/1/2019 9:36	R-1906280006	TDS		532	mg/L	1	SM2540 C

Euclid Creek River Mile 1.65							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/10/2019 9:45	R-1907090006	TDS		559	mg/L	1	SM2540 C
7/17/2019 9:35	R-1907160002	TDS		290	mg/L	1	SM2540 C
6/19/2019 9:51	R-1906180007/R-1906180009	Ti		3.3925	ug/L	0.362	EPA200.8
6/26/2019 9:15	R-1906250007	Ti		2.279	ug/L	0.362	EPA200.8
7/1/2019 9:36	R-1906280006	Ti	j	1.237	ug/L	0.362	EPA200.8
7/10/2019 9:45	R-1907090006	Ti	j	1.155	ug/L	0.362	EPA200.8
7/17/2019 9:35	R-1907160002	Ti		7.922	ug/L	0.362	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	TKN	j	0.472	mg/L	0.217	EPA351.2
6/26/2019 9:15	R-1906250007	TKN	j	0.444	mg/L	0.217	EPA351.2
7/1/2019 9:36	R-1906280006	TKN	<	0.179	mg/L	0.179	EPA351.2
7/10/2019 9:45	R-1907090006	TKN	j	0.343	mg/L	0.217	EPA351.2
7/17/2019 9:35	R-1907160002	TKN		0.562	mg/L	0.217	EPA351.2
6/19/2019 9:51	R-1906180007/R-1906180009	TI	<	0.18	ug/L	0.18	EPA200.8
6/26/2019 9:15	R-1906250007	TI	<	0.18	ug/L	0.18	EPA200.8
7/1/2019 9:36	R-1906280006	TI	<	0.18	ug/L	0.18	EPA200.8
7/10/2019 9:45	R-1907090006	TI	<	0.18	ug/L	0.18	EPA200.8
7/17/2019 9:35	R-1907160002	TI	<	0.18	ug/L	0.18	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	TMET		10.85	ug/L	10	EPA200.8
6/26/2019 9:15	R-1906250007	TMET		11.2	ug/L	10	EPA200.8
7/1/2019 9:36	R-1906280006	TMET	<	10	ug/L	10	EPA200.8
7/10/2019 9:45	R-1907090006	TMET	<	10	ug/L	10	EPA200.8
7/17/2019 9:35	R-1907160002	TMET		24.5	ug/L	10	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Total-P		0.0705	mg/L	0.01	EPA365.1
6/26/2019 9:15	R-1906250007	Total-P		0.069	mg/L	0.01	EPA365.1
7/1/2019 9:36	R-1906280006	Total-P		0.048	mg/L	0.01	EPA365.1
7/10/2019 9:45	R-1907090006	Total-P		0.04	mg/L	0.008	EPA365.1
7/17/2019 9:35	R-1907160002	Total-P		0.098	mg/L	0.008	EPA365.1
6/19/2019 9:51	R-1906180007/R-1906180009	TS		576	mg/L	1	SM2540 B
6/26/2019 9:15	R-1906250007	TS		494	mg/L	1	SM2540 B
7/1/2019 9:36	R-1906280006	TS		586	mg/L	1	SM2540 B
7/10/2019 9:45	R-1907090006	TS		578	mg/L	1	SM2540 B
7/17/2019 9:35	R-1907160002	TS		360	mg/L	1	SM2540 B
6/19/2019 9:51	R-1906180007/R-1906180009	TSS		4.25	mg/L	0.5	SM2540 D
6/26/2019 9:15	R-1906250007	TSS		4.6	mg/L	0.5	SM2540 D
7/1/2019 9:36	R-1906280006	TSS		1.3	mg/L	0.5	SM2540 D
7/10/2019 9:45	R-1907090006	TSS		1	mg/L	0.5	SM2540 D
7/17/2019 9:35	R-1907160002	TSS		48	mg/L	0.5	SM2540 D
6/19/2019 9:51	R-1906180007/R-1906180009	Turbidity		5.95	NTU		EPA180.1
6/26/2019 9:15	R-1906250007	Turbidity		11.8	NTU		EPA180.1
7/1/2019 9:36	R-1906280006	Turbidity		2.1	NTU		EPA180.1
7/10/2019 9:45	R-1907090006	Turbidity		1.4	NTU		EPA180.1
7/17/2019 9:35	R-1907160002	Turbidity		32.6	NTU		EPA180.1
6/19/2019 9:51	R-1906180007/R-1906180009	V	j	0.6	ug/L	0.47	EPA200.8
6/26/2019 9:15	R-1906250007	V	<	0.47	ug/L	0.47	EPA200.8
7/1/2019 9:36	R-1906280006	V	<	0.47	ug/L	0.47	EPA200.8
7/10/2019 9:45	R-1907090006	V	<	0.47	ug/L	0.47	EPA200.8
7/17/2019 9:35	R-1907160002	V	j	1.724	ug/L	0.47	EPA200.8
6/19/2019 9:51	R-1906180007/R-1906180009	Zn	j	2.9725	ug/L	1.782	EPA200.8
6/26/2019 9:15	R-1906250007	Zn	j	2.996	ug/L	1.782	EPA200.8
7/1/2019 9:36	R-1906280006	Zn	j	1.853	ug/L	1.782	EPA200.8
7/10/2019 9:45	R-1907090006	Zn	j	1.91	ug/L	1.782	EPA200.8
7/17/2019 9:35	R-1907160002	Zn		13.22	ug/L	1.782	EPA200.8

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/19/2019 9:10	R-1906180008	*CaCO3		193	mg/LCaCO3	1	EPA200.8
6/26/2019 9:30	R-1906250008	*CaCO3		162	mg/LCaCO3	1	EPA200.8
7/1/2019 10:00	R-1906280004	*CaCO3		176	mg/LCaCO3	1	EPA200.8
7/10/2019 9:20	R-1907090003	*CaCO3		188	mg/LCaCO3	1	EPA200.8
7/17/2019 9:05	R-1907160003	*CaCO3		99	mg/LCaCO3	1	EPA200.8
6/19/2019 9:10	R-1906180008	Ag	<	0.142	ug/L	0.142	EPA200.8
6/26/2019 9:30	R-1906250008	Ag	<	0.142	ug/L	0.142	EPA200.8
7/1/2019 10:00	R-1906280004	Ag	<	0.142	ug/L	0.142	EPA200.8
7/10/2019 9:20	R-1907090003	Ag	<	0.142	ug/L	0.142	EPA200.8
7/17/2019 9:05	R-1907160003	Ag	<	0.142	ug/L	0.142	EPA200.8
6/19/2019 9:10	R-1906180008	Al		137.6	ug/L	3.432	EPA200.8
6/26/2019 9:30	R-1906250008	Al		176.2	ug/L	3.374	EPA200.8
7/1/2019 10:00	R-1906280004	Al		525.6	ug/L	3.432	EPA200.8
7/10/2019 9:20	R-1907090003	Al		39.08	ug/L	3.432	EPA200.8
7/17/2019 9:05	R-1907160003	Al		1334	ug/L	3.432	EPA200.8
6/19/2019 9:10	R-1906180008	Alkalinity		144.9	mg/LCaCO3	5.3	EPA310.2
6/26/2019 9:30	R-1906250008	Alkalinity		121.1	mg/LCaCO3	5.3	EPA310.2
7/1/2019 10:00	R-1906280004	Alkalinity		131.5	mg/LCaCO3	5.1	EPA310.2
7/10/2019 9:20	R-1907090003	Alkalinity		134.5	mg/LCaCO3	5.1	EPA310.2
7/17/2019 9:05	R-1907160003	Alkalinity		66.5	mg/LCaCO3	5.1	EPA310.2
6/19/2019 9:10	R-1906180008	As	j	0.95	ug/L	0.292	EPA200.8
6/26/2019 9:30	R-1906250008	As	j	1.571	ug/L	0.292	EPA200.8
7/1/2019 10:00	R-1906280004	As	j	2.009	ug/L	0.292	EPA200.8
7/10/2019 9:20	R-1907090003	As	j	1.108	ug/L	0.292	EPA200.8
7/17/2019 9:05	R-1907160003	As	j	2.373	ug/L	0.292	EPA200.8
6/19/2019 9:10	R-1906180008	Ba		28.83	ug/L	0.092	EPA200.8
6/26/2019 9:30	R-1906250008	Ba		23.63	ug/L	0.092	EPA200.8
7/1/2019 10:00	R-1906280004	Ba		29.22	ug/L	0.092	EPA200.8
7/10/2019 9:20	R-1907090003	Ba		28.12	ug/L	0.092	EPA200.8
7/17/2019 9:05	R-1907160003	Ba		23.71	ug/L	0.092	EPA200.8
6/19/2019 9:10	R-1906180008	Be	<	0.094	ug/L	0.094	EPA200.8
6/26/2019 9:30	R-1906250008	Be	<	0.094	ug/L	0.094	EPA200.8
7/1/2019 10:00	R-1906280004	Be	<	0.094	ug/L	0.094	EPA200.8
7/10/2019 9:20	R-1907090003	Be	<	0.094	ug/L	0.094	EPA200.8
7/17/2019 9:05	R-1907160003	Be	<	0.094	ug/L	0.094	EPA200.8
6/19/2019 9:10	R-1906180008	BOD	<	2	mg/L	2	SM5210 B
6/26/2019 9:30	R-1906250008	BOD	<	2	mg/L	2	SM5210 B
7/1/2019 10:00	R-1906280004	BOD	<	2	mg/L	2	SM5210 B
7/10/2019 9:20	R-1907090003	BOD	<	2	mg/L	2	SM5210 B
7/17/2019 9:05	R-1907160003	BOD		4.2	mg/L	2	SM5210 B
6/19/2019 9:10	R-1906180008	Ca		56200	ug/L	62.15	EPA200.8
6/26/2019 9:30	R-1906250008	Ca		48990	ug/L	62.15	EPA200.8
7/1/2019 10:00	R-1906280004	Ca		49700	ug/L	62.15	EPA200.8
7/10/2019 9:20	R-1907090003	Ca		52890	ug/L	62.15	EPA200.8
7/17/2019 9:05	R-1907160003	Ca		28700	ug/L	62.15	EPA200.8
6/19/2019 9:10	R-1906180008	Cd	<	0.086	ug/L	0.086	EPA200.8

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/26/2019 9:30	R-1906250008	Cd	<	0.086	ug/L	0.086	EPA200.8
7/1/2019 10:00	R-1906280004	Cd	<	0.086	ug/L	0.086	EPA200.8
7/10/2019 9:20	R-1907090003	Cd	<	0.086	ug/L	0.086	EPA200.8
7/17/2019 9:05	R-1907160003	Cd	j	0.089	ug/L	0.086	EPA200.8
6/19/2019 9:10	R-1906180008	Chloride		156	mg/L	2.5	EPA300.0
6/26/2019 9:30	R-1906250008	Chloride		121.1	mg/L	2.5	EPA300.0
7/1/2019 10:00	R-1906280004	Chloride		161.5	mg/L	2.5	EPA300.0
7/10/2019 9:20	R-1907090003	Chloride		161	mg/L	2.5	EPA300.0
7/17/2019 9:05	R-1907160003	Chloride		114.1	mg/L	2.5	EPA300.0
7/1/2019 10:00	R-1906280004	ChlorophyllA		3.126	ug/L	0.007	EPA445.0
6/19/2019 9:10	R-1906180008	Co	j	0.582	ug/L	0.104	EPA200.8
6/26/2019 9:30	R-1906250008	Co	j	0.511	ug/L	0.104	EPA200.8
7/1/2019 10:00	R-1906280004	Co		1.141	ug/L	0.104	EPA200.8
7/10/2019 9:20	R-1907090003	Co	j	0.294	ug/L	0.104	EPA200.8
7/17/2019 9:05	R-1907160003	Co		1.993	ug/L	0.104	EPA200.8
6/19/2019 9:10	R-1906180008	COD		24.2	mg/L	10.3	EPA410.4
6/26/2019 9:30	R-1906250008	COD		28.7	mg/L	10.3	EPA410.4
7/1/2019 10:00	R-1906280004	COD		27.3	mg/L	10.3	EPA410.4
7/10/2019 9:20	R-1907090003	COD		22.6	mg/L	10.3	EPA410.4
7/17/2019 9:05	R-1907160003	COD		30.6	mg/L	10.3	EPA410.4
6/19/2019 9:10	R-1906180008	Conduct	HT	952.8	uS/cm	1.13	SM2510 B
6/26/2019 9:30	R-1906250008	Conduct		773.4	uS/cm	1.13	SM2510 B
7/1/2019 10:00	R-1906280004	Conduct		945.3	uS/cm	1.13	SM2510 B
7/17/2019 9:05	R-1907160003	Conduct		599.9	uS/cm	1.13	SM2510 B
6/19/2019 9:10	R-1906180008	Cr	<	0.616	ug/L	0.616	EPA200.8
6/26/2019 9:30	R-1906250008	Cr	<	0.616	ug/L	0.616	EPA200.8
7/1/2019 10:00	R-1906280004	Cr	j	1.108	ug/L	0.616	EPA200.8
7/10/2019 9:20	R-1907090003	Cr	<	0.616	ug/L	0.616	EPA200.8
7/17/2019 9:05	R-1907160003	Cr	j	2.827	ug/L	0.616	EPA200.8
6/19/2019 9:10	R-1906180008	Cu		5.169	ug/L	0.662	EPA200.8
6/26/2019 9:30	R-1906250008	Cu		4.092	ug/L	0.662	EPA200.8
7/1/2019 10:00	R-1906280004	Cu		4.09	ug/L	0.662	EPA200.8
7/10/2019 9:20	R-1907090003	Cu		2.495	ug/L	0.662	EPA200.8
7/17/2019 9:05	R-1907160003	Cu		8.272	ug/L	0.662	EPA200.8
6/19/2019 9:10	R-1906180008	DRPhos		0.049	mg/L	0.012	EPA365.1
6/26/2019 9:30	R-1906250008	DRPhos		0.041	mg/L	0.012	EPA365.1
7/1/2019 10:00	R-1906280004	DRPhos		0.028	mg/L	0.012	EPA365.1
7/10/2019 9:20	R-1907090003	DRPhos		0.029	mg/L	0.012	EPA365.1
7/17/2019 9:05	R-1907160003	DRPhos		0.03	mg/L	0.01	EPA365.1
6/19/2019 9:10	R-1906180008	E. coli		436	MPN/100 mL	1	SM9223 Colilert
6/26/2019 9:30	R-1906250008	E. coli		1320	MPN/100 mL	1	SM9223 Colilert
7/1/2019 10:00	R-1906280004	E. coli		980	MPN/100 mL	1	SM9223 Colilert
7/10/2019 9:20	R-1907090003	E. coli		589	MPN/100 mL	1	SM9223 Colilert
7/17/2019 9:05	R-1907160003	E. coli		14395	MPN/100 mL	1	SM9223 Colilert
6/19/2019 9:10	R-1906180008	Fe		654.5	ug/L	10.49	EPA200.8

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/26/2019 9:30	R-1906250008	Fe		571.9	ug/L	5.244	EPA200.8
7/1/2019 10:00	R-1906280004	Fe		1478	ug/L	10.49	EPA200.8
7/10/2019 9:20	R-1907090003	Fe		372	ug/L	10.49	EPA200.8
7/17/2019 9:05	R-1907160003	Fe		2666	ug/L	10.49	EPA200.8
6/19/2019 9:10	R-1906180008	Field Cond		836	umhos/cm		SM 2510A
6/26/2019 9:30	R-1906250008	Field Cond		678	umhos/cm		SM 2510A
7/1/2019 10:00	R-1906280004	Field Cond		858	umhos/cm		SM 2510A
7/10/2019 9:20	R-1907090003	Field Cond		882	umhos/cm		SM 2510A
7/17/2019 9:05	R-1907160003	Field Cond		564	umhos/cm		SM 2510A
6/19/2019 9:10	R-1906180008	Field Spec Cond		958	umhos/cm		SM 2510B
6/26/2019 9:30	R-1906250008	Field Spec Cond		738	umhos/cm		SM 2510B
7/1/2019 10:00	R-1906280004	Field Spec Cond		933	umhos/cm		SM 2510B
7/10/2019 9:20	R-1907090003	Field Spec Cond		929	umhos/cm		SM 2510B
7/17/2019 9:05	R-1907160003	Field Spec Cond		595	umhos/cm		SM 2510B
6/19/2019 9:10	R-1906180008	Field DO		9.9	mg/L		SM 4500-0 G
6/26/2019 9:30	R-1906250008	Field DO		9.3	mg/L		SM 4500-0 G
7/1/2019 10:00	R-1906280004	Field DO		9.3	mg/L		SM 4500-0 G
7/10/2019 9:20	R-1907090003	Field DO		8.65	mg/L		SM 4500-0 G
7/17/2019 9:05	R-1907160003	Field DO		8.2	mg/L		SM 4500-0 G
6/19/2019 9:10	R-1906180008	Field DO		106	%		
6/26/2019 9:30	R-1906250008	Field DO		104	%		
7/1/2019 10:00	R-1906280004	Field DO		105	%		
7/10/2019 9:20	R-1907090003	Field DO		98	%		
7/17/2019 9:05	R-1907160003	Field DO		94	%		
6/19/2019 9:10	R-1906180008	Field Temp		18.3	C		EPA 170.1
6/26/2019 9:30	R-1906250008	Field Temp		20.6	C		EPA 170.1
7/1/2019 10:00	R-1906280004	Field Temp		20.9	C		EPA 170.1
7/10/2019 9:20	R-1907090003	Field Temp		22.3	C		EPA 170.1
7/17/2019 9:05	R-1907160003	Field Temp		22.2	C		EPA 170.1
6/19/2019 9:10	R-1906180008	Hg	<	0.019	ug/L	0.019	EPA245.1
6/26/2019 9:30	R-1906250008	Hg	<	0.019	ug/L	0.019	EPA245.1
7/1/2019 10:00	R-1906280004	Hg	<	0.022	ug/L	0.022	EPA245.1
7/10/2019 9:20	R-1907090003	Hg	<	0.022	ug/L	0.022	EPA245.1
7/17/2019 9:05	R-1907160003	Hg	<	0.022	ug/L	0.022	EPA245.1
6/19/2019 9:10	R-1906180008	K		3595	ug/L	71.95	EPA200.8
6/26/2019 9:30	R-1906250008	K		3900	ug/L	71.95	EPA200.8
7/1/2019 10:00	R-1906280004	K		3513	ug/L	71.95	EPA200.8
7/10/2019 9:20	R-1907090003	K		3380	ug/L	71.95	EPA200.8
7/17/2019 9:05	R-1907160003	K		2605	ug/L	71.95	EPA200.8
6/19/2019 9:10	R-1906180008	Mg		12780	ug/L	17.58	EPA200.8
6/26/2019 9:30	R-1906250008	Mg		9749	ug/L	8.79	EPA200.8
7/1/2019 10:00	R-1906280004	Mg		12570	ug/L	17.58	EPA200.8
7/10/2019 9:20	R-1907090003	Mg		13480	ug/L	17.58	EPA200.8
7/17/2019 9:05	R-1907160003	Mg		6726	ug/L	17.58	EPA200.8
6/19/2019 9:10	R-1906180008	Mn		23.14	ug/L	0.236	EPA200.8
6/26/2019 9:30	R-1906250008	Mn		19.48	ug/L	0.236	EPA200.8

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/1/2019 10:00	R-1906280004	Mn		51.1	ug/L	0.236	EPA200.8
7/10/2019 9:20	R-1907090003	Mn		27.4	ug/L	0.236	EPA200.8
7/17/2019 9:05	R-1907160003	Mn		108.3	ug/L	0.236	EPA200.8
6/19/2019 9:10	R-1906180008	Mo		2.582	ug/L	0.444	EPA200.8
6/26/2019 9:30	R-1906250008	Mo		2.564	ug/L	0.444	EPA200.8
7/1/2019 10:00	R-1906280004	Mo		2.691	ug/L	0.444	EPA200.8
7/10/2019 9:20	R-1907090003	Mo		3.128	ug/L	0.444	EPA200.8
7/17/2019 9:05	R-1907160003	Mo		1.847	ug/L	0.444	EPA200.8
6/19/2019 9:10	R-1906180008	Na		94350	ug/L	247.2	EPA200.8
6/26/2019 9:30	R-1906250008	Na		76420	ug/L	247.2	EPA200.8
7/1/2019 10:00	R-1906280004	Na		90250	ug/L	247.2	EPA200.8
7/10/2019 9:20	R-1907090003	Na		91220	ug/L	247.2	EPA200.8
7/17/2019 9:05	R-1907160003	Na		69480	ug/L	247.2	EPA200.8
6/19/2019 9:10	R-1906180008	NH3		0.024	mg/L	0.01	EPA350.1
6/26/2019 9:30	R-1906250008	NH3	<	0.01	mg/L	0.01	EPA350.1
7/1/2019 10:00	R-1906280004	NH3	<	0.01	mg/L	0.01	EPA350.1
7/10/2019 9:20	R-1907090003	NH3	<	0.01	mg/L	0.01	EPA350.1
7/17/2019 9:05	R-1907160003	NH3	<	0.02	mg/L	0.02	EPA350.1
6/19/2019 9:10	R-1906180008	Ni		4.548	ug/L	0.128	EPA200.8
6/26/2019 9:30	R-1906250008	Ni		4.1	ug/L	0.128	EPA200.8
7/1/2019 10:00	R-1906280004	Ni		5.861	ug/L	0.128	EPA200.8
7/10/2019 9:20	R-1907090003	Ni	j	3.143	ug/L	0.128	EPA200.8
7/17/2019 9:05	R-1907160003	Ni		6.414	ug/L	0.128	EPA200.8
6/19/2019 9:10	R-1906180008	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
6/26/2019 9:30	R-1906250008	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/1/2019 10:00	R-1906280004	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/17/2019 9:05	R-1907160003	NO2	<	0.008	mg/L	0.008	SM4500-NO2 B/EPA 353.2
6/19/2019 9:10	R-1906180008	NO3		0.561	mg/L	0.009	EPA353.2
6/26/2019 9:30	R-1906250008	NO3		0.524	mg/L	0.009	EPA353.2
7/1/2019 10:00	R-1906280004	NO3		0.398	mg/L	0.008	EPA353.2
7/17/2019 9:05	R-1907160003	NO3		0.47	mg/L	0.008	EPA353.2
6/19/2019 9:10	R-1906180008	NO3+NO2		0.557	mg/L	0.009	EPA353.2
6/26/2019 9:30	R-1906250008	NO3+NO2		0.517	mg/L	0.009	EPA353.2
7/1/2019 10:00	R-1906280004	NO3+NO2		0.391	mg/L	0.008	EPA353.2
7/17/2019 9:05	R-1907160003	NO3+NO2		0.476	mg/L	0.008	EPA353.2
7/1/2019 10:00	R-1906280004	NO3-NO2		0.391	mg/L	0.009	EPA353.2
7/10/2019 9:20	R-1907090003	NO3-NO2		0.102	mg/L	0.008	EPA353.2
6/19/2019 9:10	R-1906180008	Pb	j	0.432	ug/L	0.158	EPA200.8
6/26/2019 9:30	R-1906250008	Pb	j	0.615	ug/L	0.158	EPA200.8
7/1/2019 10:00	R-1906280004	Pb		1.907	ug/L	0.158	EPA200.8
7/10/2019 9:20	R-1907090003	Pb	j	0.246	ug/L	0.158	EPA200.8
7/17/2019 9:05	R-1907160003	Pb		4.448	ug/L	0.158	EPA200.8
6/19/2019 9:10	R-1906180008	pH		8	S.U.		
6/26/2019 9:30	R-1906250008	pH		7.8	S.U.		
7/1/2019 10:00	R-1906280004	pH		7.9	S.U.		

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/10/2019 9:20	R-1907090003	pH		7.7	S.U.		
7/17/2019 9:05	R-1907160003	pH		7.4	S.U.		
6/19/2019 9:10	R-1906180008	Sb	<	0.944	ug/L	0.944	EPA200.8
6/26/2019 9:30	R-1906250008	Sb	<	0.944	ug/L	0.944	EPA200.8
7/1/2019 10:00	R-1906280004	Sb	<	0.944	ug/L	0.944	EPA200.8
7/10/2019 9:20	R-1907090003	Sb	<	0.944	ug/L	0.944	EPA200.8
7/17/2019 9:05	R-1907160003	Sb	<	0.944	ug/L	0.944	EPA200.8
6/19/2019 9:10	R-1906180008	Se	<	0.808	ug/L	0.808	EPA200.8
6/26/2019 9:30	R-1906250008	Se	<	0.808	ug/L	0.808	EPA200.8
7/1/2019 10:00	R-1906280004	Se	<	0.808	ug/L	0.808	EPA200.8
7/10/2019 9:20	R-1907090003	Se	<	0.808	ug/L	0.808	EPA200.8
7/17/2019 9:05	R-1907160003	Se	<	0.808	ug/L	0.808	EPA200.8
6/19/2019 9:10	R-1906180008	Sn	<	11.92	ug/L	11.92	EPA200.8
6/26/2019 9:30	R-1906250008	Sn	<	5.958	ug/L	5.958	EPA200.8
7/1/2019 10:00	R-1906280004	Sn	<	11.92	ug/L	11.92	EPA200.8
7/10/2019 9:20	R-1907090003	Sn	<	11.92	ug/L	11.92	EPA200.8
7/17/2019 9:05	R-1907160003	Sn	<	11.92	ug/L	11.92	EPA200.8
6/19/2019 9:10	R-1906180008	SO4		62.69	mg/L	0.5	EPA300.0
6/26/2019 9:30	R-1906250008	SO4		47.77	mg/L	0.5	EPA300.0
7/1/2019 10:00	R-1906280004	SO4		61.04	mg/L	0.5	EPA300.0
7/10/2019 9:20	R-1907090003	SO4		58.35	mg/L	0.5	EPA300.0
7/17/2019 9:05	R-1907160003	SO4		29.42	mg/L	0.5	EPA300.0
6/19/2019 9:10	R-1906180008	Sr		286.3	ug/L	0.292	EPA200.8
6/26/2019 9:30	R-1906250008	Sr		239.138	ug/L	0.292	EPA200.8
7/1/2019 10:00	R-1906280004	Sr		282.889	ug/L	0.292	EPA200.8
7/10/2019 9:20	R-1907090003	Sr		278.8	ug/L	0.292	EPA200.8
7/17/2019 9:05	R-1907160003	Sr		157.714	ug/L	0.292	EPA200.8
6/19/2019 9:10	R-1906180008	TDS		538	mg/L	1	SM2540 C
6/26/2019 9:30	R-1906250008	TDS		442	mg/L	1	SM2540 C
7/1/2019 10:00	R-1906280004	TDS		552	mg/L	1	SM2540 C
7/10/2019 9:20	R-1907090003	TDS		524	mg/L	1	SM2540 C
7/17/2019 9:05	R-1907160003	TDS		346	mg/L	1	SM2540 C
6/19/2019 9:10	R-1906180008	Ti		3.494	ug/L	0.362	EPA200.8
6/26/2019 9:30	R-1906250008	Ti		3.17	ug/L	0.362	EPA200.8
7/1/2019 10:00	R-1906280004	Ti		5.971	ug/L	0.362	EPA200.8
7/10/2019 9:20	R-1907090003	Ti	j	0.948	ug/L	0.362	EPA200.8
7/17/2019 9:05	R-1907160003	Ti		11.84	ug/L	0.362	EPA200.8
6/19/2019 9:10	R-1906180008	TKN	j	0.488	mg/L	0.217	EPA351.2
6/26/2019 9:30	R-1906250008	TKN	j	0.427	mg/L	0.217	EPA351.2
7/1/2019 10:00	R-1906280004	TKN	j	0.35	mg/L	0.217	EPA351.2
7/10/2019 9:20	R-1907090003	TKN	j	0.406	mg/L	0.217	EPA351.2
7/17/2019 9:05	R-1907160003	TKN		1.006	mg/L	0.217	EPA351.2
6/19/2019 9:10	R-1906180008	TI	<	0.18	ug/L	0.18	EPA200.8
6/26/2019 9:30	R-1906250008	TI	<	0.18	ug/L	0.18	EPA200.8
7/1/2019 10:00	R-1906280004	TI	<	0.18	ug/L	0.18	EPA200.8
7/10/2019 9:20	R-1907090003	TI	<	0.18	ug/L	0.18	EPA200.8

Euclid Creek River Mile 0.55 (EM5)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/17/2019 9:05	R-1907160003	TI	<	0.18	ug/L	0.18	EPA200.8
6/19/2019 9:10	R-1906180008	TMET		14	ug/L	10	EPA200.8
6/26/2019 9:30	R-1906250008	TMET		12.1	ug/L	10	EPA200.8
7/1/2019 10:00	R-1906280004	TMET		20	ug/L	10	EPA200.8
7/10/2019 9:20	R-1907090003	TMET	<	10	ug/L	10	EPA200.8
7/17/2019 9:05	R-1907160003	TMET		39.8	ug/L	10	EPA200.8
6/19/2019 9:10	R-1906180008	Total-P		0.065	mg/L	0.01	EPA365.1
6/26/2019 9:30	R-1906250008	Total-P		0.069	mg/L	0.01	EPA365.1
7/1/2019 10:00	R-1906280004	Total-P		0.061	mg/L	0.01	EPA365.1
7/10/2019 9:20	R-1907090003	Total-P		0.045	mg/L	0.008	EPA365.1
7/17/2019 9:05	R-1907160003	Total-P		0.121	mg/L	0.008	EPA365.1
6/19/2019 9:10	R-1906180008	TS		588	mg/L	1	SM2540 B
6/26/2019 9:30	R-1906250008	TS		484	mg/L	1	SM2540 B
7/1/2019 10:00	R-1906280004	TS		580	mg/L	1	SM2540 B
7/10/2019 9:20	R-1907090003	TS		574	mg/L	1	SM2540 B
7/17/2019 9:05	R-1907160003	TS		420	mg/L	1	SM2540 B
6/19/2019 9:10	R-1906180008	TSS		12.3	mg/L	0.5	SM2540 D
6/26/2019 9:30	R-1906250008	TSS		4.5	mg/L	0.5	SM2540 D
7/1/2019 10:00	R-1906280004	TSS		7.5	mg/L	0.5	SM2540 D
7/10/2019 9:20	R-1907090003	TSS		2.1	mg/L	0.5	SM2540 D
7/17/2019 9:05	R-1907160003	TSS		85.3	mg/L	0.5	SM2540 D
6/19/2019 9:10	R-1906180008	Turbidity		5.9	NTU		EPA180.1
6/26/2019 9:30	R-1906250008	Turbidity		10	NTU		EPA180.1
7/1/2019 10:00	R-1906280004	Turbidity		10.5	NTU		EPA180.1
7/10/2019 9:20	R-1907090003	Turbidity		1.7	NTU		EPA180.1
7/17/2019 9:05	R-1907160003	Turbidity		38.2	NTU		EPA180.1
6/19/2019 9:10	R-1906180008	V	j	0.602	ug/L	0.47	EPA200.8
6/26/2019 9:30	R-1906250008	V	<	0.47	ug/L	0.47	EPA200.8
7/1/2019 10:00	R-1906280004	V	j	0.948	ug/L	0.47	EPA200.8
7/10/2019 9:20	R-1907090003	V	<	0.47	ug/L	0.47	EPA200.8
7/17/2019 9:05	R-1907160003	V	j	2.914	ug/L	0.47	EPA200.8
6/19/2019 9:10	R-1906180008	Zn	j	4.299	ug/L	1.782	EPA200.8
6/26/2019 9:30	R-1906250008	Zn	j	3.617	ug/L	1.782	EPA200.8
7/1/2019 10:00	R-1906280004	Zn	j	8.994	ug/L	1.782	EPA200.8
7/10/2019 9:20	R-1907090003	Zn	j	2.529	ug/L	1.782	EPA200.8
7/17/2019 9:05	R-1907160003	Zn		22.32	ug/L	1.782	EPA200.8

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/18/2019 10:05	R-1906130004	*CaCO3		120	mg/LCaCO3	1	EPA200.8
6/25/2019 10:15	R-1906240004	*CaCO3		118	mg/LCaCO3	1	EPA200.8
7/2/2019 9:55	R-1906280015	*CaCO3		190	mg/LCaCO3	1	EPA200.8
7/9/2019 10:05	R-1907080004	*CaCO3		169	mg/LCaCO3	1	EPA200.8
7/16/2019 11:00	R-1907150004	*CaCO3		186	mg/LCaCO3	1	EPA200.8
6/18/2019 10:05	R-1906130004	Ag	<	0.142	ug/L	0.142	EPA200.8
6/25/2019 10:15	R-1906240004	Ag	<	0.142	ug/L	0.142	EPA200.8
7/2/2019 9:55	R-1906280015	Ag	<	0.142	ug/L	0.142	EPA200.8
7/9/2019 10:05	R-1907080004	Ag	<	0.142	ug/L	0.142	EPA200.8
7/16/2019 11:00	R-1907150004	Ag	<	0.142	ug/L	0.142	EPA200.8
6/18/2019 10:05	R-1906130004	Al		1975	ug/L	3.432	EPA200.8
6/25/2019 10:15	R-1906240004	Al		3839	ug/L	3.432	EPA200.8
7/2/2019 9:55	R-1906280015	Al		197	ug/L	3.432	EPA200.8
7/9/2019 10:05	R-1907080004	Al		170	ug/L	3.432	EPA200.8
7/16/2019 11:00	R-1907150004	Al		41.52	ug/L	3.432	EPA200.8
6/18/2019 10:05	R-1906130004	Alkalinity		105.6	mg/LCaCO3	4.6	EPA310.2
6/25/2019 10:15	R-1906240004	Alkalinity		92.4	mg/LCaCO3	5.3	EPA310.2
7/2/2019 9:55	R-1906280015	Alkalinity		139.8	mg/LCaCO3	5.1	EPA310.2
7/9/2019 10:05	R-1907080004	Alkalinity		150.2	mg/LCaCO3	5.1	EPA310.2
7/16/2019 11:00	R-1907150004	Alkalinity		128.8	mg/LCaCO3	5.1	EPA310.2
6/25/2019 10:15	R-1906240004	As	j	3.084	ug/L	0.292	EPA200.8
7/2/2019 9:55	R-1906280015	As	j	1.838	ug/L	0.292	EPA200.8
7/9/2019 10:05	R-1907080004	As	j	1.829	ug/L	0.292	EPA200.8
7/16/2019 11:00	R-1907150004	As	j	1.276	ug/L	0.292	EPA200.8
6/18/2019 10:05	R-1906130004	Ba		37.86	ug/L	0.092	EPA200.8
6/25/2019 10:15	R-1906240004	Ba		58.98	ug/L	0.092	EPA200.8
7/2/2019 9:55	R-1906280015	Ba		31.38	ug/L	0.092	EPA200.8
7/9/2019 10:05	R-1907080004	Ba		32.67	ug/L	0.092	EPA200.8
7/16/2019 11:00	R-1907150004	Ba		30.94	ug/L	0.092	EPA200.8
6/18/2019 10:05	R-1906130004	Be	j	0.126	ug/L	0.094	EPA200.8
6/25/2019 10:15	R-1906240004	Be	j	0.162	ug/L	0.094	EPA200.8
7/2/2019 9:55	R-1906280015	Be	<	0.094	ug/L	0.094	EPA200.8
7/9/2019 10:05	R-1907080004	Be	<	0.094	ug/L	0.094	EPA200.8
7/16/2019 11:00	R-1907150004	Be	<	0.094	ug/L	0.094	EPA200.8
6/18/2019 10:05	R-1906130004	BOD		2.9	mg/L	2	SM5210 B
6/25/2019 10:15	R-1906240004	BOD		6.7	mg/L	2	SM5210 B
7/2/2019 9:55	R-1906280015	BOD	<	2	mg/L	2	SM5210 B
7/9/2019 10:05	R-1907080004	BOD		2.3	mg/L	2	SM5210 B
7/16/2019 11:00	R-1907150004	BOD		3	mg/L	2	SM5210 B
6/18/2019 10:05	R-1906130004	Ca		33930	ug/L	62.15	EPA200.8
6/25/2019 10:15	R-1906240004	Ca		33720	ug/L	62.15	EPA200.8
7/2/2019 9:55	R-1906280015	Ca		55680	ug/L	62.15	EPA200.8
7/9/2019 10:05	R-1907080004	Ca		48510	ug/L	62.15	EPA200.8
7/16/2019 11:00	R-1907150004	Ca		53240	ug/L	62.15	EPA200.8

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/18/2019 10:05	R-1906130004	Cd	<	0.086	ug/L	0.086	EPA200.8
6/25/2019 10:15	R-1906240004	Cd	j	0.185	ug/L	0.086	EPA200.8
7/2/2019 9:55	R-1906280015	Cd	<	0.086	ug/L	0.086	EPA200.8
7/9/2019 10:05	R-1907080004	Cd	<	0.086	ug/L	0.086	EPA200.8
7/16/2019 11:00	R-1907150004	Cd	<	0.086	ug/L	0.086	EPA200.8
6/18/2019 10:05	R-1906130004	Chloride		39.24	mg/L	2.5	EPA300.0
6/25/2019 10:15	R-1906240004	Chloride		37.82	mg/L	2.5	EPA300.0
7/2/2019 9:55	R-1906280015	Chloride		82.08	mg/L	2.5	EPA300.0
7/9/2019 10:05	R-1907080004	Chloride		90.41	mg/L	2.5	EPA300.0
7/16/2019 11:00	R-1907150004	Chloride		125.3	mg/L	2.5	EPA300.0
6/18/2019 10:05	R-1906130004	Co		1.934	ug/L	0.104	EPA200.8
6/25/2019 10:15	R-1906240004	Co		4.279	ug/L	0.104	EPA200.8
7/2/2019 9:55	R-1906280015	Co	j	0.586	ug/L	0.104	EPA200.8
7/9/2019 10:05	R-1907080004	Co	j	0.565	ug/L	0.104	EPA200.8
7/16/2019 11:00	R-1907150004	Co	j	0.569	ug/L	0.104	EPA200.8
6/18/2019 10:05	R-1906130004	COD		38.7	mg/L	10.3	EPA410.4
6/25/2019 10:15	R-1906240004	COD		29.9	mg/L	10.3	EPA410.4
7/2/2019 9:55	R-1906280015	COD		26.6	mg/L	10.3	EPA410.4
7/9/2019 10:05	R-1907080004	COD	j	20.8	mg/L	10.3	EPA410.4
6/18/2019 10:05	R-1906130004	Conduct	HT	424	uS/cm	1.13	SM2510 B
6/25/2019 10:15	R-1906240004	Conduct		420	uS/cm	1.13	SM2510 B
7/2/2019 9:55	R-1906280015	Conduct		674.5	uS/cm	1.13	SM2510 B
7/9/2019 10:05	R-1907080004	Conduct		707.7	uS/cm	1.13	SM2510 B
7/16/2019 11:00	R-1907150004	Conduct		809	uS/cm	1.13	SM2510 B
6/18/2019 10:05	R-1906130004	Cr	j	2.711	ug/L	0.616	EPA200.8
6/25/2019 10:15	R-1906240004	Cr		5.458	ug/L	0.616	EPA200.8
7/2/2019 9:55	R-1906280015	Cr	<	0.616	ug/L	0.616	EPA200.8
7/9/2019 10:05	R-1907080004	Cr	<	0.616	ug/L	0.616	EPA200.8
7/16/2019 11:00	R-1907150004	Cr	<	0.616	ug/L	0.616	EPA200.8
6/18/2019 10:05	R-1906130004	Cu		6.627	ug/L	0.662	EPA200.8
6/25/2019 10:15	R-1906240004	Cu		11.28	ug/L	0.662	EPA200.8
7/2/2019 9:55	R-1906280015	Cu		3.267	ug/L	0.662	EPA200.8
7/9/2019 10:05	R-1907080004	Cu		3.186	ug/L	0.662	EPA200.8
7/16/2019 11:00	R-1907150004	Cu		4.174	ug/L	0.662	EPA200.8
6/18/2019 10:05	R-1906130004	DRPhos		0.033	mg/L	0.012	EPA365.1
6/25/2019 10:15	R-1906240004	DRPhos		0.055	mg/L	0.012	EPA365.1
7/2/2019 9:55	R-1906280015	DRPhos	j	0.022	mg/L	0.012	EPA365.1
7/9/2019 10:05	R-1907080004	DRPhos		0.029	mg/L	0.012	EPA365.1
7/16/2019 11:00	R-1907150004	DRPhos	<	0.01	mg/L	0.01	EPA365.1
6/18/2019 10:05	R-1906130004	E. coli		1946	MPN/100 mL	1	SM9223 Colilert
6/25/2019 10:15	R-1906240004	E. coli		12760	MPN/100 mL	1	SM9223 Colilert
7/2/2019 9:55	R-1906280015	E. coli		180	MPN/100 mL	1	SM9223 Colilert
7/9/2019 10:05	R-1907080004	E. coli		4570	MPN/100 mL	1	SM9223 Colilert

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/16/2019 11:00	R-1907150004	E. coli		8650	MPN/100 mL	1	SM9223 Colilert
6/18/2019 10:05	R-1906130004	Fe		3670	ug/L	10.49	EPA200.8
6/25/2019 10:15	R-1906240004	Fe		6664	ug/L	10.49	EPA200.8
7/2/2019 9:55	R-1906280015	Fe		699.6	ug/L	10.49	EPA200.8
7/9/2019 10:05	R-1907080004	Fe		659.4	ug/L	10.49	EPA200.8
7/16/2019 11:00	R-1907150004	Fe		372.6	ug/L	10.49	EPA200.8
6/18/2019 10:05	R-1906130004	Field Cond		385	umhos/cm		SM 2510A
6/25/2019 10:15	R-1906240004	Field Cond		369	umhos/cm		SM 2510A
7/2/2019 9:55	R-1906280015	Field Cond		663	umhos/cm		SM 2510A
7/9/2019 10:05	R-1907080004	Field Cond		655	umhos/cm		SM 2510A
7/16/2019 11:00	R-1907150004	Field Cond		822	umhos/cm		SM 2510A
6/18/2019 10:05	R-1906130004	Field Spec Cond		441	umhos/cm		SM 2510B
6/25/2019 10:15	R-1906240004	Field Spec Cond		396	umhos/cm		SM 2510B
7/2/2019 9:55	R-1906280015	Field Spec Cond		678	umhos/cm		SM 2510B
7/9/2019 10:05	R-1907080004	Field Spec Cond		712	umhos/cm		SM 2510B
7/16/2019 11:00	R-1907150004	Field Spec Cond		820	umhos/cm		SM 2510B
6/18/2019 10:05	R-1906130004	Field DO		9.4	mg/L		SM 4500-0 G
6/25/2019 10:15	R-1906240004	Field DO		8.4	mg/L		SM 4500-0 G
7/2/2019 9:55	R-1906280015	Field DO		9.3	mg/L		SM 4500-0 G
7/9/2019 10:05	R-1907080004	Field DO		9.8	mg/L		SM 4500-0 G
7/16/2019 11:00	R-1907150004	Field DO		10.2	mg/L		SM 4500-0 G
6/18/2019 10:05	R-1906130004	Field DO		98	%		
6/25/2019 10:15	R-1906240004	Field DO		95	%		
7/2/2019 9:55	R-1906280015	Field DO		110	%		
7/9/2019 10:05	R-1907080004	Field DO		110	%		
7/16/2019 11:00	R-1907150004	Field DO		124	%		
6/18/2019 10:05	R-1906130004	Field Temp		18.4	C		EPA 170.1
6/25/2019 10:15	R-1906240004	Field Temp		21.3	C		EPA 170.1
7/2/2019 9:55	R-1906280015	Field Temp		23.8	C		EPA 170.1
7/9/2019 10:05	R-1907080004	Field Temp		20.8	C		EPA 170.1
7/16/2019 11:00	R-1907150004	Field Temp		25.1	C		EPA 170.1
6/18/2019 10:05	R-1906130004	Hg	<	0.019	ug/L	0.019	EPA245.1
6/25/2019 10:15	R-1906240004	Hg	<	0.019	ug/L	0.019	EPA245.1
7/2/2019 9:55	R-1906280015	Hg	<	0.022	ug/L	0.022	EPA245.1
7/9/2019 10:05	R-1907080004	Hg	<	0.022	ug/L	0.022	EPA245.1
7/16/2019 11:00	R-1907150004	Hg	<	0.022	ug/L	0.022	EPA245.1
6/18/2019 10:05	R-1906130004	K		3614	ug/L	71.95	EPA200.8
6/25/2019 10:15	R-1906240004	K		4068	ug/L	71.95	EPA200.8
7/2/2019 9:55	R-1906280015	K		5286	ug/L	71.95	EPA200.8
7/9/2019 10:05	R-1907080004	K		5110	ug/L	71.95	EPA200.8
7/16/2019 11:00	R-1907150004	K		7702	ug/L	71.95	EPA200.8
6/18/2019 10:05	R-1906130004	Mg		8649	ug/L	17.58	EPA200.8
6/25/2019 10:15	R-1906240004	Mg		8320	ug/L	17.58	EPA200.8

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/2/2019 9:55	R-1906280015	Mg		12440	ug/L	17.58	EPA200.8
7/9/2019 10:05	R-1907080004	Mg		11700	ug/L	17.58	EPA200.8
7/16/2019 11:00	R-1907150004	Mg		13010	ug/L	17.58	EPA200.8
6/18/2019 10:05	R-1906130004	Mn		130.5	ug/L	0.236	EPA200.8
6/25/2019 10:15	R-1906240004	Mn		266.9	ug/L	0.236	EPA200.8
7/2/2019 9:55	R-1906280015	Mn		32.9	ug/L	0.236	EPA200.8
7/9/2019 10:05	R-1907080004	Mn		23.47	ug/L	0.236	EPA200.8
7/16/2019 11:00	R-1907150004	Mn		22.08	ug/L	0.236	EPA200.8
6/18/2019 10:05	R-1906130004	Mo		1.837	ug/L	0.444	EPA200.8
6/25/2019 10:15	R-1906240004	Mo	j	0.803	ug/L	0.444	EPA200.8
7/2/2019 9:55	R-1906280015	Mo		3.803	ug/L	0.444	EPA200.8
7/9/2019 10:05	R-1907080004	Mo		4.215	ug/L	0.444	EPA200.8
7/16/2019 11:00	R-1907150004	Mo		5.864	ug/L	0.444	EPA200.8
6/18/2019 10:05	R-1906130004	Na		23980	ug/L	247.2	EPA200.8
6/25/2019 10:15	R-1906240004	Na		23210	ug/L	247.2	EPA200.8
7/2/2019 9:55	R-1906280015	Na		53360	ug/L	247.2	EPA200.8
7/9/2019 10:05	R-1907080004	Na		53890	ug/L	247.2	EPA200.8
7/16/2019 11:00	R-1907150004	Na		77350	ug/L	247.2	EPA200.8
6/18/2019 10:05	R-1906130004	NH3		0.075	mg/L	0.01	EPA350.1
6/25/2019 10:15	R-1906240004	NH3		0.1	mg/L	0.01	EPA350.1
7/2/2019 9:55	R-1906280015	NH3	<	0.01	mg/L	0.01	EPA350.1
7/9/2019 10:05	R-1907080004	NH3		0.026	mg/L	0.01	EPA350.1
7/16/2019 11:00	R-1907150004	NH3	<	0.02	mg/L	0.02	EPA350.1
6/18/2019 10:05	R-1906130004	Ni		7.026	ug/L	0.128	EPA200.8
6/25/2019 10:15	R-1906240004	Ni		12.91	ug/L	0.128	EPA200.8
7/2/2019 9:55	R-1906280015	Ni		6.507	ug/L	0.128	EPA200.8
7/9/2019 10:05	R-1907080004	Ni		7.29	ug/L	0.128	EPA200.8
7/16/2019 11:00	R-1907150004	Ni		11.36	ug/L	0.128	EPA200.8
6/18/2019 10:05	R-1906130004	NO2		0.036	mg/L	0.005	SM4500-NO2 B/EPA 353.2
6/25/2019 10:15	R-1906240004	NO2		0.047	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/2/2019 9:55	R-1906280015	NO2	j	0.01	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/9/2019 10:05	R-1907080004	NO2	j	0.012	mg/L	0.008	SM4500-NO2 B/EPA 353.2
7/16/2019 11:00	R-1907150004	NO2		0.068	mg/L	0.008	SM4500-NO2 B/EPA 353.2
6/18/2019 10:05	R-1906130004	NO3		0.691	mg/L	0.009	EPA353.2
6/25/2019 10:15	R-1906240004	NO3		0.643	mg/L	0.009	EPA353.2
7/2/2019 9:55	R-1906280015	NO3		1.337	mg/L	0.009	EPA353.2
7/9/2019 10:05	R-1907080004	NO3		5.466	mg/L	0.045	EPA353.2
7/16/2019 11:00	R-1907150004	NO3		2.1	mg/L	0.016	EPA353.2
6/18/2019 10:05	R-1906130004	NO3+NO2		0.727	mg/L	0.009	EPA353.2
6/25/2019 10:15	R-1906240004	NO3+NO2		0.692	mg/L	0.009	EPA353.2
7/2/2019 9:55	R-1906280015	NO3+NO2		1.347	mg/L	0.009	EPA353.2
7/9/2019 10:05	R-1907080004	NO3+NO2		5.479	mg/L	0.045	EPA353.2
7/16/2019 11:00	R-1907150004	NO3+NO2		2.168	mg/L	0.016	EPA353.2

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/18/2019 10:05	R-1906130004	Pb		3.572	ug/L	0.158	EPA200.8
6/25/2019 10:15	R-1906240004	Pb		8.433	ug/L	0.158	EPA200.8
7/2/2019 9:55	R-1906280015	Pb	j	0.524	ug/L	0.158	EPA200.8
7/9/2019 10:05	R-1907080004	Pb	j	0.381	ug/L	0.158	EPA200.8
7/16/2019 11:00	R-1907150004	Pb	j	0.228	ug/L	0.158	EPA200.8
6/18/2019 10:05	R-1906130004	pH		7.8	S.U.		
6/25/2019 10:15	R-1906240004	pH		7.5	S.U.		
7/2/2019 9:55	R-1906280015	pH		8	S.U.		
7/9/2019 10:05	R-1907080004	pH		8.1	S.U.		
7/16/2019 11:00	R-1907150004	pH		8.1	S.U.		
6/18/2019 10:05	R-1906130004	Sb	<	0.944	ug/L	0.944	EPA200.8
6/25/2019 10:15	R-1906240004	Sb	<	0.944	ug/L	0.944	EPA200.8
7/2/2019 9:55	R-1906280015	Sb	<	0.944	ug/L	0.944	EPA200.8
7/9/2019 10:05	R-1907080004	Sb	<	0.944	ug/L	0.944	EPA200.8
7/16/2019 11:00	R-1907150004	Sb	<	0.944	ug/L	0.944	EPA200.8
6/25/2019 10:15	R-1906240004	Se	j	0.825	ug/L	0.808	EPA200.8
7/2/2019 9:55	R-1906280015	Se	<	0.808	ug/L	0.808	EPA200.8
7/9/2019 10:05	R-1907080004	Se	<	0.808	ug/L	0.808	EPA200.8
7/16/2019 11:00	R-1907150004	Se	<	0.808	ug/L	0.808	EPA200.8
6/18/2019 10:05	R-1906130004	Sn	<	11.92	ug/L	11.92	EPA200.8
6/25/2019 10:15	R-1906240004	Sn	<	11.92	ug/L	11.92	EPA200.8
7/2/2019 9:55	R-1906280015	Sn	<	11.92	ug/L	11.92	EPA200.8
7/9/2019 10:05	R-1907080004	Sn	<	11.92	ug/L	11.92	EPA200.8
7/16/2019 11:00	R-1907150004	Sn	<	11.92	ug/L	11.92	EPA200.8
6/18/2019 10:05	R-1906130004	SO4		24.29	mg/L	0.5	EPA300.0
6/25/2019 10:15	R-1906240004	SO4		26.82	mg/L	0.5	EPA300.0
7/2/2019 9:55	R-1906280015	SO4		46.95	mg/L	0.5	EPA300.0
7/9/2019 10:05	R-1907080004	SO4		51.54	mg/L	0.5	EPA300.0
7/16/2019 11:00	R-1907150004	SO4		65.16	mg/L	0.5	EPA300.0
6/18/2019 10:05	R-1906130004	Sr		193.296	ug/L	0.292	EPA200.8
6/25/2019 10:15	R-1906240004	Sr		194.009	ug/L	0.292	EPA200.8
7/2/2019 9:55	R-1906280015	Sr		285.322	ug/L	0.292	EPA200.8
7/9/2019 10:05	R-1907080004	Sr		281.16	ug/L	0.292	EPA200.8
7/16/2019 11:00	R-1907150004	Sr		309.451	ug/L	0.292	EPA200.8
6/18/2019 10:05	R-1906130004	TDS		262	mg/L	1	SM2540 C
6/25/2019 10:15	R-1906240004	TDS		268	mg/L	1	SM2540 C
7/2/2019 9:55	R-1906280015	TDS		414	mg/L	1	SM2540 C
7/9/2019 10:05	R-1907080004	TDS		426	mg/L	1	SM2540 C
7/16/2019 11:00	R-1907150004	TDS		510	mg/L	1	SM2540 C
6/18/2019 10:05	R-1906130004	Ti		26.16	ug/L	0.362	EPA200.8
6/25/2019 10:15	R-1906240004	Ti		19.67	ug/L	0.362	EPA200.8
7/2/2019 9:55	R-1906280015	Ti		3.476	ug/L	0.362	EPA200.8
7/9/2019 10:05	R-1907080004	Ti		3.085	ug/L	0.362	EPA200.8
7/16/2019 11:00	R-1907150004	Ti	j	1.026	ug/L	0.362	EPA200.8

Rocky River River Mile 8.30							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/18/2019 10:05	R-1906130004	TKN		0.952	mg/L	0.217	EPA351.2
6/25/2019 10:15	R-1906240004	TKN		1.819	mg/L	0.217	EPA351.2
7/2/2019 9:55	R-1906280015	TKN		0.585	mg/L	0.217	EPA351.2
7/9/2019 10:05	R-1907080004	TKN		0.704	mg/L	0.217	EPA351.2
7/16/2019 11:00	R-1907150004	TKN		1.071	mg/L	0.217	EPA351.2
6/18/2019 10:05	R-1906130004	TI	<	0.18	ug/L	0.18	EPA200.8
6/25/2019 10:15	R-1906240004	TI	<	0.18	ug/L	0.18	EPA200.8
7/2/2019 9:55	R-1906280015	TI	<	0.18	ug/L	0.18	EPA200.8
7/9/2019 10:05	R-1907080004	TI	<	0.18	ug/L	0.18	EPA200.8
7/16/2019 11:00	R-1907150004	TI	<	0.18	ug/L	0.18	EPA200.8
6/18/2019 10:05	R-1906130004	TMET		33.2	ug/L	10	EPA200.8
6/25/2019 10:15	R-1906240004	TMET		68.3	ug/L	10	EPA200.8
7/2/2019 9:55	R-1906280015	TMET		15.3	ug/L	10	EPA200.8
7/9/2019 10:05	R-1907080004	TMET		15.7	ug/L	10	EPA200.8
7/16/2019 11:00	R-1907150004	TMET		26.9	ug/L	10	EPA200.8
6/18/2019 10:05	R-1906130004	Total-P		0.182	mg/L	0.01	EPA365.1
6/25/2019 10:15	R-1906240004	Total-P		0.34	mg/L	0.01	EPA365.1
7/2/2019 9:55	R-1906280015	Total-P		0.071	mg/L	0.01	EPA365.1
7/9/2019 10:05	R-1907080004	Total-P		0.068	mg/L	0.01	EPA365.1
7/16/2019 11:00	R-1907150004	Total-P		0.06	mg/L	0.008	EPA365.1
6/18/2019 10:05	R-1906130004	TS		468	mg/L	1	SM2540 B
6/25/2019 10:15	R-1906240004	TS		684	mg/L	1	SM2540 B
7/2/2019 9:55	R-1906280015	TS		476	mg/L	1	SM2540 B
7/9/2019 10:05	R-1907080004	TS		440	mg/L	1	SM2540 B
7/16/2019 11:00	R-1907150004	TS		538	mg/L	1	SM2540 B
6/18/2019 10:05	R-1906130004	TSS		130	mg/L	0.5	SM2540 D
6/25/2019 10:15	R-1906240004	TSS		170	mg/L	0.5	SM2540 D
7/2/2019 9:55	R-1906280015	TSS		10.8	mg/L	0.5	SM2540 D
7/9/2019 10:05	R-1907080004	TSS		8.2	mg/L	0.5	SM2540 D
7/16/2019 11:00	R-1907150004	TSS		5	mg/L	0.5	SM2540 D
6/18/2019 10:05	R-1906130004	Turbidity		125	NTU		EPA180.1
6/25/2019 10:15	R-1906240004	Turbidity		308	NTU		EPA180.1
7/2/2019 9:55	R-1906280015	Turbidity		12.1	NTU		EPA180.1
7/9/2019 10:05	R-1907080004	Turbidity		11	NTU		EPA180.1
7/16/2019 11:00	R-1907150004	Turbidity		4.2	NTU		EPA180.1
6/18/2019 10:05	R-1906130004	V	j	3.691	ug/L	0.47	EPA200.8
6/25/2019 10:15	R-1906240004	V	j	7.246	ug/L	0.47	EPA200.8
7/2/2019 9:55	R-1906280015	V	<	0.47	ug/L	0.47	EPA200.8
7/9/2019 10:05	R-1907080004	V	<	0.47	ug/L	0.47	EPA200.8
7/16/2019 11:00	R-1907150004	V	<	0.47	ug/L	0.47	EPA200.8
6/18/2019 10:05	R-1906130004	Zn		16.86	ug/L	1.782	EPA200.8
6/25/2019 10:15	R-1906240004	Zn		38.69	ug/L	1.782	EPA200.8
7/2/2019 9:55	R-1906280015	Zn	j	5.536	ug/L	1.782	EPA200.8

Rocky River
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Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/9/2019 10:05	R-1907080004	Zn	j	5.192	ug/L	1.782	EPA200.8
7/16/2019 11:00	R-1907150004	Zn		11.4	ug/L	1.782	EPA200.8

Rocky River River Mile 2.50 (EM11)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/18/2019 9:13	R-1906130006	*CaCO3		113	mg/LCaCO3	1	EPA200.8
6/25/2019 9:21	R-1906240006	*CaCO3		121	mg/LCaCO3	1	EPA200.8
7/2/2019 9:00	R-1906280017	*CaCO3		176	mg/LCaCO3	1	EPA200.8
7/9/2019 9:05	R-1907080006	*CaCO3		178	mg/LCaCO3	1	EPA200.8
7/16/2019 10:05	R-1907150006	*CaCO3		168	mg/LCaCO3	1	EPA200.8
6/18/2019 9:13	R-1906130006	Ag	<	0.142	ug/L	0.142	EPA200.8
6/25/2019 9:21	R-1906240006	Ag	<	0.142	ug/L	0.142	EPA200.8
7/2/2019 9:00	R-1906280017	Ag	<	0.142	ug/L	0.142	EPA200.8
7/9/2019 9:05	R-1907080006	Ag	<	0.142	ug/L	0.142	EPA200.8
7/16/2019 10:05	R-1907150006	Ag	<	0.142	ug/L	0.142	EPA200.8
6/18/2019 9:13	R-1906130006	Al		2726	ug/L	3.432	EPA200.8
6/25/2019 9:21	R-1906240006	Al		3513	ug/L	3.432	EPA200.8
7/2/2019 9:00	R-1906280017	Al		275.6	ug/L	3.432	EPA200.8
7/9/2019 9:05	R-1907080006	Al		271.6	ug/L	3.432	EPA200.8
7/16/2019 10:05	R-1907150006	Al		234.8	ug/L	3.432	EPA200.8
6/18/2019 9:13	R-1906130006	Alkalinity		95.6	mg/LCaCO3	4.6	EPA310.2
6/25/2019 9:21	R-1906240006	Alkalinity		91.2	mg/LCaCO3	5.3	EPA310.2
7/2/2019 9:00	R-1906280017	Alkalinity		132.6	mg/LCaCO3	5.1	EPA310.2
7/9/2019 9:05	R-1907080006	Alkalinity		142.5	mg/LCaCO3	5.1	EPA310.2
7/16/2019 10:05	R-1907150006	Alkalinity		104.6	mg/LCaCO3	5.1	EPA310.2
6/25/2019 9:21	R-1906240006	As	j	3.019	ug/L	0.292	EPA200.8
7/2/2019 9:00	R-1906280017	As	j	1.762	ug/L	0.292	EPA200.8
7/9/2019 9:05	R-1907080006	As	j	1.924	ug/L	0.292	EPA200.8
7/16/2019 10:05	R-1907150006	As	j	1.651	ug/L	0.292	EPA200.8
6/18/2019 9:13	R-1906130006	Ba		40.77	ug/L	0.092	EPA200.8
6/25/2019 9:21	R-1906240006	Ba		52.95	ug/L	0.092	EPA200.8
7/2/2019 9:00	R-1906280017	Ba		30.38	ug/L	0.092	EPA200.8
7/9/2019 9:05	R-1907080006	Ba		29.96	ug/L	0.092	EPA200.8
7/16/2019 10:05	R-1907150006	Ba		31.59	ug/L	0.092	EPA200.8
6/18/2019 9:13	R-1906130006	Be	j	0.151	ug/L	0.094	EPA200.8
6/25/2019 9:21	R-1906240006	Be	j	0.192	ug/L	0.094	EPA200.8
7/2/2019 9:00	R-1906280017	Be	<	0.094	ug/L	0.094	EPA200.8
7/9/2019 9:05	R-1907080006	Be	<	0.094	ug/L	0.094	EPA200.8
7/16/2019 10:05	R-1907150006	Be	<	0.094	ug/L	0.094	EPA200.8
6/18/2019 9:13	R-1906130006	BOD		2.8	mg/L	2	SM5210 B
6/25/2019 9:21	R-1906240006	BOD		6.5	mg/L	2	SM5210 B
7/2/2019 9:00	R-1906280017	BOD	<	2	mg/L	2	SM5210 B
7/9/2019 9:05	R-1907080006	BOD	<	2	mg/L	2	SM5210 B
7/16/2019 10:05	R-1907150006	BOD		3.6	mg/L	2	SM5210 B
6/18/2019 9:13	R-1906130006	Ca		30800	ug/L	62.15	EPA200.8
6/25/2019 9:21	R-1906240006	Ca		34680	ug/L	62.15	EPA200.8
7/2/2019 9:00	R-1906280017	Ca		51550	ug/L	62.15	EPA200.8
7/9/2019 9:05	R-1907080006	Ca		52000	ug/L	62.15	EPA200.8
7/16/2019 10:05	R-1907150006	Ca		44580	ug/L	62.15	EPA200.8
6/18/2019 9:13	R-1906130006	Cd	<	0.086	ug/L	0.086	EPA200.8

Rocky River
River Mile 2.50 (EM11)

Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
6/25/2019 9:21	R-1906240006	Cd	j	0.182	ug/L	0.086	EPA200.8
7/2/2019 9:00	R-1906280017	Cd	<	0.086	ug/L	0.086	EPA200.8
7/9/2019 9:05	R-1907080006	Cd	<	0.086	ug/L	0.086	EPA200.8
7/16/2019 10:05	R-1907150006	Cd	j	0.105	ug/L	0.086	EPA200.8
6/18/2019 9:13	R-1906130006	Chloride		37.9	mg/L	2.5	EPA300.0
6/25/2019 9:21	R-1906240006	Chloride		44.1	mg/L	2.5	EPA300.0
7/2/2019 9:00	R-1906280017	Chloride		78.04	mg/L	2.5	EPA300.0
7/9/2019 9:05	R-1907080006	Chloride		84.54	mg/L	2.5	EPA300.0
7/16/2019 10:05	R-1907150006	Chloride		121.8	mg/L	2.5	EPA300.0
6/18/2019 9:13	R-1906130006	Co		2.326	ug/L	0.104	EPA200.8
6/25/2019 9:21	R-1906240006	Co		4.154	ug/L	0.104	EPA200.8
7/2/2019 9:00	R-1906280017	Co	j	0.68	ug/L	0.104	EPA200.8
7/9/2019 9:05	R-1907080006	Co	j	0.709	ug/L	0.104	EPA200.8
7/16/2019 10:05	R-1907150006	Co	j	0.79	ug/L	0.104	EPA200.8
6/18/2019 9:13	R-1906130006	COD		38	mg/L	10.3	EPA410.4
6/25/2019 9:21	R-1906240006	COD		24.3	mg/L	10.3	EPA410.4
7/2/2019 9:00	R-1906280017	COD		28.5	mg/L	10.3	EPA410.4
7/9/2019 9:05	R-1907080006	COD		27.6	mg/L	10.3	EPA410.4
6/18/2019 9:13	R-1906130006	Conduct	HT	399.5	uS/cm	1.13	SM2510 B
6/25/2019 9:21	R-1906240006	Conduct		440.3	uS/cm	1.13	SM2510 B
7/2/2019 9:00	R-1906280017	Conduct		637.9	uS/cm	1.13	SM2510 B
7/9/2019 9:05	R-1907080006	Conduct		658.1	uS/cm	1.13	SM2510 B
7/16/2019 10:05	R-1907150006	Conduct		760.4	uS/cm	1.13	SM2510 B
6/18/2019 9:13	R-1906130006	Cr	j	3.32	ug/L	0.616	EPA200.8
6/25/2019 9:21	R-1906240006	Cr		5.324	ug/L	0.616	EPA200.8
7/2/2019 9:00	R-1906280017	Cr	<	0.616	ug/L	0.616	EPA200.8
7/9/2019 9:05	R-1907080006	Cr	<	0.616	ug/L	0.616	EPA200.8
7/16/2019 10:05	R-1907150006	Cr	j	0.71	ug/L	0.616	EPA200.8
6/18/2019 9:13	R-1906130006	Cu		7.298	ug/L	0.662	EPA200.8
6/25/2019 9:21	R-1906240006	Cu		11.18	ug/L	0.662	EPA200.8
7/2/2019 9:00	R-1906280017	Cu		3.541	ug/L	0.662	EPA200.8
7/9/2019 9:05	R-1907080006	Cu		3.632	ug/L	0.662	EPA200.8
7/16/2019 10:05	R-1907150006	Cu		4.504	ug/L	0.662	EPA200.8
6/18/2019 9:13	R-1906130006	DRPhos		0.033	mg/L	0.012	EPA365.1
6/25/2019 9:21	R-1906240006	DRPhos		0.04	mg/L	0.012	EPA365.1
7/2/2019 9:00	R-1906280017	DRPhos	j	0.023	mg/L	0.012	EPA365.1
7/9/2019 9:05	R-1907080006	DRPhos		0.032	mg/L	0.012	EPA365.1
7/16/2019 10:05	R-1907150006	DRPhos	<	0.01	mg/L	0.01	EPA365.1
6/18/2019 9:13	R-1906130006	E. coli		2982	MPN/100 mL	1	SM9223 Colilert
6/25/2019 9:21	R-1906240006	E. coli		11620	MPN/100 mL	1	SM9223 Colilert
7/2/2019 9:00	R-1906280017	E. coli		206	MPN/100 mL	1	SM9223 Colilert
7/9/2019 9:05	R-1907080006	E. coli		263	MPN/100 mL	1	SM9223 Colilert
7/16/2019 10:05	R-1907150006	E. coli		2290	MPN/100 mL	1	SM9223 Colilert
6/18/2019 9:13	R-1906130006	Fe		4552	ug/L	10.49	EPA200.8
6/25/2019 9:21	R-1906240006	Fe		6380	ug/L	10.49	EPA200.8

Rocky River
River Mile 2.50 (EM11)

Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/2/2019 9:00	R-1906280017	Fe		784	ug/L	10.49	EPA200.8
7/9/2019 9:05	R-1907080006	Fe		804.4	ug/L	10.49	EPA200.8
7/16/2019 10:05	R-1907150006	Fe		665	ug/L	10.49	EPA200.8
6/18/2019 9:13	R-1906130006	Field Cond		361	umhos/cm		SM 2510A
6/25/2019 9:21	R-1906240006	Field Cond		391	umhos/cm		SM 2510A
7/2/2019 9:00	R-1906280017	Field Cond		653	umhos/cm		SM 2510A
7/9/2019 9:05	R-1907080006	Field Cond		639	umhos/cm		SM 2510A
7/16/2019 10:05	R-1907150006	Field Cond		792	umhos/cm		SM 2510A
6/18/2019 9:13	R-1906130006	Field Spec Cond		414	umhos/cm		SM 2510B
6/25/2019 9:21	R-1906240006	Field Spec Cond		422	umhos/cm		SM 2510B
7/2/2019 9:00	R-1906280017	Field Spec Cond		648	umhos/cm		SM 2510B
7/9/2019 9:05	R-1907080006	Field Spec Cond		668	umhos/cm		SM 2510B
7/16/2019 10:05	R-1907150006	Field Spec Cond		771	umhos/cm		SM 2510B
6/18/2019 9:13	R-1906130006	Field DO		9	mg/L		SM 4500-0 G
6/25/2019 9:21	R-1906240006	Field DO		8.2	mg/L		SM 4500-0 G
7/2/2019 9:00	R-1906280017	Field DO		8	mg/L		SM 4500-0 G
7/9/2019 9:05	R-1907080006	Field DO		8.2	mg/L		SM 4500-0 G
7/16/2019 10:05	R-1907150006	Field DO		7.2	mg/L		SM 4500-0 G
6/18/2019 9:13	R-1906130006	Field DO		96	%		
6/25/2019 9:21	R-1906240006	Field DO		92	%		
7/2/2019 9:00	R-1906280017	Field DO		97	%		
7/9/2019 9:05	R-1907080006	Field DO		95	%		
7/16/2019 10:05	R-1907150006	Field DO		90	%		
6/18/2019 9:13	R-1906130006	Field Temp		18.3	C		EPA 170.1
6/25/2019 9:21	R-1906240006	Field Temp		21.2	C		EPA 170.1
7/2/2019 9:00	R-1906280017	Field Temp		25.4	C		EPA 170.1
7/9/2019 9:05	R-1907080006	Field Temp		22.7	C		EPA 170.1
7/16/2019 10:05	R-1907150006	Field Temp		26.4	C		EPA 170.1
6/18/2019 9:13	R-1906130006	Hg	<	0.019	ug/L	0.019	EPA245.1
6/25/2019 9:21	R-1906240006	Hg	<	0.019	ug/L	0.019	EPA245.1
7/2/2019 9:00	R-1906280017	Hg	<	0.022	ug/L	0.022	EPA245.1
7/9/2019 9:05	R-1907080006	Hg	<	0.022	ug/L	0.022	EPA245.1
7/16/2019 10:05	R-1907150006	Hg	<	0.022	ug/L	0.022	EPA245.1
6/18/2019 9:13	R-1906130006	K		3497	ug/L	71.95	EPA200.8
6/25/2019 9:21	R-1906240006	K		4050	ug/L	71.95	EPA200.8
7/2/2019 9:00	R-1906280017	K		5018	ug/L	71.95	EPA200.8
7/9/2019 9:05	R-1907080006	K		5536	ug/L	71.95	EPA200.8
7/16/2019 10:05	R-1907150006	K		6601	ug/L	71.95	EPA200.8
6/18/2019 9:13	R-1906130006	Mg		8707	ug/L	17.58	EPA200.8
6/25/2019 9:21	R-1906240006	Mg		8447	ug/L	17.58	EPA200.8
7/2/2019 9:00	R-1906280017	Mg		11590	ug/L	17.58	EPA200.8
7/9/2019 9:05	R-1907080006	Mg		11520	ug/L	17.58	EPA200.8
7/16/2019 10:05	R-1907150006	Mg		13760	ug/L	17.58	EPA200.8
6/18/2019 9:13	R-1906130006	Mn		144.2	ug/L	0.236	EPA200.8
6/25/2019 9:21	R-1906240006	Mn		232.5	ug/L	0.236	EPA200.8

Rocky River River Mile 2.50 (EM11)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/2/2019 9:00	R-1906280017	Mn		43.34	ug/L	0.236	EPA200.8
7/9/2019 9:05	R-1907080006	Mn		33.14	ug/L	0.236	EPA200.8
7/16/2019 10:05	R-1907150006	Mn		36.94	ug/L	0.236	EPA200.8
6/18/2019 9:13	R-1906130006	Mo		1.87	ug/L	0.444	EPA200.8
6/25/2019 9:21	R-1906240006	Mo		1.126	ug/L	0.444	EPA200.8
7/2/2019 9:00	R-1906280017	Mo		3.914	ug/L	0.444	EPA200.8
7/9/2019 9:05	R-1907080006	Mo		4.762	ug/L	0.444	EPA200.8
7/16/2019 10:05	R-1907150006	Mo		5.435	ug/L	0.444	EPA200.8
6/18/2019 9:13	R-1906130006	Na		20860	ug/L	247.2	EPA200.8
6/25/2019 9:21	R-1906240006	Na		28620	ug/L	247.2	EPA200.8
7/2/2019 9:00	R-1906280017	Na		50440	ug/L	247.2	EPA200.8
7/9/2019 9:05	R-1907080006	Na		53440	ug/L	247.2	EPA200.8
7/16/2019 10:05	R-1907150006	Na		72110	ug/L	247.2	EPA200.8
6/18/2019 9:13	R-1906130006	NH3		0.054	mg/L	0.01	EPA350.1
6/25/2019 9:21	R-1906240006	NH3		0.072	mg/L	0.01	EPA350.1
7/2/2019 9:00	R-1906280017	NH3	<	0.01	mg/L	0.01	EPA350.1
7/9/2019 9:05	R-1907080006	NH3	<	0.01	mg/L	0.01	EPA350.1
7/16/2019 10:05	R-1907150006	NH3	<	0.02	mg/L	0.02	EPA350.1
6/18/2019 9:13	R-1906130006	Ni		7.955	ug/L	0.128	EPA200.8
6/25/2019 9:21	R-1906240006	Ni		13.26	ug/L	0.128	EPA200.8
7/2/2019 9:00	R-1906280017	Ni		5.901	ug/L	0.128	EPA200.8
7/9/2019 9:05	R-1907080006	Ni		6.422	ug/L	0.128	EPA200.8
7/16/2019 10:05	R-1907150006	Ni		10.75	ug/L	0.128	EPA200.8
6/18/2019 9:13	R-1906130006	NO2		0.037	mg/L	0.005	SM4500-NO2 B/EPA 353.2
6/25/2019 9:21	R-1906240006	NO2		0.459	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/2/2019 9:00	R-1906280017	NO2	<	0.005	mg/L	0.005	SM4500-NO2 B/EPA 353.2
7/9/2019 9:05	R-1907080006	NO2	<	0.008	mg/L	0.008	SM4500-NO2 B/EPA 353.2
7/16/2019 10:05	R-1907150006	NO2		0.023	mg/L	0.008	SM4500-NO2 B/EPA 353.2
6/18/2019 9:13	R-1906130006	NO3		0.696	mg/L	0.009	EPA353.2
6/25/2019 9:21	R-1906240006	NO3		0.299	mg/L	0.009	EPA353.2
7/2/2019 9:00	R-1906280017	NO3		1.129	mg/L	0.009	EPA353.2
7/9/2019 9:05	R-1907080006	NO3		1.454	mg/L	0.009	EPA353.2
7/16/2019 10:05	R-1907150006	NO3		1.511	mg/L	0.008	EPA353.2
6/18/2019 9:13	R-1906130006	NO3+NO2		0.734	mg/L	0.009	EPA353.2
6/25/2019 9:21	R-1906240006	NO3+NO2		0.758	mg/L	0.009	EPA353.2
7/2/2019 9:00	R-1906280017	NO3+NO2		1.131	mg/L	0.009	EPA353.2
7/9/2019 9:05	R-1907080006	NO3+NO2		1.456	mg/L	0.009	EPA353.2
7/16/2019 10:05	R-1907150006	NO3+NO2		1.534	mg/L	0.008	EPA353.2
6/18/2019 9:13	R-1906130006	Pb		4.526	ug/L	0.158	EPA200.8
6/25/2019 9:21	R-1906240006	Pb		7.877	ug/L	0.158	EPA200.8
7/2/2019 9:00	R-1906280017	Pb	j	0.669	ug/L	0.158	EPA200.8
7/9/2019 9:05	R-1907080006	Pb	j	0.542	ug/L	0.158	EPA200.8
7/16/2019 10:05	R-1907150006	Pb	j	0.576	ug/L	0.158	EPA200.8
6/18/2019 9:13	R-1906130006	pH		7.7	S.U.		
6/25/2019 9:21	R-1906240006	pH		7.8	S.U.		

Rocky River River Mile 2.50 (EM11)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/2/2019 9:00	R-1906280017	pH		8.1	S.U.		
7/9/2019 9:05	R-1907080006	pH		8.2	S.U.		
7/16/2019 10:05	R-1907150006	pH		7.8	S.U.		
6/18/2019 9:13	R-1906130006	Sb	<	0.944	ug/L	0.944	EPA200.8
6/25/2019 9:21	R-1906240006	Sb	<	0.944	ug/L	0.944	EPA200.8
7/2/2019 9:00	R-1906280017	Sb	<	0.944	ug/L	0.944	EPA200.8
7/9/2019 9:05	R-1907080006	Sb	<	0.944	ug/L	0.944	EPA200.8
7/16/2019 10:05	R-1907150006	Sb	<	0.944	ug/L	0.944	EPA200.8
6/25/2019 9:21	R-1906240006	Se	<	0.808	ug/L	0.808	EPA200.8
7/2/2019 9:00	R-1906280017	Se	<	0.808	ug/L	0.808	EPA200.8
7/9/2019 9:05	R-1907080006	Se	<	0.808	ug/L	0.808	EPA200.8
7/16/2019 10:05	R-1907150006	Se	<	0.808	ug/L	0.808	EPA200.8
6/18/2019 9:13	R-1906130006	Sn	<	11.92	ug/L	11.92	EPA200.8
6/25/2019 9:21	R-1906240006	Sn	<	11.92	ug/L	11.92	EPA200.8
7/2/2019 9:00	R-1906280017	Sn	<	11.92	ug/L	11.92	EPA200.8
7/9/2019 9:05	R-1907080006	Sn	<	11.92	ug/L	11.92	EPA200.8
7/16/2019 10:05	R-1907150006	Sn	<	11.92	ug/L	11.92	EPA200.8
6/18/2019 9:13	R-1906130006	SO4		24.17	mg/L	0.5	EPA300.0
6/25/2019 9:21	R-1906240006	SO4		28.33	mg/L	0.5	EPA300.0
7/2/2019 9:00	R-1906280017	SO4		45.24	mg/L	0.5	EPA300.0
7/9/2019 9:05	R-1907080006	SO4		47.54	mg/L	0.5	EPA300.0
7/16/2019 10:05	R-1907150006	SO4		65.19	mg/L	0.5	EPA300.0
6/18/2019 9:13	R-1906130006	Sr		179.472	ug/L	0.292	EPA200.8
6/25/2019 9:21	R-1906240006	Sr		211.161	ug/L	0.292	EPA200.8
7/2/2019 9:00	R-1906280017	Sr		263.157	ug/L	0.292	EPA200.8
7/9/2019 9:05	R-1907080006	Sr		264.299	ug/L	0.292	EPA200.8
7/16/2019 10:05	R-1907150006	Sr		284.784	ug/L	0.292	EPA200.8
6/18/2019 9:13	R-1906130006	TDS		270	mg/L	1	SM2540 C
6/25/2019 9:21	R-1906240006	TDS		278	mg/L	1	SM2540 C
7/2/2019 9:00	R-1906280017	TDS		378	mg/L	1	SM2540 C
7/9/2019 9:05	R-1907080006	TDS		398	mg/L	1	SM2540 C
7/16/2019 10:05	R-1907150006	TDS		490	mg/L	1	SM2540 C
6/18/2019 9:13	R-1906130006	Ti		25.85	ug/L	0.362	EPA200.8
6/25/2019 9:21	R-1906240006	Ti		17.45	ug/L	0.362	EPA200.8
7/2/2019 9:00	R-1906280017	Ti		4.006	ug/L	0.362	EPA200.8
7/9/2019 9:05	R-1907080006	Ti		4.51	ug/L	0.362	EPA200.8
7/16/2019 10:05	R-1907150006	Ti		3.585	ug/L	0.362	EPA200.8
6/18/2019 9:13	R-1906130006	TKN		1.132	mg/L	0.217	EPA351.2
6/25/2019 9:21	R-1906240006	TKN		1.491	mg/L	0.217	EPA351.2
7/2/2019 9:00	R-1906280017	TKN		0.629	mg/L	0.217	EPA351.2
7/9/2019 9:05	R-1907080006	TKN		0.577	mg/L	0.217	EPA351.2
7/16/2019 10:05	R-1907150006	TKN		1.083	mg/L	0.217	EPA351.2
6/18/2019 9:13	R-1906130006	TI	<	0.18	ug/L	0.18	EPA200.8
6/25/2019 9:21	R-1906240006	TI	<	0.18	ug/L	0.18	EPA200.8
7/2/2019 9:00	R-1906280017	TI	<	0.18	ug/L	0.18	EPA200.8

Rocky River River Mile 2.50 (EM11)							
Sample Date	Sample ID	Parameter	Code	Result	Units	MDL	Method
7/9/2019 9:05	R-1907080006	TI	<	0.18	ug/L	0.18	EPA200.8
7/16/2019 10:05	R-1907150006	TI	<	0.18	ug/L	0.18	EPA200.8
6/18/2019 9:13	R-1906130006	TMET		39	ug/L	10	EPA200.8
6/25/2019 9:21	R-1906240006	TMET		67	ug/L	10	EPA200.8
7/2/2019 9:00	R-1906280017	TMET		14.6	ug/L	10	EPA200.8
7/9/2019 9:05	R-1907080006	TMET		15.9	ug/L	10	EPA200.8
7/16/2019 10:05	R-1907150006	TMET		24.9	ug/L	10	EPA200.8
6/18/2019 9:13	R-1906130006	Total-P		0.197	mg/L	0.01	EPA365.1
6/25/2019 9:21	R-1906240006	Total-P		0.304	mg/L	0.01	EPA365.1
7/2/2019 9:00	R-1906280017	Total-P		0.068	mg/L	0.01	EPA365.1
7/9/2019 9:05	R-1907080006	Total-P		0.074	mg/L	0.01	EPA365.1
7/16/2019 10:05	R-1907150006	Total-P		0.066	mg/L	0.008	EPA365.1
6/18/2019 9:13	R-1906130006	TS		474	mg/L	1	SM2540 B
6/25/2019 9:21	R-1906240006	TS		618	mg/L	1	SM2540 B
7/2/2019 9:00	R-1906280017	TS		896	mg/L	1	SM2540 B
7/9/2019 9:05	R-1907080006	TS		446	mg/L	1	SM2540 B
7/16/2019 10:05	R-1907150006	TS		540	mg/L	1	SM2540 B
6/18/2019 9:13	R-1906130006	TSS		163	mg/L	0.5	SM2540 D
6/25/2019 9:21	R-1906240006	TSS		287	mg/L	0.5	SM2540 D
7/2/2019 9:00	R-1906280017	TSS		29.3	mg/L	0.5	SM2540 D
7/9/2019 9:05	R-1907080006	TSS		14.8	mg/L	0.5	SM2540 D
7/16/2019 10:05	R-1907150006	TSS		15	mg/L	0.5	SM2540 D
6/18/2019 9:13	R-1906130006	Turbidity		170.5	NTU		EPA180.1
6/25/2019 9:21	R-1906240006	Turbidity		233	NTU		EPA180.1
7/2/2019 9:00	R-1906280017	Turbidity		13.5	NTU		EPA180.1
7/9/2019 9:05	R-1907080006	Turbidity		17	NTU		EPA180.1
7/16/2019 10:05	R-1907150006	Turbidity		19.3	NTU		EPA180.1
6/18/2019 9:13	R-1906130006	V	j	4.757	ug/L	0.47	EPA200.8
6/25/2019 9:21	R-1906240006	V	j	6.837	ug/L	0.47	EPA200.8
7/2/2019 9:00	R-1906280017	V	j	0.638	ug/L	0.47	EPA200.8
7/9/2019 9:05	R-1907080006	V	<	0.47	ug/L	0.47	EPA200.8
7/16/2019 10:05	R-1907150006	V	<	0.47	ug/L	0.47	EPA200.8
6/18/2019 9:13	R-1906130006	Zn		20.47	ug/L	1.782	EPA200.8
6/25/2019 9:21	R-1906240006	Zn		37.18	ug/L	1.782	EPA200.8
7/2/2019 9:00	R-1906280017	Zn	j	5.176	ug/L	1.782	EPA200.8
7/9/2019 9:05	R-1907080006	Zn	j	5.846	ug/L	1.782	EPA200.8
7/16/2019 10:05	R-1907150006	Zn	j	8.932	ug/L	1.782	EPA200.8

Appendix G: 2019 Surface Water Condition Sampling Field Sheets

NEORS Surface Water Condition Sampling Field Data Form

M. Johnson

Stream: Euclid Date: 6/19/19 Collectors: S. Hothem, H. Boesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: Exo "D"

Time (hrs): 0910 River Mile (Site): 0.55

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 836 Sp. Cond. (µmhos/cm): 958

Dissolved Oxygen (mg/L): 9.9 D.O. (%): 106

Temperature (°C): 18.33 pH (s.u.): 8.0

Turbidity 1 (NTU): 6.0 Turbidity 2 (NTU): 5.7 Average (NTU): 5.9

General Comments: NO flow, backflow

Time (hrs): 0951 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 811 Sp. Cond. (µmhos/cm): 944

Dissolved Oxygen (mg/L): 9.2 D.O. (%): 97

Temperature (°C): 17.65 pH (s.u.): 8.0

Turbidity 1 (NTU): 5.9 Turbidity 2 (NTU): 5.7 Average (NTU): 5.8

General Comments: _____

R-1906180008
Euclid Creek River Mile 0.55 (EM5)
Sample Date: 6/19/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1906180007
Euclid Creek River Mile 1.65
Sample Date: 6/19/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORS Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): _____ River Mile (Site): 1.65 (Duplicate)

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): 6.1 Turbidity 2 (NTU): 6.2 Average (NTU): 6.1

General Comments: _____

R-1906180009

Euclid Creek River Mile 1.65
Sample Date: 6/19/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample II):

NEORS Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 6/26/19 Collectors: D Phillips, & Boesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: _____

Time (hrs): 0915 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 661 Sp. Cond. (µmhos/cm): 734

Dissolved Oxygen (mg/L): 8.7 D.O. (%): 95

Temperature (°C): 19.83 pH (s.u.): 7.7

Turbidity 1 (NTU): 12.0 Turbidity 2 (NTU): 11.00 Average (NTU): 11.8

General Comments: _____

Time (hrs): 0930 River Mile (Site): 0.55

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 678 Sp. Cond. (µmhos/cm): 738

Dissolved Oxygen (mg/L): 9.3 D.O. (%): 104

Temperature (°C): 20.56 pH (s.u.): 7.8

Turbidity 1 (NTU): 9.6 Turbidity 2 (NTU): 10.4 Average (NTU): 10.0

General Comments: _____

R-1906250007

Euclid Creek River Mile 1.65

Sample Date: 6/26/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

R-1906250008

Euclid Creek River Mile 0.55 (EM5)

Sample Date: 6/26/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Env. Monitoring Date: 7/1/19 Collectors: Dreyfuss/Phillips

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): 936 River Mile (Site): Euclid RM 1.65

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): 818 Sp. Cond. (µmhos cm): 918

Dissolved Oxygen (mg/L): 8.9 D.O. (%): 97

Temperature (°C): 19.33 pH (s.u.): 7.8

Turbidity 1 (NTU): 1.95 Turbidity 2 (NTU): 2.29 Average (NTU): 2.1

General Comments: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

R-1906280006
Euclid Creek
River Mile 1.65
Sample Date: 7/1/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

Sample ID: _____

NEORS Surface Water Condition Sampling Field Data Form

Stream: Euclid CK Date: 7/10/19 Collectors: JT/ML

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo 1 "D"

Time (hrs): 0920 River Mile (Site): 0.40

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 882 Sp. Cond. (µmhos/cm): 929

Dissolved Oxygen (mg/L): 8.65 D.O. (%): 98

Temperature (°C): 22.3 pH (s.u.): 7.7

Turbidity 1 (NTU): 1.7 Turbidity 2 (NTU): 1.7 Average (NTU): 1.7

General Comments: _____

R-1907090003
Euclid Creek River Mile 0.40
Sample Date: 7/10/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0945 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 892 Sp. Cond. (µmhos/cm): 949

Dissolved Oxygen (mg/L): 9.20 D.O. (%): 105

Temperature (°C): 21.89 pH (s.u.): 7.9

Turbidity 1 (NTU): 1.4 Turbidity 2 (NTU): 1.3 Average (NTU): 1.4

General Comments: _____

R-1907090006
Euclid Creek River Mile 1.65
Sample Date: 7/10/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

Sample ID: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 7/17/19 Collectors: Hothers/Rivera/Johnson

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo 1 "D"

Time (hrs): 0905 River Mile (Site): 0.55

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: Unable to locate due to turbid flow

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 564 Sp. Cond. (µmhos/cm): 595

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 94

Temperature (°C): 22.20 pH (s.u.): 7.4

Turbidity 1 (NTU): 38.5 Turbidity 2 (NTU): 37.8 Average (NTU): 38.2 = 76.4
2x Dilution

General Comments: _____

Time (hrs): 0910 River Mile (Site): Field Blank

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): 1.6 Turbidity 2 (NTU): 1.6 Average (NTU): 1.6

General Comments: _____

R-1907160003
Euclid Creek River Mile 0.55 (EM5)
Sample Date: 7/17/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

FB-1907160001
Field Blank
Sample Date: 7/17/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORS D Surface Water Condition Sampling Field Data Form

Stream: Euclid Creek Date: 7/17/19 Collectors: Hothem, Rivera, Johnson

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: Exo 1 "D"

Time (hrs): 0935 River Mile (Site): 1.65

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: Unable to locate due to turbid water

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 497 Sp. Cond. (µmhos/cm): 522

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 95

Temperature (°C): 22.4 pH (s.u.): 7.7

Turbidity 1 (NTU): 32.3 Turbidity 2 (NTU): 32.9 Average (NTU): 32.6

General Comments: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg/L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

R-1907160002

Euclid Creek River Mile 1.65

Sample Date: 7/17/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

NEORS Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 6/18/19 Collectors: ES/ND/mj

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: YSI 600 XL A

Time (hrs): 1105 River Mile (Site): RM 11.85

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 410 Sp. Cond. (µmhos/cm): 466

Dissolved Oxygen (mg/L): 9.4 D.O. (%): 101

Temperature (°C): 11.65 pH (s.u.): 8.0

Turbidity 1 (NTU): 23.5 Turbidity 2 (NTU): 24.5 Average (NTU): 24

General Comments: Field Blank at this site @ 1100 * 5x dilution = 120
T₁ = 0.20 T₂ = 0.25 Avg = 0.23

Time (hrs): 1037 River Mile (Site): RM 10.20

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 401 Sp. Cond. (µmhos/cm): 458

Dissolved Oxygen (mg/L): 9.4 D.O. (%): 99

Temperature (°C): 18.44 pH (s.u.): 7.7

Turbidity 1 (NTU): 25.0 Turbidity 2 (NTU): 24.6 Average (NTU): 24

General Comments: _____ * 5x dilution = 124

NEORS Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 6/18/19 Collectors: ES/ND/MI

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: 600 XL-A

Time (hrs): 1005 River Mile (Site): RM 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): 385 Sp. Cond. (µmhos cm): 441

Dissolved Oxygen (mg L): 9.4 D.O. (%): 98

Temperature (°C): 18.37 pH (s.u.): 7.80

Turbidity 1 (NTU): 25.1 Turbidity 2 (NTU): 24.8 Average (NTU): 25.0

General Comments: _____ x5 dilution = 125

R-1906130004
Rocky River River Mile 8.30
Sample Date: 6/18/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Time (hrs): 0938 River Mile (Site): RM 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): 375 Sp. Cond. (µmhos cm): 426

Dissolved Oxygen (mg L): 9.1 D.O. (%): 96

Temperature (°C): 18.27 pH (s.u.): 7.8

Turbidity 1 (NTU): 26.3 Turbidity 2 (NTU): 27.4 Average (NTU): 26.9

General Comments: Duplicate at this site x5 dilution = 134.5

Turb. Duplicate = T₁ - 30.1 T₂ - 29.6 Avg. T - 29.9
x5x dilution = 149.5

R-1906130005
Rocky River River Mile 4.80
Sample Date: 6/18/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1906130009

Rocky River River Mile 4.80
Sample Date: 6/18/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 6/18/19 Collectors: ES/ND/MJ

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: YSI 600 XL A

Time (hrs): 913 River Mile (Site): RM 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 361 Sp. Cond. (µmhos/cm): 414

Dissolved Oxygen (mg L): 9.0 D.O. (%): 98

Temperature (°C): 18.26 pH (s.u.): 7.7

Turbidity 1 (NTU): 36.0 Turbidity 2 (NTU): 36.1 Average (NTU): 36.1 x (5x) = 170.5

General Comments: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): _____ Sp. Cond. (µmhos/cm): _____

Dissolved Oxygen (mg L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

R-1906130006
Rocky River River Mile 2.50 (EM11)
Sample Date: 6/18/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

NEORSD Surface Water Condition Sampling Field Data Form

Stream: _____ Date: _____ Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

Time (hrs): _____ River Mile (Site): _____

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos cm): _____ Sp. Cond. (µmhos cm): _____

Dissolved Oxygen (mg L): _____ D.O. (%): _____

Temperature (°C): _____ pH (s.u.): _____

Turbidity 1 (NTU): _____ Turbidity 2 (NTU): _____ Average (NTU): _____

General Comments: _____

Sample ID: _____

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky Date: 6/25/19 Collectors: _____

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: _____

Time (hrs): 1015 River Mile (Site): RM 8.30

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: N/A

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 369 Sp. Cond. (µmhos/cm): 396

Dissolved Oxygen (mg/L): 8.4 D.O. (%): 95

Temperature (°C): 21.32 pH (s.u.): 7.5

Turbidity 1 (NTU): 330 Turbidity 2 (NTU): 285 Average (NTU): 308

General Comments: _____

Time (hrs): 1045 River Mile (Site): RM 10.20

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: N/A

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: 363

Field Parameters: Conductivity (µmhos/cm): 337 Sp. Cond. (µmhos/cm): 363

Dissolved Oxygen (mg/L): 6.4 D.O. (%): 95

Temperature (°C): 21.24 pH (s.u.): 7.3

Turbidity 1 (NTU): 284 Turbidity 2 (NTU): 293 Average (NTU): 289

General Comments: _____

R-1906240004

Rocky River River Mile 8.30

Sample Date: 6/25/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

R-1906240003

Rocky River River Mile 10.20

Sample Date: 6/25/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

NEORS D Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 6/25/19 Collectors: Denise, Eric, Brandon

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: EXO D

Time (hrs): 0921 River Mile (Site): Rocky River 2.50

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: N/A

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 391 Sp. Cond. (µmhos/cm): 422

Dissolved Oxygen (mg L): 8.2 D.O. (%): 92

Temperature (°C): 21.16 pH (s.u.): 7.8

Turbidity 1 (NTU): 234 Turbidity 2 (NTU): 232 Average (NTU): 233

General Comments: _____

Time (hrs): 0952 River Mile (Site): Rocky Rm 4.80

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: N/A

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 395 Sp. Cond. (µmhos/cm): 425

Dissolved Oxygen (mg L): 8.3 D.O. (%): 93

Temperature (°C): 21.05 pH (s.u.): 7.8

Turbidity 1 (NTU): 306 Turbidity 2 (NTU): 287 Average (NTU): 297

General Comments: _____

R-1906240006
Rocky River River Mile 2.50 (EM11)
Sample Date: 6/25/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

R-1906240005
Rocky River River Mile 4.80
Sample Date: 6/25/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

Sample ID:

NEORSD Surface Water Condition Sampling Field Data Form

Stream: ROCKY RIVER Date: 7/2/2019 Collectors: K. Amidon / D Phillips

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES/NO NO

Water Quality Meters Used: 1000 XL "A" / HACH 120227-5068

Time (hrs): 0900 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 653 Sp. Cond. (µmhos/cm): 648

Dissolved Oxygen (mg/L): 8.0 D.O. (%): 97

Temperature (°C): 25.42 pH (s.u.): 8.1

Turbidity 1 (NTU): 12.9 Turbidity 2 (NTU): 14.0 Average (NTU): 13.5

General Comments: _____

Time (hrs): 0930 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: UNKNOWN

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 658 Sp. Cond. (µmhos/cm): 665

Dissolved Oxygen (mg/L): 8.4 D.O. (%): 102

Temperature (°C): 24.48 pH (s.u.): 8.0

Turbidity 1 (NTU): 9.95 Turbidity 2 (NTU): 10.9 Average (NTU): 10.4

General Comments: _____

R-1906280017
Rocky River River Mile 2.50 (EM11)
Sample Date: 7/2/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1906280016
Rocky River River Mile 4.80
Sample Date: 7/2/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORS Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/2/2019 Collectors: K. Amidon/D. Phillips

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES / NO

Water Quality Meters Used: 100XL "A" / HACH 120227/5008

Time (hrs): 0955 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 603 Sp. Cond. (µmhos/cm): 678

Dissolved Oxygen (mg/L): 9.3 D.O. (%): 110

Temperature (°C): 23.81 pH (s.u.): 8.0

Turbidity 1 (NTU): 12.4 Turbidity 2 (NTU): 11.8 Average (NTU): 12.1

General Comments: _____

Time (hrs): 1030 River Mile (Site): 10.20

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 1024 Sp. Cond. (µmhos/cm): 1034

Dissolved Oxygen (mg/L): 9.5 D.O. (%): 113

Temperature (°C): 24.18 pH (s.u.): 8.2

Turbidity 1 (NTU): 10.5 Turbidity 2 (NTU): 12.0 Average (NTU): 11.3

General Comments: _____

R-1906280015
Rocky River River Mile 8.30
Sample Date: 7/2/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1906280014
Rocky River River Mile 10.20
Sample Date: 7/2/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORS Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/9/2019 Collectors: K. Amidon/H. Boesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES/NO NO

Water Quality Meters Used: EX01 "D"

Time (hrs): 0905 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 639 Sp. Cond. (µmhos/cm): 668

Dissolved Oxygen (mg/L): 8.2 D.O. (%): 95

Temperature (°C): 22.72 pH (s.u.): 8.2

Turbidity 1 (NTU): 17.5 Turbidity 2 (NTU): 16.5 Average (NTU): 17.0

General Comments: _____

Time (hrs): 0935 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 655 Sp. Cond. (µmhos/cm): 698

Dissolved Oxygen (mg/L): 8.6 D.O. (%): 98

Temperature (°C): 21.77 pH (s.u.): 8.3

Turbidity 1 (NTU): 15.2 Turbidity 2 (NTU): 15.8 Average (NTU): 15.5

General Comments: _____

R-1907080006
Rocky River River Mile 2.50 (EM11)
Sample Date: 7/9/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1907080005
Rocky River River Mile 4.80
Sample Date: 7/9/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORSD Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/9/2019 Collectors: K. Amidon / H. Boesinger

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: EX01 "D"

Time (hrs): 1005 River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
 Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 655 Sp. Cond. (µmhos/cm): 712

Dissolved Oxygen (mg/L): 9.8 D.O. (%): 110

Temperature (°C): 20.83 pH (s.u.): 8.1

Turbidity 1 (NTU): 11.5 Turbidity 2 (NTU): 10.5 Average (NTU): 11.0

General Comments: _____

Time (hrs): 1040 River Mile (Site): 10.20

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
 Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 629 Sp. Cond. (µmhos/cm): 673

Dissolved Oxygen (mg L): 10.3 D.O. (%): 116

Temperature (°C): 21.69 pH (s.u.): 8.3

Turbidity 1 (NTU): 11.7 Turbidity 2 (NTU): 11.2 Average (NTU): 11.5

General Comments: _____

R-1907080004
Rocky River River Mile 8.30
Sample Date: 7/9/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

R-1907080003
Rocky River River Mile 10.20
Sample Date: 7/9/2019
None-A HNO3-B H2SO4-C Na2S2O3-E

NEORS Surface Water Condition Sampling Field Data Form

FB-1907150003

Field Blank

Sample Date: 7/16/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Stream: Rocky River Date: 7/16/19 Collectors: K. Amidon / K. Fitzgibbons

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: EXO1 "D" / HACH 120227-5008

Time (hrs): 1005 River Mile (Site): 2.50

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 792 Sp. Cond. (µmhos/cm): 771

Dissolved Oxygen (mg/L): 7.2 D.O. (%): 90

Temperature (°C): 26.39 pH (s.u.): 7.8

Turbidity 1 (NTU): 20.2 Turbidity 2 (NTU): 18.3 Average (NTU): 19.3

General Comments: Field Blank Turb 0.3/0.4 = 10.4 NTU

R-1907150006

River Mile 2.50 (EM11)

Sample Date: 7/16/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Rocky River

Time (hrs): 1030 River Mile (Site): 4.80

Weather: Clear Partly Cloudy Overcast Light Rain Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 843 Sp. Cond. (µmhos/cm): 830

Dissolved Oxygen (mg/L): 7.4 D.O. (%): 92

Temperature (°C): 25.78 pH (s.u.): 7.8

Turbidity 1 (NTU): 12.2 Turbidity 2 (NTU): 11.9 Average (NTU): 12.1

General Comments: _____

R-1907150005

River Mile 4.80

Sample Date: 7/16/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

Rocky River

NEORS Surface Water Condition Sampling Field Data Form

Stream: Rocky River Date: 7/16/19 Collectors: K.Amidon / K.Fitzgibbon

Gage Station and ID: _____ Daily Mean Discharge: _____ ft³/sec

Was this sample taken during or following a wet weather event? YES NO

Water Quality Meters Used: EX01 "D" / HACH 120227-5008

Time (hrs): 1100

River Mile (Site): 8.30

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 822 Sp. Cond. (µmhos/cm): 820

Dissolved Oxygen (mg/L): 10.2 D.O. (%): 124

Temperature (°C): 25.14 pH (s.u.): 8.1

Turbidity 1 (NTU): 4.1 Turbidity 2 (NTU): 4.3 Average (NTU): 4.2

General Comments: _____

Time (hrs): 1130

River Mile (Site): 10.20

Weather: Clear Partly Cloudy Overcast Light Rain/Showers Heavy Rain
Steady Rain Heavy Snow Melt Other: _____

Flow: Dry Intermittent Minimal Baseline/Normal Elevated Flood

HD Status: OK Other: _____

Color: Clear Muddy Tea Milky Other: _____

Odor: Normal Petroleum Anaerobic Sewage Chemical Other: _____

Surface Coating: None Foam Oily Scum Other: _____

Field Parameters: Conductivity (µmhos/cm): 820 Sp. Cond. (µmhos/cm): 808

Dissolved Oxygen (mg/L): 11.3 D.O. (%): 138

Temperature (°C): 25.76 pH (s.u.): 8.1

Turbidity 1 (NTU): 3.3 Turbidity 2 (NTU): 3.1 Average (NTU): 3.2

General Comments: _____

R-1907150004

Rocky River River Mile 8.30

Sample Date: 7/16/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

R-1907150003

Rocky River River Mile 10.20

Sample Date: 7/16/2019

None-A HNO3-B H2SO4-C Na2S2O3-E

CSO Public Notification Rule Annual Notice

2019



**COMBINED SEWER OVERFLOW PUBLIC NOTIFICATION
RULE
ANNUAL NOTICE**

2019

May 1, 2020

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APPENDICES

Appendix 1: CSO Location and Discharge Information

1.0 Introduction

On January 8, 2018, the United States Environmental Protection Agency (USEPA) promulgated the Public Notification Requirements for Combined Sewer Overflows to the Great Lakes Basin Rule (CSO Notification Rule) requiring, in part, National Pollutant Discharge Elimination System (NPDES) permittees that discharge combined sewer overflows (CSOs) to the Great Lakes Basin to develop and implement a Public Notification Plan for CSO discharges. The CSO Public Notification Plan describes how the Northeast Ohio Regional Sewer District (District) will ensure that the public receives notification of CSO occurrences and CSO impacts, as required by the CSO Notification Rule. Pursuant to the CSO Notification Rule, the District's CSO Public Notification Plan was submitted to the Ohio Environmental Protection Agency (Ohio EPA) on August 7, 2018. Implementation of the Plan was successfully initiated on November 7, 2018.

In addition to developing and implementing a CSO Public Notification Plan, the CSO Notification Rule also requires any Great Lakes Basin permittee to prepare an annual notice describing CSO discharges from its collection system during the previous calendar year. This annual notice must be made available to the public and must also be made available to the USEPA and Ohio EPA. In accordance with 40 CFR 122.38(b), this document will serve as the District's annual notice for 2019, and covers the time period of January 1, 2019 through December 31, 2019.

2.0 Annual Notice Requirements

40CFR122.38(b)(1)-(8) requires the following items to be included in the annual report:

- The location and receiving water for each CSO discharge point, and (if applicable) any treatment provided;
- The date, location, approximate duration, measured or estimated volume and cause of each wet weather CSO discharge that occurred during the past calendar year;
- The date, location, duration, volume and cause of each dry weather CSO discharge that occurred during the past calendar year;
- A summary of available monitoring data for CSO discharges from the past calendar year;
- A description of any public access areas potentially impacted by each CSO discharge;
- If precipitation was the cause of a discharge (§ 122.38(b)(2)), the representative precipitation data in total inches, to the nearest tenth of an inch (0.1") that resulted in a CSO discharge;
- Permittee contact information, if not listed elsewhere on the website where the annual notice is provided; and
- A concise summary of the implementation of the nine minimum controls and the status of the implementation of the LTCP or other plans to reduce or prevent CSO discharge including:
 - ◊ A description of key milestones remaining to complete the implementation of the plan; and
 - ◊ A description of the average annual number of CSO discharges anticipated after implementation of the LTCP.

2.1 Precipitation Data

The District owns and maintains a network of twenty-nine (29) permanent rainfall gauges which collect data in 1-minute intervals. This data is used as input in the District's CSO models and in the District's predictive tool to generate estimated CSO discharge information. **Figure 1** below shows the location of all twenty-nine (29) District rain gauges.

Figure 1. NEORSR Rain Gauge Network

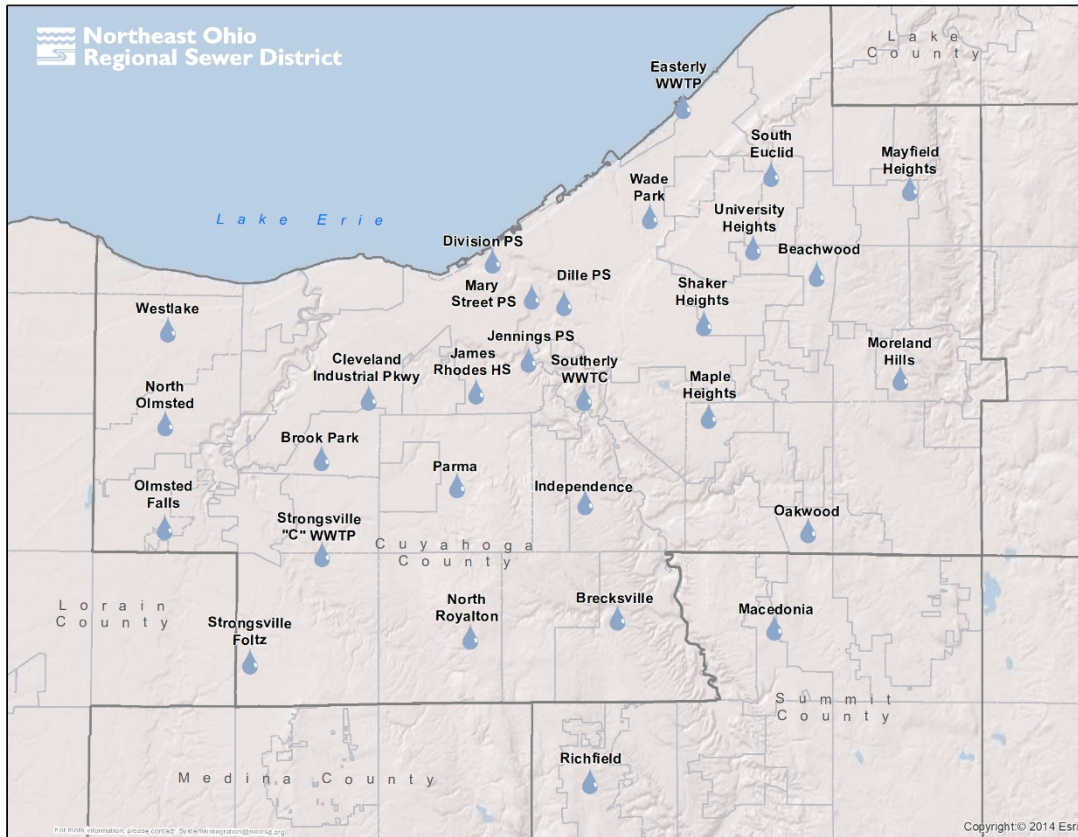


Table 1 below includes a summary of outages for the District’s rain gauges from January 1, 2019 through December 31, 2019:

Table 1

District Rain Gauge	Days out of Service	Dates out of Service
Beachwood	0	-
Brecksville	1	5/12/2019
Brook Park	2	06/20/19 - 06/21/19
Cleveland Industrial Parkway	2	10/31/19 - 11/1/19
Dille Ave. PS	13	03/09/19 - 03/10/19, 04/12/19 - 04/15/19, 05/28/19, 11/11/19 - 11/13/19, 12/14/19 - 12/15/19, 12/29/19
Division Ave. PS	1	2/17/2019
Easterly WWTP	4	01/19/19 - 01/20/19, 02/17/19, 04/25/19
Independence	0	-
James Rhodes HS	0	-
Jennings PS	2	03/09/19 - 03/10/19
Macedonia	1	6/5/2019
Maple Heights	0	-
Mary St. PS	1	1/12/2019

District Rain Gauge	Days out of Service	Dates out of Service
Mayfield Heights	4	01/19/19 - 01/20/19, 01/22/19, 01/24/19
Moreland Hills	144*	01/15/19 - 06/07/19
North Olmsted	134*	08/16/19 - 12/27/19
North Royalton	0	-
Oakwood	0	-
Olmsted Falls	0	-
Parma	0	-
Richfield	2	02/10/19 - 02/11/19
Shaker Heights	1	3/10/2019
South Euclid	0	-
Southerly WWTC	1	2/6/2019
Strongsville "C" WWTP	0	-
Strongsville Foltz	0	-
University Heights	0	-
Wade Park	0	-
Westlake	0	-

* Extended outages due to roof replacement projects

2.2 2019 CSO Volume and Activations

To report CSO discharge information in accordance with the 4-hour and 7-day notification requirements in the CSO Notification Rule, the District currently uses a combination of monitoring information from its 21 monitored CSO outfalls and information from its predictive tool for the remaining ninety-six (96) CSOs. The annual notice is prepared using a summary of the results from the District's annual collection system model runs for the ninety-six (96) unmonitored sites, as well as a summary of the field data collected from the twenty-one (21) monitored sites.

This approach is in accordance with the annual reporting requirements in the District's CSO NPDES permit, 3PA00002*HD. These results will also match the data being reported in the eDMRs in accordance with the District's CSO NPDES permit. **Appendix 1** contains all of the required information relating to the CSO locations, activations, estimated volume of discharges, and estimated rainfall totals that resulted in CSO discharge events. Please note that minor discrepancies in data totals in this report and in the CSO Permit annual report are a result of rounding.

In addition, the District monitors and reports on activations and estimated volume of discharges from CSO 001 and CSO 002 in accordance with the applicable NPDES Permits. CSO 001 is included as Plant Outfall 002 in the Easterly Wastewater Treatment Plant (WWTP) NPDES Permit 3PF00001*MD. In 2019, there were 22 discharges from CSO 001 for a total volume of 440.5 MG. CSO 002 is included as Plant Outfall 002 in the Westerly Wastewater Treatment Center (WWTC) NPDES Permit 3PE00001*QD. In 2019, there were 22 discharges from CSO 002 for a total volume of 77.1 MG.

3.0 Nine Minimum Controls Implementation

The District administers its Nine Minimum Controls Program through its CSO Operational Plan, which was updated in 2016 as required in NPDES permit 3PA00002*HD. Since then, the District has increased its ability to remotely monitor automatic regulators in the combined sewer system. In addition, the District continues to try to reduce the frequency and magnitude of wet weather overflows as well as prevent dry weather overflows by implementing the requirements of its CSO Operational Plan.

4.0 Long-Term Control Plan Implementation

The District's Long-Term Control Plan is being implemented through Project Clean Lake, which is a 25-year program to reduce CSO discharges to the environment from approximately 4.5 billion gallons per year to less than 0.5 billion gallons per year which translates into 98% capture of CSOs. Project Clean Lake was developed after the District entered into a Consent Decree with USEPA and Ohio EPA in July 2011, and consists of construction of seven large-diameter tunnels, as well as treatment plant improvements and expansions, collection system improvements, and green infrastructure practices. At the conclusion of Project Clean Lake, the number of CSOs will be significantly reduced to no more than five (5) events at any single CSO outfall, with many outfalls being controlled to zero (0) events.

The District continues to aggressively design and construct projects in accordance with Consent Decree and Project Clean Lake requirements, with many projects being completed ahead of the required schedule. Of note is that the majority of the Euclid Creek Tunnel (ECT) segment was operational two (2) years ahead of schedule. The final input to ECT, the London Road Relief Sewer, will be completed by summer 2020. The Dugway Storage Tunnel (DST) was substantially completed and brought online in late 2019. The largest input to DST, the E. 140th Street Relief Sewer, will be completed by summer 2020. Once fully operational, the ECT/DST system will reduce overflows to two or less in a Typical Year. Additionally, the majority of the tunnel boring work for the Doan Valley Tunnel (DVT) was completed and the access shafts for the Westerly Storage Tunnel were completed. More information on the status of Project Clean Lake can be found on the District's website at:

<https://www.neorsd.org/community/about-the-project-clean-lake-program/>.

Appendix 1: CSO Location and Discharge Information

CSO 007						Receiving Water:	Mill Creek
Location: Bancroft Ave. W of Warner Rd., behind 7414 Bancroft Ave., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 013						Receiving Water:	Mill Creek
Location: 100' W of W end of Maryland Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 014						Receiving Water:	Mill Creek
Location: Laumar Ave., W of E 77th St., W of 7684 Laumar Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 017						Receiving Water:	Mill Creek
Location: Down Gravel Rd. at Dorver Ave. & E 77th St., E of RR Tracks, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:30	Wet	1.57	0.90	0.83	Modelled	Wet Weather Response	
5/30/19 16:35	Wet	1.34	0.80	0.71	Modelled	Wet Weather Response	
6/20/19 4:40	Wet	2.16	0.70	0.20	Modelled	Wet Weather Response	
7/4/19 12:30	Wet	1.65	1.00	0.24	Modelled	Wet Weather Response	
9/13/19 19:30	Wet	1.47	1.80	1.13	Modelled	Wet Weather Response	
Totals		8.19	5.20	3.11			

CSO 019						Receiving Water:	Mill Creek
Location: Under Warner Rd., Bridge at Broadway Rd., access thru Webbs Terrace Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 020						Receiving Water:	Mill Creek
Location: Along Mill Creek, W of exit ramp from Warner Rd. to Broadway Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:40	Wet	0.51	0.70	0.45	Modelled	Wet Weather Response	
Totals		0.51	0.70	0.45			

CSO 021						Receiving Water:	Mill Creek
Location: W of E 94th St. & Broadway Ave. intersection, E side of creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 022						Receiving Water:	Mill Creek
Location: E Blvd. Bridge, 130' N of Cranwood Pump Station, Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:25	Wet	1.31	0.80	0.03	Modelled	Wet Weather Response	
9/13/19 19:10	Wet	1.22	1.50	0.22	Modelled	Wet Weather Response	
Totals		2.53	2.30	0.25			

CSO 025						Receiving Water:	Mill Creek
Location: E 131st St., S Outfall at Cranwood Park, Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/30/19 17:40	Wet	0.98	0.08	0.01	Monitored	Wet Weather Response	
6/20/19 5:25	Wet	2.33	0.42	0.14	Monitored	Wet Weather Response	
6/24/19 18:00	Wet	1.64	0.42	0.20	Monitored	Wet Weather Response	
9/13/19 20:45	Wet	2.13	0.25	0.14	Monitored	Wet Weather Response	
Totals		7.08	1.17	0.49			

CSO 027						Receiving Water:	Mill Creek
Location: S side of Johnston Rd., near the Fitness Trail, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Arthur Johnston Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 028						Receiving Water:	Mill Creek
Location: Located between ends of Kollin Ave. & E 173rd St., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 030						Receiving Water:	Mill Creek
Location: E 88th St. & S Highland Ave. behind 5138 E 88th St., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 031					Receiving Water:		Mill Creek
Location: W of E 81st St. & Vista Ave., S of Dirt Rd., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:10	Wet	1.57	1.10	0.29	Modelled	Wet Weather Response	
5/30/19 16:10	Wet	1.34	1.10	0.22	Modelled	Wet Weather Response	
7/4/19 12:10	Wet	1.65	1.10	0.08	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	0.83	0.90	0.17	Modelled	Wet Weather Response	
Totals		5.39	4.20	0.76			

CSO 032					Receiving Water:		Mill Creek
Location: Garfield Park Reservation, along Wolf Creek, across from Nature Center, Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 033					Receiving Water: Cuyahoga River		
Location:		Intersection of Harvard Ave. & Denison Ave., S of Alcoa Gate #5, Cuyahoga Heights					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Towpath Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/30/19 22:20	Wet	2.31	1.70	0.05	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	1.14	0.80	0.04	Modelled	Wet Weather Response	
6/13/19 13:36	Wet	1.90	9.50	0.01	Modelled	Wet Weather Response	
6/16/19 0:10	Wet	1.36	1.00	0.05	Modelled	Wet Weather Response	
6/20/19 12:10	Wet	2.16	3.20	0.76	Modelled	Wet Weather Response	
7/17/19 3:10	Wet	1.24	1.10	0.11	Modelled	Wet Weather Response	
7/22/19 8:10	Wet	1.11	1.10	0.11	Modelled	Wet Weather Response	
7/5/19 13:25	Wet	1.12	12.70	0.07	Modelled	Wet Weather Response	
7/11/19 11:30	Wet	0.90	2.70	0.03	Modelled	Wet Weather Response	
8/17/19 15:15	Wet	0.70	1.00	0.14	Modelled	Wet Weather Response	
9/13/19 21:05	Wet	0.83	1.10	0.07	Modelled	Wet Weather Response	
Totals		14.77	35.90	1.44			

CSO 035					Receiving Water: Cuyahoga River		
Location:		Burke Brook at Cuyahoga River, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.79	0.58	0.03	Monitored	Wet Weather Response	
1/23/19 9:20	Wet	1.16	1.17	0.03	Monitored	Wet Weather Response	
3/14/19 19:25	Wet	0.56	0.92	0.09	Monitored	Wet Weather Response	
4/19/19 17:40	Wet	1.15	1.08	0.04	Monitored	Wet Weather Response	
5/9/19 15:30	Wet	0.40	0.17	0.01	Monitored	Wet Weather Response	
5/26/19 17:15	Wet	0.60	0.33	0.05	Monitored	Wet Weather Response	
5/28/19 19:25	Wet	1.34	1.17	0.53	Monitored	Wet Weather Response	
5/30/19 17:25	Wet	0.75	0.92	0.37	Monitored	Wet Weather Response	
6/2/19 1:55	Wet	0.45	0.17	0.01	Monitored	Wet Weather Response	
6/5/19 9:35	Wet	1.31	1.58	0.29	Monitored	Wet Weather Response	
6/10/19 13:00	Wet	0.80	0.42	0.04	Monitored	Wet Weather Response	
6/13/19 15:10	Wet	1.44	2.00	0.60	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.07	0.25	0.02	Monitored	Wet Weather Response	
6/16/19 1:40	Wet	1.18	1.50	0.28	Monitored	Wet Weather Response	
6/20/19 4:55	Wet	2.00	2.08	0.28	Monitored	Wet Weather Response	
6/24/19 21:45	Wet	0.63	0.17	0.01	Monitored	Wet Weather Response	
7/2/19 22:55	Wet	0.43	0.33	0.01	Monitored	Wet Weather Response	
7/4/19 13:15	Wet	0.79	0.33	0.03	Monitored	Wet Weather Response	
7/15/19 21:40	Wet	0.35	0.42	0.08	Monitored	Wet Weather Response	
7/17/19 3:35	Wet	1.05	1.50	0.23	Monitored	Wet Weather Response	
7/22/19 9:00	Wet	0.53	0.58	0.01	Monitored	Wet Weather Response	
8/6/19 13:45	Wet	1.16	1.25	0.28	Monitored	Wet Weather Response	
8/15/19 15:05	Wet	0.37	0.67	0.10	Monitored	Wet Weather Response	
8/18/19 6:20	Wet	0.54	0.50	0.14	Monitored	Wet Weather Response	

CSO 035						Receiving Water: Cuyahoga River	
Location: Burke Brook at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/19/19 0:30	Wet	0.62	0.50	0.08	Monitored	Wet Weather Response	
9/11/19 17:05	Wet	0.29	0.33	0.04	Monitored	Wet Weather Response	
9/12/19 1:05	Wet	0.41	0.25	0.03	Monitored	Wet Weather Response	
9/13/19 20:30	Wet	1.87	1.58	0.71	Monitored	Wet Weather Response	
10/16/19 20:05	Wet	1.07	0.17	0.01	Monitored	Wet Weather Response	
10/31/19 11:40	Wet	0.98	0.58	0.03	Monitored	Wet Weather Response	
12/2/19 10:30	Dry	0.27	0.10	0.01	Monitored	Isolated diesel fuel spill	Spill was not caused by the District, however the District did report the event to Ohio EPA's spill response hotline once it became aware.
Totals		25.36	23.60	4.47			

CSO 036						Receiving Water: Cuyahoga River	
Location: Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:30	Wet	0.91	11.10	4.26	Modelled	Wet Weather Response	
1/23/19 6:55	Wet	1.36	5.40	7.18	Modelled	Wet Weather Response	
2/7/19 14:50	Wet	0.50	3.60	1.77	Modelled	Wet Weather Response	
2/12/19 5:20	Wet	1.04	14.20	4.01	Modelled	Wet Weather Response	
2/20/19 18:35	Wet	0.38	1.90	0.28	Modelled	Wet Weather Response	

CSO 036					Receiving Water: Cuyahoga River		
Location: Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/9/19 20:05	Wet	0.65	8.50	1.33	Modelled	Wet Weather Response	
3/14/19 17:30	Wet	0.64	2.40	3.52	Modelled	Wet Weather Response	
3/30/19 15:20	Wet	1.39	10.30	12.10	Modelled	Wet Weather Response	
4/14/19 9:30	Wet	0.66	8.80	0.05	Modelled	Wet Weather Response	
4/19/19 15:15	Wet	1.44	16.10	9.01	Modelled	Wet Weather Response	
4/25/19 20:00	Wet	0.67	6.20	1.69	Modelled	Wet Weather Response	
4/28/19 1:25	Wet	0.47	1.70	0.45	Modelled	Wet Weather Response	
4/29/19 17:30	Wet	0.53	3.10	3.54	Modelled	Wet Weather Response	
5/1/19 18:40	Wet	0.77	11.70	2.19	Modelled	Wet Weather Response	
5/12/19 2:15	Wet	0.34	1.70	0.41	Modelled	Wet Weather Response	
5/26/19 15:20	Wet	0.55	3.30	2.05	Modelled	Wet Weather Response	
5/28/19 0:35	Wet	0.26	0.70	0.02	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	0.91	2.30	10.51	Modelled	Wet Weather Response	
5/30/19 16:20	Wet	0.38	1.80	7.28	Modelled	Wet Weather Response	
6/2/19 0:10	Wet	0.57	2.70	3.74	Modelled	Wet Weather Response	
6/4/19 23:25	Wet	1.42	23.40	8.65	Modelled	Wet Weather Response	
6/10/19 11:15	Wet	0.90	3.80	9.20	Modelled	Wet Weather Response	
6/12/19 23:30	Wet	0.30	1.60	0.15	Modelled	Wet Weather Response	
6/13/19 13:40	Wet	0.90	10.90	9.92	Modelled	Wet Weather Response	
6/16/19 0:10	Wet	1.43	15.80	10.02	Modelled	Wet Weather Response	
6/20/19 3:35	Wet	0.91	14.90	11.69	Modelled	Wet Weather Response	
6/24/19 16:40	Wet	0.85	5.30	8.17	Modelled	Wet Weather Response	

CSO 036					Receiving Water: Cuyahoga River		
Location: Morgana Run at Cuyahoga River, W of Campbell Rd. & Independence Rd. intersection, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/28/19 18:40	Wet	0.09	0.60	0.04	Modelled	Wet Weather Response	
7/2/19 21:30	Wet	0.33	2.30	2.52	Modelled	Wet Weather Response	
7/4/19 11:40	Wet	0.51	3.70	3.80	Modelled	Wet Weather Response	
7/5/19 12:40	Wet	0.04	1.00	0.72	Modelled	Wet Weather Response	
7/15/19 20:20	Wet	0.40	1.40	1.90	Modelled	Wet Weather Response	
7/16/19 19:40	Wet	1.11	17.30	6.73	Modelled	Wet Weather Response	
7/20/19 5:45	Wet	0.18	0.50	0.02	Modelled	Wet Weather Response	
7/22/19 7:30	Wet	0.46	2.50	3.18	Modelled	Wet Weather Response	
7/30/19 9:45	Wet	0.25	0.50	0.02	Modelled	Wet Weather Response	
8/6/19 11:35	Wet	2.05	13.70	17.41	Modelled	Wet Weather Response	
8/17/19 13:35	Wet	0.10	0.70	0.06	Modelled	Wet Weather Response	
8/18/19 5:20	Wet	1.18	16.10	6.85	Modelled	Wet Weather Response	
8/22/19 1:50	Wet	0.46	4.80	0.05	Modelled	Wet Weather Response	
9/11/19 13:20	Wet	0.79	11.10	0.43	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	0.52	3.70	20.09	Modelled	Wet Weather Response	
10/12/19 3:25	Wet	0.33	1.30	0.13	Modelled	Wet Weather Response	
10/16/19 5:40	Wet	1.06	14.30	5.91	Modelled	Wet Weather Response	
10/26/19 15:20	Wet	0.80	4.80	0.61	Modelled	Wet Weather Response	
10/31/19 8:40	Wet	1.88	20.00	9.00	Modelled	Wet Weather Response	
12/1/19 5:50	Wet	0.69	11.80	0.27	Modelled	Wet Weather Response	
12/14/19 8:20	Wet	0.50	2.20	0.49	Modelled	Wet Weather Response	
12/29/19 23:25	Wet	0.66	0.80	0.03	Modelled	Wet Weather Response	
Totals		35.52	328.30	213.45			

CSO 037					Receiving Water: Cuyahoga River		
Location: 1,500' N of Morgana Run at Cuyahoga River (Southernmost Pipe), Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 038					Receiving Water: Cuyahoga River		
Location: 600' SW of E 26th St. & Independence Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Monitored		
Totals		0.00	0.00	0.00			

CSO 039						Receiving Water: Cuyahoga River	
Location: At Cuyahoga River turning basin 400' W of Independence Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:20	Wet	0.95	9.90	0.20	Modelled	Wet Weather Response	
1/23/19 6:35	Wet	1.07	4.00	0.20	Modelled	Wet Weather Response	
2/7/19 14:40	Wet	0.40	1.70	0.08	Modelled	Wet Weather Response	
2/12/19 5:10	Wet	0.91	11.10	0.12	Modelled	Wet Weather Response	
2/20/19 18:20	Wet	0.27	1.10	0.02	Modelled	Wet Weather Response	
3/14/19 17:20	Wet	0.44	2.00	0.26	Modelled	Wet Weather Response	
3/30/19 15:20	Wet	1.41	8.90	0.19	Modelled	Wet Weather Response	
4/14/19 9:40	Wet	0.54	8.50	0.03	Modelled	Wet Weather Response	
4/19/19 15:15	Wet	1.43	15.00	0.28	Modelled	Wet Weather Response	
4/26/19 0:05	Wet	0.88	1.20	0.10	Modelled	Wet Weather Response	
4/29/19 17:20	Wet	0.50	2.00	0.21	Modelled	Wet Weather Response	
5/1/19 18:35	Wet	0.80	9.70	0.03	Modelled	Wet Weather Response	
5/26/19 15:15	Wet	0.50	3.00	0.11	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	1.57	1.30	0.58	Modelled	Wet Weather Response	
5/30/19 16:15	Wet	1.34	1.10	0.17	Modelled	Wet Weather Response	
6/2/19 0:10	Wet	0.55	2.10	0.14	Modelled	Wet Weather Response	
6/4/19 23:20	Wet	1.94	23.00	0.67	Modelled	Wet Weather Response	
6/10/19 11:05	Wet	0.81	3.20	0.42	Modelled	Wet Weather Response	
6/12/19 23:15	Wet	1.47	0.90	0.02	Modelled	Wet Weather Response	
6/13/19 13:35	Wet	1.47	9.70	0.31	Modelled	Wet Weather Response	
6/16/19 0:05	Wet	1.19	14.20	0.39	Modelled	Wet Weather Response	
6/20/19 13:10	Wet	2.16	2.10	0.09	Modelled	Wet Weather Response	
6/24/19 19:15	Wet	0.85	2.00	0.19	Modelled	Wet Weather Response	
6/28/19 18:30	Wet	0.85	0.80	0.05	Modelled	Wet Weather Response	

CSO 039					Receiving Water: Cuyahoga River		
Location:		At Cuyahoga River turning basin 400' W of Independence Rd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/2/19 21:25	Wet	0.09	0.90	0.08	Modelled	Wet Weather Response	
7/4/19 12:20	Wet	1.65	3.00	0.20	Modelled	Wet Weather Response	
7/15/19 20:15	Wet	0.14	1.10	0.21	Modelled	Wet Weather Response	
7/16/19 19:35	Wet	1.33	7.70	0.07	Modelled	Wet Weather Response	
7/20/19 5:35	Wet	1.33	0.60	0.02	Modelled	Wet Weather Response	
7/22/19 7:25	Wet	0.59	1.80	0.13	Modelled	Wet Weather Response	
7/30/19 9:30	Wet	0.13	0.70	0.03	Modelled	Wet Weather Response	
8/6/19 11:25	Wet	1.16	13.00	1.35	Modelled	Wet Weather Response	
8/17/19 13:25	Wet	0.22	0.90	0.06	Modelled	Wet Weather Response	
8/18/19 5:10	Wet	0.41	1.20	0.25	Modelled	Wet Weather Response	
8/18/19 23:05	Wet	0.41	1.30	0.35	Modelled	Wet Weather Response	
8/22/19 1:35	Wet	0.32	3.60	0.02	Modelled	Wet Weather Response	
9/11/19 13:15	Wet	0.35	11.10	0.30	Modelled	Wet Weather Response	
9/13/19 19:10	Wet	1.47	1.20	0.26	Modelled	Wet Weather Response	
10/12/19 3:15	Wet	0.24	1.00	0.02	Modelled	Wet Weather Response	
10/16/19 5:05	Wet	0.99	14.10	0.18	Modelled	Wet Weather Response	
10/26/19 15:10	Wet	0.64	4.00	0.07	Modelled	Wet Weather Response	
10/31/19 8:31	Wet	1.44	19.70	0.19	Modelled	Wet Weather Response	
11/11/19 14:05	Wet	0.62	1.20	0.02	Modelled	Wet Weather Response	
12/1/19 5:40	Wet	0.66	10.70	0.02	Modelled	Wet Weather Response	
Totals		38.49	237.30	8.69			

CSO 040					Receiving Water: Cuyahoga River		
Location:		Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:20	Wet	0.70	4.33	1.99	Monitored	Wet Weather Response	
1/23/19 6:40	Wet	1.13	16.83	8.73	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.23	3.42	2.01	Monitored	Wet Weather Response	
2/7/19 15:35	Wet	0.42	4.00	1.46	Monitored	Wet Weather Response	
2/12/19 5:50	Wet	0.92	10.50	3.51	Monitored	Wet Weather Response	
2/20/19 18:40	Wet	0.31	2.25	0.63	Monitored	Wet Weather Response	
3/9/19 21:25	Wet	0.43	1.58	0.56	Monitored	Wet Weather Response	
3/10/19 3:15	Wet	0.30	0.83	0.28	Monitored	Wet Weather Response	
3/14/19 19:40	Wet	0.37	1.25	0.84	Monitored	Wet Weather Response	
3/30/19 17:10	Wet	1.16	6.00	2.76	Monitored	Wet Weather Response	
4/14/19 19:15	Wet	0.45	0.17	0.01	Monitored	Wet Weather Response	
4/19/19 16:30	Wet	1.14	5.33	3.13	Monitored	Wet Weather Response	
4/20/19 7:10	Wet	0.20	0.92	0.14	Monitored	Wet Weather Response	
4/25/19 21:10	Wet	0.21	0.50	0.02	Monitored	Wet Weather Response	
4/26/19 1:40	Wet	0.70	2.83	0.67	Monitored	Wet Weather Response	
4/28/19 2:40	Wet	0.35	1.17	0.11	Monitored	Wet Weather Response	
4/29/19 19:00	Wet	0.48	2.50	1.36	Monitored	Wet Weather Response	
4/30/19 14:45	Wet	0.13	0.33	0.02	Monitored	Wet Weather Response	
5/1/19 19:55	Wet	0.31	1.42	0.32	Monitored	Wet Weather Response	
5/2/19 1:25	Wet	0.61	5.58	2.80	Monitored	Wet Weather Response	
5/12/19 3:50	Wet	0.61	1.08	0.14	Monitored	Wet Weather Response	
5/26/19 9:40	Wet	0.55	1.08	0.30	Monitored	Wet Weather Response	

CSO 040					Receiving Water: Cuyahoga River		
Location: Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 2:20	Wet	1.05	2.83	1.57	Monitored	Wet Weather Response	
5/30/19 17:25	Wet	0.98	2.42	2.80	Monitored	Wet Weather Response	
6/2/19 1:55	Wet	0.41	2.00	0.73	Monitored	Wet Weather Response	
6/5/19 9:45	Wet	1.20	5.33	3.70	Monitored	Wet Weather Response	
6/10/19 13:05	Wet	1.07	4.17	2.14	Monitored	Wet Weather Response	
6/13/19 1:05	Wet	1.43	3.92	2.21	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.13	3.17	2.89	Monitored	Wet Weather Response	
6/16/19 1:35	Wet	1.31	7.67	6.07	Monitored	Wet Weather Response	
6/20/19 5:00	Wet	2.33	14.75	20.87	Monitored	Wet Weather Response	
6/21/19 0:00	Wet	0.02	0.67	0.03	Monitored	Wet Weather Response	
6/24/19 18:05	Wet	1.64	5.83	17.54	Monitored	Wet Weather Response	
6/28/19 20:15	Wet	0.16	0.58	0.18	Monitored	Wet Weather Response	
7/2/19 23:05	Wet	0.66	0.92	0.77	Monitored	Wet Weather Response	
7/3/19 0:00	Wet	0.04	0.75	0.08	Monitored	Wet Weather Response	
7/5/19 13:30	Wet	0.80	1.25	0.77	Monitored	Wet Weather Response	
7/17/19 3:45	Wet	1.42	3.58	1.72	Monitored	Wet Weather Response	
7/22/19 9:20	Wet	0.47	1.25	0.39	Monitored	Wet Weather Response	
7/30/19 2:30	Wet	0.19	0.08	0.01	Monitored	Wet Weather Response	
7/31/19 5:35	Wet	0.19	0.50	0.15	Monitored	Wet Weather Response	
8/6/19 14:00	Wet	1.48	3.42	1.75	Monitored	Wet Weather Response	
8/15/19 15:45	Wet	0.19	0.58	0.24	Monitored	Wet Weather Response	
8/18/19 6:25	Wet	0.43	1.08	0.66	Monitored	Wet Weather Response	
8/19/19 1:05	Wet	0.29	0.75	0.22	Monitored	Wet Weather Response	
8/20/19 19:55	Wet	0.04	0.42	0.12	Monitored	Wet Weather Response	

CSO 040					Receiving Water: Cuyahoga River		
Location: Kingsbury Run at Cuyahoga River, approx. 100' N of Jefferson Rd., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/22/19 3:20	Wet	0.48	0.83	0.11	Monitored	Wet Weather Response	
9/11/19 17:15	Wet	0.30	0.75	0.50	Monitored	Wet Weather Response	
9/12/19 1:30	Wet	0.21	0.42	0.07	Monitored	Wet Weather Response	
9/13/19 20:40	Wet	2.13	0.67	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow volume cannot be calculated.
10/16/19 7:30	Wet	0.88	3.92	1.13	Monitored	Wet Weather Response	
10/31/19 10:30	Wet	0.95	5.92	2.98	Monitored	Wet Weather Response	
11/1/19 3:40	Wet	0.52	0.33	0.01	Monitored	Wet Weather Response	
11/11/19 14:45	Wet	0.59	0.33	0.01	Monitored	Wet Weather Response	
12/1/19 6:10	Wet	0.59	1.75	0.56	Monitored	Wet Weather Response	
12/14/19 9:30	Wet	0.52	0.58	0.01	Monitored	Wet Weather Response	
12/29/19 22:50	Wet	0.49	1.00	0.08	Monitored	Wet Weather Response	
Totals		37.30	158.32	104.86			

CSO 043					Receiving Water: Treadway Creek		
Location: E of intersection of Tarlton Ave. & W 15th St., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Treadway Creek Trail							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 044					Receiving Treadway Creek Water:		
Location:		N of intersection of Irving Ave. & South Hills Dr., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Harmody Park and Treadway Creek Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/23/19 9:25	Wet	1.16	0.08	0.01	Monitored	Wet Weather Response	
5/28/19 19:25	Wet	1.34	0.92	0.11	Monitored	Wet Weather Response	
5/30/19 17:25	Wet	0.75	0.58	0.07	Monitored	Wet Weather Response	
6/2/19 2:50	Wet	0.45	0.17	0.01	Monitored	Wet Weather Response	
6/5/19 9:45	Wet	1.31	0.25	0.01	Monitored	Wet Weather Response	
6/10/19 14:45	Wet	0.80	0.08	0.01	Monitored	Wet Weather Response	
6/13/19 22:45	Wet	1.44	1.25	0.09	Monitored	Wet Weather Response	
6/16/19 1:50	Wet	1.18	0.33	0.01	Monitored	Wet Weather Response	
6/20/19 16:30	Wet	2.00	0.08	0.01	Monitored	Wet Weather Response	
6/24/19 21:40	Wet	0.63	0.08	0.01	Monitored	Wet Weather Response	
7/4/19 15:45	Wet	0.79	0.25	0.01	Monitored	Wet Weather Response	
7/7/19 0:30	Wet	0.88	0.08	0.01	Monitored	Wet Weather Response	
7/17/19 12:50	Wet	1.05	0.08	0.01	Monitored	Wet Weather Response	
9/13/19 20:45	Wet	1.87	1.00	0.06	Monitored	Wet Weather Response	
Totals		15.65	5.23	0.43			

CSO 045					Receiving Water: Big Creek		
Location:		NE of intersection of Jennings Ave. & Valley Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/23/19 13:55	Wet	1.16	10.08	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
1/24/19 0:00	Wet	0.18	6.67	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
2/12/19 18:40	Wet	0.97	3.33	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
3/14/19	Wet	0.56	See Comment	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow likely but cannot be confirmed.
5/28/19 19:25	Wet	1.34	3.33	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
5/30/19 17:30	Wet	0.75	0.75	0.38	Monitored	Wet Weather Response	
6/5/19 9:40	Wet	1.31	0.58	0.13	Monitored	Wet Weather Response	
6/13/19 23:15	Wet	1.44	0.75	0.04	Monitored	Wet Weather Response	
6/16/19 1:50	Wet	1.18	6.58	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
6/20/19 6:25	Wet	2.00	14.92	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.
6/21/19 0:00	Wet	0.00	4.58	See Comment	Monitored	Wet Weather Response	Site inundated by Big Creek. Overflow volume cannot be calculated.

CSO 045					Receiving Water:		Big Creek
Location: NE of intersection of Jennings Ave. & Valley Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/4/19 13:10	Wet	0.79	0.58	0.10	Monitored	Wet Weather Response	
7/7/19 0:30	Wet	0.88	0.33	0.01	Monitored	Wet Weather Response	
7/17/19 3:45	Wet	1.05	0.42	0.02	Monitored	Wet Weather Response	
8/18/19 6:30	Wet	0.54	0.08	0.01	Monitored	Wet Weather Response	
8/19/19 0:40	Wet	0.62	0.08	0.01	Monitored	Wet Weather Response	
9/13/19 20:30	Wet	1.87	1.17	2.09	Monitored	Wet Weather Response	
Totals		16.64	54.23	2.79			

CSO 050					Receiving Water:		Big Creek
Location: E side of old bridge, under W 25th St. bridge, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Zoo							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:05	Wet	1.16	1.10	0.10	Modelled	Wet Weather Response	
6/5/19 8:10	Wet	1.36	1.00	0.04	Modelled	Wet Weather Response	
6/13/19 13:25	Wet	1.30	9.70	0.04	Modelled	Wet Weather Response	
6/20/19 12:05	Wet	2.00	3.10	0.20	Modelled	Wet Weather Response	
7/6/19 23:10	Wet	0.89	1.00	0.04	Modelled	Wet Weather Response	
7/17/19 3:10	Wet	1.36	0.90	0.02	Modelled	Wet Weather Response	
7/22/19 8:15	Wet	0.56	0.80	0.02	Modelled	Wet Weather Response	
8/17/19 15:15	Wet	0.35	0.80	0.02	Modelled	Wet Weather Response	
8/18/19 5:15	Wet	0.54	0.80	0.03	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	1.88	3.00	0.25	Modelled	Wet Weather Response	
Totals		11.40	22.20	0.76			

CSO 051					Receiving Water: Big Creek		
Location: Main entrance of Zoo at Brookside Dr. at mouth of triple culvert, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:30	Wet	0.89	0.20	0.08	Modelled	Wet Weather Response	
1/23/19 9:00	Wet	1.34	2.40	0.59	Modelled	Wet Weather Response	
2/12/19 6:45	Wet	0.98	1.10	0.08	Modelled	Wet Weather Response	
3/14/19 18:25	Wet	0.56	1.00	0.59	Modelled	Wet Weather Response	
3/30/19 18:00	Wet	1.54	6.90	1.99	Modelled	Wet Weather Response	
4/19/19 16:25	Wet	1.54	13.70	1.12	Modelled	Wet Weather Response	
4/29/19 18:55	Wet	0.61	0.20	0.06	Modelled	Wet Weather Response	
5/28/19 18:10	Wet	1.16	2.10	2.98	Modelled	Wet Weather Response	
5/30/19 16:20	Wet	0.75	1.20	1.17	Modelled	Wet Weather Response	
6/2/19 0:40	Wet	0.62	1.70	0.30	Modelled	Wet Weather Response	
6/5/19 8:15	Wet	1.36	13.90	1.61	Modelled	Wet Weather Response	
6/10/19 11:35	Wet	0.80	2.70	0.78	Modelled	Wet Weather Response	
6/13/19 13:25	Wet	1.30	10.70	1.60	Modelled	Wet Weather Response	
6/16/19 0:25	Wet	1.46	15.00	1.14	Modelled	Wet Weather Response	
6/20/19 3:15	Wet	2.00	13.20	2.50	Modelled	Wet Weather Response	
6/24/19 19:40	Wet	0.63	1.70	0.49	Modelled	Wet Weather Response	
7/2/19 21:40	Wet	0.11	0.40	0.19	Modelled	Wet Weather Response	
7/4/19 11:35	Wet	0.79	3.80	0.58	Modelled	Wet Weather Response	
7/6/19 23:10	Wet	0.89	1.10	1.74	Modelled	Wet Weather Response	
7/15/19 20:30	Wet	0.89	0.50	0.28	Modelled	Wet Weather Response	
7/16/19 19:55	Wet	1.36	16.70	2.13	Modelled	Wet Weather Response	
7/22/19 7:40	Wet	0.56	1.70	0.55	Modelled	Wet Weather Response	
8/6/19 12:35	Wet	1.39	12.40	1.81	Modelled	Wet Weather Response	
8/15/19 13:50	Wet	0.37	0.20	0.08	Modelled	Wet Weather Response	

CSO 051						Receiving Water:	Big Creek
Location: Main entrance of Zoo at Brookside Dr. at mouth of triple culvert, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet	Estimated Rainfall	Event Duration	Overflow Volume	Site Modelled or	Cause	Comments
8/18/19 5:20	Wet	0.54	1.10	1.14	Modelled	Wet Weather Response	
8/18/19 23:20	Wet	0.62	1.80	1.22	Modelled	Wet Weather Response	
9/11/19 23:30	Wet	0.70	0.50	0.28	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	1.88	4.00	8.66	Modelled	Wet Weather Response	
10/16/19 6:55	Wet	1.09	12.50	0.64	Modelled	Wet Weather Response	
10/31/19 9:50	Wet	1.58	4.60	1.07	Modelled	Wet Weather Response	
Totals		30.31	149.00	37.45			

CSO 052						Receiving Water:	Big Creek
Location: Big Creek culvert beneath main entrance parking lot @ Zoo, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:05	Wet	1.16	1.00	0.01	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	0.70	1.10	0.18	Modelled	Wet Weather Response	
Totals		1.86	2.10	0.19			

CSO 053					Receiving Water: Big Creek		
Location: Intersection of John Nagy Blvd. & W 57th St., S side of creek, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: Brookside Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:05	Wet	0.89	9.00	0.44	Modelled	Wet Weather Response	
1/23/19 8:06	Wet	1.34	3.20	0.59	Modelled	Wet Weather Response	
2/7/19 15:10	Wet	0.41	1.10	0.03	Modelled	Wet Weather Response	
2/12/19 5:20	Wet	0.98	13.90	0.26	Modelled	Wet Weather Response	
2/20/19 18:20	Wet	0.35	0.80	0.02	Modelled	Wet Weather Response	
3/14/19 18:00	Wet	0.56	1.30	0.77	Modelled	Wet Weather Response	
3/30/19 15:20	Wet	1.54	9.90	1.45	Modelled	Wet Weather Response	
4/19/19 15:50	Wet	1.54	15.20	1.28	Modelled	Wet Weather Response	
4/25/19 19:40	Wet	0.71	5.60	0.19	Modelled	Wet Weather Response	
4/29/19 17:20	Wet	0.61	1.90	0.25	Modelled	Wet Weather Response	
5/1/19 18:30	Wet	0.77	8.70	0.10	Modelled	Wet Weather Response	
5/9/19 14:10	Wet	0.45	1.10	0.20	Modelled	Wet Weather Response	
5/12/19 2:15	Wet	0.32	0.90	0.03	Modelled	Wet Weather Response	
5/26/19 16:05	Wet	0.60	2.20	0.41	Modelled	Wet Weather Response	
5/28/19 18:00	Wet	1.16	4.10	3.49	Modelled	Wet Weather Response	
5/30/19 14:51	Wet	0.75	2.60	1.30	Modelled	Wet Weather Response	
6/2/19 0:10	Wet	0.62	2.10	0.46	Modelled	Wet Weather Response	
6/5/19 8:05	Wet	1.36	14.20	2.20	Modelled	Wet Weather Response	
6/10/19 11:10	Wet	0.80	6.90	0.67	Modelled	Wet Weather Response	
6/12/19 23:35	Wet	0.25	0.60	0.01	Modelled	Wet Weather Response	
6/13/19 13:10	Wet	1.30	11.10	2.35	Modelled	Wet Weather Response	
6/16/19 0:00	Wet	1.46	15.30	1.21	Modelled	Wet Weather Response	
6/20/19 3:10	Wet	2.00	13.30	2.53	Modelled	Wet Weather Response	
6/24/19 16:45	Wet	0.63	4.50	0.66	Modelled	Wet Weather Response	

CSO 053					Receiving Water: Big Creek		
Location: Intersection of John Nagy Blvd. & W 57th St., S side of creek, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: Brookside Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/2/19 21:15	Wet	0.11	1.20	0.48	Modelled	Wet Weather Response	
7/4/19 11:20	Wet	0.79	4.10	1.23	Modelled	Wet Weather Response	
7/6/19 23:05	Wet	0.89	1.70	2.37	Modelled	Wet Weather Response	
7/15/19 20:15	Wet	0.89	1.00	0.49	Modelled	Wet Weather Response	
7/16/19 19:25	Wet	1.36	17.10	2.11	Modelled	Wet Weather Response	
7/22/19 7:15	Wet	0.56	2.00	0.57	Modelled	Wet Weather Response	
8/6/19 12:10	Wet	1.39	13.10	2.31	Modelled	Wet Weather Response	
8/15/19 13:20	Wet	0.37	1.10	0.26	Modelled	Wet Weather Response	
8/18/19 5:10	Wet	0.54	1.20	1.01	Modelled	Wet Weather Response	
8/18/19 23:05	Wet	0.62	2.20	1.13	Modelled	Wet Weather Response	
9/11/19 15:15	Wet	0.70	9.00	0.60	Modelled	Wet Weather Response	
9/13/19 19:00	Wet	1.88	5.40	8.77	Modelled	Wet Weather Response	
10/16/19 5:25	Wet	1.09	13.90	0.81	Modelled	Wet Weather Response	
10/26/19 15:10	Wet	0.71	1.10	0.15	Modelled	Wet Weather Response	
10/31/19 8:36	Wet	1.58	15.50	0.78	Modelled	Wet Weather Response	
11/11/19 13:35	Wet	0.77	0.70	0.03	Modelled	Wet Weather Response	
Totals		35.65	239.80	44.00			

CSO 054				Receiving Water: Big Creek			
Location: N of John Nagy Blvd. just W of Ridge Rd. bridge, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Brookside Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:37	Wet	0.89	9.60	0.39	Modelled	Wet Weather Response	
1/23/19 8:25	Wet	1.34	3.70	1.07	Modelled	Wet Weather Response	
2/7/19 15:43	Wet	0.41	1.60	0.02	Modelled	Wet Weather Response	
2/12/19 6:09	Wet	0.98	13.40	0.35	Modelled	Wet Weather Response	
3/14/19 18:26	Wet	0.56	2.00	0.83	Modelled	Wet Weather Response	
3/30/19 16:20	Wet	1.54	9.20	2.14	Modelled	Wet Weather Response	
4/19/19 16:11	Wet	1.54	15.50	2.04	Modelled	Wet Weather Response	
4/26/19 0:27	Wet	0.71	1.50	0.14	Modelled	Wet Weather Response	
4/29/19 17:57	Wet	0.61	2.30	0.25	Modelled	Wet Weather Response	
5/9/19 14:52	Wet	0.45	0.80	0.02	Modelled	Wet Weather Response	
5/26/19 16:22	Wet	0.60	2.50	0.59	Modelled	Wet Weather Response	
5/28/19 18:15	Wet	1.16	4.60	4.52	Modelled	Wet Weather Response	
5/30/19 16:02	Wet	0.75	2.70	1.83	Modelled	Wet Weather Response	
6/2/19 0:31	Wet	0.62	2.50	0.59	Modelled	Wet Weather Response	
6/5/19 8:30	Wet	1.36	14.60	2.40	Modelled	Wet Weather Response	
6/10/19 11:47	Wet	0.80	3.20	0.79	Modelled	Wet Weather Response	
6/13/19 13:36	Wet	1.30	11.30	3.28	Modelled	Wet Weather Response	
6/16/19 0:04	Wet	1.46	16.20	1.70	Modelled	Wet Weather Response	
6/20/19 3:36	Wet	2.00	13.70	3.56	Modelled	Wet Weather Response	
6/24/19 19:31	Wet	0.63	2.50	0.86	Modelled	Wet Weather Response	
7/2/19 21:46	Wet	0.46	1.80	0.36	Modelled	Wet Weather Response	
7/4/19 11:46	Wet	0.79	4.60	1.29	Modelled	Wet Weather Response	
7/6/19 23:20	Wet	0.89	3.00	3.16	Modelled	Wet Weather Response	
7/15/19 20:46	Wet	0.35	1.20	0.23	Modelled	Wet Weather Response	

CSO 054					Receiving Water:		Big Creek
Location: N of John Nagy Blvd. just W of Ridge Rd. bridge, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Brookside Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/16/19 19:51	Wet	1.36	17.80	2.52	Modelled	Wet Weather Response	
7/22/19 7:46	Wet	0.56	2.20	0.58	Modelled	Wet Weather Response	
8/6/19 12:41	Wet	1.39	13.20	2.50	Modelled	Wet Weather Response	
8/15/19 13:56	Wet	0.37	1.50	0.12	Modelled	Wet Weather Response	
8/18/19 5:30	Wet	0.54	2.00	1.03	Modelled	Wet Weather Response	
8/18/19 23:25	Wet	0.62	2.60	1.47	Modelled	Wet Weather Response	
9/11/19 16:03	Wet	0.70	9.10	0.36	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	1.88	7.40	10.42	Modelled	Wet Weather Response	
10/16/19 6:14	Wet	1.09	14.30	1.04	Modelled	Wet Weather Response	
10/26/19 15:53	Wet	0.71	0.80	0.01	Modelled	Wet Weather Response	
10/31/19 9:09	Wet	1.58	6.10	1.30	Modelled	Wet Weather Response	
Totals		33.00	221.00	53.76			

CSO 055					Receiving Water:		Big Creek
Location: Under bridge E of Bellaire Rd. & Kensington Rd., Linndale							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:25	Wet	1.23	0.80	0.29	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	1.44	1.30	1.20	Modelled	Wet Weather Response	
Totals		2.67	2.10	1.49			

CSO 056					Receiving Water: Big Creek		
Location: Under bridge E of Bellaire Rd. & Kensington Rd., Linndale							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:20	Wet	0.69	7.17	1.61	Monitored	Wet Weather Response	
1/23/19 6:20	Wet	1.21	17.67	10.59	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.15	10.33	2.31	Monitored	Wet Weather Response	
1/28/19 23:50	Wet	0.11	0.17	0.01	Monitored	Wet Weather Response	
1/29/19 0:00	Wet	0.00	0.75	0.02	Monitored	Wet Weather Response	
2/6/19 7:40	Wet	0.29	6.75	0.54	Monitored	Wet Weather Response	
2/7/19 15:05	Wet	0.47	8.92	2.86	Monitored	Wet Weather Response	
2/8/19 0:00	Wet	0.00	0.75	0.01	Monitored	Wet Weather Response	
2/12/19 5:20	Wet	0.98	18.67	5.78	Monitored	Wet Weather Response	
2/13/19 0:00	Wet	0.01	0.75	0.01	Monitored	Wet Weather Response	
2/20/19 18:35	Wet	0.41	4.58	1.05	Monitored	Wet Weather Response	
3/9/19 20:20	Wet	0.42	3.67	1.17	Monitored	Wet Weather Response	
3/10/19 0:00	Wet	0.29	4.92	1.21	Monitored	Wet Weather Response	
3/14/19 19:10	Wet	0.59	0.92	0.49	Monitored	Wet Weather Response	
3/30/19 21:05	Wet	1.23	0.75	0.12	Monitored	Wet Weather Response	
4/19/19 17:45	Wet	1.08	1.67	0.22	Monitored	Wet Weather Response	
4/20/19 7:05	Wet	0.65	1.25	1.01	Monitored	Wet Weather Response	
4/26/19 1:40	Wet	0.50	0.58	0.14	Monitored	Wet Weather Response	
5/28/19 19:15	Wet	1.70	1.83	2.08	Monitored	Wet Weather Response	
5/30/19 17:25	Wet	1.04	1.33	1.34	Monitored	Wet Weather Response	
6/2/19 1:50	Wet	0.53	0.25	0.01	Monitored	Wet Weather Response	
6/5/19 9:35	Wet	0.91	0.92	0.35	Monitored	Wet Weather Response	
6/10/19 12:55	Wet	1.01	1.17	0.66	Monitored	Wet Weather Response	
6/13/19 22:50	Wet	1.16	1.17	1.25	Monitored	Wet Weather Response	

CSO 056					Receiving Water: Big Creek		
Location: Under bridge E of Bellaire Rd. & Kensington Rd., Linndale							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/14/19 0:00	Wet	0.23	1.25	0.61	Monitored	Wet Weather Response	
6/16/19 1:25	Wet	1.19	2.25	1.89	Monitored	Wet Weather Response	
6/20/19 15:05	Wet	1.69	1.42	1.00	Monitored	Wet Weather Response	
6/24/19 20:45	Wet	0.44	0.42	0.11	Monitored	Wet Weather Response	
7/4/19 14:00	Wet	1.39	1.25	0.88	Monitored	Wet Weather Response	
7/15/19 21:25	Wet	0.29	0.67	0.40	Monitored	Wet Weather Response	
7/17/19 3:40	Wet	0.84	1.50	0.28	Monitored	Wet Weather Response	
7/22/19 9:00	Wet	0.63	0.92	0.37	Monitored	Wet Weather Response	
8/6/19 13:30	Wet	0.94	1.00	1.24	Monitored	Wet Weather Response	
8/15/19 14:55	Wet	0.35	0.08	0.01	Monitored	Wet Weather Response	
8/18/19 6:10	Wet	0.58	1.00	0.68	Monitored	Wet Weather Response	
8/19/19 0:20	Wet	0.58	0.50	0.14	Monitored	Wet Weather Response	
9/13/19 20:25	Wet	1.21	0.58	0.39	Monitored	Wet Weather Response	
10/31/19 11:45	Wet	0.94	0.33	0.01	Monitored	Wet Weather Response	
11/13/19 5:30	Dry	0.00	0.08	0.01	Monitored	Blockage in bubbler	Overflow volume calculated using level monitoring equipment at the site.
12/1/19 16:15	Wet	0.39	1.75	0.33	Monitored	Wet Weather Response	
12/2/19 10:40	Wet	0.20	1.00	0.15	Monitored	Wet Weather Response	
12/9/19 11:20	Wet	0.48	1.42	0.23	Monitored	Wet Weather Response	
12/29/19 10:10	Wet	0.50	1.17	0.23	Monitored	Wet Weather Response	
12/30/19 0:00	Wet	0.09	1.00	0.12	Monitored	Wet Weather Response	
Totals		28.39	116.53	43.92			

CSO 057					Receiving Water: Big Creek		
Location:		Memphis & I-71, under interstate, Linndale					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:10	Wet	0.72	14.00	4.17	Modelled	Wet Weather Response	
1/19/19 16:50	Wet	0.59	9.70	1.24	Modelled	Wet Weather Response	
1/23/19 6:30	Wet	1.28	23.70	10.46	Modelled	Wet Weather Response	
2/6/19 8:05	Wet	0.33	4.80	0.08	Modelled	Wet Weather Response	
2/7/19 15:25	Wet	0.40	5.60	2.18	Modelled	Wet Weather Response	
2/12/19 5:20	Wet	0.94	18.50	7.05	Modelled	Wet Weather Response	
2/20/19 19:05	Wet	0.33	2.60	0.88	Modelled	Wet Weather Response	
3/9/19 21:00	Wet	0.54	9.50	1.88	Modelled	Wet Weather Response	
3/14/19 18:05	Wet	0.48	4.30	2.59	Modelled	Wet Weather Response	
3/29/19 5:40	Wet	0.34	3.10	0.67	Modelled	Wet Weather Response	
3/30/19 15:25	Wet	1.35	17.20	14.03	Modelled	Wet Weather Response	
4/12/19 10:25	Wet	0.18	1.00	0.08	Modelled	Wet Weather Response	
4/14/19 8:05	Wet	0.63	12.60	1.63	Modelled	Wet Weather Response	
4/19/19 15:30	Wet	1.29	18.40	10.79	Modelled	Wet Weather Response	
4/26/19 0:20	Wet	0.54	3.10	1.00	Modelled	Wet Weather Response	
4/28/19 0:50	Wet	0.41	4.70	1.40	Modelled	Wet Weather Response	
4/29/19 17:25	Wet	0.45	5.90	2.81	Modelled	Wet Weather Response	
5/1/19 19:15	Wet	0.78	16.40	5.37	Modelled	Wet Weather Response	
5/3/19 1:35	Wet	0.31	2.30	0.79	Modelled	Wet Weather Response	
5/9/19 15:00	Wet	0.29	1.70	0.30	Modelled	Wet Weather Response	
5/12/19 2:25	Wet	0.31	2.70	0.82	Modelled	Wet Weather Response	
5/12/19 19:05	Wet	0.29	4.80	0.37	Modelled	Wet Weather Response	
5/19/19 19:10	Wet	0.15	0.80	0.07	Modelled	Wet Weather Response	
5/26/19 18:05	Wet	0.23	0.60	0.02	Modelled	Wet Weather Response	

CSO 057					Receiving Water: Big Creek		
Location:		Memphis & I-71, under interstate, Linndale					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 1:05	Wet	1.23	1.70	0.28	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	1.23	10.80	11.03	Modelled	Wet Weather Response	
5/30/19 15:15	Wet	0.77	9.50	7.44	Modelled	Wet Weather Response	
6/2/19 0:10	Wet	0.58	7.90	3.69	Modelled	Wet Weather Response	
6/4/19 23:40	Wet	0.94	25.00	6.09	Modelled	Wet Weather Response	
6/10/19 11:20	Wet	0.77	10.90	6.56	Modelled	Wet Weather Response	
6/13/19 0:00	Wet	1.14	31.80	12.87	Modelled	Wet Weather Response	
6/15/19 23:55	Wet	1.41	22.80	13.75	Modelled	Wet Weather Response	
6/20/19 3:30	Wet	1.54	24.40	16.42	Modelled	Wet Weather Response	
6/24/19 19:15	Wet	0.50	5.00	2.99	Modelled	Wet Weather Response	
7/2/19 22:35	Wet	0.24	1.70	0.52	Modelled	Wet Weather Response	
7/4/19 12:25	Wet	0.51	7.30	3.24	Modelled	Wet Weather Response	
7/15/19 20:22	Wet	0.30	2.40	1.26	Modelled	Wet Weather Response	
7/16/19 19:25	Wet	1.11	21.60	10.25	Modelled	Wet Weather Response	
7/20/19 6:00	Wet	0.18	1.20	0.31	Modelled	Wet Weather Response	
7/22/19 7:25	Wet	0.45	4.30	2.05	Modelled	Wet Weather Response	
8/6/19 12:25	Wet	1.19	18.50	11.83	Modelled	Wet Weather Response	
8/15/19 13:30	Wet	0.36	3.70	1.59	Modelled	Wet Weather Response	
8/18/19 5:15	Wet	0.88	5.10	2.73	Modelled	Wet Weather Response	
8/18/19 23:15	Wet	0.88	7.70	3.43	Modelled	Wet Weather Response	
8/22/19 2:40	Wet	0.34	5.40	0.49	Modelled	Wet Weather Response	
9/1/19 17:30	Wet	0.21	1.40	0.24	Modelled	Wet Weather Response	
9/11/19 13:25	Wet	0.71	13.20	3.83	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	1.44	12.10	18.84	Modelled	Wet Weather Response	

CSO 057					Receiving Water: Big Creek		
Location:		Memphis & I-71, under interstate, Linndale					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/2/19 16:25	Wet	0.31	3.70	0.61	Modelled	Wet Weather Response	
10/12/19 3:55	Wet	0.26	2.10	0.43	Modelled	Wet Weather Response	
10/16/19 5:31	Wet	0.97	20.80	6.77	Modelled	Wet Weather Response	
10/26/19 15:23	Wet	0.65	12.00	2.99	Modelled	Wet Weather Response	
10/30/19 21:30	Wet	1.65	38.00	14.23	Modelled	Wet Weather Response	
11/11/19 14:05	Wet	0.76	14.20	3.77	Modelled	Wet Weather Response	
12/1/19 16:15	Wet	0.58	2.60	0.85	Modelled	Wet Weather Response	
12/2/19 10:40	Wet	0.58	0.70	0.02	Modelled	Wet Weather Response	
12/9/19 11:10	Wet	0.44	6.70	0.59	Modelled	Wet Weather Response	
12/14/19 6:40	Wet	0.43	5.20	2.12	Modelled	Wet Weather Response	
12/29/19 22:20	Wet	0.53	4.20	1.28	Modelled	Wet Weather Response	
Totals		39.23	553.60	246.07			

CSO 058					Receiving Water: Big Creek		
Location: W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.69	3.50	7.13	Monitored	Wet Weather Response	
1/23/19 7:25	Wet	1.21	16.58	57.62	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.15	4.92	8.55	Monitored	Wet Weather Response	
2/7/19 15:20	Wet	0.47	5.42	10.24	Monitored	Wet Weather Response	
2/12/19 5:55	Wet	0.98	14.50	26.86	Monitored	Wet Weather Response	
2/20/19 19:00	Wet	0.41	2.92	3.64	Monitored	Wet Weather Response	
3/9/19 21:25	Wet	0.42	1.08	1.69	Monitored	Wet Weather Response	
3/10/19 5:05	Wet	0.29	2.50	2.66	Monitored	Wet Weather Response	
3/14/19 18:55	Wet	0.59	4.75	13.35	Monitored	Wet Weather Response	
3/30/19 17:40	Wet	1.23	6.33	16.04	Monitored	Wet Weather Response	
3/31/19 0:00	Wet	0.17	0.92	0.63	Monitored	Wet Weather Response	
4/14/19 10:35	Wet	0.49	1.33	2.15	Monitored	Wet Weather Response	
4/19/19 17:00	Wet	1.08	7.00	19.25	Monitored	Wet Weather Response	
4/20/19 0:00	Wet	0.65	6.83	19.65	Monitored	Wet Weather Response	
4/26/19 1:35	Wet	0.50	1.67	4.21	Monitored	Wet Weather Response	
4/28/19 2:40	Wet	0.40	3.50	4.00	Monitored	Wet Weather Response	
4/29/19 19:05	Wet	0.46	2.92	5.62	Monitored	Wet Weather Response	
5/2/19 3:00	Wet	0.48	6.00	12.71	Monitored	Wet Weather Response	
5/12/19 4:15	Wet	0.50	1.42	1.09	Monitored	Wet Weather Response	
5/22/19 14:00	Dry	0.00	0.67	0.01	Monitored	Downstream blockage	Overflow volume calculated using level monitoring equipment at the site.
5/26/19 17:20	Wet	0.50	1.92	3.15	Monitored	Wet Weather Response	
5/28/19 19:15	Wet	1.70	4.75	32.13	Monitored	Wet Weather Response	

CSO 058					Receiving Water: Big Creek		
Location:		W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/29/19 0:00	Wet	0.07	0.92	0.23	Monitored	Wet Weather Response	
5/30/19 16:40	Wet	1.04	4.92	20.12	Monitored	Wet Weather Response	
6/2/19 1:40	Wet	0.53	3.67	7.18	Monitored	Wet Weather Response	
6/5/19 9:20	Wet	0.91	3.17	8.55	Monitored	Wet Weather Response	
6/10/19 12:45	Wet	1.01	4.08	10.43	Monitored	Wet Weather Response	
6/13/19 0:45	Wet	1.16	3.33	12.28	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.23	4.08	9.72	Monitored	Wet Weather Response	
6/16/19 1:10	Wet	1.19	10.25	27.04	Monitored	Wet Weather Response	
6/20/19 9:55	Wet	1.69	10.00	31.49	Monitored	Wet Weather Response	
6/21/19 0:00	Wet	0.01	2.42	2.69	Monitored	Wet Weather Response	
6/24/19 20:30	Wet	0.44	1.58	7.78	Monitored	Wet Weather Response	
6/28/19 19:35	Wet	0.16	0.58	2.40	Monitored	Wet Weather Response	
7/4/19 13:55	Wet	1.39	2.75	14.47	Monitored	Wet Weather Response	
7/15/19 21:30	Wet	0.29	0.67	2.58	Monitored	Wet Weather Response	
7/17/19 3:40	Wet	0.84	2.42	6.89	Monitored	Wet Weather Response	
7/21/19 5:15	Wet	0.17	1.08	0.66	Monitored	Wet Weather Response	
7/22/19 8:50	Wet	0.63	2.75	5.77	Monitored	Wet Weather Response	
8/6/19 13:45	Wet	0.94	1.33	6.69	Monitored	Wet Weather Response	
8/15/19 14:35	Wet	0.35	0.58	2.91	Monitored	Wet Weather Response	
8/18/19 6:15	Wet	0.58	2.00	7.37	Monitored	Wet Weather Response	
8/19/19 0:25	Wet	0.58	1.50	4.27	Monitored	Wet Weather Response	
9/13/19	Wet	1.21	See Comment	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow likely but cannot be confirmed.

CSO 058					Receiving Water: Big Creek		
Location: W 114th St. & Peony Ave., Behind 3628 W 114th St., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/16/19 6:50	Wet	0.77	2.58	5.45	Monitored	Wet Weather Response	
10/26/19 16:55	Wet	0.76	4.00	2.40	Monitored	Wet Weather Response	
10/27/19 0:00	Wet	0.08	0.67	0.03	Monitored	Wet Weather Response	
10/31/19	Wet	0.94	See Comment	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow duration and volume cannot be calculated.
11/11/19 14:45	Wet	0.96	6.25	9.39	Monitored	Wet Weather Response	
12/9/19 16:05	Wet	0.48	1.17	1.78	Monitored	Wet Weather Response	
12/14/19 7:25	Wet	0.62	7.67	11.16	Monitored	Wet Weather Response	
12/29/19 23:50	Wet	0.50	0.17	0.01	Monitored	Wet Weather Response	
12/30/19 0:00	Wet	0.09	2.25	1.92	Monitored	Wet Weather Response	
Totals		33.99	190.27	476.04			

CSO 059					Receiving Water: Spring Creek		
Location: Spring Rd. at Jennings Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.79	0.17	0.16	Monitored	Wet Weather Response	
3/14/19 19:55	Wet	0.56	0.17	0.05	Monitored	Wet Weather Response	
5/26/19 17:10	Wet	0.60	0.25	0.07	Monitored	Wet Weather Response	
5/28/19 19:20	Wet	1.34	1.00	1.66	Monitored	Wet Weather Response	
5/30/19 15:40	Wet	0.75	0.83	1.52	Monitored	Wet Weather Response	
6/5/19 9:35	Wet	1.31	0.42	0.81	Monitored	Wet Weather Response	
6/13/19 15:10	Wet	1.44	1.17	0.63	Monitored	Wet Weather Response	
6/16/19 15:15	Wet	1.18	0.17	0.23	Monitored	Wet Weather Response	
6/20/19 4:55	Wet	2.00	0.42	0.09	Monitored	Wet Weather Response	
7/4/19 15:40	Wet	0.79	0.25	0.35	Monitored	Wet Weather Response	
7/15/19 21:40	Wet	0.35	0.17	0.14	Monitored	Wet Weather Response	
7/17/19 3:45	Wet	1.05	0.25	0.36	Monitored	Wet Weather Response	
8/6/19 14:05	Wet	1.16	0.42	0.09	Monitored	Wet Weather Response	
8/19/19 0:30	Wet	0.62	0.17	0.18	Monitored	Wet Weather Response	
9/13/19 20:30	Wet	1.87	0.75	1.14	Monitored	Wet Weather Response	
Totals		15.81	6.61	7.48			

CSO 060					Receiving Water: Cuyahoga River		
Location: Big Creek emergency bypass off Van Epps Blvd., Brooklyn Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Towpath Trail							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 062						Receiving Water:	Rocky River
Location: Mid-point of Puritas Rd. hill into Metroparks, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
Modelling Data Not Available					Modelled		Project out for bid that will eliminate CSO 062.
Totals		0.00	0.00	0.00			

CSO 063						Receiving Water:	West Creek
Location: Along Granger Rd., SE of the Westbound I-480 exit to Granger Rd., Brooklyn Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:45	Wet	0.22	0.70	0.15	Modelled	Wet Weather Response	
Totals		0.22	0.70	0.15			

CSO 064						Receiving Water:	Rocky River
Location: End of Larchwood Ave., W of intersection with Riveredge Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:35	Wet	1.23	0.70	0.02	Modelled	Wet Weather Response	
5/30/19 16:00	Wet	0.77	1.20	0.03	Modelled	Wet Weather Response	
6/13/19 21:20	Wet	1.14	1.80	0.04	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	1.44	1.40	0.16	Modelled	Wet Weather Response	
Totals		4.58	5.10	0.25			

CSO 065						Receiving Water:	Rocky River
Location: N of Old Lorain Rd. bridge over Rocky River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:15	Wet	0.71	1.00	0.02	Modelled	Wet Weather Response	
Totals		0.71	1.00	0.02			

CSO 066						Receiving Water:	Rocky River
Location: End of W 178th St., behind 17810 Allien Ave., high on hillside, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		CSO 066 converted to stormwater only outlet as of 3/21/19
Totals		0.00	0.00	0.00			

CSO 067						Receiving Water:	Rocky River
Location: W of 3870 Rocky River Dr. at NW Corner of Kamm's Plaza, high on hillside, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:45	Wet	1.23	0.70	0.13	Modelled	Wet Weather Response	
5/30/19 16:25	Wet	0.77	0.90	0.15	Modelled	Wet Weather Response	
6/13/19 21:40	Wet	1.14	1.60	0.25	Modelled	Wet Weather Response	
9/13/19 19:35	Wet	1.44	1.30	0.75	Modelled	Wet Weather Response	
Totals		4.58	4.50	1.28			

CSO 068					Receiving Water: Rocky River		
Location: Off Hogsback Ln., SW of Intersection with Riverside Dr., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 10:00	Wet	0.72	9.50	0.19	Modelled	Wet Weather Response	
1/23/19 7:15	Wet	1.28	21.60	0.75	Modelled	Wet Weather Response	
2/7/19 15:20	Wet	0.40	3.10	0.10	Modelled	Wet Weather Response	
2/12/19 5:55	Wet	0.94	14.10	0.58	Modelled	Wet Weather Response	
2/20/19 19:50	Wet	0.33	0.60	0.01	Modelled	Wet Weather Response	
3/9/19 21:50	Wet	0.54	7.10	0.03	Modelled	Wet Weather Response	
3/14/19 18:30	Wet	0.48	1.10	0.13	Modelled	Wet Weather Response	
3/30/19 15:10	Wet	1.35	10.50	1.14	Modelled	Wet Weather Response	
4/14/19 9:35	Wet	0.63	9.00	0.07	Modelled	Wet Weather Response	
4/19/19 15:25	Wet	1.29	16.90	0.82	Modelled	Wet Weather Response	
4/26/19 0:30	Wet	0.54	1.10	0.05	Modelled	Wet Weather Response	
4/28/19 0:35	Wet	0.41	3.80	0.21	Modelled	Wet Weather Response	
4/29/19 17:45	Wet	0.45	2.70	0.36	Modelled	Wet Weather Response	
4/30/19 13:45	Wet	0.12	0.80	0.02	Modelled	Wet Weather Response	
5/1/19 19:10	Wet	0.78	11.40	0.57	Modelled	Wet Weather Response	
5/3/19 1:15	Wet	0.31	1.50	0.16	Modelled	Wet Weather Response	
5/12/19 2:55	Wet	0.31	0.60	0.01	Modelled	Wet Weather Response	
5/12/19 18:45	Wet	0.29	4.60	0.02	Modelled	Wet Weather Response	
5/28/19 18:10	Wet	1.23	4.50	0.99	Modelled	Wet Weather Response	
5/30/19 15:30	Wet	0.77	2.40	0.88	Modelled	Wet Weather Response	
6/2/19 0:21	Wet	0.58	2.50	0.45	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	0.94	14.40	0.70	Modelled	Wet Weather Response	
6/10/19 12:05	Wet	0.77	6.20	0.45	Modelled	Wet Weather Response	
6/13/19 13:50	Wet	1.14	10.60	1.44	Modelled	Wet Weather Response	

CSO 068					Receiving Water: Rocky River		
Location: Off Hogsback Ln., SW of Intersection with Riverside Dr., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/15/19 23:25	Wet	1.41	16.30	1.45	Modelled	Wet Weather Response	
6/20/19 4:10	Wet	1.54	19.20	1.32	Modelled	Wet Weather Response	
6/24/19 19:45	Wet	0.50	2.00	0.22	Modelled	Wet Weather Response	
7/4/19 12:50	Wet	0.51	2.90	0.18	Modelled	Wet Weather Response	
7/15/19 20:55	Wet	0.30	0.60	0.04	Modelled	Wet Weather Response	
7/16/19 19:35	Wet	1.11	17.20	0.93	Modelled	Wet Weather Response	
7/22/19 8:00	Wet	0.45	1.80	0.20	Modelled	Wet Weather Response	
8/6/19 13:00	Wet	1.19	12.20	0.82	Modelled	Wet Weather Response	
8/15/19 14:10	Wet	0.36	1.30	0.05	Modelled	Wet Weather Response	
8/18/19 5:35	Wet	0.88	1.10	0.21	Modelled	Wet Weather Response	
8/18/19 23:20	Wet	0.88	3.00	0.44	Modelled	Wet Weather Response	
9/1/19 16:50	Wet	0.21	1.70	0.11	Modelled	Wet Weather Response	
9/11/19 13:55	Wet	0.71	10.80	0.16	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	1.44	2.70	1.92	Modelled	Wet Weather Response	
10/16/19 6:20	Wet	0.97	19.20	0.43	Modelled	Wet Weather Response	
10/26/19 16:10	Wet	0.65	10.30	0.03	Modelled	Wet Weather Response	
10/31/19 8:40	Wet	1.65	20.90	1.29	Modelled	Wet Weather Response	
11/11/19 14:45	Wet	0.76	12.70	0.08	Modelled	Wet Weather Response	
12/1/19 16:32	Wet	0.58	0.90	0.03	Modelled	Wet Weather Response	
12/14/19 7:20	Wet	0.43	2.20	0.04	Modelled	Wet Weather Response	
12/29/19 22:15	Wet	0.53	2.10	0.04	Modelled	Wet Weather Response	
Totals		33.66	321.70	20.12			

CSO 069					Receiving Water:		Lake Erie
Location: Upper Edgewater Park, approximately 300 yards W of bathing beach, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Edgewater Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 19:40	Wet	1.13	0.25	0.14	Monitored	Wet Weather Response	
8/6/19 13:40	Wet	1.52	0.08	0.07	Monitored	Wet Weather Response	
Totals		2.65	0.33	0.21			

CSO 071					Receiving Water:		Lake Erie
Location: Harborview Dr. & W 117th St., behind 11644 Harborview Dr., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 072					Receiving Water: Mill Creek		
Location: Access thru Harvard Refuse Inc. at Finney Rd. & E 78th St., along Mill Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/1/19 7:45	Dry	0.02	2.50	0.13	Monitored	Power outage at automated regulator	Overflow volume calculated using level monitoring equipment at the site.
5/28/19 19:25	Wet	1.05	0.50	0.39	Monitored	Wet Weather Response	
5/30/19 17:15	Wet	0.98	0.75	0.37	Monitored	Wet Weather Response	
6/5/19 9:50	Wet	1.20	0.08	0.01	Monitored	Wet Weather Response	
6/13/19 22:50	Wet	1.43	0.50	0.11	Monitored	Wet Weather Response	
6/16/19 15:15	Wet	1.31	0.25	0.10	Monitored	Wet Weather Response	
6/20/19 4:50	Wet	2.33	1.00	0.48	Monitored	Wet Weather Response	
7/5/19 13:20	Wet	0.80	0.25	0.17	Monitored	Wet Weather Response	
7/17/19 3:55	Wet	1.42	0.17	0.01	Monitored	Wet Weather Response	
8/7/19 1:15	Wet	0.32	0.08	0.01	Monitored	Wet Weather Response	
8/18/19 6:20	Wet	0.43	0.17	0.01	Monitored	Wet Weather Response	
8/20/19 19:45	Wet	0.04	0.25	0.16	Monitored	Wet Weather Response	
9/13/19 20:35	Wet	2.13	0.92	0.74	Monitored	Wet Weather Response	
Totals		13.46	7.42	2.69			

CSO 073					Receiving Water: Doan Brook		
Location: Giddings Brook at Doan Brook, NE of intersection of Baldwin Rd. & Fairhill Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Ambler Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:31	Wet	0.84	8.90	0.15	Modelled	Wet Weather Response	
1/23/19 8:20	Wet	1.30	2.70	0.15	Modelled	Wet Weather Response	
2/12/19 6:16	Wet	0.99	11.10	0.06	Modelled	Wet Weather Response	
3/14/19 18:20	Wet	0.46	1.10	0.18	Modelled	Wet Weather Response	
3/30/19 19:21	Wet	1.28	5.80	0.37	Modelled	Wet Weather Response	
4/19/19 16:06	Wet	1.37	3.10	0.46	Modelled	Wet Weather Response	
4/26/19 0:25	Wet	0.73	1.00	0.05	Modelled	Wet Weather Response	
4/29/19 17:46	Wet	0.50	1.60	0.04	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	0.69	2.20	2.32	Modelled	Wet Weather Response	
5/30/19 15:34	Wet	0.53	2.40	3.30	Modelled	Wet Weather Response	
6/2/19 0:31	Wet	0.50	1.70	0.04	Modelled	Wet Weather Response	
6/5/19 8:10	Wet	1.48	14.20	1.80	Modelled	Wet Weather Response	
6/10/19 11:25	Wet	0.90	3.80	1.34	Modelled	Wet Weather Response	
6/13/19 14:20	Wet	1.25	10.00	2.07	Modelled	Wet Weather Response	
6/16/19 0:27	Wet	1.55	15.60	2.91	Modelled	Wet Weather Response	
6/20/19 4:00	Wet	1.31	10.80	7.73	Modelled	Wet Weather Response	
6/24/19 16:18	Wet	0.52	5.50	5.41	Modelled	Wet Weather Response	
6/28/19 18:30	Wet	0.76	0.90	0.10	Modelled	Wet Weather Response	
7/2/19 21:30	Wet	0.39	2.10	0.81	Modelled	Wet Weather Response	
7/5/19 12:15	Wet	0.01	1.40	1.83	Modelled	Wet Weather Response	
7/17/19 2:15	Wet	0.87	11.00	3.20	Modelled	Wet Weather Response	
7/20/19 5:22	Wet	0.55	1.00	0.09	Modelled	Wet Weather Response	
7/30/19 8:39	Wet	0.66	2.10	1.00	Modelled	Wet Weather Response	
8/6/19 12:15	Wet	1.02	6.90	3.42	Modelled	Wet Weather Response	

CSO 073					Receiving Water: Doan Brook		
Location: Giddings Brook at Doan Brook, NE of intersection of Baldwin Rd. & Fairhill Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Ambler Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/18/19 5:20	Wet	0.92	1.30	0.74	Modelled	Wet Weather Response	
9/11/19 14:46	Wet	0.93	9.90	1.21	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	0.73	4.40	20.13	Modelled	Wet Weather Response	
10/16/19 6:20	Wet	1.00	12.10	0.19	Modelled	Wet Weather Response	
10/31/19 9:30	Wet	1.62	5.10	0.09	Modelled	Wet Weather Response	
12/1/19 16:01	Wet	0.66	1.30	0.05	Modelled	Wet Weather Response	
Totals		26.32	161.00	61.24			

CSO 074						Receiving Water: Cuyahoga River	
Location:		W 45 St. at Old River Bed, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Channel Park Marina					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/14/19 18:35	Wet	0.45	0.70	0.05	Modelled	Wet Weather Response	
4/19/19 16:35	Wet	1.33	0.70	0.01	Modelled	Wet Weather Response	
5/3/19 1:40	Wet	0.45	0.70	0.08	Modelled	Wet Weather Response	
5/30/19 16:25	Wet	0.56	1.00	0.25	Modelled	Wet Weather Response	
6/5/19 8:45	Wet	1.43	12.70	0.32	Modelled	Wet Weather Response	
6/10/19 12:15	Wet	1.14	2.20	0.60	Modelled	Wet Weather Response	
7/20/19 5:25	Wet	0.70	1.10	0.49	Modelled	Wet Weather Response	
7/21/19 20:40	Wet	0.36	0.70	0.08	Modelled	Wet Weather Response	
8/18/19 23:40	Wet	0.96	0.70	0.04	Modelled	Wet Weather Response	
9/11/19 23:40	Wet	0.46	0.70	0.07	Modelled	Wet Weather Response	
9/13/19 19:35	Wet	0.53	0.80	0.14	Modelled	Wet Weather Response	
Totals		8.37	22.00	2.13			

CSO 075						Receiving Water: Cuyahoga River	
Location:		River Rd. & Elm St., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/31/19 8:15	Dry	0.00	1.00	0.01	Modelled	Sticks in outlet	
6/10/19 14:10	Wet	1.14	1.00	0.08	Modelled	Wet Weather Response	
6/24/19 9:15	Dry	0.48	1.00	0.01	Modelled	Sticks / river inflow debris	
7/15/19 8:15	Dry	0.40	0.50	0.01	Modelled	Sticks / river inflow debris	
Totals		2.02	3.50	0.12			

CSO 076						Receiving Water: Cuyahoga River	
Location: Center St. & Cuyahoga River on W side of river, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/30/19 16:40	Wet	0.56	0.50	0.04	Modelled	Wet Weather Response	
6/5/19 13:40	Wet	1.43	7.50	0.03	Modelled	Wet Weather Response	
6/10/19 12:50	Wet	1.14	2.10	0.32	Modelled	Wet Weather Response	
7/20/19 5:40	Wet	0.70	0.60	0.05	Modelled	Wet Weather Response	
Totals		3.83	10.70	0.44			

CSO 078						Receiving Water: Cuyahoga River	
Location: Columbus Rd. & Cuyahoga River on W side of river, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rivergate Park, Heritage Park, and Settlers Landing Park Canalway Partners: Hart Crane Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 080					Receiving Water: Cuyahoga River		
Location:		University Rd., SE of 2065 Scranton Rd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Towpath Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:00	Wet	0.88	5.83	6.98	Monitored	Wet Weather Response	
1/23/19 6:15	Wet	1.18	17.75	25.18	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.18	3.83	2.21	Monitored	Wet Weather Response	
1/28/19 23:40	Wet	0.11	0.33	0.07	Monitored	Wet Weather Response	
1/29/19 0:00	Wet	0.00	0.58	0.07	Monitored	Wet Weather Response	
2/6/19 7:40	Wet	0.29	2.42	0.31	Monitored	Wet Weather Response	
2/7/19 15:00	Wet	0.50	5.00	4.93	Monitored	Wet Weather Response	
2/12/19 5:05	Wet	1.03	13.58	14.95	Monitored	Wet Weather Response	
2/20/19 18:30	Wet	0.38	3.25	3.63	Monitored	Wet Weather Response	
3/9/19 20:10	Wet	0.38	3.67	2.49	Monitored	Wet Weather Response	
3/10/19 3:35	Wet	0.27	4.00	1.75	Monitored	Wet Weather Response	
3/14/19 19:10	Wet	0.64	2.42	4.91	Monitored	Wet Weather Response	
3/29/19 6:30	Wet	0.32	2.50	0.55	Monitored	Wet Weather Response	
3/30/19 11:20	Wet	1.17	8.75	9.12	Monitored	Wet Weather Response	
3/31/19 0:00	Wet	0.22	2.67	0.15	Monitored	Wet Weather Response	
4/12/19 11:05	Wet	0.14	1.25	0.33	Monitored	Wet Weather Response	
4/14/19 8:35	Wet	0.56	5.42	1.82	Monitored	Wet Weather Response	
4/19/19 16:45	Wet	1.13	6.42	9.60	Monitored	Wet Weather Response	
4/20/19 0:25	Wet	0.31	5.08	3.78	Monitored	Wet Weather Response	
4/23/19 10:15	Wet	0.07	1.08	0.29	Monitored	Wet Weather Response	
4/25/19 21:00	Wet	0.19	1.00	0.21	Monitored	Wet Weather Response	
4/26/19 1:25	Wet	0.48	2.42	3.54	Monitored	Wet Weather Response	
4/28/19 1:40	Wet	0.36	4.08	1.74	Monitored	Wet Weather Response	
4/29/19 18:40	Wet	0.53	3.42	5.36	Monitored	Wet Weather Response	

CSO 080					Receiving Water: Cuyahoga River		
Location:		University Rd., SE of 2065 Scranton Rd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Towpath Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/30/19 14:25	Wet	0.11	1.33	0.61	Monitored	Wet Weather Response	
5/1/19 5:20	Wet	0.29	3.75	1.94	Monitored	Wet Weather Response	
5/2/19 1:35	Wet	0.48	6.25	4.94	Monitored	Wet Weather Response	
5/3/19 2:05	Wet	0.17	1.58	2.39	Monitored	Wet Weather Response	
5/9/19 15:25	Wet	0.31	2.00	0.80	Monitored	Wet Weather Response	
5/12/19 3:00	Wet	0.56	4.50	1.74	Monitored	Wet Weather Response	
5/13/19 0:00	Wet	0.03	0.92	0.12	Monitored	Wet Weather Response	
5/19/19 19:35	Wet	0.17	1.42	0.39	Monitored	Wet Weather Response	
5/23/19 8:40	Wet	0.11	1.17	0.22	Monitored	Wet Weather Response	
5/26/19 17:05	Wet	0.55	3.08	3.80	Monitored	Wet Weather Response	
5/28/19 1:40	Wet	1.13	6.42	11.82	Monitored	Wet Weather Response	
5/30/19 16:35	Wet	0.38	3.92	5.46	Monitored	Wet Weather Response	
6/1/19 22:45	Wet	0.13	1.00	0.11	Monitored	Wet Weather Response	
6/2/19 1:25	Wet	0.44	3.42	5.53	Monitored	Wet Weather Response	
6/5/19 0:50	Wet	1.38	8.50	8.78	Monitored	Wet Weather Response	
6/6/19 0:00	Wet	0.00	0.33	0.02	Monitored	Wet Weather Response	
6/10/19 12:40	Wet	0.90	5.75	8.51	Monitored	Wet Weather Response	
6/13/19 0:40	Wet	1.08	5.58	9.84	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.03	3.33	3.43	Monitored	Wet Weather Response	
6/15/19 18:10	Wet	0.24	1.42	0.21	Monitored	Wet Weather Response	
6/16/19 0:05	Wet	1.19	13.08	16.62	Monitored	Wet Weather Response	
6/20/19 5:15	Wet	0.91	14.75	13.16	Monitored	Wet Weather Response	
6/21/19 0:00	Wet	0.00	1.08	0.03	Monitored	Wet Weather Response	
6/24/19 20:35	Wet	0.48	2.58	5.16	Monitored	Wet Weather Response	

CSO 080					Receiving Water: Cuyahoga River		
Location:		University Rd., SE of 2065 Scranton Rd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Towpath Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/28/19 19:45	Wet	0.23	1.42	1.26	Monitored	Wet Weather Response	
6/29/19 13:40	Wet	0.03	0.67	0.16	Monitored	Wet Weather Response	
7/2/19 22:55	Wet	0.32	1.08	2.32	Monitored	Wet Weather Response	
7/3/19 0:00	Wet	0.01	1.08	0.36	Monitored	Wet Weather Response	
7/4/19 13:10	Wet	0.56	4.33	7.29	Monitored	Wet Weather Response	
7/15/19 21:30	Wet	0.40	1.50	2.66	Monitored	Wet Weather Response	
7/16/19 20:35	Wet	0.24	2.08	2.21	Monitored	Wet Weather Response	
7/17/19 3:30	Wet	0.48	5.08	8.86	Monitored	Wet Weather Response	
7/20/19 6:35	Wet	0.19	1.42	1.29	Monitored	Wet Weather Response	
7/22/19 8:50	Wet	0.44	2.50	4.04	Monitored	Wet Weather Response	
8/6/19 13:30	Wet	1.52	5.67	9.08	Monitored	Wet Weather Response	
8/7/19 1:00	Wet	0.53	1.75	2.45	Monitored	Wet Weather Response	
8/15/19 14:45	Wet	0.10	1.67	2.33	Monitored	Wet Weather Response	
8/17/19 14:55	Wet	0.23	0.92	0.27	Monitored	Wet Weather Response	
8/18/19 6:15	Wet	0.58	1.92	3.20	Monitored	Wet Weather Response	
8/19/19 0:20	Wet	0.60	3.08	4.44	Monitored	Wet Weather Response	
8/20/19 20:30	Wet	0.08	0.42	0.03	Monitored	Wet Weather Response	
8/22/19 2:50	Wet	0.46	3.33	1.24	Monitored	Wet Weather Response	
8/27/19 15:35	Wet	0.20	1.08	0.17	Monitored	Wet Weather Response	
9/1/19 17:50	Wet	0.22	2.00	0.26	Monitored	Wet Weather Response	
9/11/19 14:10	Wet	0.49	2.33	1.12	Monitored	Wet Weather Response	
9/12/19 1:00	Wet	0.30	1.33	2.31	Monitored	Wet Weather Response	
9/13/19 20:25	Wet	0.52	2.75	9.16	Monitored	Wet Weather Response	
10/2/19 17:05	Wet	0.40	2.83	0.61	Monitored	Wet Weather Response	

CSO 080					Receiving Water: Cuyahoga River		
Location:		University Rd., SE of 2065 Scranton Rd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Towpath Trail					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/12/19 4:50	Wet	0.33	1.17	0.42	Monitored	Wet Weather Response	
10/16/19 6:30	Wet	1.01	7.58	6.49	Monitored	Wet Weather Response	
10/22/19 0:45	Wet	0.06	0.42	0.02	Monitored	Wet Weather Response	
10/26/19 16:30	Wet	0.73	5.92	2.50	Monitored	Wet Weather Response	
10/27/19 0:20	Wet	0.07	0.83	0.03	Monitored	Wet Weather Response	
10/30/19 17:30	Wet	0.42	2.67	0.52	Monitored	Wet Weather Response	
10/31/19 10:00	Wet	0.97	6.83	9.65	Monitored	Wet Weather Response	
11/1/19 0:25	Wet	0.49	6.17	2.97	Monitored	Wet Weather Response	
11/11/19 14:00	Wet	0.72	8.25	3.50	Monitored	Wet Weather Response	
11/27/19 3:05	Wet	0.21	1.00	0.04	Monitored	Wet Weather Response	
12/1/19 6:10	Wet	0.52	2.25	1.78	Monitored	Wet Weather Response	
12/2/19 10:45	Wet	0.16	0.92	0.05	Monitored	Wet Weather Response	
12/9/19 10:50	Wet	0.47	4.00	1.02	Monitored	Wet Weather Response	
12/14/19 6:55	Wet	0.50	7.67	2.88	Monitored	Wet Weather Response	
12/29/19 10:20	Wet	0.46	1.75	0.77	Monitored	Wet Weather Response	
12/30/19 0:00	Wet	0.10	1.58	0.37	Monitored	Wet Weather Response	
Totals		38.74	315.16	309.73			

CSO 081					Receiving Water: Cuyahoga River		
Location:		Downstream of W 3rd St. bridge, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:15	Wet	1.81	1.00	0.58	Modelled	Wet Weather Response	
7/4/19 14:25	Wet	1.39	0.70	0.17	Modelled	Wet Weather Response	
9/13/19 19:35	Wet	0.34	0.60	0.07	Modelled	Wet Weather Response	
Totals		3.54	2.30	0.82			

CSO 082					Receiving Water: Cuyahoga River		
Location:		W 3rd St. & Cuyahoga River under bridge on S side of river, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/23/19 8:16	Wet	1.36	1.90	0.01	Modelled	Wet Weather Response	
4/20/19 5:10	Wet	1.73	2.00	0.07	Modelled	Wet Weather Response	
5/28/19 18:00	Wet	1.81	1.80	0.36	Modelled	Wet Weather Response	
5/30/19 14:35	Wet	1.04	2.70	0.16	Modelled	Wet Weather Response	
6/2/19 0:10	Wet	0.71	1.90	0.02	Modelled	Wet Weather Response	
6/5/19 8:05	Wet	1.06	1.20	0.15	Modelled	Wet Weather Response	
6/10/19 11:20	Wet	1.01	2.70	0.04	Modelled	Wet Weather Response	
6/13/19 13:25	Wet	1.13	10.70	0.04	Modelled	Wet Weather Response	
6/15/19 23:31	Wet	1.53	14.60	0.12	Modelled	Wet Weather Response	
6/20/19 8:20	Wet	1.70	6.90	0.05	Modelled	Wet Weather Response	
7/4/19 12:45	Wet	1.39	2.70	0.25	Modelled	Wet Weather Response	
7/16/19 19:35	Wet	1.15	15.50	0.01	Modelled	Wet Weather Response	
7/22/19 7:20	Wet	0.66	1.20	0.03	Modelled	Wet Weather Response	
8/18/19 5:05	Wet	1.16	1.10	0.02	Modelled	Wet Weather Response	
8/18/19 23:10	Wet	1.16	1.20	0.09	Modelled	Wet Weather Response	
9/13/19 19:10	Wet	1.21	1.30	0.18	Modelled	Wet Weather Response	
Totals		19.81	69.40	1.60			

CSO 083						Receiving Water:	Big Creek
Location: W 25th St. bridge & Big Creek, W of bridge on N side of creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		CSO 083 converted to stormwater only outlet as of 3/21/19
Totals		0.00	0.00	0.00			

CSO 084						Receiving Water:	Big Creek
Location: 1,000 feet E of Ridge Rd. & Associate Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:25	Wet	0.53	1.80	0.03	Modelled	Wet Weather Response	
Totals		0.53	1.80	0.03			

CSO 085						Receiving Water:	Barberton Creek
Location: W 56th St. S of Dennison Ave., behind Palmer Supply Co, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/2019 19:16	Wet	1.43	2.55	0.02	Modelled	Wet Weather Response	CSO 085 converted to stormwater only outlet as of 9/17/19
Totals		1.43	2.55	0.02			

CSO 086						Receiving Water: Cuyahoga River	
Location: Mary St. E of W 3rd St. at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:45	Wet	1.81	1.10	0.90	Modelled	Wet Weather Response	
7/4/19 14:55	Wet	1.39	0.80	0.33	Modelled	Wet Weather Response	
9/13/19 20:00	Wet	1.21	0.90	0.25	Modelled	Wet Weather Response	
Totals		4.41	2.80	1.48			

CSO 087						Receiving Water: Cuyahoga River	
Location: E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:25	Wet	0.77	9.00	0.08	Modelled	Wet Weather Response	
1/19/19 17:40	Wet	1.52	7.80	0.20	Modelled	Wet Weather Response	
1/23/19 6:15	Wet	1.36	5.00	0.13	Modelled	Wet Weather Response	
1/30/19 21:40	Dry	0.00	34.50	2.34	Modelled	Water main break	Overflow volume calculated using level monitoring equipment at the site.
2/1/19 11:40	Dry	0.02	3.58	0.08	Modelled	Water main break	Overflow volume calculated using level monitoring equipment at the site.
2/7/19 14:40	Wet	0.47	2.40	0.05	Modelled	Wet Weather Response	
2/12/19 5:05	Wet	1.00	12.10	0.09	Modelled	Wet Weather Response	
2/20/19 18:15	Wet	0.41	2.00	0.03	Modelled	Wet Weather Response	
3/9/19 19:50	Wet	0.71	2.50	0.03	Modelled	Wet Weather Response	
3/14/19 17:25	Wet	0.59	2.00	0.11	Modelled	Wet Weather Response	
3/29/19 5:00	Wet	0.40	1.40	0.01	Modelled	Wet Weather Response	

CSO 087						Receiving Water: Cuyahoga River	
Location: E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/30/19 15:25	Wet	1.40	8.80	0.17	Modelled	Wet Weather Response	
4/14/19 9:15	Wet	0.61	1.10	0.02	Modelled	Wet Weather Response	
4/19/19 15:20	Wet	1.73	16.10	0.26	Modelled	Wet Weather Response	
4/25/19 23:46	Wet	0.63	1.60	0.07	Modelled	Wet Weather Response	
4/28/19 0:31	Wet	0.50	1.80	0.01	Modelled	Wet Weather Response	
4/29/19 17:25	Wet	0.46	2.00	0.07	Modelled	Wet Weather Response	
5/2/19 1:20	Wet	0.67	1.60	0.02	Modelled	Wet Weather Response	
5/3/19 0:30	Wet	0.33	0.80	0.03	Modelled	Wet Weather Response	
5/26/19 15:25	Wet	0.51	2.90	0.04	Modelled	Wet Weather Response	
5/28/19 13:49	Wet	1.81	5.80	1.80	Modelled	Wet Weather Response	
5/30/19 14:20	Wet	1.04	3.20	0.59	Modelled	Wet Weather Response	
6/1/19 23:50	Wet	0.71	2.50	0.11	Modelled	Wet Weather Response	
6/4/19 22:55	Wet	1.06	10.70	0.61	Modelled	Wet Weather Response	
6/10/19 11:05	Wet	1.01	3.20	0.40	Modelled	Wet Weather Response	
6/12/19 23:10	Wet	0.37	1.30	0.04	Modelled	Wet Weather Response	
6/13/19 13:25	Wet	1.13	10.90	0.26	Modelled	Wet Weather Response	
6/15/19 21:45	Wet	1.53	16.70	0.53	Modelled	Wet Weather Response	
6/20/19 5:25	Wet	1.70	15.10	0.36	Modelled	Wet Weather Response	
6/24/19 19:20	Wet	0.44	1.90	0.10	Modelled	Wet Weather Response	
7/4/19 12:15	Wet	1.39	3.30	1.19	Modelled	Wet Weather Response	
7/15/19 20:22	Wet	0.29	1.00	0.05	Modelled	Wet Weather Response	
7/16/19 19:25	Wet	1.15	16.70	0.20	Modelled	Wet Weather Response	
7/22/19 7:10	Wet	0.66	2.20	0.18	Modelled	Wet Weather Response	
8/6/19 12:20	Wet	0.94	7.10	0.19	Modelled	Wet Weather Response	

CSO 087					Receiving Water: Cuyahoga River		
Location:		E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/15/19 13:15	Wet	0.35	1.20	0.07	Modelled	Wet Weather Response	
8/17/19 14:25	Wet	0.20	0.80	0.01	Modelled	Wet Weather Response	
8/18/19 4:50	Wet	1.16	1.60	0.15	Modelled	Wet Weather Response	
8/18/19 23:10	Wet	1.16	1.90	0.30	Modelled	Wet Weather Response	
8/22/19 1:55	Wet	0.42	4.40	0.02	Modelled	Wet Weather Response	
8/28/19 11:00	Dry	0.00	1.75	0.06	Modelled	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.
9/13/19 19:05	Wet	1.21	2.20	1.16	Modelled	Wet Weather Response	
9/17/19 13:30	Dry	0.00	0.92	0.03	Modelled	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.
10/16/19 4:50	Wet	0.77	3.30	0.08	Modelled	Wet Weather Response	
10/17/19 17:25	Dry	0.07	2.17	0.05	Modelled	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.
10/18/19 11:25	Dry	0.00	1.83	0.06	Modelled	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.
10/19/19 10:15	Dry	0.00	3.42	0.06	Modelled	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.

CSO 087						Receiving Water: Cuyahoga River	
Location: E of Houston Ave. & Quigley Rd. at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/26/19 15:10	Wet	0.84	4.20	0.05	Modelled	Wet Weather Response	
10/31/19 8:35	Wet	1.43	5.70	0.11	Modelled	Wet Weather Response	
11/11/19 13:35	Wet	1.02	7.60	0.08	Modelled	Wet Weather Response	
12/1/19 15:25	Wet	0.61	1.00	0.02	Modelled	Wet Weather Response	
12/14/19 7:26	Wet	0.64	2.00	0.01	Modelled	Wet Weather Response	
Totals		39.20	266.57	12.77			

CSO 088						Receiving Water: Cuyahoga River	
Location: Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.79	1.33	0.33	Monitored	Wet Weather Response	
1/23/19 8:35	Wet	1.16	3.25	0.55	Monitored	Wet Weather Response	
2/12/19 6:00	Wet	0.97	2.42	0.30	Monitored	Wet Weather Response	
2/20/19 19:10	Wet	0.35	0.58	0.07	Monitored	Wet Weather Response	
3/9/19 21:25	Wet	0.33	0.33	0.04	Monitored	Wet Weather Response	
3/14/19 19:15	Wet	0.56	0.92	0.25	Monitored	Wet Weather Response	
3/30/19 20:45	Wet	1.29	1.42	0.21	Monitored	Wet Weather Response	
4/19/19 17:30	Wet	1.15	2.00	0.34	Monitored	Wet Weather Response	
4/20/19 6:55	Wet	0.39	0.75	0.19	Monitored	Wet Weather Response	
4/26/19 1:30	Wet	0.52	0.58	0.08	Monitored	Wet Weather Response	
4/29/19 18:50	Wet	0.46	1.08	0.15	Monitored	Wet Weather Response	
5/1/19 19:25	Wet	0.33	0.17	0.28	Monitored	Wet Weather Response	

CSO 088					Receiving Water: Cuyahoga River		
Location:		Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/2/19 3:10	Wet	0.44	0.08	0.01	Monitored	Wet Weather Response	
5/3/19 2:05	Wet	0.13	0.33	0.12	Monitored	Wet Weather Response	
5/9/19 15:20	Wet	0.40	0.33	0.06	Monitored	Wet Weather Response	
5/26/19 17:00	Wet	0.60	1.25	0.17	Monitored	Wet Weather Response	
5/28/19 1:55	Wet	1.34	2.17	1.55	Monitored	Wet Weather Response	
5/30/19 16:15	Wet	0.75	2.08	0.54	Monitored	Wet Weather Response	
6/2/19 1:30	Wet	0.45	2.00	0.34	Monitored	Wet Weather Response	
6/5/19 9:20	Wet	1.31	2.92	0.69	Monitored	Wet Weather Response	
6/10/19 12:50	Wet	0.80	2.92	0.54	Monitored	Wet Weather Response	
6/13/19 0:40	Wet	1.44	3.08	0.89	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.07	1.08	0.22	Monitored	Wet Weather Response	
6/15/19 23:20	Wet	0.28	0.08	0.01	Monitored	Wet Weather Response	
6/16/19 0:55	Wet	1.18	4.67	0.96	Monitored	Wet Weather Response	
6/20/19 5:00	Wet	2.00	7.83	2.29	Monitored	Wet Weather Response	
6/24/19 20:25	Wet	0.63	1.75	0.35	Monitored	Wet Weather Response	
7/2/19 22:45	Wet	0.43	0.92	0.76	Monitored	Wet Weather Response	
7/4/19 13:05	Wet	0.79	1.58	0.52	Monitored	Wet Weather Response	
7/15/19 21:35	Wet	0.35	0.67	0.23	Monitored	Wet Weather Response	
7/16/19 20:40	Wet	0.31	0.83	0.19	Monitored	Wet Weather Response	
7/17/19 3:30	Wet	1.05	2.75	0.62	Monitored	Wet Weather Response	
7/22/19 8:45	Wet	0.53	1.42	0.25	Monitored	Wet Weather Response	
8/6/19 13:40	Wet	1.16	2.42	0.52	Monitored	Wet Weather Response	
8/7/19 1:25	Wet	0.23	0.58	0.13	Monitored	Wet Weather Response	
8/15/19 14:50	Wet	0.37	0.83	0.01	Monitored	Wet Weather Response	

CSO 088					Receiving Water: Cuyahoga River		
Location:		Located on LTV Steel property, N of RR bridge, on W side of river, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/17/19 14:50	Wet	0.12	0.33	0.01	Monitored	Wet Weather Response	
8/18/19 6:15	Wet	0.54	0.75	0.22	Monitored	Wet Weather Response	
8/19/19 0:20	Wet	0.62	1.42	0.17	Monitored	Wet Weather Response	
8/20/19 19:50	Wet	0.08	0.42	0.03	Monitored	Wet Weather Response	
8/22/19 2:50	Wet	0.35	0.58	0.01	Monitored	Wet Weather Response	
9/1/19 17:40	Wet	0.28	0.25	0.01	Monitored	Wet Weather Response	
9/11/19 14:10	Wet	0.29	0.92	0.05	Monitored	Wet Weather Response	
9/12/19 1:00	Wet	0.41	0.58	0.24	Monitored	Wet Weather Response	
9/13/19 20:25	Wet	1.87	2.08	1.93	Monitored	Wet Weather Response	
10/2/19 16:45	Wet	0.23	0.50	0.01	Monitored	Wet Weather Response	
10/12/19 4:55	Wet	0.27	0.25	0.01	Monitored	Wet Weather Response	
10/16/19 6:30	Wet	1.07	3.67	0.11	Monitored	Wet Weather Response	
10/26/19 16:30	Wet	0.61	0.83	0.01	Monitored	Wet Weather Response	
10/31/19 10:00	Wet	0.98	4.50	0.17	Monitored	Wet Weather Response	
11/1/19 0:35	Wet	0.31	1.25	0.01	Monitored	Wet Weather Response	
11/11/19 13:45	Wet	0.67	2.58	0.02	Monitored	Wet Weather Response	
12/1/19 16:00	Wet	0.36	0.92	0.03	Monitored	Wet Weather Response	
12/9/19 16:15	Wet	0.48	0.25	0.01	Monitored	Wet Weather Response	
12/14/19 8:30	Wet	0.57	1.58	0.02	Monitored	Wet Weather Response	
12/29/19 23:20	Wet	0.45	0.42	0.01	Monitored	Wet Weather Response	
Totals		35.90	83.48	17.84			

CSO 089						Receiving Water: Cuyahoga River	
Location: E of W 3rd St. Pump Station, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:05	Wet	1.81	1.50	0.13	Modelled	Wet Weather Response	
5/30/19 16:05	Wet	1.04	1.10	0.02	Modelled	Wet Weather Response	
6/5/19 8:06	Wet	1.06	1.10	0.02	Modelled	Wet Weather Response	
6/10/19 11:15	Wet	1.01	0.90	0.01	Modelled	Wet Weather Response	
6/16/19 0:10	Wet	1.53	1.10	0.01	Modelled	Wet Weather Response	
7/4/19 12:40	Wet	1.39	2.80	0.08	Modelled	Wet Weather Response	
8/18/19 23:15	Wet	1.16	0.90	0.01	Modelled	Wet Weather Response	
9/13/19 19:10	Wet	1.21	1.50	0.08	Modelled	Wet Weather Response	
Totals		10.21	10.90	0.36			

CSO 091						Receiving Water: Cuyahoga River	
Location: Old River Rd. & Main Ave. on E side of river, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 092						Receiving Water: Cuyahoga River	
Location: Intersection of Old River Rd. & Front Ave. at Cuyahoga River, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Wendy Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 093						Receiving Water:	Lake Erie
Location: N of Municipal Stadium, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
11/14/19 12:34	Dry	0.01	0.10	0.01	Modelled	HVAC leak -- release of ethylene glycol	Spill was not caused by the District, however the District did report the event to Ohio EPA's spill response hotline once it became aware.
Totals		0.01	0.10	0.01			

CSO 094						Receiving Water:	Lake Erie
Location: N of E 12th St. & Lakeside Ave. at USS COD, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:55	Wet	0.88	9.00	0.37	Modelled	Wet Weather Response	
1/19/19 23:00	Wet	0.56	2.30	0.16	Modelled	Wet Weather Response	
1/23/19 6:52	Wet	1.22	4.50	0.79	Modelled	Wet Weather Response	
2/7/19 15:15	Wet	0.49	1.60	0.12	Modelled	Wet Weather Response	
2/12/19 5:30	Wet	1.11	11.90	0.57	Modelled	Wet Weather Response	
3/14/19 18:05	Wet	0.45	1.50	0.70	Modelled	Wet Weather Response	
3/30/19 15:56	Wet	1.13	8.30	0.53	Modelled	Wet Weather Response	
4/14/19 17:30	Wet	0.68	0.90	0.11	Modelled	Wet Weather Response	
4/19/19 15:30	Wet	1.33	16.10	1.57	Modelled	Wet Weather Response	
4/26/19 0:30	Wet	0.54	1.10	0.18	Modelled	Wet Weather Response	
4/29/19 17:50	Wet	0.46	1.70	0.39	Modelled	Wet Weather Response	
5/2/19 3:51	Wet	0.90	1.50	0.07	Modelled	Wet Weather Response	
5/3/19 1:15	Wet	0.45	1.20	0.36	Modelled	Wet Weather Response	

CSO 094					Receiving Water:		Lake Erie
Location:		N of E 12th St. & Lakeside Ave. at USS COD, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:20	Wet	0.57	2.20	3.75	Modelled	Wet Weather Response	
5/30/19 15:13	Wet	0.56	2.70	2.15	Modelled	Wet Weather Response	
6/2/19 0:23	Wet	0.46	2.10	0.48	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	1.43	13.60	2.23	Modelled	Wet Weather Response	
6/10/19 11:25	Wet	1.14	3.60	3.30	Modelled	Wet Weather Response	
6/12/19 23:45	Wet	0.87	0.70	0.04	Modelled	Wet Weather Response	
6/13/19 14:10	Wet	0.87	10.20	0.41	Modelled	Wet Weather Response	
6/15/19 17:25	Wet	1.43	21.20	1.10	Modelled	Wet Weather Response	
6/20/19 5:22	Wet	0.81	10.40	0.18	Modelled	Wet Weather Response	
6/24/19 19:35	Wet	0.48	1.80	0.61	Modelled	Wet Weather Response	
7/4/19 12:50	Wet	0.34	3.00	1.60	Modelled	Wet Weather Response	
7/16/19 19:40	Wet	0.50	7.90	0.36	Modelled	Wet Weather Response	
7/20/19 5:15	Wet	0.70	1.30	1.22	Modelled	Wet Weather Response	
7/21/19 20:25	Wet	0.73	12.70	0.51	Modelled	Wet Weather Response	
8/6/19 12:55	Wet	0.69	6.70	0.40	Modelled	Wet Weather Response	
8/18/19 5:25	Wet	0.96	19.50	1.22	Modelled	Wet Weather Response	
9/11/19 23:30	Wet	0.46	0.90	0.23	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	0.53	2.20	2.93	Modelled	Wet Weather Response	
10/16/19 6:06	Wet	0.64	2.10	0.09	Modelled	Wet Weather Response	
10/26/19 15:31	Wet	0.68	1.10	0.12	Modelled	Wet Weather Response	
10/31/19 9:12	Wet	1.37	5.40	0.60	Modelled	Wet Weather Response	
11/11/19 14:15	Wet	0.58	1.20	0.03	Modelled	Wet Weather Response	
Totals		27.00	194.10	29.48			

CSO 095					Receiving Water:		Lake Erie
Location:		N of E 20th St. & Lakeside Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:15	Wet	0.57	1.20	2.43	Modelled	Wet Weather Response	
5/30/19 16:20	Wet	0.56	0.90	0.54	Modelled	Wet Weather Response	
6/5/19 8:25	Wet	1.43	0.80	0.26	Modelled	Wet Weather Response	
7/4/19 14:20	Wet	0.34	1.10	1.15	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	0.53	1.10	1.53	Modelled	Wet Weather Response	
Totals		3.43	5.10	5.91			

CSO 096					Receiving Water:		Lake Erie
Location:		N of E 26th St. & Lakeside Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/19/19 22:06	Wet	1.52	2.30	0.04	Modelled	Wet Weather Response	
1/23/19 9:35	Wet	1.36	1.00	0.05	Modelled	Wet Weather Response	
3/14/19 18:15	Wet	0.59	1.20	0.09	Modelled	Wet Weather Response	
4/20/19 5:50	Wet	1.73	1.70	0.29	Modelled	Wet Weather Response	
4/26/19 0:51	Wet	0.63	0.60	0.02	Modelled	Wet Weather Response	
5/28/19 18:15	Wet	1.81	1.90	2.62	Modelled	Wet Weather Response	
5/30/19 14:55	Wet	1.04	3.00	0.92	Modelled	Wet Weather Response	
6/2/19 0:55	Wet	0.71	1.40	0.07	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	1.06	1.60	0.83	Modelled	Wet Weather Response	
6/10/19 11:25	Wet	1.01	2.90	0.54	Modelled	Wet Weather Response	
6/13/19 22:20	Wet	1.13	2.20	0.27	Modelled	Wet Weather Response	
6/16/19 0:15	Wet	1.53	1.70	0.65	Modelled	Wet Weather Response	
6/20/19 8:51	Wet	1.70	7.00	0.25	Modelled	Wet Weather Response	
6/24/19 19:55	Wet	0.44	0.70	0.04	Modelled	Wet Weather Response	
7/4/19 12:45	Wet	1.39	3.40	1.97	Modelled	Wet Weather Response	
7/17/19 2:30	Wet	1.15	1.20	0.19	Modelled	Wet Weather Response	
7/22/19 7:35	Wet	0.66	1.50	0.24	Modelled	Wet Weather Response	
8/6/19 12:50	Wet	0.94	6.70	0.15	Modelled	Wet Weather Response	
8/15/19 13:50	Wet	0.35	0.70	0.05	Modelled	Wet Weather Response	
8/18/19 5:30	Wet	1.16	1.10	0.18	Modelled	Wet Weather Response	
8/18/19 23:30	Wet	1.16	1.40	0.39	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	1.21	2.10	1.89	Modelled	Wet Weather Response	
Totals		24.28	47.30	11.74			

CSO 097					Receiving Water:		Lake Erie
Location:		N of I-71 & I-90, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/20/19 5:39	Wet	1.73	1.60	0.03	Modelled	Wet Weather Response	
5/28/19 18:10	Wet	1.81	1.70	0.75	Modelled	Wet Weather Response	
5/30/19 14:43	Wet	1.04	2.80	0.19	Modelled	Wet Weather Response	
6/5/19 8:10	Wet	1.06	1.30	0.17	Modelled	Wet Weather Response	
6/10/19 11:15	Wet	1.01	2.90	0.09	Modelled	Wet Weather Response	
6/13/19 22:22	Wet	1.13	1.90	0.02	Modelled	Wet Weather Response	
6/16/19 0:10	Wet	1.53	1.30	0.12	Modelled	Wet Weather Response	
6/20/19 8:40	Wet	1.70	6.60	0.02	Modelled	Wet Weather Response	
7/4/19 12:31	Wet	1.39	3.30	0.50	Modelled	Wet Weather Response	
7/16/19 19:56	Wet	1.15	7.40	0.02	Modelled	Wet Weather Response	
7/22/19 7:25	Wet	0.66	1.00	0.03	Modelled	Wet Weather Response	
8/6/19 12:36	Wet	0.94	6.70	0.03	Modelled	Wet Weather Response	
8/18/19 5:20	Wet	1.16	0.90	0.03	Modelled	Wet Weather Response	
8/18/19 23:20	Wet	1.16	1.10	0.07	Modelled	Wet Weather Response	
9/13/19 19:11	Wet	1.21	2.00	0.47	Modelled	Wet Weather Response	
Totals		18.68	42.50	2.54			

CSO 098					Receiving Water: Lake Erie		
Location: N of E 33rd St. & Lakeside Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/2/19 13:30	Dry	0.04	21.00	0.02	Modelled	Water main break	
1/8/19 8:26	Wet	0.77	11.00	0.29	Modelled	Wet Weather Response	
1/19/19 15:30	Wet	1.52	12.30	0.83	Modelled	Wet Weather Response	
1/23/19 5:42	Wet	1.36	22.60	0.51	Modelled	Wet Weather Response	
2/7/19 14:35	Wet	0.47	4.00	0.20	Modelled	Wet Weather Response	
2/12/19 4:45	Wet	1.00	14.90	0.39	Modelled	Wet Weather Response	
2/20/19 18:15	Wet	0.41	2.60	0.13	Modelled	Wet Weather Response	
3/9/19 19:40	Wet	0.71	9.90	0.24	Modelled	Wet Weather Response	
3/14/19 17:25	Wet	0.59	4.00	0.29	Modelled	Wet Weather Response	
3/29/19 4:40	Wet	0.40	3.20	0.11	Modelled	Wet Weather Response	
3/30/19 9:55	Wet	1.40	15.70	0.68	Modelled	Wet Weather Response	
4/14/19 6:50	Wet	0.61	11.60	0.12	Modelled	Wet Weather Response	
4/19/19 10:23	Wet	1.73	21.80	0.81	Modelled	Wet Weather Response	
4/25/19 20:00	Wet	0.63	6.40	0.20	Modelled	Wet Weather Response	
4/27/19 23:30	Wet	0.50	4.50	0.12	Modelled	Wet Weather Response	
4/29/19 17:25	Wet	0.46	3.10	0.22	Modelled	Wet Weather Response	
4/30/19 13:00	Wet	0.15	1.40	0.01	Modelled	Wet Weather Response	
5/1/19 18:55	Wet	0.67	10.80	0.18	Modelled	Wet Weather Response	
5/3/19 0:30	Wet	0.33	1.50	0.09	Modelled	Wet Weather Response	
5/9/19 14:00	Wet	0.33	1.70	0.03	Modelled	Wet Weather Response	
5/12/19 1:29	Wet	0.31	2.50	0.07	Modelled	Wet Weather Response	
5/19/19 18:30	Wet	0.15	1.10	0.02	Modelled	Wet Weather Response	
5/23/19 7:50	Wet	0.12	0.80	0.01	Modelled	Wet Weather Response	
5/26/19 15:20	Wet	0.51	3.70	0.16	Modelled	Wet Weather Response	

CSO 098					Receiving Water: Lake Erie		
Location: N of E 33rd St. & Lakeside Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 0:01	Wet	1.81	1.70	0.03	Modelled	Wet Weather Response	
5/28/19 13:45	Wet	1.81	7.70	2.16	Modelled	Wet Weather Response	
5/30/19 14:25	Wet	1.04	4.20	1.00	Modelled	Wet Weather Response	
6/1/19 20:46	Wet	0.71	6.40	0.33	Modelled	Wet Weather Response	
6/4/19 22:40	Wet	1.06	12.20	0.83	Modelled	Wet Weather Response	
6/10/19 11:00	Wet	1.01	7.50	0.73	Modelled	Wet Weather Response	
6/12/19 23:00	Wet	1.13	26.20	0.79	Modelled	Wet Weather Response	
6/15/19 16:46	Wet	1.53	22.50	0.89	Modelled	Wet Weather Response	
6/20/19 5:15	Wet	1.70	18.20	0.84	Modelled	Wet Weather Response	
6/24/19 19:20	Wet	0.44	2.60	0.23	Modelled	Wet Weather Response	
6/28/19 18:40	Wet	0.22	1.10	0.04	Modelled	Wet Weather Response	
7/4/19 12:20	Wet	1.39	4.90	1.78	Modelled	Wet Weather Response	
7/15/19 20:25	Wet	0.29	1.70	0.13	Modelled	Wet Weather Response	
7/16/19 19:25	Wet	1.15	17.30	0.59	Modelled	Wet Weather Response	
7/21/19 3:45	Wet	0.14	0.90	0.02	Modelled	Wet Weather Response	
7/22/19 7:15	Wet	0.66	3.00	0.39	Modelled	Wet Weather Response	
8/6/19 12:20	Wet	0.94	8.10	0.51	Modelled	Wet Weather Response	
8/15/19 13:20	Wet	0.35	1.80	0.18	Modelled	Wet Weather Response	
8/17/19 14:11	Wet	0.20	1.60	0.05	Modelled	Wet Weather Response	
8/18/19 4:45	Wet	1.16	21.30	0.77	Modelled	Wet Weather Response	
8/22/19 1:45	Wet	0.42	5.80	0.10	Modelled	Wet Weather Response	
9/1/19 16:35	Wet	0.23	2.10	0.05	Modelled	Wet Weather Response	
9/11/19 15:45	Wet	0.34	14.10	0.03	Modelled	Wet Weather Response	
9/13/19 19:08	Wet	1.21	4.00	1.60	Modelled	Wet Weather Response	

CSO 098					Receiving Water:		Lake Erie
Location:		N of E 33rd St. & Lakeside Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/2/19 15:40	Wet	0.22	1.80	0.05	Modelled	Wet Weather Response	
10/12/19 2:50	Wet	0.26	2.10	0.05	Modelled	Wet Weather Response	
10/16/19 4:40	Wet	0.77	4.10	0.28	Modelled	Wet Weather Response	
10/16/19 21:30	Wet	0.77	1.20	0.03	Modelled	Wet Weather Response	
10/21/19 22:50	Wet	0.18	1.00	0.01	Modelled	Wet Weather Response	
10/26/19 14:57	Wet	0.84	8.70	0.27	Modelled	Wet Weather Response	
10/30/19 15:24	Wet	1.43	34.10	0.52	Modelled	Wet Weather Response	
11/11/19 13:30	Wet	1.02	10.90	0.40	Modelled	Wet Weather Response	
11/27/19 2:36	Wet	0.22	1.90	0.02	Modelled	Wet Weather Response	
12/1/19 15:30	Wet	0.61	2.80	0.09	Modelled	Wet Weather Response	
12/9/19 10:27	Wet	0.48	6.60	0.05	Modelled	Wet Weather Response	
12/14/19 5:51	Wet	0.64	7.80	0.17	Modelled	Wet Weather Response	
12/29/19 9:20	Wet	0.59	16.00	0.09	Modelled	Wet Weather Response	
Totals		44.14	488.00	21.83			

CSO 099					Receiving Water:		Lake Erie
Location:		N of E 38th St. & King Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:15	Wet	1.81	1.00	0.53	Modelled	Wet Weather Response	
7/4/19 14:20	Wet	1.39	0.80	0.20	Modelled	Wet Weather Response	
9/13/19 19:25	Wet	1.21	0.80	0.20	Modelled	Wet Weather Response	
Totals		4.41	2.60	0.93			

CSO 200					Receiving Water:		Lake Erie
Location: N of E 40th St. & King Ave., N of Aviation High School, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Lakeside Yacht Club							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:55	Wet	0.64	3.58	0.60	Monitored	Wet Weather Response	
1/23/19 5:40	Wet	1.08	14.83	2.04	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.20	1.83	0.19	Monitored	Wet Weather Response	
1/28/19 23:25	Wet	0.11	0.58	0.04	Monitored	Wet Weather Response	
1/29/19 0:00	Wet	0.00	0.42	0.03	Monitored	Wet Weather Response	
2/6/19 7:30	Wet	0.29	1.83	0.08	Monitored	Wet Weather Response	
2/7/19 14:50	Wet	0.43	4.50	0.56	Monitored	Wet Weather Response	
2/12/19 5:00	Wet	0.94	10.83	1.66	Monitored	Wet Weather Response	
2/20/19 18:35	Wet	0.34	1.92	0.35	Monitored	Wet Weather Response	
3/4/19 10:00	Dry	0.00	1.00	0.01	Monitored	Private force main leak	
3/9/19 20:05	Wet	0.34	3.50	0.48	Monitored	Wet Weather Response	
3/10/19 3:35	Wet	0.27	3.67	0.49	Monitored	Wet Weather Response	
3/14/19 18:45	Wet	0.48	2.25	1.78	Monitored	Wet Weather Response	
3/29/19 6:15	Wet	0.32	2.50	0.13	Monitored	Wet Weather Response	
3/30/19 11:20	Wet	1.20	8.25	2.62	Monitored	Wet Weather Response	
4/7/19 19:55	Wet	0.02	0.08	0.01	Monitored	Wet Weather Response	
4/12/19 10:55	Wet	0.18	1.08	0.20	Monitored	Wet Weather Response	
4/14/19 8:15	Wet	0.42	5.08	1.04	Monitored	Wet Weather Response	
4/19/19 16:40	Wet	0.99	5.50	1.98	Monitored	Wet Weather Response	
4/20/19 0:20	Wet	0.23	2.42	0.40	Monitored	Wet Weather Response	
4/23/19 10:40	Wet	0.12	0.50	0.03	Monitored	Wet Weather Response	
4/25/19 21:00	Wet	0.17	0.83	0.06	Monitored	Wet Weather Response	
4/26/19 1:20	Wet	0.45	3.67	0.74	Monitored	Wet Weather Response	
4/28/19 1:45	Wet	0.31	3.42	0.46	Monitored	Wet Weather Response	

CSO 200					Receiving Water:		Lake Erie
Location:		N of E 40th St. & King Ave., N of Aviation High School, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Lakeside Yacht Club					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/29/19 18:40	Wet	0.46	2.75	1.33	Monitored	Wet Weather Response	
4/30/19 14:35	Wet	0.10	0.83	0.07	Monitored	Wet Weather Response	
5/1/19 19:10	Wet	0.31	3.17	0.50	Monitored	Wet Weather Response	
5/2/19 1:35	Wet	0.52	5.08	1.06	Monitored	Wet Weather Response	
5/3/19 2:10	Wet	0.31	0.92	0.34	Monitored	Wet Weather Response	
5/9/19 15:30	Wet	0.28	1.92	0.11	Monitored	Wet Weather Response	
5/12/19 2:40	Wet	0.50	4.50	0.38	Monitored	Wet Weather Response	
5/13/19 0:00	Wet	0.03	0.75	0.05	Monitored	Wet Weather Response	
5/18/19 9:30	Wet	0.07	0.08	0.01	Monitored	Wet Weather Response	
5/19/19 19:35	Wet	0.16	1.33	0.11	Monitored	Wet Weather Response	
5/23/19 8:55	Wet	0.08	0.58	0.04	Monitored	Wet Weather Response	
5/26/19 16:50	Wet	0.46	2.92	1.47	Monitored	Wet Weather Response	
5/28/19 1:55	Wet	1.27	5.25	3.45	Monitored	Wet Weather Response	
5/30/19 17:15	Wet	0.55	1.75	1.61	Monitored	Wet Weather Response	
6/2/19 1:35	Wet	0.43	2.50	0.91	Monitored	Wet Weather Response	
6/5/19 0:40	Wet	0.99	7.25	5.55	Monitored	Wet Weather Response	
6/10/19 12:20	Wet	0.81	4.25	2.05	Monitored	Wet Weather Response	
6/13/19 0:30	Wet	1.33	5.50	1.90	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.05	1.50	0.49	Monitored	Wet Weather Response	
6/15/19 18:00	Wet	0.22	1.83	0.10	Monitored	Wet Weather Response	
6/16/19 1:20	Wet	1.34	7.25	3.39	Monitored	Wet Weather Response	
6/20/19 5:10	Wet	1.40	8.58	2.28	Monitored	Wet Weather Response	
6/24/19 20:40	Wet	0.52	2.17	1.18	Monitored	Wet Weather Response	
6/28/19 19:35	Wet	0.10	1.50	1.05	Monitored	Wet Weather Response	

CSO 200					Receiving Water:		Lake Erie
Location:		N of E 40th St. & King Ave., N of Aviation High School, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Lakeside Yacht Club					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/2/19 23:00	Wet	0.27	1.00	0.84	Monitored	Wet Weather Response	
7/3/19 0:00	Wet	0.02	1.08	0.06	Monitored	Wet Weather Response	
7/4/19 12:40	Wet	0.39	2.17	0.17	Monitored	Wet Weather Response	
7/6/19 2:00	Wet	0.01	0.33	0.01	Monitored	Wet Weather Response	
7/15/19 21:45	Wet	0.32	1.08	0.41	Monitored	Wet Weather Response	
7/16/19 20:35	Wet	0.43	1.92	0.38	Monitored	Wet Weather Response	
7/17/19 3:05	Wet	0.83	3.83	0.47	Monitored	Wet Weather Response	
7/20/19 6:35	Wet	0.22	1.08	0.10	Monitored	Wet Weather Response	
7/21/19 21:35	Wet	0.04	0.83	0.05	Monitored	Wet Weather Response	
7/22/19 9:00	Wet	0.38	2.08	0.22	Monitored	Wet Weather Response	
7/30/19 9:50	Wet	0.36	2.00	1.49	Monitored	Wet Weather Response	
8/6/19 12:55	Wet	0.97	4.92	2.40	Monitored	Wet Weather Response	
8/15/19 15:15	Wet	0.32	0.83	0.11	Monitored	Wet Weather Response	
8/17/19 14:55	Wet	0.11	1.08	0.66	Monitored	Wet Weather Response	
8/18/19 6:20	Wet	0.47	3.00	1.78	Monitored	Wet Weather Response	
8/19/19 0:15	Wet	0.55	2.33	1.91	Monitored	Wet Weather Response	
8/22/19 2:40	Wet	0.38	4.08	0.49	Monitored	Wet Weather Response	
8/27/19 14:25	Wet	0.16	2.00	0.22	Monitored	Wet Weather Response	
9/1/19 17:55	Wet	0.20	1.33	0.11	Monitored	Wet Weather Response	
9/11/19 14:15	Wet	0.42	3.08	1.12	Monitored	Wet Weather Response	
9/12/19 0:30	Wet	0.24	1.67	0.86	Monitored	Wet Weather Response	
9/13/19 20:30	Wet	1.22	2.17	1.37	Monitored	Wet Weather Response	
9/16/19 1:20	Wet	0.05	0.58	0.02	Monitored	Wet Weather Response	
10/2/19 16:30	Wet	0.31	3.75	0.33	Monitored	Wet Weather Response	

CSO 200					Receiving Water:		Lake Erie
Location:		N of E 40th St. & King Ave., N of Aviation High School, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Lakeside Yacht Club					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/3/19 5:30	Wet	0.01	0.08	0.01	Monitored	Wet Weather Response	
10/12/19 3:45	Wet	0.30	3.00	0.32	Monitored	Wet Weather Response	
10/16/19 6:00	Wet	0.93	6.33	1.67	Monitored	Wet Weather Response	
10/26/19 16:25	Wet	0.61	5.92	0.77	Monitored	Wet Weather Response	
10/27/19 0:10	Wet	0.10	1.33	0.13	Monitored	Wet Weather Response	
10/30/19 17:25	Wet	0.33	2.83	0.27	Monitored	Wet Weather Response	
10/31/19 9:45	Wet	0.92	6.67	2.02	Monitored	Wet Weather Response	
11/1/19 0:00	Wet	0.55	5.92	0.78	Monitored	Wet Weather Response	
11/7/19 9:30	Wet	0.37	2.42	0.25	Monitored	Wet Weather Response	
11/11/19 13:35	Wet	0.65	6.83	0.71	Monitored	Wet Weather Response	
11/22/19 0:00	Wet	0.01	0.08	0.01	Monitored	Wet Weather Response	
11/27/19 2:20	Wet	0.15	1.83	0.08	Monitored	Wet Weather Response	
12/1/19 5:25	Wet	0.38	3.17	0.42	Monitored	Wet Weather Response	
12/2/19 10:15	Wet	0.21	0.92	0.06	Monitored	Wet Weather Response	
12/9/19 10:35	Wet	0.43	3.83	0.29	Monitored	Wet Weather Response	
12/14/19 6:40	Wet	0.58	5.25	0.66	Monitored	Wet Weather Response	
12/29/19 9:35	Wet	0.43	2.58	0.21	Monitored	Wet Weather Response	
12/30/19 0:00	Wet	0.09	1.08	0.06	Monitored	Wet Weather Response	
Totals		37.54	266.52	69.71			

CSO 201						Receiving Water:	Lake Erie
Location: Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Forest City Yacht Club							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:20	Wet	0.84	9.20	0.49	Modelled	Wet Weather Response	
1/23/19 7:00	Wet	1.30	4.40	0.68	Modelled	Wet Weather Response	
2/7/19 15:35	Wet	0.45	1.20	0.11	Modelled	Wet Weather Response	
2/12/19 5:55	Wet	0.99	11.60	0.44	Modelled	Wet Weather Response	
2/20/19 19:35	Wet	0.34	0.80	0.03	Modelled	Wet Weather Response	
3/9/19 21:45	Wet	0.63	0.70	0.02	Modelled	Wet Weather Response	
3/14/19 18:25	Wet	0.46	1.20	0.47	Modelled	Wet Weather Response	
3/30/19 15:50	Wet	1.28	8.20	0.59	Modelled	Wet Weather Response	
4/14/19 17:40	Wet	0.66	1.00	0.16	Modelled	Wet Weather Response	
4/19/19 15:30	Wet	1.37	3.90	0.93	Modelled	Wet Weather Response	
4/26/19 0:30	Wet	0.73	1.20	0.15	Modelled	Wet Weather Response	
4/29/19 17:45	Wet	0.50	1.90	0.44	Modelled	Wet Weather Response	
5/1/19 19:30	Wet	0.91	9.80	0.15	Modelled	Wet Weather Response	
5/3/19 1:40	Wet	0.30	0.90	0.14	Modelled	Wet Weather Response	
5/26/19 15:35	Wet	0.50	1.40	0.34	Modelled	Wet Weather Response	
5/28/19 18:25	Wet	0.69	2.10	0.98	Modelled	Wet Weather Response	
5/30/19 16:10	Wet	0.53	1.50	0.66	Modelled	Wet Weather Response	
6/2/19 0:30	Wet	0.50	2.00	0.38	Modelled	Wet Weather Response	
6/5/19 8:25	Wet	1.48	14.10	1.76	Modelled	Wet Weather Response	
6/10/19 12:00	Wet	0.90	2.80	1.18	Modelled	Wet Weather Response	
6/13/19 14:30	Wet	1.25	9.20	1.06	Modelled	Wet Weather Response	
6/16/19 0:25	Wet	1.55	15.20	1.36	Modelled	Wet Weather Response	
6/20/19 4:15	Wet	1.31	10.60	1.22	Modelled	Wet Weather Response	
6/24/19 19:35	Wet	0.52	2.00	0.56	Modelled	Wet Weather Response	

CSO 201					Receiving Water:		Lake Erie
Location:		Forest City Yacht Club at Marquette St. & N Marginal Dr., Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Forest City Yacht Club					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/28/19 18:35	Wet	0.36	1.10	0.36	Modelled	Wet Weather Response	
7/2/19 22:15	Wet	0.39	1.30	0.30	Modelled	Wet Weather Response	
7/16/19 19:45	Wet	0.87	8.60	0.72	Modelled	Wet Weather Response	
7/30/19 9:00	Wet	0.66	1.70	0.88	Modelled	Wet Weather Response	
8/6/19 13:00	Wet	1.02	6.50	0.89	Modelled	Wet Weather Response	
8/18/19 5:30	Wet	0.92	19.30	0.88	Modelled	Wet Weather Response	
8/22/19 2:00	Wet	0.58	4.20	0.10	Modelled	Wet Weather Response	
9/11/19 13:50	Wet	0.93	10.80	0.78	Modelled	Wet Weather Response	
9/13/19 19:25	Wet	0.73	2.20	1.13	Modelled	Wet Weather Response	
10/12/19 3:25	Wet	0.47	1.20	0.16	Modelled	Wet Weather Response	
10/16/19 6:20	Wet	1.00	12.10	0.49	Modelled	Wet Weather Response	
10/26/19 15:40	Wet	0.72	0.90	0.15	Modelled	Wet Weather Response	
10/31/19 9:15	Wet	1.62	5.40	0.58	Modelled	Wet Weather Response	
12/1/19 16:05	Wet	0.66	1.50	0.24	Modelled	Wet Weather Response	
Totals		30.92	193.70	21.96			

CSO 202					Receiving Water:		Lake Erie
Location:		E 55th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: E. 55th St. Marina					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:35	Wet	0.78	0.25	0.01	Monitored	Wet Weather Response	
1/23/19 10:40	Wet	1.12	0.50	0.01	Monitored	Wet Weather Response	
2/12/19 6:45	Wet	0.99	0.67	0.04	Monitored	Wet Weather Response	
2/20/19 19:15	Wet	0.34	0.08	0.01	Monitored	Wet Weather Response	
3/9/19 21:10	Wet	0.36	0.42	0.01	Monitored	Wet Weather Response	
3/14/19 18:45	Wet	0.46	1.00	0.04	Monitored	Wet Weather Response	
3/30/19 18:25	Wet	1.12	0.25	0.01	Monitored	Wet Weather Response	
4/12/19 10:55	Wet	0.21	0.25	0.01	Monitored	Wet Weather Response	
4/14/19 18:15	Wet	0.54	0.58	0.15	Monitored	Wet Weather Response	
4/19/19 17:35	Wet	1.12	0.92	0.05	Monitored	Wet Weather Response	
4/20/19 7:30	Wet	0.25	0.08	0.01	Monitored	Wet Weather Response	
4/29/19 19:25	Wet	0.50	0.58	0.01	Monitored	Wet Weather Response	
5/1/19 19:15	Wet	0.37	0.25	0.01	Monitored	Wet Weather Response	
5/2/19 4:45	Wet	0.54	0.17	0.01	Monitored	Wet Weather Response	
5/3/19 2:15	Wet	0.30	0.58	0.61	Monitored	Wet Weather Response	
5/18/19 8:55	Wet	0.07	0.33	0.01	Monitored	Wet Weather Response	
5/19/19 18:30	Wet	0.19	0.50	0.01	Monitored	Wet Weather Response	
5/23/19 8:30	Wet	0.08	0.25	0.01	Monitored	Wet Weather Response	
5/26/19 16:40	Wet	0.50	1.08	1.50	Monitored	Wet Weather Response	
5/28/19 19:20	Wet	0.91	1.25	4.66	Monitored	Wet Weather Response	
5/30/19 17:40	Wet	0.53	0.92	0.63	Monitored	Wet Weather Response	
6/2/19 2:05	Wet	0.40	0.17	0.01	Monitored	Wet Weather Response	
6/5/19 9:45	Wet	1.46	1.00	0.42	Monitored	Wet Weather Response	
6/10/19 12:55	Wet	0.90	2.25	1.36	Monitored	Wet Weather Response	

CSO 202					Receiving Water:		Lake Erie
Location:		E 55th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: E. 55th St. Marina					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/13/19 0:10	Wet	1.09	2.67	0.65	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.11	0.58	0.15	Monitored	Wet Weather Response	
6/15/19 14:55	Wet	0.32	0.50	0.01	Monitored	Wet Weather Response	
6/16/19 1:55	Wet	1.23	3.33	3.16	Monitored	Wet Weather Response	
6/20/19 5:00	Wet	1.31	2.00	0.73	Monitored	Wet Weather Response	
6/24/19 20:55	Wet	0.52	0.92	0.36	Monitored	Wet Weather Response	
6/28/19 19:35	Wet	0.36	1.00	1.53	Monitored	Wet Weather Response	
7/2/19 22:55	Wet	0.37	1.00	1.59	Monitored	Wet Weather Response	
7/15/19 22:10	Wet	0.12	0.17	0.02	Monitored	Wet Weather Response	
7/16/19 20:35	Wet	0.34	0.75	0.24	Monitored	Wet Weather Response	
7/17/19 4:15	Wet	0.53	0.17	0.01	Monitored	Wet Weather Response	
7/20/19 6:35	Wet	0.14	0.17	0.01	Monitored	Wet Weather Response	
7/30/19 10:25	Wet	0.66	0.58	0.16	Monitored	Wet Weather Response	
8/6/19 13:05	Wet	0.91	0.75	0.15	Monitored	Wet Weather Response	
8/18/19 6:20	Wet	0.51	1.42	2.99	Monitored	Wet Weather Response	
8/19/19 0:20	Wet	0.41	1.25	2.96	Monitored	Wet Weather Response	
8/22/19 2:20	Wet	0.58	0.83	0.08	Monitored	Wet Weather Response	
8/27/19 15:20	Wet	0.26	0.25	0.01	Monitored	Wet Weather Response	
9/11/19 14:25	Wet	0.53	1.67	1.16	Monitored	Wet Weather Response	
9/12/19 0:35	Wet	0.40	1.92	1.03	Monitored	Wet Weather Response	
9/13/19 20:30	Wet	0.73	1.67	2.13	Monitored	Wet Weather Response	
9/16/19 1:30	Wet	0.11	0.25	0.03	Monitored	Wet Weather Response	
10/2/19 18:15	Wet	0.36	1.00	0.13	Monitored	Wet Weather Response	
10/3/19 5:30	Wet	0.11	0.42	0.07	Monitored	Wet Weather Response	

CSO 202					Receiving Water:		Lake Erie
Location:		E 55th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: E. 55th St. Marina					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/12/19 4:50	Wet	0.44	0.42	0.05	Monitored	Wet Weather Response	
10/16/19 7:05	Wet	0.84	2.25	0.19	Monitored	Wet Weather Response	
10/26/19 15:10	Wet	0.63	0.92	0.07	Monitored	Wet Weather Response	
10/27/19 2:50	Wet	0.09	0.33	0.08	Monitored	Wet Weather Response	
10/30/19 17:40	Wet	0.33	0.42	0.08	Monitored	Wet Weather Response	
10/31/19 0:10	Wet	0.95	4.17	0.44	Monitored	Wet Weather Response	
11/1/19 5:25	Wet	0.34	0.25	0.01	Monitored	Wet Weather Response	
11/11/19 14:20	Wet	0.62	0.33	0.01	Monitored	Wet Weather Response	
12/1/19 16:25	Wet	0.50	0.08	0.01	Monitored	Wet Weather Response	
Totals		30.79	48.77	29.90			

CSO 203					Receiving Water:		Lake Erie
Location: E of E 55th St., N of Cleveland Lakefront State Park Marina, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: E. 55th St. Marina							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/14/19 18:55	Wet	0.46	0.60	0.06	Modelled	Wet Weather Response	
5/28/19 18:45	Wet	0.69	1.20	0.56	Modelled	Wet Weather Response	
5/30/19 16:40	Wet	0.53	0.80	0.22	Modelled	Wet Weather Response	
6/5/19 8:50	Wet	1.48	5.80	0.61	Modelled	Wet Weather Response	
6/10/19 12:55	Wet	0.90	1.70	0.50	Modelled	Wet Weather Response	
6/20/19 4:50	Wet	1.31	1.50	0.29	Modelled	Wet Weather Response	
7/30/19 9:30	Wet	0.66	1.20	0.53	Modelled	Wet Weather Response	
8/6/19 14:40	Wet	1.02	1.00	0.38	Modelled	Wet Weather Response	
8/19/19 0:05	Wet	0.92	0.30	0.02	Modelled	Wet Weather Response	
9/12/19 0:00	Wet	0.93	0.40	0.02	Modelled	Wet Weather Response	
9/13/19 19:40	Wet	0.73	1.50	0.76	Modelled	Wet Weather Response	
Totals		9.63	16.00	3.95			

CSO 204					Receiving Water:		Lake Erie
Location: Gordon Park W of E 72nd St. at Lake Erie, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: E. 72nd Fishing Area							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:13	Wet	0.84	12.00	1.48	Modelled	Wet Weather Response	
1/19/19 16:15	Wet	0.26	8.90	0.03	Modelled	Wet Weather Response	
1/23/19 5:15	Wet	1.30	24.40	2.06	Modelled	Wet Weather Response	
2/6/19 6:28	Wet	0.28	8.10	0.06	Modelled	Wet Weather Response	
2/7/19 14:16	Wet	0.45	5.60	0.49	Modelled	Wet Weather Response	
2/10/19 18:25	Wet	0.16	3.80	0.02	Modelled	Wet Weather Response	
2/12/19 4:23	Wet	0.99	16.60	1.38	Modelled	Wet Weather Response	
2/20/19 18:10	Wet	0.34	3.50	0.22	Modelled	Wet Weather Response	
3/9/19 19:16	Wet	0.63	11.60	0.26	Modelled	Wet Weather Response	
3/14/19 17:20	Wet	0.46	3.50	1.40	Modelled	Wet Weather Response	
3/20/19 22:39	Wet	0.22	7.90	0.03	Modelled	Wet Weather Response	
3/29/19 4:15	Wet	0.29	7.00	0.07	Modelled	Wet Weather Response	
3/30/19 9:35	Wet	1.28	16.40	1.78	Modelled	Wet Weather Response	
4/12/19 9:15	Wet	0.21	3.60	0.06	Modelled	Wet Weather Response	
4/14/19 6:28	Wet	0.66	24.00	0.46	Modelled	Wet Weather Response	
4/19/19 9:11	Wet	1.37	25.20	2.71	Modelled	Wet Weather Response	
4/25/19 19:06	Wet	0.73	23.90	0.48	Modelled	Wet Weather Response	
4/27/19 20:29	Wet	0.41	11.00	0.12	Modelled	Wet Weather Response	
4/29/19 17:10	Wet	0.50	4.00	1.30	Modelled	Wet Weather Response	
5/1/19 18:15	Wet	0.91	12.70	0.77	Modelled	Wet Weather Response	
5/3/19 1:05	Wet	0.30	7.00	0.33	Modelled	Wet Weather Response	
5/9/19 13:46	Wet	0.30	8.70	0.06	Modelled	Wet Weather Response	
5/12/19 1:07	Wet	0.30	4.30	0.09	Modelled	Wet Weather Response	
5/12/19 18:08	Wet	0.28	6.20	0.06	Modelled	Wet Weather Response	

CSO 204					Receiving Water: Lake Erie		
Location: Gordon Park W of E 72nd St. at Lake Erie, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: E. 72nd Fishing Area							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/19/19 17:25	Wet	0.19	3.20	0.05	Modelled	Wet Weather Response	
5/26/19 8:28	Wet	0.50	10.70	1.09	Modelled	Wet Weather Response	
5/28/19 0:15	Wet	0.69	22.60	2.27	Modelled	Wet Weather Response	
5/30/19 15:11	Wet	0.53	3.50	1.88	Modelled	Wet Weather Response	
6/1/19 20:36	Wet	0.50	7.10	1.00	Modelled	Wet Weather Response	
6/4/19 23:15	Wet	1.48	24.90	4.33	Modelled	Wet Weather Response	
6/10/19 10:27	Wet	0.90	8.30	3.34	Modelled	Wet Weather Response	
6/12/19 22:43	Wet	1.25	27.30	2.92	Modelled	Wet Weather Response	
6/15/19 13:29	Wet	1.55	27.10	3.49	Modelled	Wet Weather Response	
6/20/19 1:45	Wet	1.31	21.30	3.32	Modelled	Wet Weather Response	
6/24/19 17:10	Wet	0.52	5.40	1.50	Modelled	Wet Weather Response	
6/28/19 18:10	Wet	0.36	2.70	1.14	Modelled	Wet Weather Response	
7/2/19 21:13	Wet	0.39	4.00	0.89	Modelled	Wet Weather Response	
7/15/19 20:15	Wet	0.12	1.90	0.02	Modelled	Wet Weather Response	
7/16/19 19:10	Wet	0.87	18.00	2.03	Modelled	Wet Weather Response	
7/20/19 5:15	Wet	0.14	2.00	0.03	Modelled	Wet Weather Response	
7/21/19 20:20	Wet	0.34	14.50	0.09	Modelled	Wet Weather Response	
7/30/19 8:10	Wet	0.66	3.60	2.25	Modelled	Wet Weather Response	
8/6/19 11:20	Wet	1.02	19.70	2.26	Modelled	Wet Weather Response	
8/17/19 11:50	Wet	0.20	3.60	0.07	Modelled	Wet Weather Response	
8/18/19 5:10	Wet	0.92	21.50	2.35	Modelled	Wet Weather Response	
8/22/19 1:11	Wet	0.58	6.90	0.48	Modelled	Wet Weather Response	
8/27/19 13:38	Wet	0.26	4.00	0.08	Modelled	Wet Weather Response	
9/1/19 6:34	Wet	0.22	12.40	0.03	Modelled	Wet Weather Response	

CSO 204					Receiving Water:		Lake Erie
Location: Gordon Park W of E 72nd St. at Lake Erie, Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: E. 72nd Fishing Area							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/11/19 13:10	Wet	0.93	18.10	2.06	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	0.73	3.60	2.72	Modelled	Wet Weather Response	
9/16/19 0:18	Wet	0.11	1.60	0.01	Modelled	Wet Weather Response	
10/2/19 15:07	Wet	0.47	15.00	0.14	Modelled	Wet Weather Response	
10/12/19 0:27	Wet	0.47	6.60	0.50	Modelled	Wet Weather Response	
10/16/19 5:01	Wet	1.00	22.70	1.52	Modelled	Wet Weather Response	
10/26/19 14:48	Wet	0.72	12.30	0.62	Modelled	Wet Weather Response	
10/30/19 14:28	Wet	1.62	39.60	1.96	Modelled	Wet Weather Response	
11/7/19 8:38	Wet	0.23	6.00	0.05	Modelled	Wet Weather Response	
11/11/19 13:10	Wet	0.66	11.20	0.29	Modelled	Wet Weather Response	
11/27/19 2:15	Wet	0.18	8.20	0.03	Modelled	Wet Weather Response	
12/1/19 5:49	Wet	0.66	12.90	0.66	Modelled	Wet Weather Response	
12/2/19 9:16	Wet	0.66	3.10	0.03	Modelled	Wet Weather Response	
12/9/19 9:20	Wet	0.44	13.20	0.12	Modelled	Wet Weather Response	
12/14/19 6:10	Wet	0.52	8.50	0.19	Modelled	Wet Weather Response	
12/29/19 8:41	Wet	0.56	22.60	0.10	Modelled	Wet Weather Response	
Totals		38.93	741.30	63.63			

CSO 205				Receiving Water:		Lake Erie	
Location:		NW of E 88th St. & Carr Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:				Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve			
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:40	Wet	0.84	10.10	0.49	Modelled	Wet Weather Response	
1/23/19 6:15	Wet	1.30	5.20	0.54	Modelled	Wet Weather Response	
2/7/19 15:00	Wet	0.45	2.60	0.18	Modelled	Wet Weather Response	
2/12/19 5:15	Wet	0.99	14.20	0.47	Modelled	Wet Weather Response	
2/20/19 18:40	Wet	0.34	1.80	0.12	Modelled	Wet Weather Response	
3/9/19 20:00	Wet	0.63	2.80	0.08	Modelled	Wet Weather Response	
3/14/19 18:05	Wet	0.46	1.60	0.46	Modelled	Wet Weather Response	
3/30/19 15:25	Wet	1.28	9.00	0.58	Modelled	Wet Weather Response	
4/12/19 9:45	Wet	0.03	0.80	0.04	Modelled	Wet Weather Response	
4/14/19 17:30	Wet	0.66	1.20	0.15	Modelled	Wet Weather Response	
4/19/19 15:10	Wet	1.37	16.20	0.68	Modelled	Wet Weather Response	
4/25/19 19:55	Wet	0.73	5.70	0.15	Modelled	Wet Weather Response	
4/28/19 1:20	Wet	0.41	1.20	0.03	Modelled	Wet Weather Response	
4/29/19 17:25	Wet	0.50	2.30	0.38	Modelled	Wet Weather Response	
5/1/19 18:40	Wet	0.91	10.80	0.33	Modelled	Wet Weather Response	
5/3/19 1:25	Wet	0.30	1.20	0.16	Modelled	Wet Weather Response	
5/9/19 14:45	Wet	0.30	0.70	0.01	Modelled	Wet Weather Response	
5/12/19 1:40	Wet	0.30	1.70	0.04	Modelled	Wet Weather Response	
5/19/19 18:25	Wet	0.19	1.00	0.04	Modelled	Wet Weather Response	
5/26/19 15:20	Wet	0.50	2.10	0.32	Modelled	Wet Weather Response	
5/28/19 18:15	Wet	0.69	2.20	0.90	Modelled	Wet Weather Response	
5/30/19 15:40	Wet	0.53	2.00	0.61	Modelled	Wet Weather Response	
6/2/19 0:15	Wet	0.50	2.20	0.30	Modelled	Wet Weather Response	

CSO 205				Receiving Water:		Lake Erie	
Location:		NW of E 88th St. & Carr Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/4/19 23:50	Wet	1.48	22.70	1.59	Modelled	Wet Weather Response	
6/10/19 11:25	Wet	0.90	3.30	0.95	Modelled	Wet Weather Response	
6/12/19 23:30	Wet	1.25	1.20	0.08	Modelled	Wet Weather Response	
6/13/19 14:25	Wet	1.25	9.30	0.77	Modelled	Wet Weather Response	
6/15/19 16:55	Wet	1.55	22.70	0.96	Modelled	Wet Weather Response	
6/20/19 3:40	Wet	1.31	14.60	0.95	Modelled	Wet Weather Response	
6/24/19 19:20	Wet	0.52	2.20	0.41	Modelled	Wet Weather Response	
6/28/19 18:20	Wet	0.36	1.30	0.40	Modelled	Wet Weather Response	
7/2/19 21:40	Wet	0.39	1.90	0.29	Modelled	Wet Weather Response	
7/15/19 20:55	Wet	0.03	0.50	0.01	Modelled	Wet Weather Response	
7/16/19 19:29	Wet	0.87	8.90	0.62	Modelled	Wet Weather Response	
7/20/19 5:45	Wet	0.14	0.70	0.03	Modelled	Wet Weather Response	
7/22/19 8:25	Wet	0.34	1.00	0.04	Modelled	Wet Weather Response	
7/30/19 8:30	Wet	0.66	2.20	0.84	Modelled	Wet Weather Response	
8/6/19 12:10	Wet	1.02	7.40	0.87	Modelled	Wet Weather Response	
8/17/19 13:30	Wet	0.20	1.00	0.08	Modelled	Wet Weather Response	
8/18/19 5:20	Wet	0.92	19.50	0.81	Modelled	Wet Weather Response	
8/22/19 1:35	Wet	0.58	4.80	0.24	Modelled	Wet Weather Response	
8/27/19 14:30	Wet	0.26	1.10	0.07	Modelled	Wet Weather Response	
9/11/19 13:30	Wet	0.93	11.20	0.73	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	0.73	2.30	1.09	Modelled	Wet Weather Response	
10/2/19 15:55	Wet	0.47	3.30	0.05	Modelled	Wet Weather Response	
10/12/19 2:50	Wet	0.47	1.80	0.15	Modelled	Wet Weather Response	

CSO 205					Receiving Water:		Lake Erie
Location:		NW of E 88th St. & Carr Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Gordon Park Port of Cleveland: Cleveland Lakefront Nature Preserve					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/16/19 5:40	Wet	1.00	12.90	0.48	Modelled	Wet Weather Response	
10/26/19 15:20	Wet	0.72	1.30	0.18	Modelled	Wet Weather Response	
10/30/19 16:35	Wet	1.62	0.80	0.01	Modelled	Wet Weather Response	
10/31/19 8:40	Wet	1.62	16.70	0.59	Modelled	Wet Weather Response	
11/11/19 13:45	Wet	0.66	6.60	0.11	Modelled	Wet Weather Response	
12/1/19 15:40	Wet	0.66	1.90	0.21	Modelled	Wet Weather Response	
12/14/19 7:10	Wet	0.52	3.20	0.08	Modelled	Wet Weather Response	
12/29/19 22:40	Wet	0.56	0.80	0.01	Modelled	Wet Weather Response	
Totals		38.20	287.70	20.76			

CSO 206					Receiving Water:		Lake Erie
Location:		N end of E 156th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/9/19 19:55	Wet	0.31	4.08	0.54	Monitored	Wet Weather Response	
3/10/19 0:00	Wet	0.20	1.58	0.11	Monitored	Wet Weather Response	
3/14/19 18:50	Wet	0.45	4.92	1.18	Monitored	Wet Weather Response	
3/15/19 0:00	Wet	0.02	4.00	0.01	Monitored	Wet Weather Response	

CSO 206				Receiving Water:		Lake Erie	
Location:		N end of E 156th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/25/19 4:30	Dry	0.02	226.09	1.06	Monitored	Water main break	Non-continuous overflow duration. Overflow volume calculated using level monitoring equipment at the site.
3/29/19 0:00	Wet	0.29	24.00	0.30	Monitored	Wet Weather Response	
3/30/19 0:00	Wet	1.01	24.00	1.65	Monitored	Wet Weather Response	
3/31/19 0:00	Wet	0.12	19.58	0.83	Monitored	Wet Weather Response	
4/7/19 17:55	Wet	0.11	6.08	0.05	Monitored	Wet Weather Response	
4/8/19 0:00	Wet	0.02	16.83	0.05	Monitored	Wet Weather Response	
4/14/19 18:25	Wet	0.61	1.67	0.47	Monitored	Wet Weather Response	
4/15/19 5:10	Wet	0.07	0.58	0.01	Monitored	Wet Weather Response	
4/19/19 16:25	Wet	1.04	7.25	2.22	Monitored	Wet Weather Response	
4/20/19 0:05	Wet	0.29	10.92	0.52	Monitored	Wet Weather Response	
4/23/19 10:05	Wet	0.01	7.42	0.26	Monitored	Wet Weather Response	
4/26/19 2:00	Wet	0.47	14.17	0.43	Monitored	Wet Weather Response	
4/27/19 0:20	Wet	0.08	11.58	0.23	Monitored	Wet Weather Response	
4/28/19 1:00	Wet	0.32	7.08	0.34	Monitored	Wet Weather Response	
4/29/19 18:30	Wet	0.46	4.25	0.79	Monitored	Wet Weather Response	
4/30/19 0:10	Wet	0.07	1.83	0.03	Monitored	Wet Weather Response	
5/1/19 1:15	Wet	0.42	4.83	0.47	Monitored	Wet Weather Response	
5/2/19 0:00	Wet	0.48	20.75	1.75	Monitored	Wet Weather Response	
5/3/19 2:25	Wet	0.45	19.25	0.94	Monitored	Wet Weather Response	
5/4/19 0:10	Wet	0.02	5.25	0.02	Monitored	Wet Weather Response	

CSO 206				Receiving Water: Lake Erie			
Location:		N end of E 156th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/12/19 4:35	Wet	0.55	1.00	0.04	Monitored	Wet Weather Response	
5/18/19 8:55	Wet	0.28	1.17	0.11	Monitored	Wet Weather Response	
5/19/19 20:10	Wet	0.20	0.08	0.01	Monitored	Wet Weather Response	
5/26/19 17:25	Wet	0.29	0.33	0.06	Monitored	Wet Weather Response	
5/28/19	Wet	0.78	See Comment	See Comment	Monitored	Wet Weather Response	Monitor out of service. Overflow duration and volume cannot be calculated.
5/30/19 17:35	Wet	0.56	1.92	0.85	Monitored	Wet Weather Response	
6/2/19 2:05	Wet	0.37	1.42	0.14	Monitored	Wet Weather Response	
6/5/19 9:55	Wet	1.43	3.50	1.13	Monitored	Wet Weather Response	
6/10/19 13:20	Wet	1.14	3.08	1.34	Monitored	Wet Weather Response	
6/13/19 15:35	Wet	0.82	1.50	0.27	Monitored	Wet Weather Response	
6/14/19 0:20	Wet	0.01	0.67	0.06	Monitored	Wet Weather Response	
6/15/19 18:55	Wet	0.59	0.58	0.10	Monitored	Wet Weather Response	
6/16/19 2:25	Wet	0.84	2.67	0.50	Monitored	Wet Weather Response	
6/20/19 5:25	Wet	0.81	2.67	0.72	Monitored	Wet Weather Response	
6/24/19 21:05	Wet	0.48	1.33	0.23	Monitored	Wet Weather Response	
6/29/19 1:35	Wet	0.23	0.25	0.05	Monitored	Wet Weather Response	
7/2/19 23:05	Wet	0.33	0.25	0.05	Monitored	Wet Weather Response	
7/16/19 21:05	Wet	0.33	0.50	0.09	Monitored	Wet Weather Response	
7/20/19 6:30	Wet	0.91	4.67	1.47	Monitored	Wet Weather Response	
7/21/19 5:40	Wet	0.56	0.92	0.18	Monitored	Wet Weather Response	
8/6/19 12:40	Wet	0.62	8.92	0.38	Monitored	Wet Weather Response	
8/7/19 0:00	Wet	0.07	9.00	0.25	Monitored	Wet Weather Response	

CSO 206				Receiving Water:		Lake Erie	
Location:		N end of E 156th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/13/19 12:30	Wet	0.07	2.58	0.02	Monitored	Wet Weather Response	
8/16/19 12:10	Wet	0.19	1.83	0.02	Monitored	Wet Weather Response	
8/18/19 3:35	Wet	0.56	6.25	0.49	Monitored	Wet Weather Response	
8/19/19 0:40	Wet	0.40	3.83	0.41	Monitored	Wet Weather Response	
8/22/19 2:45	Wet	0.47	11.92	0.34	Monitored	Wet Weather Response	
8/27/19 15:25	Wet	0.19	3.83	0.09	Monitored	Wet Weather Response	
8/28/19 1:20	Wet	0.00	0.58	0.01	Monitored	Wet Weather Response	
9/1/19 18:25	Wet	0.08	0.58	0.01	Monitored	Wet Weather Response	
9/11/19 22:15	Wet	0.03	0.50	0.01	Monitored	Wet Weather Response	
9/12/19 0:35	Wet	0.43	10.92	0.71	Monitored	Wet Weather Response	
9/13/19 2:35	Wet	0.53	2.00	0.45	Monitored	Wet Weather Response	
9/14/19 0:00	Wet	0.00	4.08	0.05	Monitored	Wet Weather Response	
9/16/19 1:10	Wet	0.05	3.00	0.08	Monitored	Wet Weather Response	
10/2/19 18:25	Wet	0.43	2.25	0.32	Monitored	Wet Weather Response	
10/3/19 6:00	Wet	0.05	1.75	0.18	Monitored	Wet Weather Response	
10/12/19 4:00	Wet	0.46	6.08	0.56	Monitored	Wet Weather Response	
10/16/19 7:40	Wet	0.55	12.17	1.04	Monitored	Wet Weather Response	
10/17/19 0:00	Wet	0.09	7.50	0.41	Monitored	Wet Weather Response	
10/22/19 0:45	Wet	0.09	0.33	0.01	Monitored	Wet Weather Response	
10/26/19 16:25	Wet	0.61	6.83	0.40	Monitored	Wet Weather Response	
10/27/19 0:00	Wet	0.07	18.33	1.04	Monitored	Wet Weather Response	
10/30/19 15:30	Wet	0.35	8.00	0.67	Monitored	Wet Weather Response	

CSO 206				Receiving Water:		Lake Erie	
Location:		N end of E 156th St. at Lake Erie, Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Lakefront Reservation, Villa Angela Beach, and Euclid Beach Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/31/19 0:00	Wet	0.96	22.67	2.56	Monitored	Wet Weather Response	
11/1/19 0:00	Wet	0.06	23.75	2.49	Monitored	Wet Weather Response	
11/2/19 0:00	Wet	0.02	21.83	1.42	Monitored	Wet Weather Response	
11/3/19 0:00	Wet	0.01	23.92	1.93	Monitored	Wet Weather Response	
11/4/19 0:00	Wet	0.00	23.83	1.36	Monitored	Wet Weather Response	
11/5/19 0:00	Wet	0.02	23.25	1.59	Monitored	Wet Weather Response	
11/6/19 0:00	Wet	0.00	23.92	1.67	Monitored	Wet Weather Response	
11/7/19 0:00	Wet	0.13	24.00	2.09	Monitored	Wet Weather Response	
11/8/19 0:00	Wet	0.00	24.00	1.89	Monitored	Wet Weather Response	
11/9/19 0:00	Wet	0.00	24.00	1.64	Monitored	Wet Weather Response	
11/10/19 0:00	Wet	0.00	24.00	1.82	Monitored	Wet Weather Response	
11/11/19 0:00	Wet	0.56	23.33	2.23	Monitored	Wet Weather Response	
11/12/19 0:00	Wet	0.02	20.50	1.91	Monitored	Wet Weather Response	
11/13/19 0:00	Wet	0.00	23.17	1.75	Monitored	Wet Weather Response	
11/14/19 0:00	Wet	0.01	23.17	1.77	Monitored	Wet Weather Response	
11/15/19 0:00	Wet	0.00	10.83	0.84	Monitored	Wet Weather Response	
Totals		27.03	969.73	58.57			

CSO 207						Receiving Water:	Lake Erie
Location: NW of E 156th St. & Lakeshore Blvd. (Green Creek), Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 208						Receiving Water:	Lake Erie
Location: N of Neff Rd. & East Park Dr. intersection, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: East Shore Park Club							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 209						Receiving Water:	Euclid Creek
Location: W side of Euclid Creek at Lakeshore Blvd., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach, and Euclid Beach)							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:45	Wet	0.80	9.80	0.48	Modelled	Wet Weather Response	
1/23/19 7:25	Wet	1.29	5.20	0.94	Modelled	Wet Weather Response	
2/7/19 15:55	Wet	0.46	2.70	0.18	Modelled	Wet Weather Response	
2/12/19 5:50	Wet	0.97	14.20	0.52	Modelled	Wet Weather Response	
2/20/19 19:06	Wet	0.34	1.20	0.03	Modelled	Wet Weather Response	
3/9/19 21:25	Wet	0.80	7.40	0.41	Modelled	Wet Weather Response	
3/14/19 18:45	Wet	0.34	1.30	0.16	Modelled	Wet Weather Response	
3/29/19 5:50	Wet	0.39	1.10	0.02	Modelled	Wet Weather Response	

CSO 209				Receiving Water: Euclid Creek			
Location:		W side of Euclid Creek at Lakeshore Blvd., Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach, and Euclid Beach)					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/30/19 16:10	Wet	1.40	9.70	1.31	Modelled	Wet Weather Response	
4/14/19 17:55	Wet	0.70	1.20	0.08	Modelled	Wet Weather Response	
4/19/19 11:05	Wet	1.62	20.50	1.36	Modelled	Wet Weather Response	
4/25/19 19:30	Wet	0.99	6.80	0.66	Modelled	Wet Weather Response	
4/28/19 1:10	Wet	0.51	2.60	0.22	Modelled	Wet Weather Response	
4/29/19 18:10	Wet	0.42	2.40	0.23	Modelled	Wet Weather Response	
5/1/19 19:00	Wet	0.80	8.60	0.32	Modelled	Wet Weather Response	
5/12/19 2:20	Wet	0.39	2.00	0.20	Modelled	Wet Weather Response	
5/18/19 20:50	Wet	0.35	1.90	0.24	Modelled	Wet Weather Response	
5/26/19 17:30	Wet	0.38	1.30	0.11	Modelled	Wet Weather Response	
5/28/19 14:20	Wet	1.76	6.60	2.40	Modelled	Wet Weather Response	
5/30/19 15:15	Wet	0.54	3.10	0.36	Modelled	Wet Weather Response	
6/2/19 0:20	Wet	0.66	3.20	0.60	Modelled	Wet Weather Response	
6/5/19 8:25	Wet	1.43	9.60	1.56	Modelled	Wet Weather Response	
6/10/19 11:30	Wet	0.78	3.50	0.68	Modelled	Wet Weather Response	
6/12/19 23:55	Wet	1.77	25.30	1.87	Modelled	Wet Weather Response	
6/15/19 23:45	Wet	1.05	16.20	0.60	Modelled	Wet Weather Response	
6/20/19 3:15	Wet	2.81	18.40	3.87	Modelled	Wet Weather Response	
6/24/19 16:15	Wet	2.26	6.20	4.07	Modelled	Wet Weather Response	
7/4/19 14:20	Wet	0.42	1.90	0.35	Modelled	Wet Weather Response	
7/5/19 13:35	Wet	0.51	2.60	0.52	Modelled	Wet Weather Response	
7/11/19 13:20	Wet	1.06	2.70	1.46	Modelled	Wet Weather Response	

CSO 209				Receiving Water: Euclid Creek			
Location:		W side of Euclid Creek at Lakeshore Blvd., Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach, and Euclid Beach)					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/16/19 19:45	Wet	1.92	17.40	2.32	Modelled	Wet Weather Response	
7/22/19 7:35	Wet	1.03	3.40	1.09	Modelled	Wet Weather Response	
7/30/19 0:50	Wet	0.30	1.40	0.14	Modelled	Wet Weather Response	
8/6/19 13:20	Wet	1.99	8.60	2.84	Modelled	Wet Weather Response	
8/15/19 14:35	Wet	0.48	1.90	0.46	Modelled	Wet Weather Response	
8/17/19 13:40	Wet	0.75	3.40	0.92	Modelled	Wet Weather Response	
8/18/19 5:40	Wet	0.32	1.60	0.25	Modelled	Wet Weather Response	
8/19/19 0:05	Wet	0.32	2.10	0.12	Modelled	Wet Weather Response	
8/22/19 6:35	Wet	0.44	1.50	0.22	Modelled	Wet Weather Response	
9/13/19 19:45	Wet	1.26	4.00	1.76	Modelled	Wet Weather Response	
10/16/19 6:15	Wet	0.84	16.50	0.43	Modelled	Wet Weather Response	
10/26/19 16:00	Wet	0.67	0.90	0.03	Modelled	Wet Weather Response	
10/31/19 9:15	Wet	1.30	6.40	1.21	Modelled	Wet Weather Response	
11/11/19 15:30	Wet	0.75	1.60	0.06	Modelled	Wet Weather Response	
12/1/19 6:10	Wet	0.83	10.70	0.17	Modelled	Wet Weather Response	
12/14/19 8:25	Wet	0.59	2.30	0.14	Modelled	Wet Weather Response	
12/29/19 22:45	Wet	0.78	1.20	0.04	Modelled	Wet Weather Response	
Totals		42.57	284.10	38.01			

CSO 210					Receiving Water:		Lake Erie
Location: Under St. Clair Ave. bridge, E of Nottingham Rd. & St. Clair Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/9/19 22:00	Wet	0.80	8.20	0.58	Modelled	Wet Weather Response	
3/14/19 18:25	Wet	0.34	2.80	0.27	Modelled	Wet Weather Response	
3/29/19 4:56	Wet	0.39	3.40	0.13	Modelled	Wet Weather Response	
3/30/19 10:36	Wet	1.40	16.20	1.98	Modelled	Wet Weather Response	
4/12/19 10:40	Wet	0.18	1.10	0.01	Modelled	Wet Weather Response	
4/14/19 7:20	Wet	0.70	12.90	0.27	Modelled	Wet Weather Response	
4/19/19 10:20	Wet	1.62	22.90	2.40	Modelled	Wet Weather Response	
4/25/19 19:15	Wet	0.99	8.20	1.15	Modelled	Wet Weather Response	
4/28/19 0:21	Wet	0.51	4.60	0.37	Modelled	Wet Weather Response	
4/29/19 17:20	Wet	0.42	3.90	0.38	Modelled	Wet Weather Response	
5/1/19 18:35	Wet	0.80	11.00	0.72	Modelled	Wet Weather Response	
5/9/19 15:05	Wet	0.49	12.20	0.05	Modelled	Wet Weather Response	
5/12/19 1:43	Wet	0.39	3.20	0.31	Modelled	Wet Weather Response	
5/12/19 18:35	Wet	0.35	5.30	0.10	Modelled	Wet Weather Response	
5/18/19 20:30	Wet	0.35	2.70	0.35	Modelled	Wet Weather Response	
5/26/19 16:51	Wet	0.38	2.60	0.18	Modelled	Wet Weather Response	
5/28/19 0:00	Wet	0.22	1.90	0.05	Modelled	Wet Weather Response	
5/28/19 14:08	Wet	1.76	12.40	4.88	Modelled	Wet Weather Response	
5/30/19 14:36	Wet	0.54	4.50	0.70	Modelled	Wet Weather Response	
6/1/19 23:26	Wet	0.66	4.60	0.89	Modelled	Wet Weather Response	
6/5/19 8:15	Wet	1.43	14.40	3.02	Modelled	Wet Weather Response	
6/10/19 11:10	Wet	0.78	7.80	1.20	Modelled	Wet Weather Response	
6/12/19 23:25	Wet	1.77	26.60	3.68	Modelled	Wet Weather Response	

CSO 210					Receiving Water:		Lake Erie
Location: Under St. Clair Ave. bridge, E of Nottingham Rd. & St. Clair Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/15/19 17:41	Wet	1.05	23.00	1.09	Modelled	Wet Weather Response	
6/20/19 3:07	Wet	2.81	21.50	8.08	Modelled	Wet Weather Response	
6/24/19 16:10	Wet	2.26	7.20	8.60	Modelled	Wet Weather Response	
7/4/19 14:40	Wet	0.42	2.10	0.44	Modelled	Wet Weather Response	
7/5/19 13:20	Wet	0.51	3.50	0.87	Modelled	Wet Weather Response	
7/6/19 23:45	Wet	0.19	1.50	0.04	Modelled	Wet Weather Response	
7/11/19 13:10	Wet	1.06	3.40	3.16	Modelled	Wet Weather Response	
7/16/19 19:25	Wet	1.92	18.50	4.52	Modelled	Wet Weather Response	
7/21/19 4:45	Wet	0.17	1.10	0.03	Modelled	Wet Weather Response	
7/21/19 21:01	Wet	1.03	14.60	2.04	Modelled	Wet Weather Response	
7/30/19 0:30	Wet	0.30	2.20	0.23	Modelled	Wet Weather Response	
8/6/19 13:10	Wet	1.99	9.60	5.86	Modelled	Wet Weather Response	
8/15/19 14:20	Wet	0.48	2.80	0.83	Modelled	Wet Weather Response	
8/17/19 13:25	Wet	1.07	18.60	2.06	Modelled	Wet Weather Response	
8/18/19 23:40	Wet	0.32	3.20	0.26	Modelled	Wet Weather Response	
8/22/19 2:22	Wet	0.44	6.30	0.35	Modelled	Wet Weather Response	
8/27/19 14:55	Wet	0.16	1.00	0.01	Modelled	Wet Weather Response	
9/13/19 19:26	Wet	1.26	5.50	3.76	Modelled	Wet Weather Response	
9/28/19 14:50	Wet	0.15	0.80	0.01	Modelled	Wet Weather Response	
10/16/19 5:45	Wet	0.84	17.60	0.76	Modelled	Wet Weather Response	
10/26/19 15:24	Wet	0.67	11.60	0.23	Modelled	Wet Weather Response	
10/30/19 21:16	Wet	1.30	19.10	1.73	Modelled	Wet Weather Response	
11/11/19 14:35	Wet	0.75	6.60	0.27	Modelled	Wet Weather Response	
Totals		38.42	394.70	68.90			

CSO 211					Receiving Water: Nine Mile Creek		
Location:		Nine-Mile Creek, E of Coit Rd., between RR tracks, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/23/19 10:55	Wet	1.06	0.25	0.03	Monitored	Wet Weather Response	
5/11/19 0:15	Dry	0.01	25.17	0.17	Monitored	Water main break	Overflow volume calculated using level monitoring equipment at the site.
6/24/19 22:10	Wet	0.48	0.42	0.02	Monitored	Wet Weather Response	
6/28/19 20:00	Wet	0.19	0.42	0.69	Monitored	Wet Weather Response	
7/5/19 14:00	Wet	0.19	0.08	0.01	Monitored	Wet Weather Response	
7/20/19 6:45	Wet	0.91	0.67	0.60	Monitored	Wet Weather Response	
8/18/19 16:25	Wet	0.56	0.17	0.01	Monitored	Wet Weather Response	
9/11/19 18:05	Wet	0.03	0.08	0.01	Monitored	Wet Weather Response	
9/12/19 0:40	Wet	0.43	0.42	0.10	Monitored	Wet Weather Response	
9/13/19 20:50	Wet	0.53	1.92	0.70	Monitored	Wet Weather Response	
10/9/19 3:10	Dry	0.00	4.08	0.03	Monitored	Grit/leaves	Overflow volume calculated using level monitoring equipment at the site.
Totals		4.39	33.68	2.37			

CSO 212						Receiving Water: Nine Mile Creek	
Location: Belvoir Blvd. opposite Quilliams Ave. , E side of Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:32	Wet	0.76	7.90	0.01	Modelled	Wet Weather Response	
1/23/19 8:12	Wet	1.48	2.80	0.02	Modelled	Wet Weather Response	
2/12/19 6:17	Wet	1.12	12.90	0.02	Modelled	Wet Weather Response	
3/14/19 18:20	Wet	0.48	1.10	0.02	Modelled	Wet Weather Response	
3/30/19 19:19	Wet	1.44	6.30	0.02	Modelled	Wet Weather Response	
4/14/19 17:15	Wet	1.00	1.30	0.05	Modelled	Wet Weather Response	
4/19/19 16:13	Wet	1.29	2.50	0.02	Modelled	Wet Weather Response	
4/26/19 0:17	Wet	1.02	1.10	0.01	Modelled	Wet Weather Response	
4/29/19 17:50	Wet	0.52	1.60	0.01	Modelled	Wet Weather Response	
5/1/19 19:43	Wet	0.99	9.80	0.01	Modelled	Wet Weather Response	
5/3/19 1:21	Wet	0.47	1.30	0.03	Modelled	Wet Weather Response	
5/30/19 16:15	Wet	0.54	1.20	0.04	Modelled	Wet Weather Response	
6/5/19 8:15	Wet	1.53	14.30	0.14	Modelled	Wet Weather Response	
6/10/19 12:10	Wet	1.13	3.10	0.09	Modelled	Wet Weather Response	
6/13/19 14:25	Wet	1.23	9.20	0.05	Modelled	Wet Weather Response	
6/16/19 0:31	Wet	1.75	17.60	0.22	Modelled	Wet Weather Response	
6/20/19 4:10	Wet	1.51	17.20	0.07	Modelled	Wet Weather Response	
6/24/19 17:20	Wet	0.86	4.00	0.05	Modelled	Wet Weather Response	
6/28/19 18:15	Wet	0.79	1.90	0.08	Modelled	Wet Weather Response	
7/5/19 12:18	Wet	0.57	1.20	0.05	Modelled	Wet Weather Response	
7/20/19 19:20	Wet	0.37	1.10	0.02	Modelled	Wet Weather Response	
7/30/19 9:10	Wet	0.78	1.30	0.05	Modelled	Wet Weather Response	
8/6/19 14:05	Wet	1.21	1.70	0.08	Modelled	Wet Weather Response	
8/18/19 5:25	Wet	0.95	18.90	0.03	Modelled	Wet Weather Response	

CSO 212						Receiving Water: Nine Mile Creek	
Location: Belvoir Blvd. opposite Quilliams Ave. , E side of Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/22/19 1:30	Wet	0.81	1.10	0.02	Modelled	Wet Weather Response	
9/11/19 16:05	Wet	1.67	8.90	0.20	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	0.91	3.30	0.13	Modelled	Wet Weather Response	
10/16/19 6:44	Wet	1.05	11.60	0.02	Modelled	Wet Weather Response	
10/31/19 9:16	Wet	1.63	13.80	0.02	Modelled	Wet Weather Response	
Totals		29.86	180.00	1.58			

CSO 214						Receiving Water: Green Creek	
Location: Behind American Steel Supplies at Saranac Rd. & E 170th St., along RR, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:25	Wet	0.76	9.70	0.02	Modelled	Wet Weather Response	
1/23/19 6:40	Wet	1.48	4.80	0.06	Modelled	Wet Weather Response	
2/12/19 5:39	Wet	1.12	13.70	0.06	Modelled	Wet Weather Response	
3/14/19 18:15	Wet	0.48	1.10	0.07	Modelled	Wet Weather Response	
3/30/19 15:20	Wet	1.44	10.30	0.07	Modelled	Wet Weather Response	
4/14/19 17:10	Wet	1.00	1.30	0.18	Modelled	Wet Weather Response	
4/19/19 14:18	Wet	1.29	16.80	0.09	Modelled	Wet Weather Response	
4/25/19 19:15	Wet	1.02	6.10	0.08	Modelled	Wet Weather Response	
4/29/19 17:41	Wet	0.52	2.00	0.03	Modelled	Wet Weather Response	
5/3/19 1:20	Wet	0.47	1.10	0.07	Modelled	Wet Weather Response	
5/28/19 14:05	Wet	0.47	6.10	0.35	Modelled	Wet Weather Response	
5/30/19 16:06	Wet	0.54	1.30	0.17	Modelled	Wet Weather Response	

CSO 214					Receiving Water: Green Creek		
Location:		Behind American Steel Supplies at Saranac Rd. & E 170th St., along RR, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/2/19 0:13	Wet	0.45	2.00	0.02	Modelled	Wet Weather Response	
6/5/19 8:06	Wet	1.53	14.20	0.65	Modelled	Wet Weather Response	
6/10/19 11:15	Wet	1.13	6.80	0.36	Modelled	Wet Weather Response	
6/13/19 13:16	Wet	1.23	11.00	0.33	Modelled	Wet Weather Response	
6/15/19 23:13	Wet	1.75	16.90	0.32	Modelled	Wet Weather Response	
6/20/19 3:05	Wet	1.51	18.10	0.71	Modelled	Wet Weather Response	
6/24/19 16:05	Wet	0.86	5.90	0.80	Modelled	Wet Weather Response	
6/28/19 18:10	Wet	0.79	1.90	0.31	Modelled	Wet Weather Response	
7/4/19 14:15	Wet	0.01	0.90	0.24	Modelled	Wet Weather Response	
7/11/19 13:05	Wet	0.03	1.30	0.26	Modelled	Wet Weather Response	
7/16/19 19:31	Wet	0.84	16.60	0.29	Modelled	Wet Weather Response	
7/20/19 5:40	Wet	0.33	0.60	0.05	Modelled	Wet Weather Response	
7/22/19 7:14	Wet	0.26	2.20	0.10	Modelled	Wet Weather Response	
7/30/19 0:41	Wet	0.78	9.70	0.16	Modelled	Wet Weather Response	
8/6/19 13:01	Wet	1.21	8.10	0.70	Modelled	Wet Weather Response	
8/15/19 14:20	Wet	0.02	0.90	0.04	Modelled	Wet Weather Response	
8/17/19 13:30	Wet	0.27	1.80	0.06	Modelled	Wet Weather Response	
8/18/19 5:13	Wet	0.95	19.30	0.11	Modelled	Wet Weather Response	
8/22/19 1:21	Wet	0.81	5.80	0.06	Modelled	Wet Weather Response	
9/11/19 16:03	Wet	1.67	9.20	0.85	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	0.91	3.00	0.66	Modelled	Wet Weather Response	
10/31/19 8:25	Wet	1.63	14.70	0.06	Modelled	Wet Weather Response	
Totals		29.56	245.20	8.39			

CSO 215					Receiving Water: Doan Brook		
Location: W side of Doan Brook at St. Clair Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 216					Receiving Water: Doan Brook		
Location: W of Parkgate Ave. & East Blvd., E side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 217						Receiving Water:	Doan Brook
Location: W of Martin Luther King Blvd. & E 98th St., E side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:25	Wet	0.84	10.10	0.14	Modelled	Wet Weather Response	
1/23/19 6:53	Wet	1.30	22.30	0.25	Modelled	Wet Weather Response	
2/7/19 15:10	Wet	0.45	4.10	0.07	Modelled	Wet Weather Response	
2/12/19 5:46	Wet	0.99	14.90	0.23	Modelled	Wet Weather Response	
3/9/19 21:30	Wet	0.63	8.80	0.06	Modelled	Wet Weather Response	
3/14/19 18:25	Wet	0.46	1.60	0.05	Modelled	Wet Weather Response	
3/30/19 10:25	Wet	1.28	15.30	0.36	Modelled	Wet Weather Response	
4/14/19 9:33	Wet	0.66	18.50	0.05	Modelled	Wet Weather Response	
4/19/19 14:13	Wet	1.37	18.40	0.34	Modelled	Wet Weather Response	
4/26/19 0:20	Wet	0.73	18.30	0.06	Modelled	Wet Weather Response	
4/28/19 0:06	Wet	0.41	4.40	0.08	Modelled	Wet Weather Response	
4/29/19 17:30	Wet	0.50	3.50	0.16	Modelled	Wet Weather Response	
5/1/19 18:50	Wet	0.91	12.20	0.31	Modelled	Wet Weather Response	
5/3/19 1:20	Wet	0.30	2.00	0.07	Modelled	Wet Weather Response	
5/12/19 18:35	Wet	0.28	4.90	0.02	Modelled	Wet Weather Response	
5/26/19 15:35	Wet	0.50	2.90	0.05	Modelled	Wet Weather Response	
5/28/19 1:58	Wet	0.69	20.70	0.27	Modelled	Wet Weather Response	
5/30/19 16:00	Wet	0.53	2.90	0.19	Modelled	Wet Weather Response	
6/2/19 0:30	Wet	0.50	3.10	0.12	Modelled	Wet Weather Response	
6/5/19 8:15	Wet	1.48	15.70	0.60	Modelled	Wet Weather Response	
6/10/19 12:05	Wet	0.90	6.50	0.28	Modelled	Wet Weather Response	
6/13/19 0:41	Wet	1.25	25.40	0.44	Modelled	Wet Weather Response	
6/15/19 16:43	Wet	1.55	24.10	0.62	Modelled	Wet Weather Response	
6/20/19 4:10	Wet	1.31	17.60	0.44	Modelled	Wet Weather Response	

CSO 217					Receiving Water: Doan Brook		
Location:		W of Martin Luther King Blvd. & E 98th St., E side of Doan Brook, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/24/19 19:37	Wet	0.52	2.70	0.09	Modelled	Wet Weather Response	
6/28/19 18:40	Wet	0.36	1.20	0.03	Modelled	Wet Weather Response	
7/2/19 22:15	Wet	0.39	2.50	0.07	Modelled	Wet Weather Response	
7/16/19 19:46	Wet	0.87	16.70	0.16	Modelled	Wet Weather Response	
7/30/19 9:05	Wet	0.66	2.00	0.13	Modelled	Wet Weather Response	
8/6/19 14:05	Wet	1.02	16.60	0.21	Modelled	Wet Weather Response	
8/18/19 5:16	Wet	0.92	20.80	0.22	Modelled	Wet Weather Response	
8/22/19 2:34	Wet	0.58	5.30	0.10	Modelled	Wet Weather Response	
9/11/19 13:55	Wet	0.93	16.20	0.17	Modelled	Wet Weather Response	
9/13/19 19:20	Wet	0.73	3.30	0.29	Modelled	Wet Weather Response	
10/2/19 17:31	Wet	0.47	12.00	0.02	Modelled	Wet Weather Response	
10/12/19 3:15	Wet	0.47	3.10	0.04	Modelled	Wet Weather Response	
10/16/19 6:25	Wet	1.00	20.80	0.17	Modelled	Wet Weather Response	
10/26/19 15:45	Wet	0.72	10.70	0.07	Modelled	Wet Weather Response	
10/30/19 20:41	Wet	1.62	33.20	0.45	Modelled	Wet Weather Response	
11/11/19 14:50	Wet	0.66	7.00	0.05	Modelled	Wet Weather Response	
12/1/19 15:39	Wet	0.66	2.30	0.05	Modelled	Wet Weather Response	
12/14/19 8:25	Wet	0.52	5.30	0.03	Modelled	Wet Weather Response	
12/29/19 22:21	Wet	0.56	2.30	0.01	Modelled	Wet Weather Response	
Totals		33.48	462.20	7.62			

CSO 218					Receiving Water: Doan Brook		
Location:		E side of Doan Brook, S of Superior Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:20	Wet	0.78	3.50	0.33	Monitored	Wet Weather Response	
1/23/19 7:55	Wet	1.12	16.08	1.05	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.18	2.25	0.12	Monitored	Wet Weather Response	
2/7/19 15:35	Wet	0.45	3.67	0.18	Monitored	Wet Weather Response	
2/12/19 5:45	Wet	0.99	9.58	0.63	Monitored	Wet Weather Response	
2/20/19 18:55	Wet	0.34	1.83	0.10	Monitored	Wet Weather Response	
3/9/19 21:35	Wet	0.36	1.00	0.08	Monitored	Wet Weather Response	
3/14/19 19:30	Wet	0.46	1.50	0.22	Monitored	Wet Weather Response	
3/30/19 17:15	Wet	1.12	4.67	0.62	Monitored	Wet Weather Response	
4/12/19 11:35	Wet	0.21	0.08	0.01	Monitored	Wet Weather Response	
4/14/19 18:30	Wet	0.54	0.58	0.02	Monitored	Wet Weather Response	
4/19/19 16:35	Wet	1.12	4.58	0.96	Monitored	Wet Weather Response	
4/20/19 7:20	Wet	0.25	1.08	0.19	Monitored	Wet Weather Response	
4/26/19 1:50	Wet	0.58	1.25	0.13	Monitored	Wet Weather Response	
4/28/19 2:55	Wet	0.31	0.58	0.04	Monitored	Wet Weather Response	
4/29/19 19:00	Wet	0.50	2.33	0.32	Monitored	Wet Weather Response	
5/1/19 19:50	Wet	0.37	1.17	0.06	Monitored	Wet Weather Response	
5/2/19 3:20	Wet	0.54	4.25	0.51	Monitored	Wet Weather Response	
5/3/19 2:25	Wet	0.30	0.58	0.07	Monitored	Wet Weather Response	
5/9/19 15:55	Wet	0.26	0.25	0.01	Monitored	Wet Weather Response	
5/12/19 4:25	Wet	0.52	0.42	0.02	Monitored	Wet Weather Response	
5/26/19 17:15	Wet	0.50	0.75	0.08	Monitored	Wet Weather Response	
5/28/19 19:35	Wet	0.91	2.17	0.34	Monitored	Wet Weather Response	
5/30/19 17:15	Wet	0.53	1.83	0.31	Monitored	Wet Weather Response	

CSO 218					Receiving Water: Doan Brook		
Location:		E side of Doan Brook, S of Superior Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/2/19 1:55	Wet	0.40	1.92	0.22	Monitored	Wet Weather Response	
6/5/19 9:50	Wet	1.46	5.00	1.03	Monitored	Wet Weather Response	
6/10/19 13:15	Wet	0.90	3.25	0.62	Monitored	Wet Weather Response	
6/13/19 1:15	Wet	1.09	3.17	0.58	Monitored	Wet Weather Response	
6/14/19 0:00	Wet	0.11	2.50	0.22	Monitored	Wet Weather Response	
6/16/19 1:50	Wet	1.23	7.33	1.12	Monitored	Wet Weather Response	
6/20/19 5:20	Wet	1.31	8.42	0.93	Monitored	Wet Weather Response	
6/24/19 20:55	Wet	0.52	1.92	0.24	Monitored	Wet Weather Response	
6/28/19 19:55	Wet	0.36	0.92	0.15	Monitored	Wet Weather Response	
7/2/19 23:25	Wet	0.37	0.58	0.05	Monitored	Wet Weather Response	
7/3/19 0:00	Wet	0.02	0.17	0.01	Monitored	Wet Weather Response	
7/5/19 13:10	Wet	0.28	0.17	0.01	Monitored	Wet Weather Response	
7/15/19 22:05	Wet	0.12	0.42	0.02	Monitored	Wet Weather Response	
7/16/19 20:55	Wet	0.34	0.50	0.05	Monitored	Wet Weather Response	
7/17/19 3:50	Wet	0.53	1.75	0.22	Monitored	Wet Weather Response	
7/20/19 6:55	Wet	0.14	0.67	0.04	Monitored	Wet Weather Response	
7/22/19 9:50	Wet	0.25	0.67	0.03	Monitored	Wet Weather Response	
7/30/19 10:10	Wet	0.66	1.42	0.21	Monitored	Wet Weather Response	
8/6/19 13:10	Wet	0.91	2.00	0.28	Monitored	Wet Weather Response	
8/17/19 15:00	Wet	0.20	0.33	0.02	Monitored	Wet Weather Response	
8/18/19 6:30	Wet	0.51	1.08	0.13	Monitored	Wet Weather Response	
8/19/19 0:45	Wet	0.41	1.17	0.12	Monitored	Wet Weather Response	
8/22/19 2:50	Wet	0.58	0.92	0.04	Monitored	Wet Weather Response	
9/11/19 14:40	Wet	0.53	1.50	0.19	Monitored	Wet Weather Response	

CSO 218					Receiving Water: Doan Brook		
Location: E side of Doan Brook, S of Superior Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/12/19 0:40	Wet	0.40	1.17	0.17	Monitored	Wet Weather Response	
9/13/19 20:45	Wet	0.73	2.58	0.48	Monitored	Wet Weather Response	
10/12/19 5:15	Wet	0.44	0.50	0.03	Monitored	Wet Weather Response	
10/16/19 7:35	Wet	0.84	3.67	0.31	Monitored	Wet Weather Response	
10/26/19 16:55	Wet	0.63	0.92	0.07	Monitored	Wet Weather Response	
10/31/19 10:25	Wet	0.95	5.92	0.60	Monitored	Wet Weather Response	
11/1/19 1:25	Wet	0.34	0.67	0.03	Monitored	Wet Weather Response	
11/11/19 14:25	Wet	0.62	1.08	0.05	Monitored	Wet Weather Response	
12/1/19 16:20	Wet	0.50	1.17	0.12	Monitored	Wet Weather Response	
12/14/19 9:30	Wet	0.50	1.00	0.04	Monitored	Wet Weather Response	
Totals		32.42	132.44	14.83			

CSO 219					Receiving Water: Doan Brook		
Location: W side of Doan Brook, N of Superior Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/5/19 8:17	Wet	1.48	5.80	0.01	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	0.93	1.00	0.01	Modelled	Wet Weather Response	
Totals		2.41	6.80	0.02			

CSO 220					Receiving Water: Doan Brook		
Location: Across from intersection of East Blvd. & Ashbury Blvd. on E side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 10:00	Wet	0.84	9.10	0.25	Modelled	Wet Weather Response	
1/23/19 8:25	Wet	1.30	3.40	0.71	Modelled	Wet Weather Response	
2/12/19 6:30	Wet	0.99	12.70	0.21	Modelled	Wet Weather Response	
3/14/19 18:35	Wet	0.46	1.30	0.24	Modelled	Wet Weather Response	
3/30/19 19:40	Wet	1.28	5.30	0.84	Modelled	Wet Weather Response	
4/19/19 15:56	Wet	1.37	4.10	1.09	Modelled	Wet Weather Response	
4/29/19 18:00	Wet	0.50	2.30	0.31	Modelled	Wet Weather Response	
5/2/19 3:00	Wet	0.91	3.00	0.30	Modelled	Wet Weather Response	
5/26/19 15:50	Wet	0.50	1.40	0.09	Modelled	Wet Weather Response	
5/28/19 18:30	Wet	0.69	2.60	1.15	Modelled	Wet Weather Response	
5/30/19 16:20	Wet	0.53	2.00	0.69	Modelled	Wet Weather Response	
6/2/19 0:55	Wet	0.50	1.80	0.21	Modelled	Wet Weather Response	
6/5/19 8:35	Wet	1.48	14.30	2.16	Modelled	Wet Weather Response	
6/10/19 12:20	Wet	0.90	3.60	1.44	Modelled	Wet Weather Response	
6/13/19 14:45	Wet	1.25	10.70	1.29	Modelled	Wet Weather Response	
6/16/19 0:35	Wet	1.55	15.60	1.66	Modelled	Wet Weather Response	
6/20/19 4:25	Wet	1.31	11.50	1.44	Modelled	Wet Weather Response	
6/24/19 19:50	Wet	0.52	2.10	0.41	Modelled	Wet Weather Response	
6/28/19 18:50	Wet	0.36	0.90	0.12	Modelled	Wet Weather Response	
7/2/19 22:40	Wet	0.39	1.10	0.11	Modelled	Wet Weather Response	
7/16/19 20:15	Wet	0.87	8.40	0.39	Modelled	Wet Weather Response	
7/30/19 9:15	Wet	0.66	2.00	0.83	Modelled	Wet Weather Response	
8/6/19 14:20	Wet	1.02	5.20	0.93	Modelled	Wet Weather Response	
8/18/19 5:45	Wet	0.92	1.20	0.21	Modelled	Wet Weather Response	

CSO 220						Receiving Water:	Doan Brook
Location: Across from intersection of East Blvd. & Ashbury Blvd. on E side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/18/19 23:40	Wet	0.92	1.60	0.27	Modelled	Wet Weather Response	
8/22/19 5:15	Wet	0.58	1.20	0.02	Modelled	Wet Weather Response	
9/11/19 15:35	Wet	0.93	9.30	0.41	Modelled	Wet Weather Response	
9/13/19 19:35	Wet	0.73	3.00	1.59	Modelled	Wet Weather Response	
10/16/19 6:50	Wet	1.00	11.50	0.24	Modelled	Wet Weather Response	
10/31/19 9:40	Wet	1.62	15.50	0.78	Modelled	Wet Weather Response	
12/1/19 16:35	Wet	0.66	1.00	0.06	Modelled	Wet Weather Response	
Totals		27.54	168.70	20.45			

CSO 221						Receiving Water:	Doan Brook
Location: E 105th St. & Hough Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:05	Wet	0.84	10.80	0.73	Modelled	Wet Weather Response	
1/23/19 6:35	Wet	1.30	19.60	1.12	Modelled	Wet Weather Response	
2/7/19 15:21	Wet	0.45	3.70	0.46	Modelled	Wet Weather Response	
2/12/19 5:40	Wet	0.99	14.90	0.96	Modelled	Wet Weather Response	
2/20/19 19:00	Wet	0.34	1.90	0.22	Modelled	Wet Weather Response	
3/9/19 21:20	Wet	0.63	7.90	0.60	Modelled	Wet Weather Response	
3/14/19 18:20	Wet	0.46	2.00	0.28	Modelled	Wet Weather Response	
3/29/19 6:30	Wet	0.29	0.90	0.01	Modelled	Wet Weather Response	
3/30/19 15:30	Wet	1.28	10.90	1.49	Modelled	Wet Weather Response	
4/14/19 17:40	Wet	0.66	1.60	0.18	Modelled	Wet Weather Response	

CSO 221						Receiving Water:	Doan Brook
Location:		E 105th St. & Hough Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/19/19 14:56	Wet	1.37	17.20	1.10	Modelled	Wet Weather Response	
4/25/19 20:20	Wet	0.73	17.60	0.26	Modelled	Wet Weather Response	
4/28/19 1:20	Wet	0.41	2.20	0.23	Modelled	Wet Weather Response	
4/29/19 17:40	Wet	0.50	3.20	0.46	Modelled	Wet Weather Response	
5/1/19 19:00	Wet	0.91	11.80	0.98	Modelled	Wet Weather Response	
5/3/19 1:40	Wet	0.30	1.00	0.12	Modelled	Wet Weather Response	
5/12/19 2:20	Wet	0.30	1.80	0.18	Modelled	Wet Weather Response	
5/12/19 19:10	Wet	0.28	0.80	0.05	Modelled	Wet Weather Response	
5/19/19 19:00	Wet	0.19	0.60	0.02	Modelled	Wet Weather Response	
5/26/19 15:30	Wet	0.50	3.20	0.43	Modelled	Wet Weather Response	
5/28/19 18:20	Wet	0.69	4.40	0.60	Modelled	Wet Weather Response	
5/30/19 15:45	Wet	0.53	3.60	0.52	Modelled	Wet Weather Response	
6/2/19 0:30	Wet	0.50	2.70	0.37	Modelled	Wet Weather Response	
6/5/19 8:25	Wet	1.48	15.00	1.33	Modelled	Wet Weather Response	
6/10/19 11:35	Wet	0.90	7.20	0.81	Modelled	Wet Weather Response	
6/12/19 23:50	Wet	1.25	2.00	0.21	Modelled	Wet Weather Response	
6/13/19 14:30	Wet	1.25	11.60	0.98	Modelled	Wet Weather Response	
6/15/19 17:25	Wet	1.55	24.10	1.41	Modelled	Wet Weather Response	
6/20/19 3:55	Wet	1.31	18.10	1.57	Modelled	Wet Weather Response	
6/24/19 16:45	Wet	0.52	6.40	0.85	Modelled	Wet Weather Response	
6/28/19 18:30	Wet	0.36	1.70	0.22	Modelled	Wet Weather Response	
7/2/19 21:50	Wet	0.39	2.90	0.39	Modelled	Wet Weather Response	
7/5/19 12:45	Wet	0.01	1.50	0.10	Modelled	Wet Weather Response	
7/16/19 19:40	Wet	0.87	18.40	0.94	Modelled	Wet Weather Response	

CSO 221					Receiving Water: Doan Brook		
Location:		E 105th St. & Hough Ave., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/20/19 6:00	Wet	0.14	0.60	0.03	Modelled	Wet Weather Response	
7/22/19 8:25	Wet	0.34	1.70	0.19	Modelled	Wet Weather Response	
7/30/19 8:55	Wet	0.66	2.40	0.39	Modelled	Wet Weather Response	
8/6/19 12:35	Wet	1.02	8.20	0.96	Modelled	Wet Weather Response	
8/17/19 14:00	Wet	0.20	0.70	0.05	Modelled	Wet Weather Response	
8/18/19 5:30	Wet	0.92	20.50	0.64	Modelled	Wet Weather Response	
8/22/19 1:50	Wet	0.58	5.70	0.55	Modelled	Wet Weather Response	
8/27/19 15:00	Wet	0.26	0.70	0.05	Modelled	Wet Weather Response	
9/11/19 13:45	Wet	0.93	12.10	0.82	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	0.73	5.90	0.83	Modelled	Wet Weather Response	
10/2/19 17:40	Wet	0.47	2.00	0.21	Modelled	Wet Weather Response	
10/12/19 3:20	Wet	0.47	2.70	0.28	Modelled	Wet Weather Response	
10/16/19 6:10	Wet	1.00	13.70	0.84	Modelled	Wet Weather Response	
10/26/19 15:35	Wet	0.72	11.10	0.42	Modelled	Wet Weather Response	
10/31/19 9:00	Wet	1.62	20.90	1.60	Modelled	Wet Weather Response	
11/11/19 14:15	Wet	0.66	6.80	0.45	Modelled	Wet Weather Response	
12/1/19 7:00	Wet	0.66	11.10	0.31	Modelled	Wet Weather Response	
12/9/19 11:25	Wet	0.44	6.00	0.04	Modelled	Wet Weather Response	
12/14/19 8:00	Wet	0.52	3.10	0.35	Modelled	Wet Weather Response	
12/29/19 22:45	Wet	0.56	1.90	0.18	Modelled	Wet Weather Response	
Totals		37.24	391.00	29.37			

CSO 222						Receiving Water:	Doan Brook
Location: E 105th St. & Doan Brook on S side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.84	10.40	4.04	Modelled	Wet Weather Response	
1/23/19 6:45	Wet	1.30	18.80	5.93	Modelled	Wet Weather Response	
2/7/19 15:30	Wet	0.45	3.20	1.60	Modelled	Wet Weather Response	
2/12/19 5:45	Wet	0.99	14.30	4.44	Modelled	Wet Weather Response	
2/20/19 19:05	Wet	0.34	1.50	0.66	Modelled	Wet Weather Response	
3/9/19 21:30	Wet	0.63	6.90	1.32	Modelled	Wet Weather Response	
3/14/19 18:25	Wet	0.46	1.60	2.29	Modelled	Wet Weather Response	
3/30/19 15:40	Wet	1.28	10.40	9.34	Modelled	Wet Weather Response	
4/14/19 17:45	Wet	0.66	1.10	0.67	Modelled	Wet Weather Response	
4/19/19 15:15	Wet	1.37	16.50	7.38	Modelled	Wet Weather Response	
4/26/19 0:35	Wet	0.73	1.70	1.24	Modelled	Wet Weather Response	
4/28/19 1:30	Wet	0.41	1.50	0.40	Modelled	Wet Weather Response	
4/29/19 17:40	Wet	0.50	3.00	3.06	Modelled	Wet Weather Response	
5/1/19 19:05	Wet	0.91	11.40	3.78	Modelled	Wet Weather Response	
5/3/19 1:45	Wet	0.30	0.80	0.31	Modelled	Wet Weather Response	
5/12/19 2:40	Wet	0.30	1.10	0.27	Modelled	Wet Weather Response	
5/26/19 15:35	Wet	0.50	2.90	1.89	Modelled	Wet Weather Response	
5/28/19 18:25	Wet	0.69	2.70	5.60	Modelled	Wet Weather Response	
5/30/19 15:50	Wet	0.53	3.20	5.08	Modelled	Wet Weather Response	
6/2/19 0:30	Wet	0.50	2.40	2.55	Modelled	Wet Weather Response	
6/5/19 8:30	Wet	1.48	14.60	9.60	Modelled	Wet Weather Response	
6/10/19 11:40	Wet	0.90	4.40	7.90	Modelled	Wet Weather Response	
6/12/19 23:55	Wet	1.25	1.50	0.41	Modelled	Wet Weather Response	
6/13/19 14:35	Wet	1.25	11.20	9.36	Modelled	Wet Weather Response	

CSO 222						Receiving Water:	Doan Brook
Location: E 105th St. & Doan Brook on S side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/16/19 0:25	Wet	1.55	16.70	10.72	Modelled	Wet Weather Response	
6/20/19 4:00	Wet	1.31	14.70	12.76	Modelled	Wet Weather Response	
6/24/19 16:45	Wet	0.52	6.00	8.26	Modelled	Wet Weather Response	
6/28/19 18:35	Wet	0.36	1.30	1.39	Modelled	Wet Weather Response	
7/2/19 21:50	Wet	0.39	2.50	3.24	Modelled	Wet Weather Response	
7/5/19 12:50	Wet	0.01	1.20	0.41	Modelled	Wet Weather Response	
7/16/19 19:45	Wet	0.87	18.00	6.96	Modelled	Wet Weather Response	
7/22/19 8:35	Wet	0.34	1.30	0.90	Modelled	Wet Weather Response	
7/30/19 9:05	Wet	0.66	1.90	2.64	Modelled	Wet Weather Response	
8/6/19 12:35	Wet	1.02	7.70	8.69	Modelled	Wet Weather Response	
8/17/19 14:10	Wet	0.20	0.20	0.01	Modelled	Wet Weather Response	
8/18/19 5:35	Wet	0.92	1.60	2.43	Modelled	Wet Weather Response	
8/18/19 23:35	Wet	0.92	2.00	1.95	Modelled	Wet Weather Response	
8/22/19 1:55	Wet	0.58	5.20	1.21	Modelled	Wet Weather Response	
9/11/19 13:50	Wet	0.93	11.70	3.65	Modelled	Wet Weather Response	
9/13/19 19:25	Wet	0.73	5.30	10.81	Modelled	Wet Weather Response	
10/2/19 17:55	Wet	0.47	1.40	0.16	Modelled	Wet Weather Response	
10/12/19 3:25	Wet	0.47	1.70	0.84	Modelled	Wet Weather Response	
10/16/19 6:15	Wet	1.00	13.30	4.78	Modelled	Wet Weather Response	
10/26/19 15:40	Wet	0.72	1.20	0.72	Modelled	Wet Weather Response	
10/31/19 9:05	Wet	1.62	20.40	8.20	Modelled	Wet Weather Response	
11/11/19 14:25	Wet	0.66	6.10	0.78	Modelled	Wet Weather Response	

CSO 222						Receiving Water:	Doan Brook
Location: E 105th St. & Doan Brook on S side of Doan Brook, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
12/1/19 16:05	Wet	0.66	1.80	1.43	Modelled	Wet Weather Response	
12/14/19 8:22	Wet	0.52	2.30	0.83	Modelled	Wet Weather Response	
12/29/19 22:55	Wet	0.56	1.20	0.24	Modelled	Wet Weather Response	
Totals		36.56	293.80	183.13			

CSO 223						Receiving Water:	Doan Brook
Location: N of E 107th St. & Parklane Rd. behind art museum, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park and Harrison-Dillard Trail							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 224					Receiving Water: Doan Brook		
Location: N of E 107th St. & Parklane Rd. behind art museum, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park and Harrison-Dillard Trail							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/14/19 18:25	Wet	0.46	0.80	0.07	Modelled	Wet Weather Response	
5/26/19 15:40	Wet	0.50	0.50	0.01	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	0.69	1.30	0.32	Modelled	Wet Weather Response	
5/30/19 16:00	Wet	0.53	1.20	0.15	Modelled	Wet Weather Response	
6/5/19 8:10	Wet	1.48	6.20	0.47	Modelled	Wet Weather Response	
6/10/19 12:30	Wet	0.90	1.70	0.19	Modelled	Wet Weather Response	
6/13/19 14:40	Wet	1.25	7.60	0.03	Modelled	Wet Weather Response	
6/20/19 4:05	Wet	1.31	2.00	0.10	Modelled	Wet Weather Response	
6/28/19 18:30	Wet	0.52	0.70	0.07	Modelled	Wet Weather Response	
7/17/19 2:40	Wet	0.87	0.50	0.01	Modelled	Wet Weather Response	
7/30/19 9:05	Wet	0.66	1.20	0.28	Modelled	Wet Weather Response	
8/6/19 14:05	Wet	1.02	1.20	0.24	Modelled	Wet Weather Response	
8/18/19 5:15	Wet	0.92	1.00	0.07	Modelled	Wet Weather Response	
8/18/19 23:30	Wet	0.92	0.70	0.05	Modelled	Wet Weather Response	
9/11/19 16:31	Wet	0.93	7.70	0.07	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	0.73	2.60	0.76	Modelled	Wet Weather Response	
Totals		13.69	36.90	2.89			

CSO 225						Receiving Water:	Doan Brook
Location: N of Kemper Rd. & Fairhill Rd. at Doan Brook, Shaker Heights							
Treatment: None							
Potentially Impacted Public Access Area: Shaker Lakes Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 226						Receiving Water:	Doan Brook
Location: Along creek N of Larchmere & Coventry Rd., downstream of bridge over Creek, Shaker Heights							
Treatment: None							
Potentially Impacted Public Access Area: Shaker Lakes Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:20	Wet	1.68	3.00	0.17	Modelled	Wet Weather Response	
Totals		1.68	3.00	0.17			

CSO 230						Receiving Water:	Dugway Brook
Location: West Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/1/19	Dry	0.02	25.00	0.18	Modelled	Water main break	
5/28/19 19:35	Wet	0.69	0.70	0.03	Modelled	Wet Weather Response	
6/10/19 13:35	Wet	0.90	1.20	0.27	Modelled	Wet Weather Response	
9/13/19 20:30	Wet	0.73	1.10	0.48	Modelled	Wet Weather Response	
Totals		2.34	28.00	0.96			

CSO 231					Receiving Water: Dugway Brook		
Location: East Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd., Cleveland							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.80	9.90	0.23	Modelled	Wet Weather Response	
1/23/19 6:45	Wet	1.29	4.80	0.63	Modelled	Wet Weather Response	
2/7/19 15:25	Wet	0.46	2.30	0.05	Modelled	Wet Weather Response	
2/12/19 5:46	Wet	0.97	13.60	0.20	Modelled	Wet Weather Response	
3/9/19 21:25	Wet	0.80	1.40	0.02	Modelled	Wet Weather Response	
3/14/19 18:10	Wet	0.34	1.60	0.17	Modelled	Wet Weather Response	
3/30/19 15:41	Wet	1.40	8.90	0.36	Modelled	Wet Weather Response	
4/14/19 17:35	Wet	0.70	0.90	0.02	Modelled	Wet Weather Response	
4/19/19 15:15	Wet	1.62	16.00	0.92	Modelled	Wet Weather Response	
4/26/19 0:11	Wet	0.99	1.50	0.06	Modelled	Wet Weather Response	
4/29/19 17:30	Wet	0.42	2.60	0.15	Modelled	Wet Weather Response	
5/1/19 18:56	Wet	0.80	10.50	0.11	Modelled	Wet Weather Response	
5/26/19 15:25	Wet	0.38	2.30	0.11	Modelled	Wet Weather Response	
5/28/19 18:05	Wet	1.76	2.70	2.53	Modelled	Wet Weather Response	
5/30/19 15:15	Wet	1.20	30.90	0.96	Modelled	Wet Weather Response	
6/5/19 8:10	Wet	1.43	14.30	1.04	Modelled	Wet Weather Response	
6/10/19 11:45	Wet	0.78	3.60	2.93	Modelled	Wet Weather Response	
6/13/19 14:10	Wet	1.77	10.10	1.38	Modelled	Wet Weather Response	
6/16/19 0:15	Wet	1.05	15.40	0.56	Modelled	Wet Weather Response	
6/20/19 3:35	Wet	2.81	11.60	1.59	Modelled	Wet Weather Response	
6/24/19 16:15	Wet	2.26	5.40	2.01	Modelled	Wet Weather Response	
6/28/19 18:20	Wet	2.26	1.40	0.11	Modelled	Wet Weather Response	
7/2/19 22:10	Wet	0.08	1.50	0.17	Modelled	Wet Weather Response	
7/11/19 13:35	Wet	1.06	0.60	0.14	Modelled	Wet Weather Response	

CSO 231					Receiving Water: Dugway Brook		
Location:		East Branch of Dugway Brook, approximately 600 feet upstream of Lakeshore Blvd., Cleveland					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
7/16/19 19:40	Wet	1.92	8.80	0.73	Modelled	Wet Weather Response	
7/20/19 5:05	Wet	1.92	1.20	0.02	Modelled	Wet Weather Response	
7/30/19 8:55	Wet	0.30	2.10	0.49	Modelled	Wet Weather Response	
8/6/19 12:12	Wet	1.99	7.10	1.61	Modelled	Wet Weather Response	
8/18/19 5:10	Wet	0.32	1.60	0.35	Modelled	Wet Weather Response	
8/22/19 1:45	Wet	0.44	4.50	0.03	Modelled	Wet Weather Response	
9/11/19 13:40	Wet	0.13	11.10	0.51	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	1.26	3.60	4.93	Modelled	Wet Weather Response	
10/12/19 3:15	Wet	0.22	1.40	0.05	Modelled	Wet Weather Response	
10/16/19 6:10	Wet	0.84	12.40	0.25	Modelled	Wet Weather Response	
10/26/19 15:30	Wet	0.67	1.00	0.03	Modelled	Wet Weather Response	
10/31/19 9:05	Wet	1.30	16.20	0.32	Modelled	Wet Weather Response	
12/1/19 15:51	Wet	0.83	1.60	0.08	Modelled	Wet Weather Response	
12/14/19 8:31	Wet	0.59	1.70	0.02	Modelled	Wet Weather Response	
Totals		40.16	248.10	25.87			

CSO 232					Receiving Water: Shaw Brook		
Location:		S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:05	Wet	0.84	11.20	2.02	Modelled	Wet Weather Response	
1/19/19 14:27	Wet	0.26	10.90	0.10	Modelled	Wet Weather Response	
1/23/19 5:42	Wet	1.30	23.30	2.69	Modelled	Wet Weather Response	
1/28/19 21:20	Wet	0.11	3.10	0.02	Modelled	Wet Weather Response	
2/6/19 7:05	Wet	0.28	7.30	0.05	Modelled	Wet Weather Response	
2/7/19 14:31	Wet	0.45	9.00	0.90	Modelled	Wet Weather Response	
2/12/19 4:29	Wet	0.99	16.30	2.14	Modelled	Wet Weather Response	
2/20/19 18:06	Wet	0.34	3.40	0.48	Modelled	Wet Weather Response	
3/9/19 19:28	Wet	0.63	10.90	1.14	Modelled	Wet Weather Response	
3/14/19 18:08	Wet	0.46	3.40	1.05	Modelled	Wet Weather Response	
3/29/19 4:22	Wet	0.29	6.50	0.25	Modelled	Wet Weather Response	
3/30/19 9:22	Wet	1.28	17.60	3.41	Modelled	Wet Weather Response	
4/12/19 9:46	Wet	0.21	2.70	0.14	Modelled	Wet Weather Response	
4/14/19 6:28	Wet	0.66	24.60	0.63	Modelled	Wet Weather Response	
4/19/19 9:17	Wet	1.37	24.20	3.48	Modelled	Wet Weather Response	
4/25/19 19:00	Wet	0.73	20.60	1.42	Modelled	Wet Weather Response	
4/27/19 22:55	Wet	0.41	8.30	0.49	Modelled	Wet Weather Response	
4/29/19 16:35	Wet	0.50	4.40	1.17	Modelled	Wet Weather Response	
4/30/19 12:44	Wet	0.09	2.00	0.01	Modelled	Wet Weather Response	
5/1/19 18:16	Wet	0.91	11.90	1.53	Modelled	Wet Weather Response	
5/3/19 2:05	Wet	0.30	12.20	0.06	Modelled	Wet Weather Response	
5/9/19 14:20	Wet	0.30	13.50	0.17	Modelled	Wet Weather Response	
5/12/19 1:06	Wet	0.30	3.70	0.53	Modelled	Wet Weather Response	
5/12/19 18:08	Wet	0.28	5.80	0.20	Modelled	Wet Weather Response	

CSO 232						Receiving Water:	Shaw Brook
Location: S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/18/19 7:20	Wet	0.07	15.80	0.17	Modelled	Wet Weather Response	
5/19/19 18:29	Wet	0.19	1.60	0.09	Modelled	Wet Weather Response	
5/23/19 7:35	Wet	0.08	1.40	0.02	Modelled	Wet Weather Response	
5/26/19 14:42	Wet	0.50	4.70	0.75	Modelled	Wet Weather Response	
5/27/19 23:26	Wet	0.69	27.50	4.69	Modelled	Wet Weather Response	
5/30/19 6:55	Wet	0.53	11.60	1.65	Modelled	Wet Weather Response	
6/1/19 21:35	Wet	0.50	6.50	1.36	Modelled	Wet Weather Response	
6/4/19 23:47	Wet	1.48	23.40	4.47	Modelled	Wet Weather Response	
6/10/19 10:46	Wet	0.90	8.30	2.70	Modelled	Wet Weather Response	
6/12/19 23:01	Wet	1.25	27.80	4.69	Modelled	Wet Weather Response	
6/15/19 16:42	Wet	1.55	23.70	2.77	Modelled	Wet Weather Response	
6/20/19 1:55	Wet	1.31	22.60	7.83	Modelled	Wet Weather Response	
6/24/19 16:00	Wet	0.52	8.20	7.76	Modelled	Wet Weather Response	
6/28/19 18:50	Wet	0.36	6.30	0.49	Modelled	Wet Weather Response	
7/2/19 20:55	Wet	0.39	17.80	0.50	Modelled	Wet Weather Response	
7/4/19 13:15	Wet	0.01	3.70	0.32	Modelled	Wet Weather Response	
7/5/19 13:03	Wet	0.01	4.10	0.45	Modelled	Wet Weather Response	
7/6/19 23:12	Wet	0.01	2.80	0.04	Modelled	Wet Weather Response	
7/11/19 13:00	Wet	0.03	5.60	2.15	Modelled	Wet Weather Response	
7/15/19 21:46	Wet	0.87	50.00	4.62	Modelled	Wet Weather Response	
7/20/19 6:15	Wet	0.14	24.50	0.16	Modelled	Wet Weather Response	
7/21/19 20:10	Wet	0.34	26.30	1.61	Modelled	Wet Weather Response	
7/30/19 0:06	Wet	0.66	26.50	1.20	Modelled	Wet Weather Response	
8/6/19 12:42	Wet	1.02	27.50	5.80	Modelled	Wet Weather Response	

CSO 232					Receiving Water: Shaw Brook		
Location:		S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl					
Treatment:		Floatables Control					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
8/13/19 4:16	Wet	0.01	4.30	0.04	Modelled	Wet Weather Response	
8/15/19 14:02	Wet	0.05	10.50	0.70	Modelled	Wet Weather Response	
8/17/19 13:05	Wet	0.92	50.80	3.07	Modelled	Wet Weather Response	
8/22/19 1:20	Wet	0.58	19.90	0.81	Modelled	Wet Weather Response	
8/27/19 14:14	Wet	0.26	13.80	0.18	Modelled	Wet Weather Response	
9/1/19 16:08	Wet	0.22	12.60	0.09	Modelled	Wet Weather Response	
9/11/19 14:20	Wet	0.93	27.30	1.34	Modelled	Wet Weather Response	
9/13/19 19:06	Wet	0.73	19.10	4.90	Modelled	Wet Weather Response	
9/16/19 1:55	Wet	0.11	8.00	0.02	Modelled	Wet Weather Response	
9/28/19 14:13	Wet	0.03	2.30	0.03	Modelled	Wet Weather Response	
10/2/19 15:17	Wet	0.47	23.90	0.27	Modelled	Wet Weather Response	
10/6/19 21:46	Wet	0.11	9.70	0.01	Modelled	Wet Weather Response	
10/12/19 1:11	Wet	0.47	18.70	0.42	Modelled	Wet Weather Response	
10/16/19 5:12	Wet	1.00	33.90	1.76	Modelled	Wet Weather Response	
10/21/19 23:50	Wet	0.10	12.70	0.01	Modelled	Wet Weather Response	
10/26/19 14:21	Wet	0.72	24.60	0.89	Modelled	Wet Weather Response	
10/30/19 15:23	Wet	1.62	51.40	3.11	Modelled	Wet Weather Response	
11/7/19 8:32	Wet	0.23	17.00	0.16	Modelled	Wet Weather Response	
11/11/19 13:28	Wet	0.66	27.20	0.83	Modelled	Wet Weather Response	
11/27/19 2:06	Wet	0.18	14.60	0.09	Modelled	Wet Weather Response	
12/1/19 5:10	Wet	0.66	44.10	1.00	Modelled	Wet Weather Response	
12/4/19 18:49	Wet	0.09	8.00	0.02	Modelled	Wet Weather Response	
12/9/19 9:21	Wet	0.44	22.60	0.44	Modelled	Wet Weather Response	

CSO 232					Receiving Water: Shaw Brook		
Location: S side of I-90, E of Eddy Rd. at Shaw Brook, Bratenahl							
Treatment: Floatables Control							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
12/14/19 6:05	Wet	0.52	22.60	0.73	Modelled	Wet Weather Response	
12/29/19 8:33	Wet	0.56	31.60	0.47	Modelled	Wet Weather Response	
12/31/19 9:35	Wet	0.56	8.60	0.03	Modelled	Wet Weather Response	
Totals		38.93	1174.80	101.79			

CSO 233					Receiving Water: Big Creek		
Location: W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 8:39	Wet	0.72	11.00	0.48	Modelled	Wet Weather Response	
1/19/19 15:36	Wet	0.59	9.90	0.15	Modelled	Wet Weather Response	
1/23/19 5:30	Wet	1.28	23.20	0.79	Modelled	Wet Weather Response	
2/6/19 6:45	Wet	0.33	5.90	0.07	Modelled	Wet Weather Response	
2/7/19 14:40	Wet	0.40	4.20	0.25	Modelled	Wet Weather Response	
2/10/19 19:15	Wet	0.16	1.50	0.03	Modelled	Wet Weather Response	
2/12/19 4:55	Wet	0.94	15.20	0.65	Modelled	Wet Weather Response	
2/20/19 18:25	Wet	0.33	2.40	0.17	Modelled	Wet Weather Response	
3/9/19 19:45	Wet	0.54	9.80	0.24	Modelled	Wet Weather Response	
3/14/19 17:45	Wet	0.48	2.50	0.39	Modelled	Wet Weather Response	
3/29/19 4:40	Wet	0.34	3.70	0.12	Modelled	Wet Weather Response	
3/30/19 10:05	Wet	1.35	15.60	1.05	Modelled	Wet Weather Response	
4/12/19 9:35	Wet	0.18	1.80	0.05	Modelled	Wet Weather Response	
4/14/19 7:00	Wet	0.63	22.40	0.25	Modelled	Wet Weather Response	

CSO 233					Receiving Water:		Big Creek
Location: W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/19/19 9:53	Wet	1.29	22.40	0.84	Modelled	Wet Weather Response	
4/23/19 9:35	Wet	0.12	1.00	0.03	Modelled	Wet Weather Response	
4/25/19 19:30	Wet	0.54	6.90	0.18	Modelled	Wet Weather Response	
4/28/19 0:15	Wet	0.41	3.90	0.14	Modelled	Wet Weather Response	
4/29/19 17:20	Wet	0.45	3.20	0.36	Modelled	Wet Weather Response	
4/30/19 13:20	Wet	0.12	1.20	0.02	Modelled	Wet Weather Response	
5/1/19 18:35	Wet	0.78	12.00	0.44	Modelled	Wet Weather Response	
5/3/19 1:00	Wet	0.31	1.70	0.12	Modelled	Wet Weather Response	
5/9/19 14:20	Wet	0.29	2.00	0.08	Modelled	Wet Weather Response	
5/12/19 1:30	Wet	0.31	2.80	0.15	Modelled	Wet Weather Response	
5/12/19 18:30	Wet	0.29	5.00	0.07	Modelled	Wet Weather Response	
5/19/19 18:20	Wet	0.15	1.30	0.05	Modelled	Wet Weather Response	
5/23/19 7:35	Wet	0.12	1.10	0.04	Modelled	Wet Weather Response	
5/26/19 16:56	Wet	0.23	1.60	0.03	Modelled	Wet Weather Response	
5/28/19 0:20	Wet	1.23	2.10	0.07	Modelled	Wet Weather Response	
5/28/19 18:00	Wet	1.23	4.70	1.01	Modelled	Wet Weather Response	
5/30/19 15:15	Wet	0.77	3.00	0.77	Modelled	Wet Weather Response	
6/1/19 21:01	Wet	0.58	6.00	0.42	Modelled	Wet Weather Response	
6/4/19 23:25	Wet	0.94	23.30	0.68	Modelled	Wet Weather Response	
6/10/19 11:10	Wet	0.77	7.00	0.66	Modelled	Wet Weather Response	
6/12/19 23:21	Wet	0.24	2.30	0.10	Modelled	Wet Weather Response	
6/13/19 13:40	Wet	1.14	10.80	1.13	Modelled	Wet Weather Response	
6/15/19 16:35	Wet	1.41	23.40	1.12	Modelled	Wet Weather Response	
6/20/19 3:20	Wet	1.54	20.00	1.22	Modelled	Wet Weather Response	

CSO 233						Receiving Water:	Big Creek
Location: W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
6/24/19 19:10	Wet	0.50	2.70	0.43	Modelled	Wet Weather Response	
7/2/19 21:45	Wet	0.24	2.00	0.12	Modelled	Wet Weather Response	
7/4/19 12:15	Wet	0.51	4.10	0.41	Modelled	Wet Weather Response	
7/15/19 20:20	Wet	0.30	1.60	0.24	Modelled	Wet Weather Response	
7/16/19 19:20	Wet	1.11	17.60	0.94	Modelled	Wet Weather Response	
7/20/19 5:25	Wet	0.18	1.40	0.10	Modelled	Wet Weather Response	
7/22/19 7:20	Wet	0.45	2.70	0.30	Modelled	Wet Weather Response	
8/6/19 12:20	Wet	1.19	12.90	1.06	Modelled	Wet Weather Response	
8/15/19 13:25	Wet	0.36	2.40	0.27	Modelled	Wet Weather Response	
8/17/19 13:40	Wet	0.36	0.90	0.03	Modelled	Wet Weather Response	
8/18/19 5:15	Wet	0.88	1.90	0.40	Modelled	Wet Weather Response	
8/18/19 23:15	Wet	0.88	3.00	0.37	Modelled	Wet Weather Response	
8/22/19 1:40	Wet	0.34	5.90	0.12	Modelled	Wet Weather Response	
9/1/19 16:36	Wet	0.21	2.00	0.07	Modelled	Wet Weather Response	
9/11/19 13:20	Wet	0.71	11.70	0.47	Modelled	Wet Weather Response	
9/13/19 19:05	Wet	1.44	3.30	1.97	Modelled	Wet Weather Response	
10/2/19 15:30	Wet	0.31	4.10	0.13	Modelled	Wet Weather Response	
10/12/19 3:15	Wet	0.26	2.20	0.09	Modelled	Wet Weather Response	
10/16/19 5:15	Wet	0.97	20.20	0.72	Modelled	Wet Weather Response	
10/26/19 15:10	Wet	0.65	11.40	0.29	Modelled	Wet Weather Response	
10/30/19 15:35	Wet	1.65	38.10	1.09	Modelled	Wet Weather Response	
11/7/19 9:20	Wet	0.27	3.20	0.03	Modelled	Wet Weather Response	
11/11/19 13:25	Wet	0.76	14.10	0.36	Modelled	Wet Weather Response	
11/27/19 2:56	Wet	0.17	1.30	0.01	Modelled	Wet Weather Response	

CSO 233					Receiving Water:		Big Creek
Location:		W 150th St., S of Industrial Pkwy., under bridge over Big Creek, Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		N/A					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
12/1/19 15:35	Wet	0.58	2.30	0.14	Modelled	Wet Weather Response	
12/2/19 9:45	Wet	0.58	1.40	0.02	Modelled	Wet Weather Response	
12/9/19 10:20	Wet	0.44	7.10	0.12	Modelled	Wet Weather Response	
12/14/19 5:50	Wet	0.43	4.70	0.28	Modelled	Wet Weather Response	
12/29/19 9:31	Wet	0.53	15.70	0.16	Modelled	Wet Weather Response	
Totals		40.79	499.70	25.16			

CSO 234					Receiving Water:		Doan Brook
Location:		Doan Brook between Martin Luther King Blvd. & E 105th St. (E side of culvert), Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		City of Cleveland: Rockefeller Park					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/8/19 9:15	Wet	0.84	10.20	0.63	Modelled	Wet Weather Response	
1/23/19 6:45	Wet	1.30	18.40	0.89	Modelled	Wet Weather Response	
2/7/19 15:30	Wet	0.45	2.80	0.22	Modelled	Wet Weather Response	
2/12/19 5:45	Wet	0.99	14.10	0.71	Modelled	Wet Weather Response	
2/20/19 19:05	Wet	0.34	1.30	0.09	Modelled	Wet Weather Response	
3/9/19 21:30	Wet	0.63	1.70	0.10	Modelled	Wet Weather Response	
3/14/19 18:15	Wet	0.46	1.70	0.44	Modelled	Wet Weather Response	
3/30/19 15:40	Wet	1.28	9.90	1.34	Modelled	Wet Weather Response	
4/14/19 17:45	Wet	0.66	1.00	0.12	Modelled	Wet Weather Response	
4/19/19 15:15	Wet	1.37	16.40	1.22	Modelled	Wet Weather Response	
4/26/19 0:35	Wet	0.73	1.40	0.16	Modelled	Wet Weather Response	
4/28/19 1:35	Wet	0.41	1.00	0.03	Modelled	Wet Weather Response	

CSO 234						Receiving Water:	Doan Brook
Location: Doan Brook between Martin Luther King Blvd. & E 105th St. (E side of culvert), Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/29/19 17:35	Wet	0.50	2.80	0.50	Modelled	Wet Weather Response	
5/1/19 19:05	Wet	0.91	11.20	0.57	Modelled	Wet Weather Response	
5/3/19 1:35	Wet	0.30	0.90	0.11	Modelled	Wet Weather Response	
5/26/19 15:30	Wet	0.50	2.70	0.33	Modelled	Wet Weather Response	
5/28/19 18:15	Wet	0.69	2.70	1.03	Modelled	Wet Weather Response	
5/30/19 15:50	Wet	0.53	2.50	0.78	Modelled	Wet Weather Response	
6/2/19 0:35	Wet	0.50	2.10	0.39	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	1.48	14.70	1.87	Modelled	Wet Weather Response	
6/10/19 11:40	Wet	0.90	4.10	1.29	Modelled	Wet Weather Response	
6/12/19 23:55	Wet	1.25	0.80	0.02	Modelled	Wet Weather Response	
6/13/19 14:30	Wet	1.25	11.00	1.41	Modelled	Wet Weather Response	
6/16/19 0:25	Wet	1.55	16.10	1.72	Modelled	Wet Weather Response	
6/20/19 4:05	Wet	1.31	14.40	1.74	Modelled	Wet Weather Response	
6/24/19 17:35	Wet	0.52	4.50	0.75	Modelled	Wet Weather Response	
6/28/19 18:25	Wet	0.36	1.40	0.32	Modelled	Wet Weather Response	
7/2/19 21:55	Wet	0.39	2.00	0.39	Modelled	Wet Weather Response	
7/16/19 19:35	Wet	0.87	16.90	0.84	Modelled	Wet Weather Response	
7/22/19 8:40	Wet	0.34	0.90	0.05	Modelled	Wet Weather Response	
7/30/19 9:00	Wet	0.66	2.00	0.70	Modelled	Wet Weather Response	
8/6/19 12:40	Wet	1.02	7.20	1.16	Modelled	Wet Weather Response	
8/18/19 5:25	Wet	0.92	19.90	0.81	Modelled	Wet Weather Response	
8/22/19 1:55	Wet	0.58	4.90	0.20	Modelled	Wet Weather Response	
9/11/19 13:40	Wet	0.93	11.30	0.73	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	0.73	3.80	1.43	Modelled	Wet Weather Response	

CSO 234						Receiving Water:	Doan Brook
Location: Doan Brook between Martin Luther King Blvd. & E 105th St. (E side of culvert), Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Rockefeller Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
10/2/19 17:55	Wet	0.47	1.30	0.02	Modelled	Wet Weather Response	
10/12/19 3:25	Wet	0.47	1.40	0.14	Modelled	Wet Weather Response	
10/16/19 6:15	Wet	1.00	13.00	0.72	Modelled	Wet Weather Response	
10/26/19 15:36	Wet	0.72	1.10	0.13	Modelled	Wet Weather Response	
10/31/19 9:10	Wet	1.62	20.20	1.25	Modelled	Wet Weather Response	
11/11/19 14:26	Wet	0.66	5.80	0.07	Modelled	Wet Weather Response	
12/1/19 16:05	Wet	0.66	1.70	0.25	Modelled	Wet Weather Response	
12/14/19 8:25	Wet	0.52	2.10	0.11	Modelled	Wet Weather Response	
Totals		34.57	287.30	27.78			

CSO 238						Receiving Water:	Rocky River
Location: N side of apartment parking lot at Rocky River Rd. & Fairway Ave., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:25	Wet	1.23	0.80	0.05	Modelled	Wet Weather Response	
9/13/19 19:15	Wet	1.44	1.90	0.70	Modelled	Wet Weather Response	
Totals		2.67	2.70	0.75			

CSO 239						Receiving Water:	Euclid Creek
Location: E shore of Euclid Creek at Lakeshore Blvd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Euclid Creek Reservation (includes Wildwood Park, Wildwood Marina, Villa Angela Beach and Euclid Beach)							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Monitored		
Totals		0.00	0.00	0.00			

CSO 240						Receiving Water:	Cuyahoga River
Location: Jefferson Ave., E of W 3rd St., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/4/19 11:00	Dry	0.00	1.50	0.01	Modelled	Grit/sand	
4/20/19 5:09	Wet	1.73	2.20	0.02	Modelled	Wet Weather Response	
5/28/19 18:00	Wet	1.81	2.10	0.19	Modelled	Wet Weather Response	
5/30/19 14:17	Wet	1.04	3.30	0.04	Modelled	Wet Weather Response	
6/13/19 13:27	Wet	1.13	10.90	0.02	Modelled	Wet Weather Response	
6/16/19 0:02	Wet	1.53	14.10	0.03	Modelled	Wet Weather Response	
6/20/19 8:10	Wet	1.70	8.90	0.01	Modelled	Wet Weather Response	
7/4/19 12:12	Wet	1.39	3.80	0.10	Modelled	Wet Weather Response	
8/9/19 9:00	Dry	0.00	2.50	0.01	Modelled	Grit/sand	
9/13/19 19:05	Wet	1.21	2.20	0.07	Modelled	Wet Weather Response	
Totals		11.54	51.50	0.51			

CSO 241					Receiving Water: Big Creek		
Location: I-71 under Eaton Corp. sign, Brooklyn							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:50	Wet	0.70	0.40	0.13	Modelled	Wet Weather Response	
Totals		0.70	0.40	0.13			

CSO 242					Receiving Water:		Lake Erie
Location:		E 142nd St. & Lakeshore Blvd., Cleveland					
Treatment:		None					
Potentially Impacted Public Access Area:		Northeast Yacht Club					
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
4/14/19 18:55	Wet	0.61	2.17	0.67	Monitored	Wet Weather Response	
5/3/19 3:00	Wet	0.45	20.75	5.59	Monitored	Wet Weather Response	
5/4/19 0:00	Wet	0.02	23.58	2.76	Monitored	Wet Weather Response	
5/5/19 0:00	Wet	0.00	11.50	0.23	Monitored	Wet Weather Response	
5/30/19 18:15	Wet	0.56	2.50	0.57	Monitored	Wet Weather Response	
6/5/19 22:40	Wet	1.43	1.33	0.40	Monitored	Wet Weather Response	
6/6/19 0:00	Wet	0.00	5.42	0.43	Monitored	Wet Weather Response	
6/10/19 14:00	Wet	1.14	5.58	1.69	Monitored	Wet Weather Response	
7/20/19 6:50	Wet	0.91	4.42	4.95	Monitored	Wet Weather Response	
8/18/19 16:45	Wet	0.56	6.67	0.93	Monitored	Wet Weather Response	
9/12/19 0:55	Wet	0.43	17.75	2.61	Monitored	Wet Weather Response	
9/13/19 20:55	Wet	0.53	3.08	1.07	Monitored	Wet Weather Response	
9/14/19 0:00	Wet	0.00	2.67	0.64	Monitored	Wet Weather Response	
Totals		6.64	107.42	22.54			

CSO 243						Receiving Water:	Mill Creek
Location: In ravine, W of Warner Rd., S of Garfield Rd., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:10	Wet	1.57	0.90	0.03	Modelled	Wet Weather Response	
5/30/19 16:15	Wet	1.34	0.80	0.02	Modelled	Wet Weather Response	
6/5/19 8:20	Wet	1.94	0.70	0.01	Modelled	Wet Weather Response	
7/4/19 11:45	Wet	1.65	1.30	0.02	Modelled	Wet Weather Response	
9/13/19 19:10	Wet	1.47	1.00	0.03	Modelled	Wet Weather Response	
Totals		7.97	4.70	0.11			

CSO 245						Receiving Water:	Wolf Creek
Location: Edgepark Dr. at E 117 St. (North), Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 246						Receiving Water:	Mill Creek
Location: Broadway Ave. at Mill Creek, E wall of bridge, Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 247						Receiving Water:	Mill Creek
Location: East Blvd. at Cranwood Creek, N of Thornhurst Ave., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/13/19 19:15	Wet	0.93	1.00	0.04	Modelled	Wet Weather Response	
Totals		0.93	1.00	0.04			

CSO 249						Receiving Water:	Wolf Creek
Location: 450 feet E of E 119th St. & 250 feet N of McCracken Rd., Garfield Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Garfield Park Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
Modelling Data Not Available					Modelled		Not all associated regulators tributary to CSO 249 are represented in the Mill Creek collection system model.
Totals		0.00	0.00	0.00			

CSO 250						Receiving Water:	Cuyahoga River
Location: Along Cuyahoga River, 370 feet S of Canal Rd., E side of I-77 bridge, Cuyahoga Heights							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Towpath Trail							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 252						Receiving Water:	Ohio Canal
Location: Between E 71st St. & I-77, S of building at 4620 E 71st St., Cuyahoga Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 18:20	Wet	1.57	1.20	0.29	Modelled	Wet Weather Response	
5/30/19 16:25	Wet	1.34	1.00	0.17	Modelled	Wet Weather Response	
6/5/19 8:45	Wet	1.94	0.50	0.02	Modelled	Wet Weather Response	
7/4/19 12:10	Wet	1.65	2.00	0.28	Modelled	Wet Weather Response	
9/13/19 19:30	Wet	1.47	1.60	0.22	Modelled	Wet Weather Response	
Totals		7.97	6.30	0.98			

CSO 254						Receiving Water:	Rocky River
Location: Sunset & Metropolitan, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: Cleveland Metroparks: Rocky River Reservation							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
Modelling Data Not Available					Modelled		Associated regulators and CSO 254 tributary area are not represented in the Big Creek collection system model.
Totals		0.00	0.00	0.00			

CSO 255					Receiving Water: Big Creek		
Location: Cooley Ave. relief under bridge, E of Bellaire & Kensington, Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
3/14/19 18:55	Wet	0.48	0.70	0.05	Modelled	Wet Weather Response	
5/28/19 18:30	Wet	1.23	1.30	0.66	Modelled	Wet Weather Response	
5/30/19 16:05	Wet	0.77	1.60	0.37	Modelled	Wet Weather Response	
6/5/19 9:01	Wet	0.94	0.60	0.04	Modelled	Wet Weather Response	
6/10/19 13:40	Wet	0.77	0.80	0.03	Modelled	Wet Weather Response	
6/13/19 21:35	Wet	1.14	2.00	0.52	Modelled	Wet Weather Response	
6/16/19 0:55	Wet	1.41	0.80	0.06	Modelled	Wet Weather Response	
6/20/19 4:50	Wet	1.54	0.90	0.08	Modelled	Wet Weather Response	
7/17/19 3:00	Wet	1.11	0.70	0.04	Modelled	Wet Weather Response	
8/6/19 15:05	Wet	1.19	0.50	0.01	Modelled	Wet Weather Response	
8/18/19 5:55	Wet	0.88	0.70	0.10	Modelled	Wet Weather Response	
8/19/19 0:01	Wet	0.88	0.60	0.03	Modelled	Wet Weather Response	
9/13/19 19:25	Wet	1.44	2.20	2.06	Modelled	Wet Weather Response	
Totals		13.78	13.40	4.05			

CSO 256					Receiving Water: Green Creek		
Location: 2053 Green Rd., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
9/11/19 16:45	Wet	1.67	7.50	0.03	Modelled	Wet Weather Response	
Totals		1.67	7.50	0.03			

CSO 257						Receiving Water:	Spring Creek
Location: Jennings Rd. near Georgette Ln., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
No Discharge					Modelled		
Totals		0.00	0.00	0.00			

CSO 258						Receiving Water:	Mill Creek
Location: Mill Creek Tunnel Silo, Cuyahoga Heights							
Treatment: None							
Potentially Impacted Public Access Area: N/A							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
1/23/19 20:55	Wet	1.11	3.08	1.58	Monitored	Wet Weather Response	
1/24/19 0:00	Wet	0.22	2.42	3.71	Monitored	Wet Weather Response	
6/20/19 9:10	Wet	2.13	4.83	5.06	Monitored	Wet Weather Response	
Totals		3.46	10.33	10.35			

CSO SAPS						Receiving Water:	Cuyahoga River
Location: 425' SW of Intersection of Superior Ave. & Robert Lockwood Jr. Dr., Cleveland							
Treatment: None							
Potentially Impacted Public Access Area: City of Cleveland: Settler's Landing Park							
CSO Event Date	Dry or Wet Weather	Estimated Rainfall Total (in)	Event Duration (hr)	Overflow Volume (MG)	Site Modelled or Monitored	Cause	Comments
5/28/19 19:10	Wet	1.81	0.30	0.02	Modelled	Wet Weather Response	
Totals		1.81	0.30	0.02			