City of Richmond, Virginia
Department of Public Utilities
Integrated CSS and MS4
2025 Annual Report

March 31, 2026

1. **Tour of Wastewater Plant with Boushall Middle School Students, 2025**
2. **Tour of Shockoe Retention Basin with Camp DPU participants, August 2025**
3. **Tour of Wastewater Plant with Citizen's Academy, October 2025**

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List of Abbreviations

CSS	combined sewer system
DPU	Department of Public Utilities
DWF	dry weather flow
DWO	dry weather overflow
I/I	inflow and infiltration
MG	million gallons
MGD	million gallons per day
MS4	Municipal Separate Storm Sewer System
NMC	nine minimum controls
SCM	six minimum controls
WWTP	Richmond Wastewater Treatment Plant

Section 1

General Information

Permittee Name

City of Richmond

System Name

City of Richmond, Department of Public Utilities (DPU)

Richmond Wastewater Treatment Plant (WWTP), Richmond Combined Sewer System (CSS) and Richmond Municipal Separate Storm Sewer System (MS4)

Virginia Pollutant Discharge Elimination System (VDPES) Permit No.

VA0063177

Reporting Period

January 1, 2025, through December 31, 2025

Certification Statement

"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 fine and imprisonment for knowing violations."

3-30-26

Jeffrey T. McBride, P.E. - Director of Water and Administration Date

Section 2

Combined Sewer System (CSS)

The metered results of the volume and number of overflows for each combined sewer overflow (CSO) outfall based on the measured storm event data for the 2025 reporting period are presented in Tables 2-1 and 2-2 below, respectively. A map of the CSS outfalls is presented in Appendix A.

Table 2-1. Metered Overflow Volume (MG)

CSO Outfall	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total FY25
04	0.08	7	2.1	0.7	2.5	0.87	4.4	0	2.2	1.3	0.19	0.1	21.4
05	0.92	47	10	16	23	7.1	68	0.71	5.2	0	0.06	8.2	186.2
06	23	667	181	250	317	210	942	28	116	0.04	10	85	2,829
07	0	0	0.18	0	0.03	0.1	0.29	0	0.12	0	0	0	0.7
09	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0.99	0	0	0	0	0	1
11	0	3.6	1.5	0.2	2.6	1.2	3.6	0.16	1.6	0	0.33	0.27	15.1
12	0	0	0.26	0	0	0.09	1.5	0	0.14	0	0	0	2
14	0	116	1.7	0.14	2.9	0.19	7.9	0	3	0	0.16	0.02	132
15	0.06	0.02	0.98	0	0.4	0	7.9	0	1.3	0	0.13	0.37	11.2
16	0	0	0	0	0	0.07	0	0	0	0	0	0	0.1
17	0	3.9	2.5	0	0	0	0.97	0	0	0	0	0	7.4
18	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0.73	119	1.4	15	20	7.8	76	1.4	7.5	0	0.62	3.4	252.9
24	0	20	14	0.19	16	4	58	3.4	20	0	6	8.8	150.4
25	0	0	0	0	0	0.07	0.79	0	0	0	0	0	0.9
26	0	0	2.1	0	0.09	0.13	4.7	0.01	0.96	0	0.71	0	8.7
31	0	0	6.4	0	0.93	1.5	8.7	0	0.7	0	0.64	0	18.9
33	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0.01	0.4	2	0.13	1.3	1.6	5.3	0.13	0.78	0	0.62	0.16	12.4
35	0.1	0.72	0.03	0.16	0.65	0.39	1.2	0.07	0.45	0.02	0.03	0.22	4
39	0	0	2	0	0.03	0.21	2.5	0	0	0	0.24	0.04	5
40	1.1	5.16	8.47	2.8	3.5	0.03	0.07	0	1.6	0	0.68	1	24.4

Table 2-2. Metered Number of Overflow Occurrences													
CSO Outfall	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total FY25
04	2	2	3	3	4	4	4	0	3	2	3	2	32
05	1	3	3	1	4	2	3	1	3	0	1	2	24
06	2	3	4	2	5	3	4	3	3	1	1	2	33
07	0	0	1	0	2	2	3	0	1	0	0	0	9
09	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	3	0	0	0	0	0	3
11	0	2	2	2	5	3	3	1	4	0	3	1	26
12	0	0	1	0	0	1	2	0	1	0	0	0	5
14	0	2	2	2	4	2	4	0	3	0	3	1	23
15	2	1	1	0	3	0	3	0	3	0	3	2	18
16	0	0	0	0	0	1	0	0	0	0	0	0	1
17	0	1	1	0	0	0	1	0	0	0	0	0	3
18	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0
21	1	3	2	2	3	2	3	1	3	0	1	2	23
24	0	2	2	1	4	2	4	1	4	0	3	2	25
25	0	0	0	0	0	1	3	0	0	0	0	0	4
26	0	0	1	0	1	1	2	1	2	0	3	0	11
31	0	0	1	0	1	2	4	0	2	0	2	0	12
33	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1	2	3	3	5	4	5	2	4	0	3	1	33
35	2	2	1	3	5	3	4	2	4	1	1	2	30
39	0	0	1	0	1	2	4	0	0	0	3	1	12
40	2	3	3	3	5	2	1	0	1	0	3	2	25

Section 3

CSS and MS4 Nine Minimum Controls (NMC) and Six Minimum Controls (MCM)

3.1 Operation and Maintenance of the CSS (NMC 1)

3.1.1 Inspection and Maintenance of CSS Control Structures and Pump Stations

The City follows a regular schedule for inspection and maintenance of regulators, CSO outfalls, and pump stations. The schedule of performance of the City's Operation and Maintenance (O&M) program is summarized in Tables 3-1 and 3-2 below. Equipment inspection, screen cleaning, and debris removal are part of the regular activities.

Table 3-1. CSS Control Structure O&M Program

CSO Control Structures	Inspection Interval	Maintenance	
		Interval	Type
Dry Weather Regulators (29) Wet Weather Regulators (10)	Monthly	Monthly	Preventative Maintenance
CSO Outfalls (25)	Monthly	Monthly	Preventative Maintenance

Table 3-2. CSS Pump Station O&M Program

Pump Station	Capacity (MGD)		Estimated Dry Weather Peak (MGD)	Inspection/ Maintenance Interval
	Firm	Installed		
Douglasdale	7.5	13.0	2.2	Daily
Hampton/McCloy	0.9	1.7	0.4	Daily
Upham Brook	8.6	13.0	0.3	Daily

If major repairs are deemed necessary at the inspection, a work order is initiated, and the repairs are scheduled.

3.1.2 Sewer Flushing and Cleaning

The City follows a regular schedule for routine sewer line flushing and cleaning. Maintenance activities performed on the collection system during the 2025 reporting period are summarized in Table 3-3 below.

Table 3-3. Sewer System Maintenance Activities

Activity	Interval	Quantity
Sewer Cleaning	Annually	21.4 miles
CCTV Inspection	Annually	22.5 miles

3.1.3 Catch Basin Cleaning

The City follows a regular schedule for routine catch basin cleaning. The City cleaned 2,827 catch basins throughout the CSS during the 2025 reporting period.

3.2 Use of Collection System for Storage (NMC 2)

3.2.1 Information Regarding Storage at Shockoe Retention Basin and Hampton/McCloy Tunnel

Storage is provided in the Shockoe and Hampton/McCloy CSO areas through existing retention facilities.

- The Shockoe facilities serve about 8,000 acres of the CSS and comprise a 35-million-gallon (MG) retention basin with upstream in-line storage of approximately 15 MG in diversion structures and arch and box sewers.
- The Hampton/McCloy tunnel serves about 1,012 acres of the CSS and comprises a 7.2 MG retention tunnel.

3.2.2 Sewer Re-lining Activities to Reduce Inflow and Infiltration (I/I)

The City implements a sewer lining program annually to reduce I/I. The City lined 8.3 miles of sewer during the 2025 reporting period.

3.2.3 Operation of WWTP Influent Pumping to Fill Intercepting System

During wet weather events, the Main Pumping Station operates up to 140 million gallons per day (MGD) to maximize flow to the WWTP. The Main Pumping Station is operated ahead of anticipated wet weather events to lower the hydraulic grade line in the collection system to create additional storage capacity in the interceptor system. As the wet weather event begins, the Main Pumping Station's flowrate is increased above 75-MGD at a lower elevation to maximize flow through the WWTP, before the interceptor inline storage is utilized. As the wet weather continues, combined sewage is stored in the interceptor system before overflows occur.

Portions of the intercepting sewers that convey flow to the WWTP are located at elevations below the lowest CSO outfall overflow elevation. Most of these low-lying intercepting sewers are in the Shockoe CSO drainage area where the lowest overflow elevation is 1.00 feet. Table 3-4 below summarizes the intercepting sewers below the lowest CSO overflow elevation and the corresponding estimated storage capacity.

Table 3-4. Intercepting Sewers Below Lowest CSO Overflow Elevation			
Intercepting Sewer	Diameter (inches)	Length Below (El + 1.00 feet)	Storage Capacity (MG)
Lower Goodes Creek	72	10,905	2.61
Twin River Crossings	66	1,100	0.39
Hull Street	60	2,700	0.40
Shockoe	96	2,700	1.02
Gillies Creek	60	2,500	0.37
Northside CSO Conveyance (1)	96, 84, 60	2,850	0.89
		Total	5.68
(1) Northside CSO Conveyance stores CSS to an elevation of 16.0 feet			

3.2.4 Tide Gate Inspections

The City routinely inspects and makes necessary repairs to tide gates to reduce tidal intrusion into the collection system. The City follows a regular schedule for inspection and maintenance of tide gates. The schedule of performance of the City's O&M program is summarized in Table 3-5 below. Equipment inspection, and debris removal are part of the regular activities.

Table 3-5. Tide Gate O&M Program			
Gates	Inspection Interval	Maintenance	
		Interval	Type
CSO 04 (Bloody Run) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 05 (Peach Street) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 06 (Shockoe) Tide Gates (6)	Monthly	Monthly	Preventative Maintenance
CSO 14 (Stockton Street) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 15 (Canoe Run) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 16 (Woodland Heights) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 17 (Reedy Creek) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 18 (42nd Street) Tide Gate	Monthly	Monthly	Preventative Maintenance
CSO 19 (Hampton) Flap Gate (2)	Monthly	Monthly	Preventative Maintenance
CSO 20 (McCloy) Flap Gate (3)	Monthly	Monthly	Preventative Maintenance
CSO 21 (Gordon Avenue) Tide Gate	Monthly	Monthly	Preventative / Corrective Maintenance

3.2.5 Use of Public and Private Stormwater Facilities in the CSS Area

Local retention facilities provide additional stormwater storage in the CSS area. Examples of these types of facilities are shown in Table 3-6 below.

Table 3-6. Local Stormwater Retention Facilities in the CSS Area

Site	Location	Owner
Brander St. Pump Station Holding Pond	Brander St.	City
Gordon Ave. Pump Station Holding Pond	Gordon Ave.	City
DPU Operations Parking Lot	Commerce Rd.	City
Sonoco Products Company	Commerce Rd.	Private (1)
BP Products North America	Commerce Rd.	Private (1)
Citgo Petroleum Corporation	Maury St.	Private (1)
First Energy Corporation	Maury St.	Private (1)
Magellan Terminals Holdings, L.P. Richmond Terminal	East First St.	Private (1)
Transmontaigne Terminal	Commerce Rd.	Private (1)
(1) Industry that retains stormwater on-site during wet weather events and control releases to permit limits at the WWTP		

3.2.6 Use of Real Time Decision Support System to Manage Flows During CSO Events

DPU utilizes 99 depth sensors, 55 flow meters, and 13 rain gauges (shown below in Figure 3-1) to monitor the collection system.

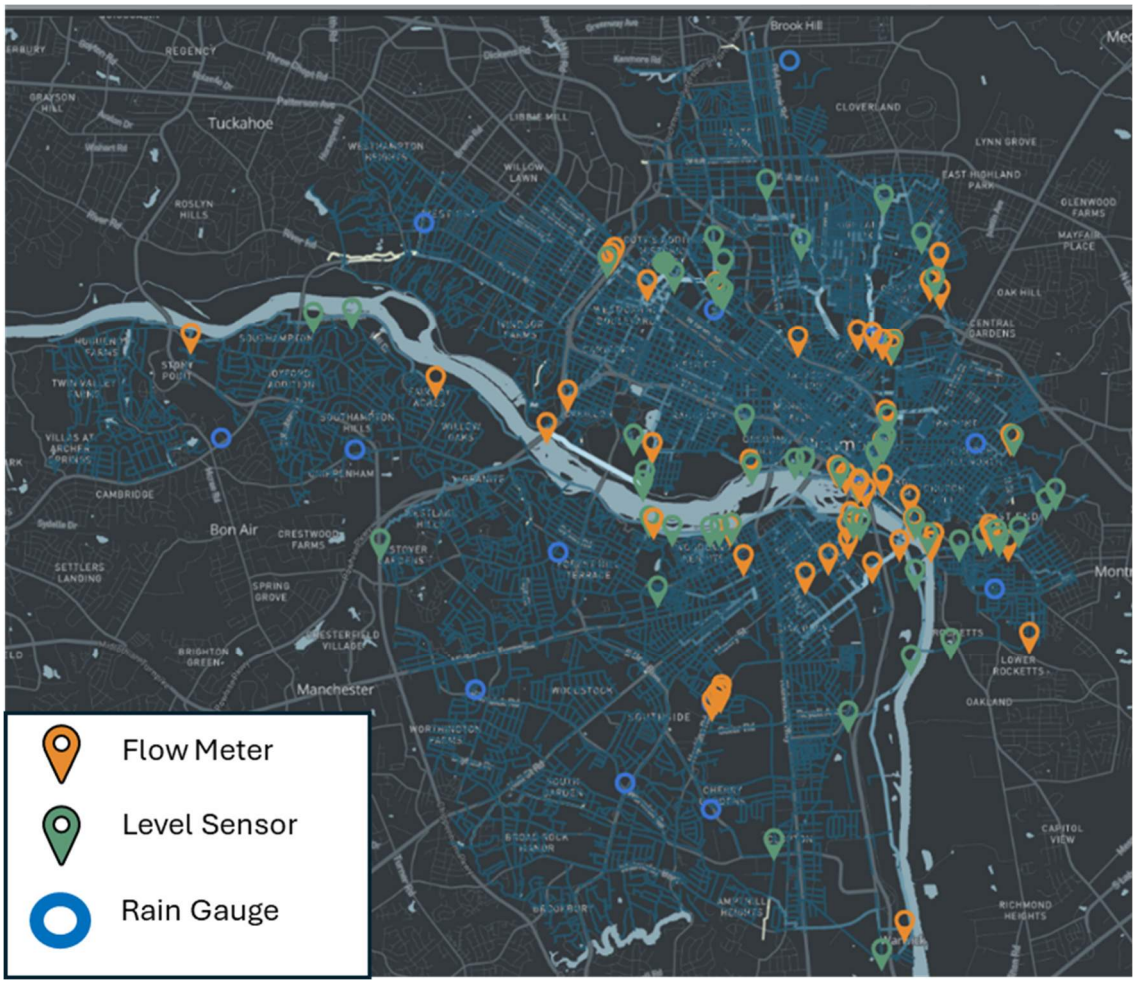


Figure 3-1: Collection System Monitoring System

The collected data is also utilized in the *Richmond CSO Map Notification*, which is available to the public, that displays outfalls that are currently overflowing or have overflowed in the past 48 hours.

https://apps.emnet.net/richmond-pub-map-app/?city=47&config=5c0cacee-7e95-4eea-922d-c736c83eb4b9

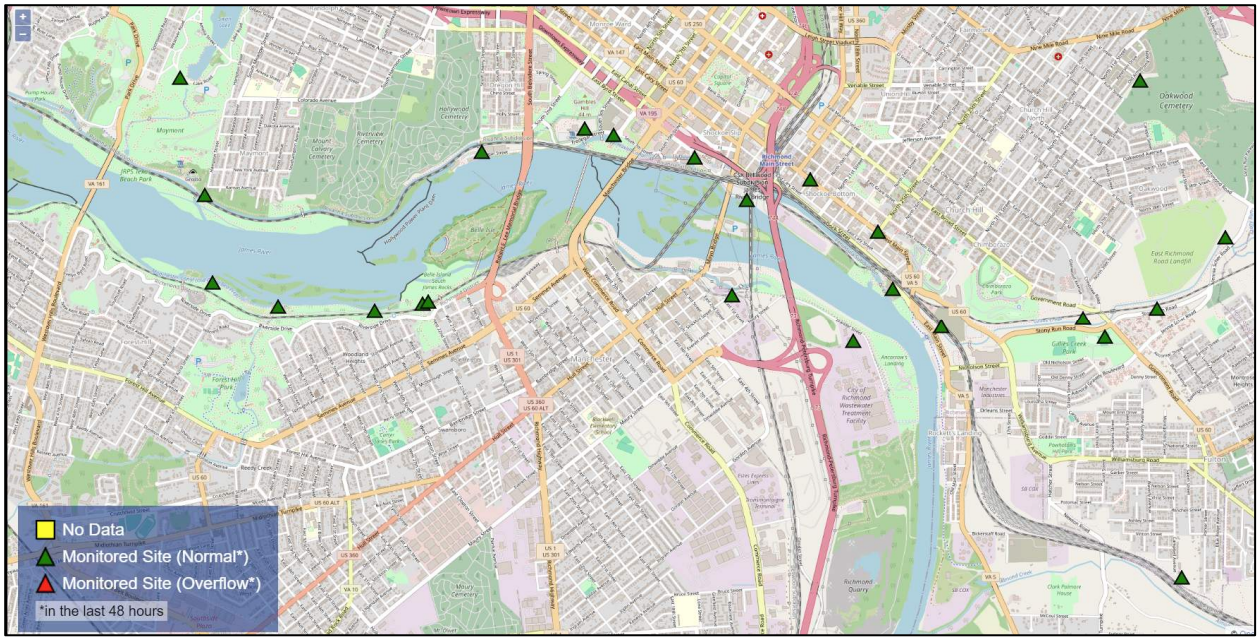


Figure 3-2: Richmond CSO Notification Map

3.3 Review of Pretreatment Program (NMC 3)

3.3.1 Changes or Use of Pretreatment Program Authority to Minimize Flows During CSO Events

The City administers an industrial pretreatment program as required by the VPDES permit. Industries discharging to the CSS retain stormwater on-site during wet weather events and control releases to permit limits at the WWTP. Information on individual industries which utilize retention facilities is summarized in Section 3.2.5 – Use of Public and Private Stormwater Facilities in the CSS Area. Each industry is issued an Industrial User Permit which includes a section on Discharge of Stormwater.

No modifications were made to the Industrial User Permits over the 2025 year, and no additional changes have been made to minimize flow during a CSO event.

3.4 Maximize Flow to the WWTP for Treatment (NMC 4)

3.4.1 Operation of WWTP During Precipitation Events to Show Maximization of Treatment of Wet Weather Flows

The City maximizes flow to the WWTP during wet weather events by performing the following actions:

- Influent flow at the WWTP is increased to 140 MGD in wet weather conditions (see Figure 3-4).
- Flows up to 140 MGD are treated at the WWTP to permit limits.
    - 75 MGD receives full treatment and disinfection (Primary, Secondary, Tertiary and UV Disinfection)
    - 65 MGD receives primary treatment and UV disinfection (Primary and UV Disinfection)

- Combined sewage is stored in the Shockoe Retention Basin (see Figure 3-5), Hampton/McCloy Tunnel (see Figure 3-6) and the collection system prior to overflow.
- The Shockoe Retention Basin and Hampton/McCloy Tunnel are drained as soon as possible once overflow conditions are concluded. During the draining process the WWTP continues to operate at 75 MGD.
- During 2025, 760 million gallons of combined storm and wastewater were treated with primary treatment and UV disinfection during wet weather events and discharged from outfall 102. This reduced overall combined sewer discharges from the system. Since 2020, the wet weather treatment has treated 4.4 billion gallons of combined flow.
- Daily flow totals through Outfalls 101 and 102 are included in Appendix B.

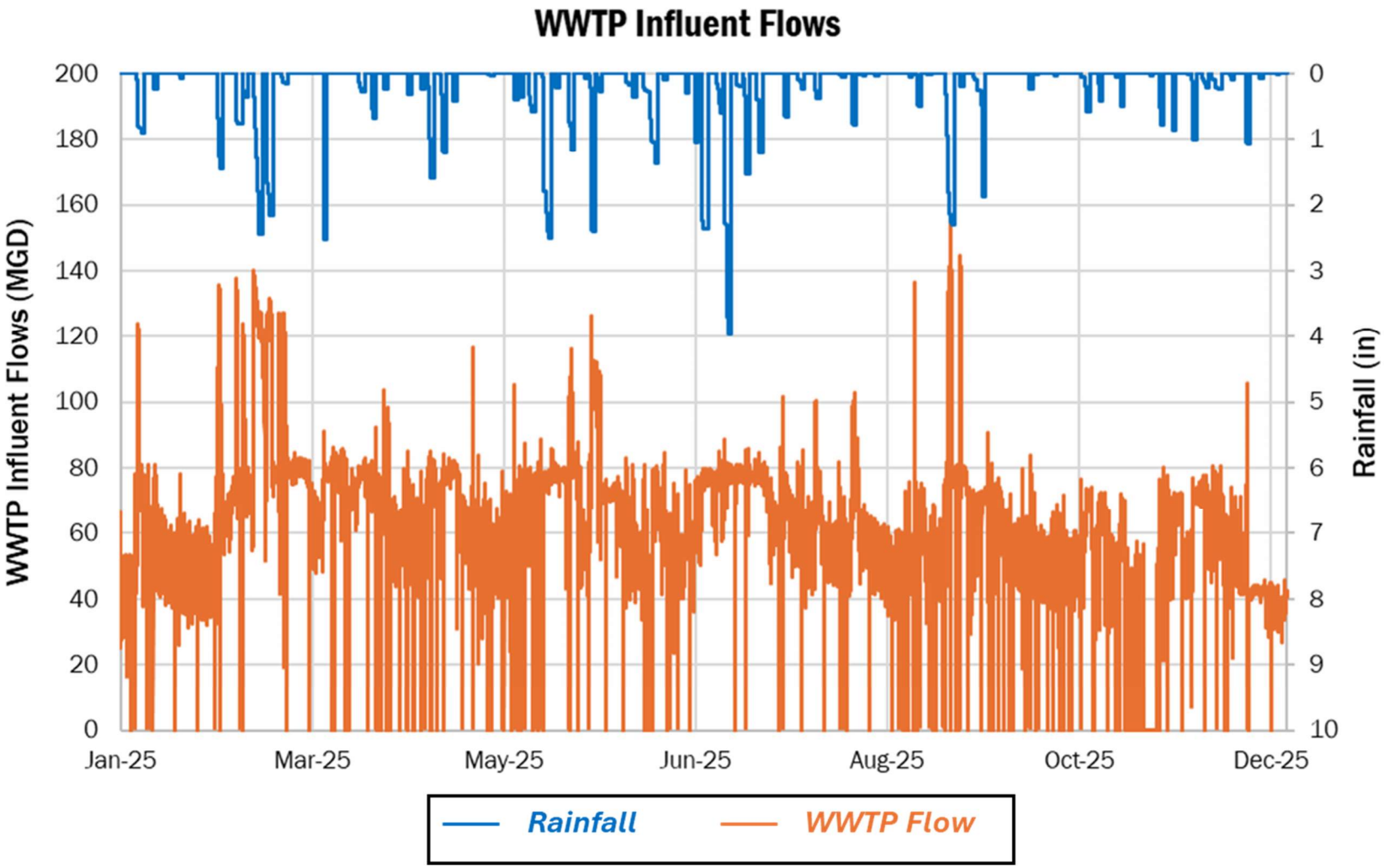


Figure 3-3: WWTP Influent Flows

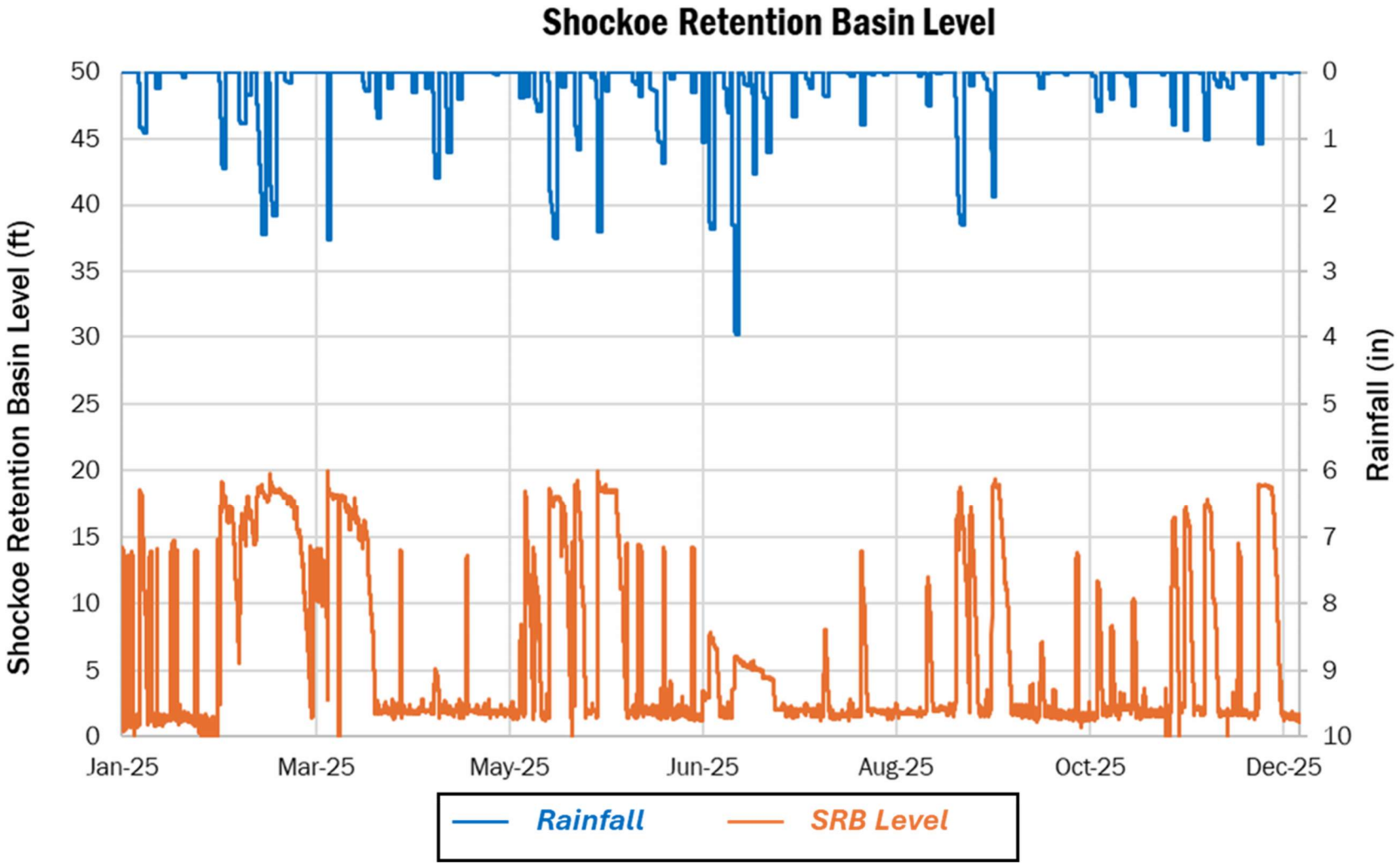


Figure 3-4: Shockoe Retention Basin Levels

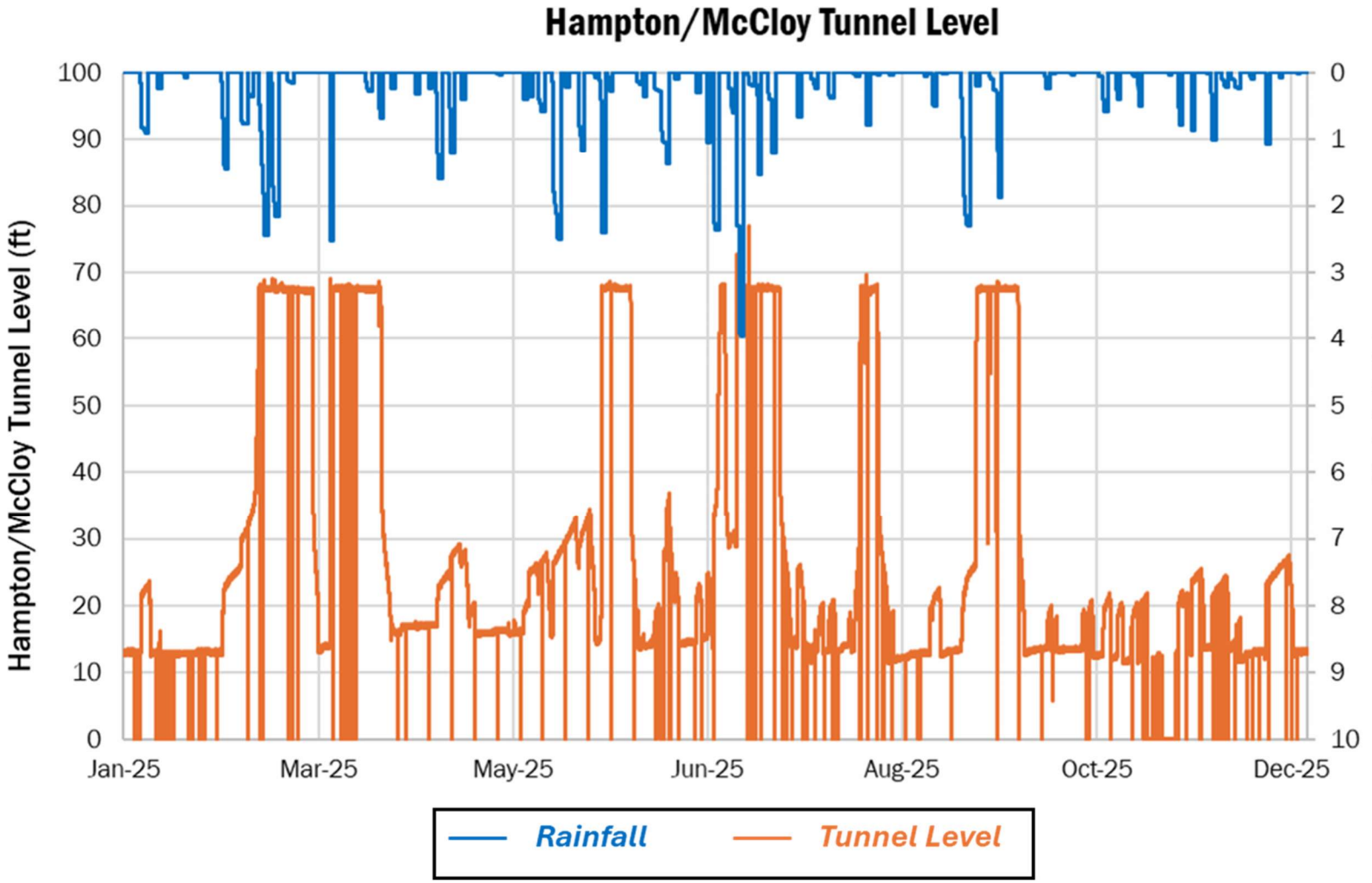


Figure 3-5: Hampton/McCloy Tunnel Levels

3.5 Eliminate Dry Weather Overflows (DWOs) (NMC 5)

3.5.1 Inspection and Maintenance of Diversion Facilities

The City regularly inspects and maintains CSS diversion facilities to prevent dry weather overflows, see Section 3.1.1. If a dry weather discharge occurs, the City maintains an "on call" team of maintenance personnel to respond to blockages or other occurrences that could result in dry weather discharges.

3.5.2 Monitoring of Pumping Stations for DWOs

The City inspects and maintains the pump stations daily to prevent dry weather overflows, see Section 3.1.1. If a dry weather discharge occurs, the City maintains an "on call" team of maintenance personnel to respond to blockages or other occurrences that could result in dry weather discharges.

3.5.3 Operation of the Shockoe Retention Basin

The Shockoe Retention Basin is continuously staffed. The basin is utilized to store combined sewage during wet weather conditions and is drained as soon as possible after overflow conditions have concluded. The 2025 operating levels of the Shockoe Retention Basin are shown in Section 3.4.1.

3.5.4 Reports of DWOs

All dry weather overflows are reported in accordance with the VPDES permit. Table 3-7 below summarizes each dry weather overflow event that occurred during the reporting period.

Table 3-7. Dry Weather Overflow Reports

Date of Incident	Location of Incident	Volume Discharged (gallons)	Event Description
2/18/25	111 Hull Street	200	Manhole overflow after a rain event. Manhole and adjacent sewer were surcharged.
7/8/25	3630 Branchwood Drive	100	Manhole overflow. Manhole and adjacent sewer were surcharged.
12/22/25	6228 Forest Hill Avenue	120	Manhole overflow. Manhole and adjacent sewer were surcharged.

3.6 Control Solid and Floatable Materials in the CSS (NMC 6)

3.6.1 Cleaning and Maintenance Related to Control of Solid and Floatable Materials

The City implements many programs and strategies to capture and remove solid and floatable material from CSS areas. Table 3-8 below summarizes the city-wide programs conducted during the reporting period.

Table 3-8. Solid and Floatable Material Capture Programs	
Program	Quantity
Litter Basket Collection	392 tons
Catch Basin Cleaning	2,827
Street Sweeping	4,710 tons

Additional strategies the City implements to control solid and floatable material in CSS areas include:

- The Shockoe retention facilities provide continuous mechanical screening for over two-thirds of the CSS. Screening operations at the facilities are increased during leaf season.
    - The Shockoe Diversion Structure Trash Rake Replacement project (in construction) will replace the screening system at the Shockoe West Diversion Structure to increase the volume of the screenings removed from the facility.
- The Hampton/McCloy Tunnel provides continuous mechanical screening. All flow captured in the tunnel is screened prior to transfer to the WWTP, which consists of 1,012 acres of the CSS. The tunnel is equipped with solid and floatable capture chambers.
- The Northside, Southside James River Park, Gillies Creek, and Hilton Street CSO conveyance facilities have flotation or stilling chambers and/or static screens along with baffles to capture solid and floatable material. The material captured is transferred to the intercepting sewers for removal at the WWTP.

3.7 Public Education and Outreach (MCM 1, NMC 7 and NMC 8)

3.7.1 List of High-Priority Stormwater Issues and Strategies

The City identified three high-priority stormwater issues to be addressed in their public education and outreach program.

3.7.1.1 High Priority Issue #1: Pet Waste

- Rationale for Selection: Minimize the degree of pet waste runoff to reduce the bacteria loads entering local waterways
- Identification of Public Audience: Pet Owners
- Strategies
    - Traditional written materials: Fact Sheets; flyers; handouts
    - Alternative materials: Pet waste stations; pet waste bags and holders
    - Signage: Yard Signs
    - Media materials: Radio ads; social media posts
    - Speaking engagements: Presentations to varied community groups

The specific events/media utilized to address public education on Pet Waste are summarized below in Table 3-9.

Table 3-9. Strategies to Communicate High Priority Issue #1 – Pet Waste	
Programming	**Strategy Type**
Distributed Pet Waste Bags and Holders to the Richmond SPCA's Dog Jog, 5K, and Block Party Participants on 3/22/2025	Alternative Materials
Distributed 20,000 Pet Waste Bags to the City of Richmond's Department of Parks, Recreation, and Community Facilities for utilization in Richmond's Parks on 9/10/2025	Alternative Material
Distributed 360,000 Pet Waste Bags to the James River Park System and the City of Richmond's Department of Parks, Recreation, and Community Facilities for utilization in Richmond's Parks on 10/20/2025	Alternative Material
Distributed Pet Waste Bags and Holders to Citizens, Community Organizations, and "Friends of" Park Groups Year-Round	Alternative Materials
Distributed Pet Waste Yard Signs to Citizens, Community Organizations, and "Friends of" Park Groups Year-Round	Signage
Utilized Social Media to Share Information Related to the Importance of Picking Up Pet Waste	Media Materials
Distributed Pet Waste Stations to "Friends of" Park Groups Year-Round As-Needed	Alternative media

Figure 3-6: Pet Waste Posts on X on 2/10/2025

3.7.1.2 High Priority Issue #2: General Stormwater Awareness

- Rationale: Educate residents on stormwater and its impact on the environment to improve the quality and minimize the quantity of urban runoff from residential areas
- Audience: Richmond citizens and school-age students
- Strategies
    - Newsletters
    - Signage

- Media: webpage, social media posts
- Speaking engagements: Presentations to varied community groups

The specific events/media utilized to address public education on Pet Waste are summarized below in Table 3-10.

Table 3-10. Strategies to Communicate High Priority Issue #2 –General Stormwater Awareness	
Programming	**Strategy Type**
9th City Council District's September Town Hall – Stormwater Capital Projects and Operations & Maintenance Updates on 9/13/2025	Speaking engagement

Figure 3-7: Permeable Pavement Post on Facebook on 5/13/2025

3.7.1.3 High Priority Issue #3: Litter Awareness

- Rationale for Selection: Minimize the degree of litter entering the storm sewer system and local waterways to achieve higher water quality
- Identification of Public Audience: Richmond citizens and pedestrians
- Strategies
  - Media materials: Radio ads; social media posts
  - Speaking engagements: Presentations to varied community groups

The specific events/media utilized to address public education on Litter Awareness are summarized below in Table 3-11.

Table 3-11. Strategies to Communicate High Priority Issue #3 – Litter Awareness	
Programming	Strategy Type
Utilized Social Media to Share Information Related to the Impact of Littering and the Importance of Refraining from Doing So	Media Materials

3.7.2 Proper Disposal of Substances - Public Education Programs and Facility Tours

The educational programs and tours conducted and/or hosted by the Department during the reporting period to communicate proper disposal of hazardous substances are summarized in Table 3-12 below.

Table 3-12. Public Education Programs and Facility Tours	
Date	Program/Tour
5/17/2025	Household Hazardous Waste Take Back Event
9/13/2025	Household Hazardous Waste Take back event
10/21/2025	Citizens Academy - Combined Sewer System Regulatory Requirements, Pretreatment, and Wastewater Treatment Plant Tour
10/28/2025	Citizens Academy - Shockoe Retention Basin Tour

3.7.3 Pretreatment Awareness Programs

The pretreatment awareness programs that were implemented to encourage industrial waste reduction through recycling and improved housekeeping are summarized in Table 3-13 below.

Table 3-13. Awareness Programs to Encourage Waste Reduction	
Date	Event
5/17/2025	Household Hazardous Waste Take-Back Event
9/13/2025	Household Hazardous Waste Take-Back Event

3.8 Public Involvement and Participation (MCM 2 and NMC 8)

3.8.1 Public Input on MS4 Program and Stormwater Complaints

No public comments were received on the MS4 Program during 2025.

Stormwater complaints received by the City, and complaints that were addressed and closed out through the duration of the reporting period are summarized in Table 3-14 below.

Table 3-14. Stormwater Complaints Summary (Cityworks)	
No. of New Complaints Received	1702
No. of Complaints Closed	914

3.8.2 Published Information on City website about the CSO Control & MS4 Program

Published information on the CSO control and MS4 programs is located at the following City-controlled websites:
https://www.rva.gov/index.php/public-utilities/wastewater-utility

https://www.rva.gov/index.php/public-utilities/pretreatment

https://www.rva.gov/public-utilities/ms4

https://www.rva.gov/public-utilities/stormwater-management

https://www.rva.gov/public-utilities/stormwater-utility

https://www.rva.gov/public-utilities

3.8.3 Public Involvement Activities

The public involvement activities conducted and/or hosted by the Department during the reporting period are summarized in Table 3-15 below.

Table 3-15. Public Involvement Activities	
Date	Event
2/4/2025	Richmond Public Schools Career Expo
2/7/2025	Richmond Public Schools Job Shadow Day @ Wastewater Treatment Plant/Lab
3/18/2025	Mary Munford STEM Night
3/26/2025	Mary Munford Career Day
3/27/2026	Richmond Public Schools Science Showcase
5/17/2025	Household Hazardous Waste Take Back Event
6/6/2025	Lunch on the Block @ City Hall
6/16/2025	WWTP Tour
6/17/2025	WWTP Tour
6/26/2025	WWTP Tour
8/6/2026	Camp DPU – Stormwater Management
8/8/2025	Camp DPU – WWTP Tour
9/13/2025	Household Hazardous Waste Take back event
10/17/2025	WWTP Tour - Huguenot High School

Table 3-15. Public Involvement Activities	
Date	Event
10/21/2025	Citizens Academy - Combined Sewer System Regulatory Requirements, Pretreatment, and Wastewater Treatment Plant Tour
10/28/2025	Citizens Academy - Shockoe Retention Basin Tour
11/4/2025	WWTP Tour – Collegiate School
12/18/2025	WWTP Tour – Open High

3.8.4 Public Involvement Metric Evaluation

The metrics used to evaluate the effectiveness of the implemented public involvement activities are summarized in Table 3-16 below.

Table 3-16. Public Involvement Activities			
Public Involvement Opportunity Outlined in Program Plan	Metric as Defined in Program Plan	Metric Measurements	Evaluation
Disposal or Collection Event – Household Hazardous Waste Collection Events	The number of barrels of hazardous waste collected	5/17/25 9/17/25	26 barrels of hazardous household material were collected over the two events. Keeping hazardous material from being improperly disposed of and out of the environment, our combined stormwater and sewer infrastructure, and out of waterways is beneficial to improving and protecting water quality.

The City of Richmond is currently updating its public education and outreach program to include climate change education.

3.8.5 Public Meetings Organized/Attended

During the reporting period, the City organized and participated in meetings with the community, regulatory agencies, stakeholders, and other MS4 permittees. These meetings are summarized in Table 3-17 below.

Table 3-17. Public Involvement Meetings	
Date	Meeting
1/17/2025	Public Meeting – CSO Interim Plan Projects
1/17/2025	Public Meeting – Combined Sewer Overflow Interim Plan Project update
3/27/2025	7th Council District Meeting – CSO Updates
7/9/2025	Public Meeting - Combined Sewer Overflow Interim Plan Project update
7/26/2025	City Council Government Operations Committee CSO update
11/3/2025	City Council Government Operations Committee CSO update

Table 3-17. Public Involvement Meetings	
Date	Meeting
11/17/2025	Public Meeting – CSO Interim Plan Project update

3.8.6 CSO Warning Signs

Eighteen (18) of the twenty-five (25) CSO outfalls were predicted to discharge more than once per summer on average. Each of these outfalls are required to have a CSO warning sign per the VPDES permit. These signs have been installed and have been maintained by DPU throughout the reporting year.

3.8.7 Local Press Coverage of CSO Program

Local press coverage of the CSS is ongoing. The articles/sessions released during the reporting period are listed in Appendix C.

3.9 Illicit Discharge Detection and Elimination (MCM 3)

3.9.1 MS4 Map and Information Confirmation Statement

The MS4 map and information table are up to date as of December 31st of the reporting period, and are presented in Appendix D.

3.9.2 Outfall Screening Summary

The total number of outfalls screened during the reporting period as part of the dry weather screening program is summarized in Table 3-18 below. The 2025 reporting period outfall inventory records are provided in Appendix E.

Table 3-18. Outfall Screening Summary		
Creek	No. of Outfalls	IDDE Potential
Cherokee Creek	24	23 Unlikely 1 Potential
Gillies Creek	29	27 Unlikely 2 Potential
WWTP	4	4 Unlikely

3.9.3 MS4 Illicit Discharges

The City investigated 37 illicit discharges during the reporting period. A summary of the illicit discharges to the MS4 is included in Appendix F.

3.10 Construction Site Stormwater Runoff Control (MCM 4)

3.10.1 Summary of Inspections and Compliance and Enforcement Actions

The number of inspections conducted at construction sites and compliance and enforcement actions during the reporting period are summarized in Table 3-19 below.

Table 3-19. Summary of Construction Site Stormwater Inspections		
Total Conducted	Compliance and Enforcement Actions	
	Type	Total
1,590	Notice to Comply	19
	Stop Work Order	6
	Notice of Violation	6

3.11 Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands (MCM 5)

3.11.1 Summary of Inspections of Stormwater Management Facilities

The number of inspections conducted on privately owned and permittee-owned stormwater facilities, as well as the number of enforcement actions, during the reporting period are summarized in Table 3-20 below.

Table 3-20. Summary of Stormwater Management Facility Inspections		
Stormwater Management Facility	Total Inspections Conducted	Enforcement Actions
Privately-Owned	15	No enforcement actions taken
Public/Permittee-Owned	5	No enforcement actions taken

3.11.2 Summary of Maintenance Activities

The Stormwater Utility did not have any major reconstruction or rehabilitation of any stormwater management facilities outside of what would be considered general maintenance activities throughout 2025. The City performs regular inspections and maintenance activities on City owned and operated stormwater management facilities that include grass cutting, trash collection, and debris removal.

3.11.3 Submission Confirmation Statements

The Water Resources Division staff of DPU has submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for the land disturbing activities within the City for which coverage under the General VDPES Permit for Discharges of Stormwater from Construction Activities was required to be obtained.

The Water Resources Division staff of DPU also reported BMPs through the DEQ BMP Warehouse on September 30, 2025, and received an acceptance email from DEQ on the same day.

3.12 Pollution Prevention and Good Housekeeping for Facilities Owned and Operated by the Permittee Within the MS4 Service Area (MCM 6 and NCM 7)

3.12.1 Summary of New or Modified Operational Procedures

No updates were made to any of the City's operational procedures during the 2025 reporting period.

3.12.2 Summary of New or Modified SWPPPs

All high-priority facilities were reviewed in the 2025 Reporting Period. None were delisted and no additional SWPPPs were developed.

No updates were made to the existing SWPPP's during the 2025 reporting year. Training is performed based on the operations outlined in the SWPPP's.

3.12.3 Summary of New Turf and Landscape Nutrient Management Plans

No new Turf and Landscape Plans have been implemented within the City during the 2025 reporting period.

3.12.4 Summary of Training Events

The City conducted an online training course for stormwater awareness for City employees. The course provides education on spill prevention, vehicle maintenance, bulk material storage, road and parking lot maintenance and facility maintenance. The course was completed online throughout the 2025 reporting period by 420 employees.

3.12.5 Operation and Maintenance of Septage Receiving Station

In 2025 the City received 2,117 hauled waste discharges for a total of 2.6 million gallons. The Septage Receiving Station is inspected daily and is maintained at regular intervals.

3.12.6 Enforcement of Ordinances that Prohibit Substances from Entering the Collection System

In the 2025 reporting year, the City performed the following activities:

- Collected samples at 24 facilities through the Strong Waste Surcharge Program
    - Issued zero (0) Notices of Violations to Significant Industrial Users
- Performed 40 illicit discharge detection inspections at Significant Industrial Users Facilities
- Performed 52 storm water inspections at Significant Industrial Users Facilities

Section 4

Chesapeake Bay TMDL Action Plan Status Report

No revisions were made to the Chesapeake Bay TMDL Action Plan during the 2025 reporting year.

4.1.1 Implemented BMPs

The BMPs that have been implemented by the City to achieve compliance with Chesapeake Bay TMDL Action Plan are summarized in Table 4-1. All projects used to demonstrate compliance with the Chesapeake Bya TMDL have been reported to the BMP warehouse.

Table 4-1. Summary of Implemented BMPs

BMPs	Completion Date	Pollutant Removal (lbs/year)		
		Total Nitrogen	Total Phosphorus	Total Suspended Solids
Maury Stream Restoration	2016	894.0	176.0	58,720.0
Cherokee Lake and Croatan Road	2018	872.4	198.2	16,679.8
Forest Hill Forebay	2018	1,354.0	298.8	25,154.9
Little Westham Creek	2019	4073.0	1590.0	548,000.0
Pocosham Creek*	2019	4,435.0	900.00	300,208.0
Pinecamp Stream Restoration*	2025	597.51	279.16	1,882,540.0
Broad Rock Creek Stream Restoration (in design)	TBD	821.16	192.43	748,740.0

- Credit amounts adjusted in 2017 and 2025, per as-builts.

4.1.2 Chesapeake Bay TMDL Action Plan Compliance Progress

The City's progress towards meeting the required pollutant load reductions is summarized in Table 4-2.

We have met the 2028 goals for phosphorus and sediment and are planning to meet the 2028 nitrogen Chesapeake Bay TMDL Goal by the deadline with the completion of the Broad Rock Stream Restoration.

Table 4-2. Richmond's Chesapeake Bay TMDL Action Plan Compliance Progress						
Goal	Pollutant (lbs/year)					
	Total Nitrogen		Total Phosphorus		Total Suspended Solids	
Removal to Date (End of 2025 Reporting Year)	12,135.83		3442.14		2,831,302.71	
2028 Goal	12,352.2	98.2 %	2,726.3	126 %	1,184,073.12	239%

Section 5

Local TMDL Action Plan Status

The City has an approved James River Bacteria TMDL Action Plan dated 11/04/2010. The City has continued to implement the CSO program nine minimum control standards and the MS4 six minimum control standards to reduce the pollutants of concern.

In 2020, the Virginia General Assembly passed, and the Governor signed into law, the 2020 CSO Law, that requires the owner or operator of any CSS east of Charlottesville that discharges into the James River watershed to submit to DEQ an Interim and Final Plan to address the requirements of any consent special order issued by the Board.

The 2020 CSO Law identifies the following dates and tasks for the owner or operator:

	Purpose	Due Date	Initiate Construction and Related Activities	Complete Construction and Related Activities
Interim Plan	Identify improvements that can be initiated in the short-term	July 1, 2021	July 1, 2022	July 1, 2027
Final Plan	Re-evaluates the remaining Special Order projects and identifies system-wide improvements	July 1, 2025	July 1, 2025	July 1, 2035
TMDL Report	Identify improvements to meet the requirements of the "James River – Richmond Tributaries Bacteria TMDL"	July 1, 2030	NA	NA

The City has accomplished several significant activities/milestones to meet the schedule requirements of the Consent Order, while continuing to maintain and improve the CSS:

Interim Plan

Construction of all ten of the Interim Plan projects are in progress, and are still on schedule to be complete by the July 1, 2027 deadline.

Final Plan

The Final Plan projects are still on schedule to be completed by the July 1, 2035 deadline. The CSO 031 Storage Tank (1-MG) is currently under construction, and the design of the CSO 012 Storage

Tank (0.65-MG) is in progress. The City is also in the process of procuring a design-build team to design and construct the CSO 040 Storage Tank, which is expected to be awarded in September 2026.

The City's next steps for 2026 include:

- Continue construction of the ten Interim Plan projects
- Continue construction of CSO 031 storage tank
- Complete design for the CSO 012 storage tank
- Award Design-Build contract for CSO 040 storage tank
- Procure design services for Shockoe high-rate disinfection
- Advance public engagement and communication

Construction of Outfall 004 Regulator and overflow pipe (Interim Plan project) Fall 2025

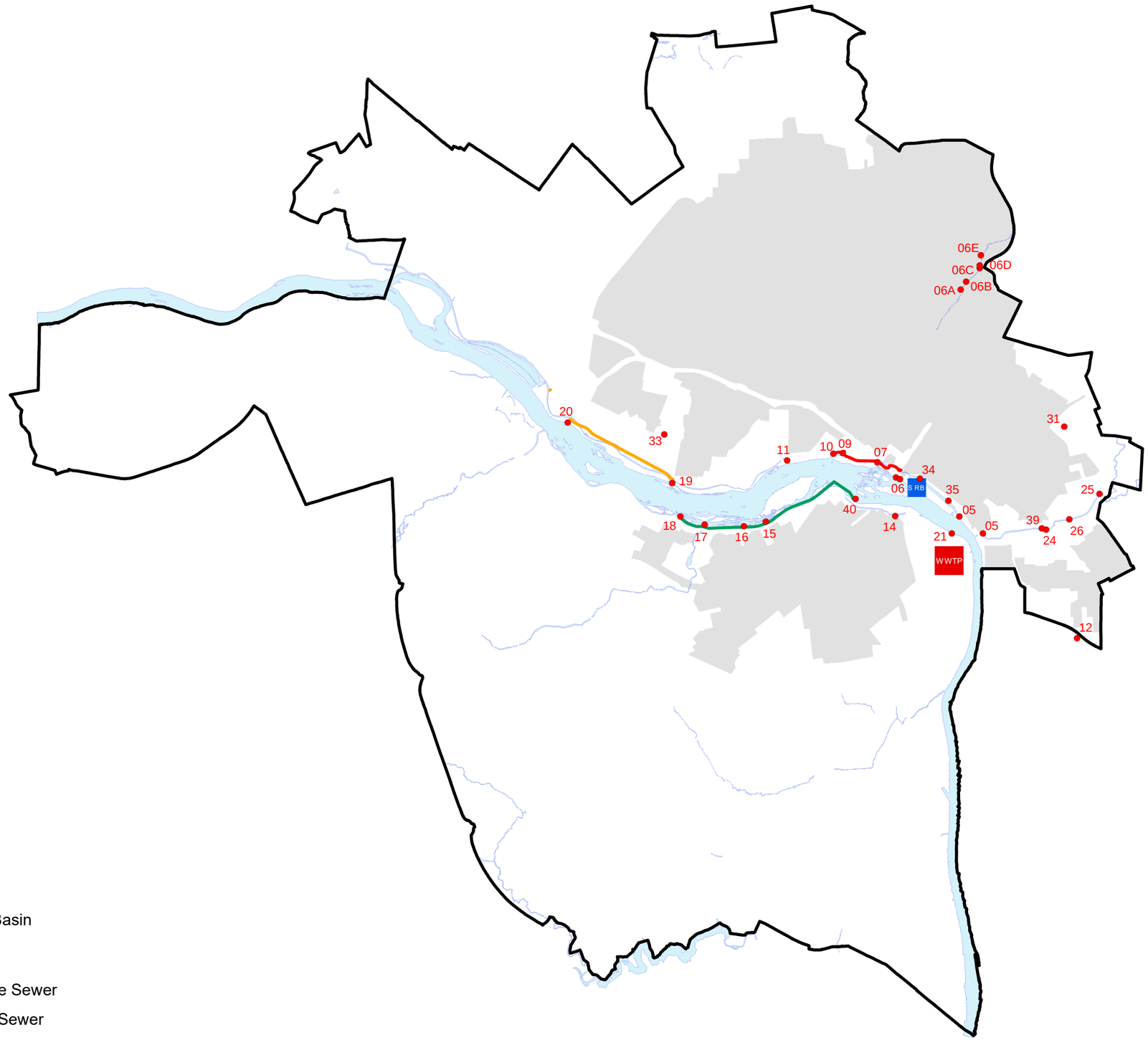
Construction of CSO 31 storage tank (Final Plan project) Winter 2025

Section 6

James River and Tributary Monitoring Report

Virginia Commonwealth University (VCU) conducts water quality monitoring in the James River and its tributaries on behalf of the Department. The data collected by VCU is provided in Appendix G.

Appendix A: Richmond CSS Map



Legend

- CSO Outfalls
- Shockoe Retention Basin (S RB)
- WWTP
- CSO 1/2 Conveyance Sewer
- CSO 3 Conveyance Sewer
- Hampton/McCloy Tunnel
- CSS Drainage Area

Richmond CSS

0 3,000 6,000 12,000 18,000 24,000 Feet

Appendix B: Outfall 101 and 102 Volume Data

January		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
1/1/25	43.7	
1/2/25	44.6	
1/3/25	45.2	
1/4/25	44.5	
1/5/25	91.1	24.3
1/6/25	69.8	
1/7/25	69.8	
1/8/25	63.8	
1/9/25	56.5	
1/10/25	52.4	
1/11/25	61.9	
1/12/25	59.0	
1/13/25	56.3	
1/14/25	53.7	
1/15/25	52.2	
1/16/25	52.0	
1/17/25	50.7	
1/18/25	50.3	
1/19/25	52.2	
1/20/25	50.4	
1/21/25	49.6	
1/22/25	50.2	
1/23/25	50.6	
1/24/25	51.9	
1/25/25	51.3	
1/26/25	50.4	
1/27/25	50.5	
1/28/25	48.9	
1/29/25	50.0	
1/30/25	48.3	
1/31/25	63.0	7.9

February		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
2/1/25	70.4	22.0
2/2/25	67.0	
2/3/25	59.2	
2/4/25	65.8	
2/5/25	71.8	
2/6/25	71.6	12.0
2/7/25	72.9	
2/8/25	74.4	14.2
2/9/25	73.6	
2/10/25	67.8	
2/11/25	59.2	15.9
2/12/25	62.9	45.9
2/13/25	71.8	42.2
2/14/25	76.1	34.7
2/15/25	76.9	21.4
2/16/25	76.4	46.9
2/17/25	76.9	85.9
2/18/25	77.1	34.5
2/19/25	75.9	44.9
2/20/25	73.8	6.1
2/21/25	77.3	8.8
2/22/25	77.5	
2/23/25	76.1	
2/24/25	77.6	
2/25/25	77.8	
2/26/25	77.6	
2/27/25	77.1	
2/28/25	74.8	

March		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
3/1/25	67.2	
3/2/25	62.6	
3/3/25	60.5	
3/4/25	60.6	
3/5/25	72.0	5.9
3/6/25	76.2	32.7
3/7/25	100.2	25.1
3/8/25	86.1	11.9
3/9/25	74.6	9.8
3/10/25	78.3	
3/11/25	78.9	3.1
3/12/25	73.4	
3/13/25	68.0	
3/14/25	71.0	
3/15/25	67.7	
3/16/25	72.5	
3/17/25	74.0	
3/18/25	76.4	
3/19/25	73.3	
3/20/25	74.8	7.0
3/21/25	81.5	6.2
3/22/25	65.1	
3/23/25	62.8	
3/24/25	63.4	
3/25/25	67.4	42.7
3/26/25	62.8	
3/27/25	59.9	
3/28/25	59.1	
3/29/25	58.1	
3/30/25	58.6	
3/31/25	60.0	

April		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
4/1/25	69.5	
4/2/25	58.4	
4/3/25	58.1	
4/4/25	56.0	
4/5/25	60.6	
4/6/25	56.3	
4/7/25	70.9	
4/8/25	78.0	
4/9/25	72.6	
4/10/25	63.6	
4/11/25	67.1	
4/12/25	75.0	
4/13/25	76.0	
4/14/25	75.8	
4/15/25	77.5	
4/16/25	72.3	
4/17/25	65.5	
4/18/25	61.2	
4/19/25	59.7	
4/20/25	57.8	
4/21/25	58.0	
4/22/25	56.7	
4/23/25	55.5	
4/24/25	55.5	
4/25/25	55.9	
4/26/25	54.5	
4/27/25	53.1	
4/28/25	52.8	
4/29/25	54.5	
4/30/25	52.4	

May		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
5/1/25	51.8	
5/2/25	52.3	
5/3/25	50.7	
5/4/25	61.9	
5/5/25	69.4	
5/6/25	73.5	
5/7/25	67.9	
5/8/25	65.1	
5/9/25	73.4	
5/10/25	70.7	
5/11/25	54.9	
5/12/25	52.7	
5/13/25	34.0	
5/14/25	40.9	
5/15/25	75.7	
5/16/25	75.7	
5/17/25	75.2	
5/18/25	74.0	
5/19/25	74.7	
5/20/25	66.4	
5/21/25	82.1	8.7
5/22/25	78.5	6.3
5/23/25	77.9	
5/24/25	74.3	0.2
5/25/25	57.2	
5/26/25	56.9	
5/27/25	58.8	
5/28/25	77.0	22.0
5/29/25	76.2	24.9
5/30/25	88.1	11.5
5/31/25	76.9	4.6

June		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
6/1/25	70.2	
6/2/25	69.0	
6/3/25	69.0	
6/4/25	68.6	
6/5/25	70.8	
6/6/25	64.6	
6/7/25	59.9	
6/8/25	62.8	
6/9/25	56.1	
6/10/25	53.4	
6/11/25	52.9	
6/12/25	51.4	
6/13/25	54.3	
6/14/25	54.5	
6/15/25	57.0	
6/16/25	75.1	
6/17/25	74.0	
6/18/25	66.0	
6/19/25	64.6	
6/20/25	62.9	
6/21/25	52.6	
6/22/25	51.2	
6/23/25	51.6	
6/24/25	51.1	
6/25/25	49.4	
6/26/25	58.2	
6/27/25	59.7	
6/28/25	51.3	
6/29/25	53.3	
6/30/25	70.5	

July		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
7/1/25	62.3	
7/2/25	73.2	
7/3/25	74.7	
7/4/25	74.3	
7/5/25	65.9	
7/6/25	65.8	
7/7/25	74.8	
7/8/25	67.4	
7/9/25	74.2	
7/10/25	73.9	
7/11/25	74.3	
7/12/25	74.7	
7/13/25	74.9	
7/14/25	74.6	
7/15/25	73.8	
7/16/25	73.9	
7/17/25	75.3	
7/18/25	75.6	
7/19/25	75.7	
7/20/25	73.1	
7/21/25	73.9	
7/22/25	70.5	
7/23/25	65.1	
7/24/25	62.8	
7/25/25	61.9	
7/26/25	59.9	
7/27/25	60.5	
7/28/25	72.2	
7/29/25	64.2	
7/30/25	60.6	
7/31/25	61.4	

August		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
8/1/25	65.7	
8/2/25	65.6	
8/3/25	56.7	
8/4/25	57.2	
8/5/25	55.8	
8/6/25	63.6	0.7
8/7/25	72.7	
8/8/25	58.5	
8/9/25	53.9	
8/10/25	53.9	
8/11/25	55.0	
8/12/25	53.2	
8/13/25	58.8	
8/14/25	55.2	
8/15/25	55.0	
8/16/25	53.7	
8/17/25	53.4	
8/18/25	75.0	10.3
8/19/25	72.9	
8/20/25	59.2	
8/21/25	56.9	
8/22/25	56.9	
8/23/25	54.9	
8/24/25	54.7	
8/25/25	53.4	
8/26/25	51.4	
8/27/25	50.5	
8/28/25	49.2	
8/29/25	48.3	
8/30/25	47.2	
8/31/25	46.6	

September		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
9/1/25	48.2	
9/2/25	49.6	
9/3/25	49.9	
9/4/25	50.6	
9/5/25	50.8	
9/6/25	53.8	
9/7/25	61.1	
9/8/25	65.9	
9/9/25	59.9	
9/10/25	51.0	
9/11/25	51.2	
9/12/25	52.6	
9/13/25	49.7	
9/14/25	52.0	
9/15/25	51.8	
9/16/25	69.4	4.6
9/17/25	78.5	40.1
9/18/25	73.9	2.7
9/19/25	74.4	
9/20/25	87.4	11.4
9/21/25	74.4	
9/22/25	74.4	
9/23/25	67.5	
9/24/25	57.0	
9/25/25	56.9	
9/26/25	63.4	
9/27/25	63.8	
9/28/25	68.6	
9/29/25	67.7	
9/30/25	68.0	

October		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
10/1/25	69.1	
10/2/25	63.3	
10/3/25	64.8	
10/4/25	56.2	
10/5/25	54.4	
10/6/25	54.4	
10/7/25	53.2	
10/8/25	54.6	
10/9/25	51.6	
10/10/25	50.6	
10/11/25	50.4	
10/12/25	46.9	
10/13/25	63.8	
10/14/25	54.2	
10/15/25	51.9	
10/16/25	51.5	
10/17/25	50.4	
10/18/25	49.8	
10/19/25	50.5	
10/20/25	51.9	
10/21/25	50.1	
10/22/25	50.4	
10/23/25	49.6	
10/24/25	49.8	
10/25/25	47.3	
10/26/25	47.8	
10/27/25	48.6	
10/28/25	52.2	
10/29/25	50.9	
10/30/25	67.7	
10/31/25	68.7	

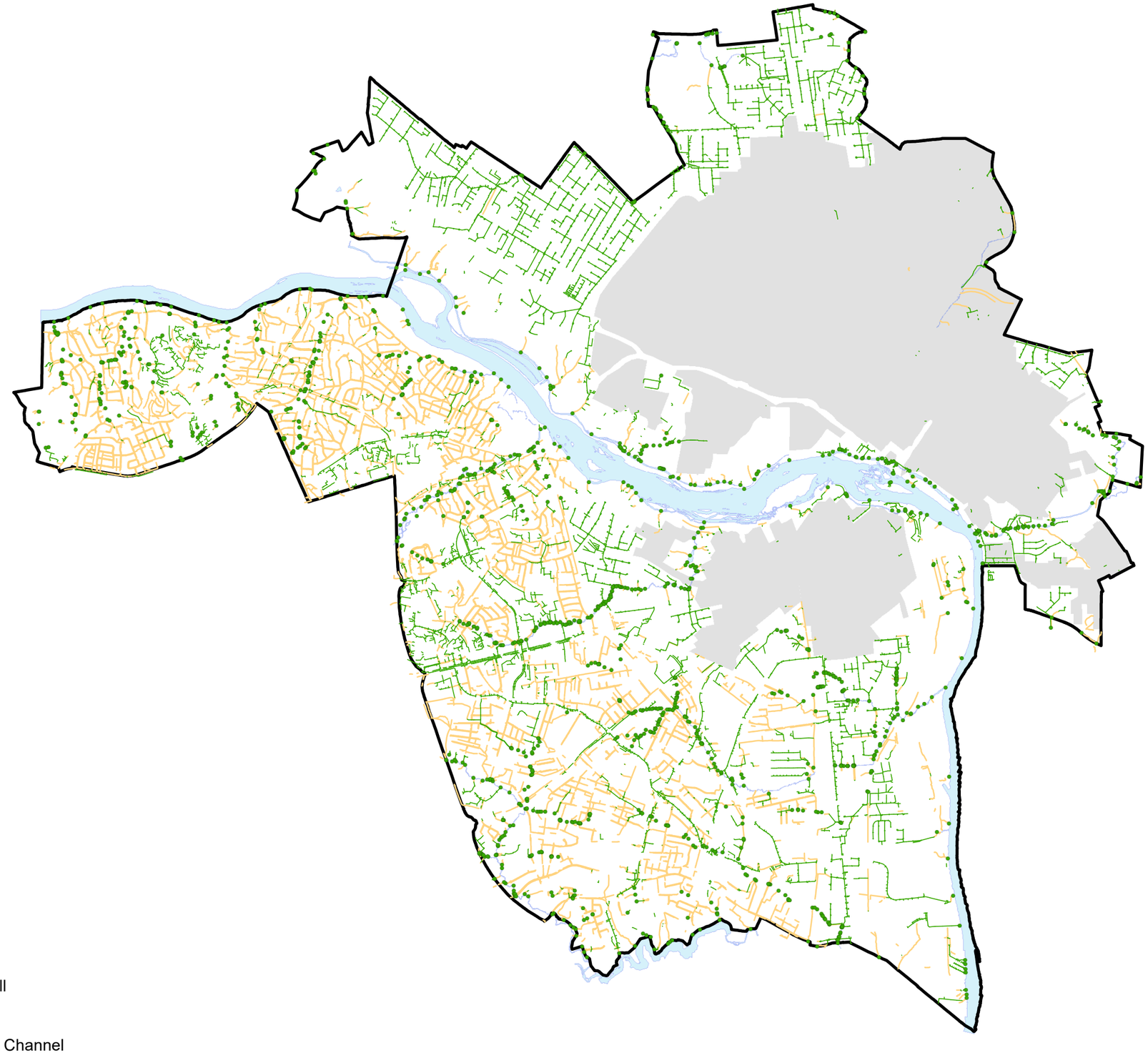
November		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
11/1/25	50.3	
11/2/25	49.9	
11/3/25	63.8	
11/4/25	64.5	
11/5/25	50.7	
11/6/25	50.0	
11/7/25	49.2	
11/8/25	48.7	
11/9/25	49.6	
11/10/25	61.7	
11/11/25	62.5	
11/12/25	49.5	
11/13/25	49.6	
11/14/25	48.8	
11/15/25	48.5	
11/16/25	48.9	
11/17/25	49.3	
11/18/25	48.5	
11/19/25	51.0	
11/20/25	48.6	
11/21/25	48.6	
11/22/25	64.2	
11/23/25	69.6	
11/24/25	69.9	
11/25/25	50.2	
11/26/25	65.2	
11/27/25	66.6	
11/28/25	67.9	
11/29/25	56.4	
11/30/25	50.1	

December		
Date	Outfall 101 Effluent Volume (MG)	Outfall 102 Effluent Volume (MG)
12/1/25	50.1	
12/2/25	63.4	
12/3/25	69.7	
12/4/25	70.4	
12/5/25	71.1	
12/6/25	71.7	
12/7/25	60.1	
12/8/25	62.6	
12/9/25	67.0	
12/10/25	65.5	
12/11/25	64.9	
12/12/25	56.1	
12/13/25	54.2	
12/14/25	59.1	
12/15/25	53.1	
12/16/25	53.9	
12/17/25	53.0	
12/18/25	52.8	
12/19/25	64.9	
12/20/25	63.1	
12/21/25	60.4	
12/22/25	61.0	
12/23/25	67.1	
12/24/25	67.1	
12/25/25	64.9	
12/26/25	58.4	
12/27/25	54.6	
12/28/25	52.1	
12/29/25	52.2	
12/30/25	51.5	
12/31/25	52.5	

Appendix C: Local Press Coverage

Appendix C - Summary of Local Press Coverage			
Date	Source	Headline	Link
8/11/2025	RVAHUB	Learn About the Bryan Park Dam Plan this Week	https://rvahub.com/2025/08/11/learn-about-the-bryan-park-dam-plan-this-week/
7/10/2025	ABC8-WRIC	Richmond unveils $140M sewer project to protect James River, cut pollution	https://www.wric.com/news/local-news/richmond/richmond-unveils-140m-sewer-project-to-protect-james-river-cut-pollution/
7/9/2025	CBS6-WTVR	Richmond launches project aimed at reducing excess sewage flowing into James River	https://www.wtvr.com/news/local-news/richmond-james-river-sewage-project-july-9-2025
3/24/2025	VPM	On the agenda: Avula budget presentation, Richmond combined sewer update and Henrico real estate tax rates	https://www.vpm.org/news/2025-03-24/richmond-avula-budget-combined-sewer-henrico-real-estate-tax
7/3/2025	ABC8-WRIC	Richmond to hold meeting on project meant to clean up James River	https://www.wric.com/news/local-news/richmond/combined-sewer-overflow-project-canoe-run-park/
10/9/2025	CBS6-WTVR	Mayor asks Virginia Governor for $80 million to help prevent another Richmond water crisis	https://www.wtvr.com/news/local-news/richmond-water-crisis-budget-oct-9-2025
10/8/2025	VPM	Richmond outlines water infrastructure budget asks for General Assembly	https://www.vpm.org/news/2025-10-08/rva-council-water-budget-general-assembly-avula-cabot-cso

Appendix D: Richmond MS4 Map



N

Legend

- Storm System Outfall
- Storm System Pipe
- Storm System Open Channel
- CSS Drainage Area

Richmond MS4

0 3,000 6,000 12,000 18,000 24,000 Feet

Appendix E: Outfall Screening Summary

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
OF-901	STM00106676	WWTP	8/26/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
OF-902	STM00106671	WWTP	8/26/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
OF-903	STM00088438	WWTP	8/26/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
N/A	STM00087840	WWTP	8/26/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-001	STM00084245	Gillies Creek	9/23/2025	N/A	Dark green benthic growth was present in the pipe	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-002	STM00083784	Gillies Creek	9/23/2025	N/A	Light brown benthic growth was present in the pipe	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-004	STM00083786	Gillies Creek	9/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-012	STM00083795	Gillies Creek	10/2/2025	N/A	Green benthic growth was present in the pipe	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-3333	STM00103333	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-4212	STM00084212	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
GIC-3344	STM00103344	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-014	STM00083800	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-3232	STM00103232	Gillies Creek	10/2/2025	N/A	Evidence of ground water flow suspected; iron floc was present	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-3375	STM00103375	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-3243	STM00103243	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-016	STM00033077	Gillies Creek	10/2/2025	N/A	Flow line staining and minor cracking was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-017	STM00083811	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-018	STM00079998	Gillies Creek	10/2/2025	N/A	Excessive vegetation growth was observed	Moderate flow observed; samples were collected	Samples collected and processed; levels do not require follow up.
GIC-019	STM00083813	Gillies Creek	10/2/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-020	STM00080001	Gillies Creek	10/2/2025	N/A	No physical indicators observed	Trickle flow observed; samples were collected	Samples collected and processed; levels do not require follow up.

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
GIC-023	STM00033082	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-024	STM00033084	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-025	STM00084002	Gillies Creek	10/3/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-026	STM00033085	Gillies Creek	10/3/2025	N/A	inhibited vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-027	STM00033086	Gillies Creek	10/3/2025	N/A	Flow line staining was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-28	STM00022087	Gillies Creek	10/3/2025	N/A	Flow line staining was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-30	STM00083828	Gillies Creek	10/3/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-032	STM00033063	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-033A	STM00107803	Gillies Creek	10/3/2025	N/A	Flow line staining was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-033B	STM00085817	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
GIC-7778	STM00107778	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-036	STM00080100	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
GIC-039	STM00083868	Gillies Creek	10/3/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-001	STM00096577	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	Moderate flow observed; samples were collected	Samples collected and processed; levels do not require follow up.
CHC-5859	STM00085859	Cherokee Creek	10/23/2025	N/A	Flow line staining was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-003	STM00085842	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-004	STM00085839	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-005	STM00085841	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-006	STM00096599	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-007	STM00085823	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
CHC-019	STM00033733	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-020	STM00096679	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-021	STM00096685	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-014	STM00085711	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-015	STM00085709	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-016	STM00085708	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-017	STM00096672	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-018	STM00033732	Cherokee Creek	10/23/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-009	STM00096642	Cherokee Creek	12/16/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-010	STM00096653	Cherokee Creek	12/16/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time

Legacy ID	Asset ID	Subwatershed	Inspection Date	Total Rain Last 48hrs (in)	Physical Observations	Flow Characteristics	Comments
CHC-011	STM00085812	Cherokee Creek	12/16/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-012	STM00085813	Cherokee Creek	12/16/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-013	STM00096663	Cherokee Creek	12/16/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-028	STM00033693	Cherokee Creek	12/16/2025	N/A	Excessive vegetation growth was observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-029	STM00096717	Cherokee Creek	12/16/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-030	STM00096722	Cherokee Creek	12/16/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time
CHC-031	STM00033685	Cherokee Creek	12/16/2025	N/A	No physical indicators observed	No flow observed; no samples collected	Unlikely to be a concern at this time

Appendix F: Illicit Discharge Records

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
2401 Commerce Road	Hazmat	2/14/2025	Notification to DEQ required through PReP, Remediation required	On 2/14/2025 City of Richmond Pretreatment (CORP) responded to an reported incident DEQ PReP ID # 317367 at Waccamaw Transport located at 2401 Commerce Rd. The facility had contacted an remediation company to mitigate environmental impacts (SMR Rapid Response). CORP corresponded with SMR Rapid Response staff regarding the soil remediation being conducted as well as the Absorbent booms being place in the COR MS4 conveyance with impacts to Goode Creek.	2/18/2025	Yes
2601 North Avenue	Liquids	2/24/2025	Remediation required	On 2/25/25 the City of Richmond Pretreatment (CORP) responded to the PReP incident ID # 317672 located at 2601 North Avenue, VA 23222 regarding the release approximately 61 gallons of natural ester oil. The impacted areas were confirmed as stated in the report. The impacted area has been mitigated with no impact observed to the City's MS4.	2/25/2025	Yes
1901 Bellemeade Road	Hazmat	2/26/2025	Education provided to responsible party, Notification to DEQ required through PReP, Remediation required	On 2/26/25 the City of Richmond Pretreatment (CORP) responded to the reported incident PReP ID # 317721 located at 1901 Bellemeade Road regarding automotive activities potentially impacting the City's MS4. The CORP staff was able to locate the stormwater conveyance outfall discharging to Goodes Creek. Also, CORP staff assisted The DEQ with placing absorbent booms to mitigate any potential impacts.	4/10/2025	Yes
2517 West Tremond Court	SSO	2/27/2025	Education provided to responsible party, Notification to DEQ required through PReP	On 2/27/25 the City of Richmond Pretreatment (CORP) responded with The DEQ regarding the reported incident PReP ID # 317709 located at 2517 West Tremond Court. It was determined that the pump station was currently under maintenance with a temporary bypass pump being used. On occasion the bypass pump had become inundated, and a Sanitary Sewer Overflow had occurred. The property maintenance staff is to mitigate the impacted area and maintain the bypass pump until repairs can be made. Also, they are to report any subsequent overflows.	2/27/2025	Yes
2517 West Tremond Court	Hazmat	2/27/2025	Education provided to responsible party, Notification to DEQ required through PReP, Remediation required	On 2/27/25 the City of Richmond Pretreatment (CORP) responded with The DEQ regarding the reported incident PReP ID # 317752 located at 2517 West Tremond Court. The facility has hired a contractor to remediate the impacted area.	4/24/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
561 Tredegar Street	Hazmat	2/27/2025	Education provided to responsible party, Notification to DEQ required through PReP, Remediation required	On 2/27/25 the City of Richmond Pretreatment (CORP) responded with The DEQ regarding the reported incident PReP ID # 317738 located at 561 Tredegar Street (Haxell Canal). The source was unable to be identified. As mentioned in the narrative by The Department of Environmental Quality the subject material is unrecoverable and will volatilize.	2/28/2025	Yes
1902 Elmsmere Avenue	Hazmat	3/17/2025	Remediation required	On 3/17/25 the City of Richmond Pretreatment (CORP) responded to the reported incident PReP ID # 318000 located at 1902 Elmsmere Avenue. CORP identified the reported subject material with minimal impacts to the City's MS4, approximately .5-1 quart of oil on the ground. CORP applied absorbent pads/booms to the impacted area and was able to remove all recoverable oil on the ground as well as removing the decaying leaves that were inundated with oil.	3/17/2025	Yes
2808 4th Avenue	SSO	5/7/2025	Education provided to responsible party, Notification to DEQ required through PReP	The City of Richmond Pretreatment (CORP) staff responded to the reported PReP incident IR #318782 located at 2808 4th Avenue at approximately 10:00 a.m. on 5/7/2025. CORP did not identify an active illicit discharge at the time of response; unfortunately, with over a month since the initial incident any pollutants of concern would be difficult to identify.	5/23/2025	Yes
7504 Brisbane Drive	SSO	5/8/2025	N/A	On 5/8/25 the City of Richmond Pretreatment (CORP) responded to the reported incident on 5/8/25 regarding the broken lateral. CORP did not observe the reported conditions and corresponded with DPU – wastewater regarding the incident. DPU – Wastewater "said that the lateral was not broken and that they observed a blockage within the pipe." The blockage was cleared with no additional action needed.	5/8/2025	Yes
1020 N Cleveland Street	Hazmat	5/9/2025	Remediation required	On 5/9/25 the City of Richmond Pretreatment (CORP) responded to the reported incident involving a leaking storage tank that was removed from 1020 N Cleveland Street. The parcel is currently under renovation with no parcel owner available. The CORP contacted DPW/RFD for removal and remediation of the impacted area. Soil has been remediated.	5/23/2025	Yes
3117 Ellwood Avenue	Liquids	5/15/2025	Remediation required	On 5/23/25 City of Richmond Pretreatment (CORP) conducted a joint inspection with The DEQ regarding the incident. At that time, the remediation had not been completed during the inspection. Although, DEQ was notified in the afternoon that the remediation of the impacted parcel had been completed.	5/23/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
108 S Laurel Street	Liquids	5/15/2025	Remediation required	On 5/23/25 City of Richmond Pretreatment (CORP) conducted a joint inspection with The DEQ regarding the incident. It was determined that the Responsible Party (RP) for the yellow grease container would remove the 3 - 55gal drums that were left by the previous Food Service Establishment. The RP will also remediate the impacted soil and gravel as well as adding secondary containment for the yellow grease containers.	5/23/2025	Yes
4805 Richmond Highway	Liquids	5/16/2025	Remediation required	On 5/16/25 the City of Richmond Pretreatment (CORP) responded to the reported incident involving the improper storage and disposal of yellow grease. CORP contacted Richmond FMO Lt. Coleman as DEQ and FMO had responded previously to the incident. It was determined that the RP had returned to mitigate the spilled yellow grease, this was confirmed by DEQ and Lt. Coleman from Richmond FMO.	5/28/2025	Yes
6140 Hull Street	SSO	5/16/2025	Education provided to responsible party, Remediation required	On 5/16/25 the City of Richmond Pretreatment (CORP) responded to the reported incident involving a unknow pipe that was discharging water onto the adjacent parcel located at 6140 Hull Street. CORP was able to determine that 2606 Hull Street had a sump pump connected to their grey water and was discharging it to on the adjacent parcel. It was explained to the homeowner that the line needs to be connected to the sanitary sewer or septic system and not discharging to surface waters. The parcel owner said, “that they will make the necessary repairs.”	5/30/2025	Yes
1205 Oakhurst Lane	SSO	5/27/2025	Education provided to responsible party	On 5/27/25 the City of Richmond Pretreatment (CORP) responded to the reported incident at the parcel located at 1205 Oakhurst Drive. The parcel owner was unavailable, however; a copy of the city ordinance regarding illicit discharges and illicit connection to the cities MS4 as well as contact information was left for the resident. A follow-up to the investigation will be conducted.	5/27/2025	Yes
201 E. 37th Street	Liquids	5/29/2025	N/A	On 5/29/25 the City of Richmond Pretreatment (CORP) staff responded to the reported incident regarding improper disposal of yellow grease adjacent to the parcel located at 201 E. 37th Street. CORP was unable to find a Responsible Party, however; a food tuck has been identified in the immediate area. The investigation will be on going and the area will be monitored for a potential illicit discharge.	5/29/2025	N/A

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
312 Pember Lane	Liquids	6/7/2025	Remediation required	On 6/7/25 the City of Richmond Pretreatment (CORP) responded to the reported incident from Richmond Fire Department regarding illegal dumping of corrosive detergents at the parcel located at 300 Pember Lane. The impacted area has been remediated with no impacts to the City's MS4. The investigation of the responsible party is ongoing, any enforcement action will be taken by RFD or RPD.	6/7/2025	Yes
2000 Hull Street	Hazmat	6/12/2025	Remediation required	On 6/12/25 the City of Richmond Pretreatment (CORP) responded to the reported incident from Richmond Fire Department regarding improper disposal of vehicle fluids located at 2000 Hull Street. The CORP personal mitigated the immediate area with absorbent, no impact to the City's conveyance system.	6/12/2025	Yes
2011 Commerce Court	Hazmat	6/13/2025	Notification to DEQ required through PReP, Remediation required	On 6/13/25 the City of Richmond Pretreatment (CORP) responded to the reported PReP incident IR #319358 as a joint inspection with The Department of Environmental Quality. The site was not as described, however; two 5-gallon buckets were identified in the immediate area. The identified used oil was removed to ensure no impacts would occur; the fluids will be disposed of properly. No observed impacts to the City's MS4.	6/13/2025	Yes
216 Maggie Walker Place	Liquids	6/18/2025	Remediation required	On 6/18/25 the City of Richmond Pretreatment (CORP) responded to the notification regarding improperly stored fry oil/yellow grease in the ROW adjacent to 216 Maggie Walker Place. Upon arrival eight 5-gallon containers of used fry oil/ yellow grease were observed in the City ROW. The identified fry oil/yellow grease was removed to ensure no impacts would occur; the material will be disposed of properly. No observed impacts to the City's MS4.	6/18/2025	Yes
1517 Valley Road	Solids	6/26/2025	Remediation required	On 6/26/25 the City of Richmond Pretreatment (CORP) identified illegal dumping at the parcel adjacent to 1517 Valley Road. A potential responsible party was identified, the information was given to the RPD Environmental Officer for possible enforcement action.	7/21/2025	Yes
1400 N 2nd Street	Liquids	6/26/2025	Remediation required	The City of Richmond Pretreatment (CORP) staff contacted an environmental remediation company to have the drum removed.	10/10/2025	Yes
656 Hospital Road	Solids	6/27/2025	Remediation required	On 6/27/25 the City of Richmond Pretreatment (CORP) identified illegal dumping at the parcel adjacent to 656 Hospital Road. A potential responsible party was identified, the information was given to the RPD Environmental Officer for possible enforcement action.	7/25/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
3630 Branchwood Drive	SSO	7/8/2025	Notification to DEQ required through PReP, Remediation required	On 7/8/25 the City of Richmond Pretreatment (CORP) staff identified the potential source of the reported incident PReP ID #319646, adjacent to the parcel located at 3630 Branchwood Drive. The source appeared to be exfiltrating from the stream bank, samples were collected. The indicator monitoring sample results were positive for sanitary sewer. The City's wastewater group has been notified and will further investigate the 8" main line. They will make the necessary repairs as well as provide mitigation to the impacted area.	7/9/2025	Yes
800 W 44th Street	Solids	7/21/2025	Education provided to responsible party, Remediation required	On 7/22/25 the City of Richmond Pretreatment (CORP) staff identify the location of the debris as well as contact the property manager at Ashton Square Apartments. The facility will have the debris removed from Reedy Creek by weeks end and will send us conformation when completed.	8/15/2025	Yes
1713 N 27th Street	Liquids	7/23/2025	N/A	On 6/18/25 the City of Richmond Pretreatment (CORP) responded to the notification regarding the possible illicit discharge. It was determined that the subject material was naturally occurring Iron-oxidizing bacteria (Iron Floc).	7/23/2025	Yes
1901 Redwood Avenue	Hazmat	8/27/2025	Education provided to responsible party	On 8/28/25 the City of Richmond Pretreatment (CORP) responded to the notification regarding the possible illicit discharge. It was determined that the resident located at 1901 Redwood Avenue is conducting vehicle maintenance in the City ROW. While the subject material was present in containers adjacent to the parcel no evidence was observed regarding improper disposal of oil within the CDI. This area will be monitored by CORP and referred to Code Enforcement.	9/17/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
2201 Shields Lake Drive	Other	9/2/2025	N/A	On 9/3/25 the City of Richmond Pretreatment (CORP) responded to the notification regarding the possible fish kill at Byrd Park Lake. CORP staff didn't observe a fish kill or an Illicit discharge. (DEQ responded to the incident on 9/2/25.Citizen called to report a fish kill at Byrd Park Lake closest to Maymont entrance on the third lake. DEQ responded to the reported fish kill on 9/2/2025. Upon arrival, DEQ observed a dead turtle and deceased bird in Shield Lake and Byrd Park. There were no visible deceased fish in Shield Lake. There did not appear to be any algae bloom going on at the time. The deceased turtle appeared as though it had been dead for some time due to it being severely bloated. There was no obvious signs that these animals had been impacted by any pollution event. DEQ Water Monitoring responded to the incident also and conducted an investigation using a hydro lab. They noted that all checked parameters were within normal ranges. They did note a significant amount of deceased snails which they will be further investigating.)	9/3/2025	Yes
417 West Clay Street	Solids	9/8/2025	Education provided to responsible party, Remediation required	On 9/9/25 the City of Richmond Pretreatment (CORP) responded to the notification regarding illegal tire dumping. CORP corresponded with the newly formed illegal tire & dumping taskforce for removal and enforcement action.	9/9/2025	Yes
2910 Stockton Street	Solids	9/12/2025	Remediation required	On 9/12/25 the City of Richmond Pretreatment (CORP) staff identified illegal dumping of tires and debris adjacent to 2910 Stockton Street,. COR staff corresponded with the Illegal Tire and Dumping taskforce regarding the incident. The subject material will be removed with possible enforcement action taken.	9/12/2025	Yes
415 Tredegar Street	Liquids	9/30/2025	Notification to DEQ required through PReP, Education provided to responsible party	On 9/30/25 the City of Richmond Pretreatment (CORP) responded to the incident located at 415 Tredegar Street. (PREP ID # 320805) This is the same location as waste was dumped on 8/29 (IR 320457). DEQ conducted site visit and met with Richmond FMO, City DPU, and James Riverkeeper. Material dumped did not appear to be sewage. It had a similar smell to the previous dumping but was not as noxious. Some fatty solids were observed and white staining on the ramp. No sheen in the water or other visible water impacts were observed. There are no photos or witnesses to provide RP information. The City of Richmond is planning to increase surveillance in the area.	11/7/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
1400 Brander Street	SSO	10/7/2025	Notification to DEQ required through PReP	On 10/8/2025 the City of Richmond Pretreatment (CORP) staff reported the identified SSO to The DEQ. (PReP ID # 320965) Description and Location provided as well as actions taken. No - 5 day letter required	10/8/2025	Yes
1959 Raven Street	SSO	10/21/2025	Education provided to responsible party, Notification to DEQ required through PReP, Remediation required	On 10/21/25 The City of Richmond Pretreatment (CORP) staff responded to the reported incident located at 1959 Raven street. An active SSO was identified behind the parcel located at 1965 Raven Street. The CORP was able to correspond with the RRHA Assistant Property Manager regarding the incident. The manager was aware of the incident and stated that “they had a contractor CCTV the lateral and identified that it was collapsed.” They are working on a PO to have the necessary repairs made. It was explained that they had emergency, and any process needed to be expedited to protect Human Health & the Environment. The CORP staff requested that RRHA maintenance mitigate the impacted grass area with granular lime.	10/28/2025	Yes
7012 Marlowe Road	Liquids	12/3/2025	Education provided to responsible party	On 12/3/25 The City of Richmond Pretreatment (CORP) staff responded to the notification of an Illicit discharge located at 7012 Marlowe Road. The complainant provided a photo of Stemmle Hydro - Excavating. CORP contact the responsible party (RP) regarding the incident, it was determined that the Vactor Truck decanting stormwater into a private CDI. The CORP requested SOP's from the (RP) as well as requesting a temporary discharge permit within combined sewer system and to not discharge decanted water into the city's MS4 stormwater conveyance system.	12/5/2025	Yes
2503 Grove Avenue	Liquids	12/17/2025	Education provided to responsible party	On 12/17/25 The City of Richmond Pretreatment (CORP) staff received notification from the city's 311 system regarding discharge of pool water. Dechlorinated pool water is consider a permissible discharge, community outreach provided to complainant.	12/23/2025	Yes
2403 Maplewood Avenue	Hazmat	12/17/2025	N/A	On 12/17/25 The City of Richmond Pretreatment staff responded to a 311 notification regarding a drum that had been improperly disposed of behind a residence. American Safety was contacted and removed the drum and its contents on 12/19/25. No impact to the city's MS4 infrastructure observed.	12/19/2025	Yes

Property Address	Type of Illicit Discharge	Incident Response Date	Follow-Up Actions	Resolution Summary	Closure Date	Source Eliminated?
6228 Forest Hill Avenue	SSO	12/18/2025	Notification to DEQ required through PReP	On 12/18/25 On 12/18/25 The city of Richmond (CORP) staff notified DPU - Wastewater regarding the active Sanitary Sewer Overflow (SSO) located adjacent to 6228 Forest Hill Avenue. The SSO was reported to The Department of Environmental Quality PReP ID # 321703. The blockage was cleared and impacted area mitigated.	12/19/2025	Yes

Appendix G: James River and Tributary Monitoring Data