

<b>Ensure Financial Stability</b>	
<b>Reconciled Bank Account Balances</b>	Refer to attached Reconciled Bank Account Balances as of 2/29/2024.
<b>Monthly Financial Statements</b>	Provided separately to Board of Directors.
<b>Monthly Financial Dashboard</b>	Provided separately to Board of Directors.
<b>AP Check Reconciliation Register</b>	Provided separately to Board of Directors.
<b>Capital Improvement Projects for Drinking Water</b>	Provided separately to Board of Directors.
<b>Capital Improvement Projects for Wastewater</b>	Provided separately to Board of Directors.
<b>Grant Management</b>	Refer to attached Grant Management Report.
<b>Ensure Revenues are Consistent with System Usage</b>	
<b>Water Shut-offs</b>	There was one water shut-off for non-payment and 12 service shut-off requests.
<b>Repair/Replace Meters/MXUs/Batteries</b>	Drinking Water Distribution staff replaced 13 water meters, 52 batteries, and 9 MXUs.
<b>Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters</b>	
<b>Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices</b>	CRW is actively preparing several other deliverables per the Modification to Partial Consent Decree (MPCD) Financial Capability Assessment (2/23/2024); Alternatives Analysis with Water Quality Model and Financial Capability Assessment Analysis (3/31/2024); Semi-Annual Report/Chapter 94 Report/Updated Wastewater/Stormwater Operation and Maintenance Manual/Updated Nine Minimum Control Measures Plan/Strategic Asset Management Plan (3/31/2024). ADS Echo Monitors to be installed by 3/20/2024 per the MPCD.
<b>Develop Necessary Planning for Implementation of Green Infrastructure</b>	Phase 4 SW Pro-Fi is still under construction – construction has commenced on the last of four GSI sites, the 15th and Swatara Community Gardens Harrisburg Redevelopment Authority (HRA) Lots. Phase 1 – 2024 Green Stormwater Infrastructure (GSI) Improvements (originally Phase 5 SW Pro-Fi) is under final review, and will go out to bid this Spring. CRW submitted a \$13.3MM PENNVEST Application for GSI Capital Improvements 2024-2028 on 2/19/2024 – PENNVEST Board meets on 4/24/2024 to review and approve.
<b>Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4</b>	No update.
<b>Obtain and Comply with Individual MS4 Permit</b>	No update.



<p><b>Asset Management</b></p>	<p><b>Roadmap activity report:</b></p> <ul style="list-style-type: none"> <li>• Kickoff meeting held 2/23/2024 to prioritize Task Order 2024-01-01AM Roadmap FY24, Phase 2 Activities.</li> </ul> <p><b>Roadmap Implementation Groups (RIG)</b></p> <p><b>Decision Making Capital Planning RIG</b></p> <ul style="list-style-type: none"> <li>• Task 2.2 Budget Processing Workflow scheduled kick-off meeting for 4/15/2024.</li> </ul> <p><b>Information System Data Management RIG</b></p> <ul style="list-style-type: none"> <li>• Task 3.2 Integrations and Interface, Phase 2 held kick-off meeting 2/22/2024. Received updated prioritization of recommendations/next steps (Table 3.1) on 2/26/2024.</li> </ul> <p><b>Operations &amp; Maintenance RIG</b></p> <ul style="list-style-type: none"> <li>• Task 4.1 Distribution Asset Management Plan (DAMP) scheduled workshops for 3/18/2024, 4/16/2024 and 5/6/2024. Met with Community Outreach Manager 3/7/2024 to discuss the roles and process of updating the critical customer list at CRW which will impact the DAMP's 20-year capital improvement prioritization plan.</li> <li>• Task 4.2 Asset Class Plan meetings scheduled for 3/25/2024 and 3/28/2024, required prior to DAMP kick-off.</li> <li>• Completed preliminary audit of updated AWTF asset registry in preparation of final review by Chief Operations Officer and Operations Supervisor of Wastewater. Meeting held 3/11/2024 providing instructions on the enhanced workbook to track their edits.</li> </ul> <p><b>Organizational Framework RIG</b></p> <ul style="list-style-type: none"> <li>• Work sessions held 2/28/2024 and 3/5/2024 configuring recently developed dashboards to connect with CRW's local data.</li> </ul> <p><b>InfoAsset Planner Year 2 Implementation activity report:</b></p> <ul style="list-style-type: none"> <li>• Held kickoff meeting on 2/20/2024 for Task Order 2024-02-01 InfoAsset Planner Support Services FY 2024.</li> </ul> <p><b>Other activities:</b></p> <ul style="list-style-type: none"> <li>• Provided oversight for newly selected professional services consultants Basic Order Agreement, Issue Brief and scope of work for support of computerized maintenance management system.</li> <li>• Collaboration continues with working groups on the Lead Service Line Inventory, and Risk Management.</li> <li>• Prepared audit of CRW's 2023 AWWA Benchmarking Utility Survey answers to identify opportunities for improvement to the 2024 survey.</li> <li>• Met 2/27/2024 with CRW's Procurement Manager to discuss the future of material management.</li> </ul>
<p><b>Development Review Summary</b></p>	<p>For details, see attached Development Stormwater Management Review Summary spreadsheet for March.</p>

**Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report**

<p><b>Professional &amp; Contractor Services</b></p>	<p><b>Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:</b></p> <p><b>Drinking Water:</b> Task Order 2024-10-01: Forest Management Services with [REDACTED] Grant Agreement between [REDACTED] and Capital Region Water.</p> <p><b>Wastewater:</b></p> <ul style="list-style-type: none"> <li>• Resolution No. 2024-009: Authorizing Declaration of Taking and Condemnation [REDACTED]</li> <li>• Task Order 2024-06-01: Engineering Services for FY24 Cityworks Projects and Support with [REDACTED]</li> <li>• Task Order 2024-09-01: and Basic Ordering Agreement for Professional Services for GIS Needs Assessment, Road Map and Support with [REDACTED]</li> </ul> <p><b>Stormwater:</b> None.</p>
<p><b>Stormwater O&amp;M Agreements</b></p>	<p><b>Recommend Board approval of the following:</b></p> <p>Resolution No. 2024-005 Stormwater Operation and Maintenance Agreement with [REDACTED] Resolution No. 2024-006 Stormwater Operation and Maintenance Agreement with [REDACTED] Resolution No. 2024-007 Stormwater Operation and Maintenance Agreement with [REDACTED]</p>
<p><b>AWTF Primary Digesters Rehabilitation</b></p>	<p>No update. Closeout of the general construction contract is dependent upon resolution of the contractor's time delay claim.</p>
<p><b>AWTF Primary Clarifiers Improvements</b></p>	<p>The project is in the preliminary design phase.</p>
<p><b>AWTF Energy Recovery Improvements</b></p>	<p>PENNVEST loan settlement for this project will be held on 4/10/2024. Notice to Proceed will then be issued to the contractor.</p>
<p><b>Front Street Pumping Station Improvements</b></p>	<p>No update. Closeout of the general construction contract is dependent upon resolution of the contractor's time delay claim.</p>

**Undertake Renewal and Replacement Projects**

<p><b>Cameron Street Water Main - Phase 4</b></p>	<p>The contractor will remobilize in April 2024 to complete remainder of the water main lining work.</p>
<p><b>2023 Sewer System Improvements (Trenchless)</b></p>	<p>Standard Pipe Services has remobilized to clean and televise sewer pipes. Cured-in-place pipe (CIPP) lining work will resume in April 2024.</p>
<p><b>2024 Sewer System Improvements</b></p>	<p>The project is in final design stage and will be advertised for bids in mid-April.</p>
<p><b>Arsenal Boulevard Sewer Improvements</b></p>	<p>PENNVEST loan settlement for this project will be held on 4/10/2024. Notice to Proceed will then be issued to the contractor.</p>
<p><b>Front Street Interceptor Rehabilitation - Phase 2</b></p>	<p>The contractor is performing miscellaneous punch list items in Riverfront Park which should be completed in April.</p>
<p><b>Water Facility Maintenance</b></p>	<p>The Water Maintenance group completed various repairs throughout the Water Treatment Facility, pumping stations, and at the Administrative Offices throughout the month. A narrative is provided in the Drinking Water Department Monthly Report for February.</p>

<b>Wastewater Facility Maintenance</b>	The Wastewater Maintenance group completed various repairs throughout the Advanced Wastewater Treatment Facility (AWTF), pumping stations, and at the Administrative Offices throughout the month. A narrative is provided in the Wastewater Department Monthly Report for February.
<b>Sinkhole Program</b>	Five sinkholes were investigated by CRW in the month of February. None were due to failure of a CRW asset.
<b>Inlet Cleaning</b>	Two stormwater inlets were cleaned during the month of February. Field Construction replaced one inlet during a stormwater pipe replacement project on Burma Street and blanked four inlets for debris control at various locations.

**Operate as an Efficient, Sustainable and Resilient Water Utility**

<b>DeHart Property Stewardship</b>	In accordance with the DeHart Property Forest Management Plan: <ul style="list-style-type: none"> <li>• A regeneration harvest is underway in Management Units (MUs) 20, 34, 36, and 37 (approximately 155 acres). Harvest will improve forest health and release regeneration of a more desirable understory.</li> <li>• Harvest is underway in MUs 40 and 42 (approximately 135 acres). Harvest prescription supports overstory removal to release regeneration.</li> <li>• A Notice of Intent to Award was provided for timber harvest MU 12 (approximately 140 acres). The sale will proceed pending compliance with CRW requirements.</li> </ul>
<b>Sustainability</b>	A Request for Proposal (RFP) for a solar development project was issued on 1/8/2024 and a pre-proposal site visit was hosted on 1/29/2024. Proposals were received on 2/21/2024. Staff are reviewing and evaluating proposals.
<b>Internal Communications</b>	Intranet [REDACTED] site continues to be used. The internal quarterly newsletter, The Daily Flow, was issued on 03/01/2024.

**Inform and Listen to Customers and Encourage Stewardship of our Systems**

<b>Media Relations - Press and Social Media</b>	<p><b>PRESS RELEASES:</b> N/A.</p> <p><b>SOCIAL MEDIA TOPICS:</b></p> <p><b>Facebook/Instagram:</b> +14 FB/+10 IG New Followers (TOTAL: 1,670 FB and 744 IG). Five (5) Posts; Highest Engaged Post: "Cloudy Water?" (335 Reachs, 5 Reactions, 4 Shares, 0 comments); Other topics: Snow Delays, Boil Water Advisory Notice, and Project update.</p> <p><b>Nextdoor:</b> Stats: 7,641 Total Members (152 New members); Two (2) Post.</p> <p><b>2023 Demographics:</b> Most Active Age-range: 25-54; Gender Division: 62% Women / 37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camp Hill and Lancaster.</p>
<b>Community Relations</b>	<p><b>Community Outreach:</b></p> <ul style="list-style-type: none"> <li>• Zero (0) community events.</li> <li>• Zero (0) facility tours.</li> <li>• One (1) community meeting: Kensington Street Sewer Repair Project Public Meeting to fifteen (15) impacted residents and interested community stakeholders.</li> <li>• Delivered seventeen (17) door-to-door notifications, impacting approximately two hundred sixty-four (264) customers. Included seven (7) lead risk mitigation notices and four (4) project notices.</li> <li>• Zero (0) Everbridge alerts.</li> </ul>

<b>Public Communications</b>	<b>WHAT'S ON TAP COMMUNICATION:</b> The February monthly bill stuffer was distributed as a bill insert. Topics included: New rates and new water meters.
<b>Business Diversity</b>	No update.

Administrative	
<b>Risk Management</b>	<p><b>Executive Summary:</b></p> <p>Total Claims: 44  Open: 16  Closed: 28</p> <p><b>Insurance Line Claim Count:</b></p> <p>Auto: 4  General Liability: 24  Public Officials: 2  Property: 1  Workers Compensation: 12  Surety Claim: 1</p>
<b>Human Resources</b>	See attached Recruiting Status Report.
<b>Procurement</b>	<p><b>Recommend Board approval of the following:</b></p> <ul style="list-style-type: none"> <li>• Procurement of Pollu-Treat® C-583 Super Sacks from Pollu-Tech, Inc. through COSTARS.</li> <li>• Ratification of Change Order No. 1 for the cost increase in the Lime Slurry Tank Feed System from Coastal Technical Sales through COSTARS.</li> </ul> <p><b>Updates:</b></p> <ul style="list-style-type: none"> <li>• Completion of Microsoft 365 license renewals with IT deployment 3/1/2024.</li> <li>• Working with AWTF to develop a tighter Scope of Work and Technical Specifications to trouble shoot and repair motors, pumps, etc. to convert business process outsourcing (BPO's) to service contracts for Co-Gen engine service and machine shop repairs.</li> <li>• Capital Improvement Project (CIP) meetings continue ongoing with Drinking Water, Wastewater and Stormwater departments to plan for respective quarterly planning. Currently planning 2024-201 Flocculation &amp; Sedimentation Basins Safety Railings through PennBid.</li> <li>• Procurement and AWTF working together on Scope of Work and Bid Specifications for Bio Solids Hauling.</li> <li>• Procurement continues to work with Compliance / Risk Management for personal protection equipment (PPE) project.</li> </ul>

<b>Information Technologies (IT)</b>	<p>[Redacted content]</p>
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<p><b>Office Management and Admin Professional Services and Construction</b></p>	<p><b>Incoming Correspondence Report:</b> Refer to attached Incoming Correspondence Report for February 2024.</p> <p><b>Street/Sidewalk-Cut Permits:</b> Four (4) Drinking Water and one (1) Wastewater permits were issued. No permits were successfully completed, inspected, and closed by the City of Harrisburg's Engineer.</p> <p><b>Fleet Management (Acquisitions):</b> Assisted Operations staff in compiling 2024 budgeted vehicles and equipment, specifications and obtaining quotes from vendors.</p> <p><b>Accepted Deliveries:</b></p> <ul style="list-style-type: none"> <li>• G-107 - 2024 Hawke Dump Trailer - CRW accepted delivery on 2/27/2024 (Wastewater).</li> <li>• G-91 - 2023 Ford F-250 Super Duty Regular Truck w/Service Body Upfit - CRW accepted delivery on 3/19/2024 (Wastewater).</li> <li>• C-99 - 2023 Ford F-250 Super Duty XL Super Cab Truck w/Upfit - CRW accepted delivery on 3/20/2024 (Drinking Water - Trade-in of C-13).</li> </ul> <p><b>Recommend Board approval of the following:</b></p> <p><b>Drinking Water:</b></p> <ul style="list-style-type: none"> <li>• C-108 - 2024 Peterbilt Cab and Chassis from [REDACTED] through COSTARS.</li> </ul> <p><b>Wastewater:</b></p> <ul style="list-style-type: none"> <li>• G-99 - 2024 Ford Transit High-Roof (CCTV) Cargo Van from [REDACTED] and EnviroSight Rover X Camera System Build-out and Ancillary Items Upfit from [REDACTED] through COSTARS.</li> <li>• G-100 - 2024 John Deere 50G Mini Excavator from [REDACTED] through COSTARS.</li> <li>• G-101 - 2023 Ford F-250 Super Duty XL Regular Cab 4X4 Truck from [REDACTED] and Ancillary Items Upfit from [REDACTED] through COSTARS.</li> <li>• G-102 - 2024 Ford F-350 Super Duty Regular Cab 4X4 Truck from [REDACTED] and Service Body Upfit from [REDACTED] through COSTARS.</li> <li>• G-103 - 2024 Ford F-150 XL Regular Cab 4X4 Truck from [REDACTED] and Ancillary Items Upfit from [REDACTED] through COSTARS.</li> <li>• G-104 - 2023 Ford F-250 XL Super Duty XL Super Cab 4X4 Truck from [REDACTED] and Service Body Upfit from [REDACTED] through COSTARS.</li> <li>• G-105 - 2024 Ford F-350 XL Super Duty Super Cab 4X4 Truck from [REDACTED] and Service Body, Snowplow and Lift Gate Upfit from [REDACTED] through COSTARS.</li> <li>• G-106 - 2024 John Deere 320P HL Backhoe from [REDACTED] through COSTARS.</li> </ul> <p><b>Fleet Management (Completed Dispositions sold thru Municibid)</b></p> <p><b>Wastewater:</b></p> <ul style="list-style-type: none"> <li>• G-34 - 2013 Toro 60" Cut Z-Master Professional Mower Model #74926. Bid on Municibid. Bids closed 3/15/2024 @ 7:54 a.m. [REDACTED]</li> </ul>
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<b>Right-to-Know Requests</b>	<p>CRW has received and responded to one (1) Right-to-Know request during the period 2/22/2024 through 3/20/2024. Other informational requests were identified as not being formal RTK requests and/or were transferred to the Customer Service Center for appropriate response throughout the month.</p> <p><b>OOR Training:</b> Attended webinar on Specificity and the RTKL on 3/6/2024.</p> <p><b>RTK 2024-002 - Cory Hambrick (City of Allentown)</b> - Request for any data or statistics regarding grants or water payment assistance awarded (including LIHWAP and other Customer Assistance Programs) for the period 2022 to present. <b>Response due: 3/14/2024. Response provided 3/12/2024.</b></p>
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**WATER**

# **Reconciled Bank Account Balances**

# Reconciled Bank Account Balances

02/29/2024

Unrestricted Cash Accounts	Balance	APY	Bank	
<b>ADMIN</b>				
Business Checking-6908	\$ 7,585.83	0.65%	First National Bank	
Money Market-Admin-0621	\$ 440,163.19	5.22%	First National Bank	
FNB Lockbox-6393	\$ 377,970.33	0.0000%	First National Bank	
General Account-7892	\$ 1,206,400.73	0.00%	First National Bank	
Project Fund-6990	\$ 457,412.45	4.59%	First National Bank	
<b>WATER</b>				
Water Revenue Fund-6833	\$ 269,157.63	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Water-0639	\$ 14,916,959.47	5.22%	First National Bank	
Water 2022 Pennvest-1878	\$ 14,846.18	0.00%	First National Bank	
<b>SEWER</b>				
Sewer Revenue Account-5819	\$ 147,423.71	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Sewer-0589	\$ 6,949,282.49	5.22%	First National Bank	
Sewer 2021 Pennvest-5846	\$ 14,989.30	0.00%	First National Bank	
Sewer Pennvest-3642	\$ 53,359.04	0.00%	First National Bank	
Sewer 2022 Pennvest-6430	\$ 32,839.91	0.00%	First National Bank	
<b>STORMWATER</b>				
Stormwater Revenue Account-8814	\$ 279,068.24	0.00%	First National Bank	Earnings Generated offset fees for Services
Stormwater Money Market-4633	\$ 3,535,502.13	5.22%	First National Bank	
Stormwater Pennvest-0241	\$ 16,251.78	0.00%	First National Bank	
<b>Restricted Cash Accounts</b>				
<b>WATER</b>				
Water 2016A Debt Service Reserve-517295	\$ 5,966,554.47	5.180%	Bank of New York	
Water 2016A Debt Service Fund-517296	\$ 3,914,142.55	5.180%	Bank of New York	
Water 2018 Debt Service Reserve-763549	\$ 4,320,566.04	5.180%	Bank of New York	
Water 2018 Debt Service Fund-763548	\$ 259,000.95	5.180%	Bank of New York	
Water 2018 Bond-Construction-763594	\$ -	4.870%	Bank of New York	
<b>SEWER</b>				
Wastewater 2017 Debt Service Reserve-721503	\$ 3,009,756.37	5.18%	Bank of New York	
Wastewater 2017 Debt Service Fund-721387	\$ 746,361.19	5.18%	Bank of New York	
<b>Investment Accounts</b>				
<b>ADMIN</b>				
Certificate of Deposit – Natl Civil War Museum	\$ 250,000.00	0.1499%	First National Bank	Restricted \$250,000 min/\$500,000 max
<b>WATER</b>				
PLGIT Investment Feb 2024	\$ 500,000.00	4.980%	PLGIT	
PLGIT Investment May 2024	\$ 500,000.00	5.240%	PLGIT	
Water CD Feb 2024	\$ 1,000,000.00	5.0000%	First National Bank	
Water CD Mar 2024	\$ 1,000,000.00	4.5400%	First National Bank	
<b>SEWER</b>				
Sewer CD May 2024	\$ 500,000.00	5.30000%	First National Bank	



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**WATER**

# **Grant Management Report**

GRANT OVERVIEW											
Funding	Program	Project	Proposal Due Date	Anticipated Announcement Date	Date of Notification	Request Amount	Request Type (Cash vs. Loan)	CRW Matching Amount	\$\$\$ Awarded	Loan Disbursed	Rationale/Notes
<b>Capital Region Water's Pending Grant &amp; Loan Applications</b>											
Department of Community and Economic Development	COVID-19 ARPA H2O PA - Small Water Supply, Sanitary Sewer and Storm Water Projects	Paxton Creek Interceptor Site Preparation Project	12/21/2022	N/A	12/19/2023	\$10,500,000	Cash	\$12,275,105	\$3,500,000	\$0	
FY24 Community Project Funding Appropriations Request	Green Stormwater Infrastructure	Paxton Creek Restoration Planning Project	4/25/2023	Early to mid-2024	N/A	\$500,000	Cash	TBD	\$0	\$0	
National Fish and Wildlife Foundation	Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant	Enhancing Community Connections Through Clean Water Project	Initial - 11/17/2022 Additional - 12/14/2023	Additional - Anticipated Early 2024	Initial - 5/30/2023	\$1,000,000	Cash	\$300,000	\$0	\$0	Notified on 5/30/2023 that CRW was not selected for grant funding  Notified 11/21/2023 that NFWF was receiving additional funding for 2023 INSR funding round. CRW opting to resubmit with application due 12/14/2023
<b>SUB TOTALS</b>						<b>\$12,000,000</b>		<b>\$12,575,105</b>		<b>\$0</b>	
<b>Capital Region Water's Awarded Grant, Loan and Bond Proceeds</b>											
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Infrastructure Loan	COMPLETED	10/21/2020	10/21/2020	\$65,000,000	Loan	\$1,000,000	\$65,000,000	\$15,406,021	\$960,364.95 submitted for reimbursement on 1/10/2024
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Collection System Rehab Loan	COMPLETED	9/2/2021	9/2/2021	\$21,000,000	Loan	\$500,000	\$21,000,000	\$6,023,430	
PENNVEST	Infrastructure (Projects)	ProFi Green Infrastructure PENNVEST Loan	COMPLETED	10/16/2019	10/16/2019	\$13,000,000	Loan	\$0	\$13,000,000	\$6,324,749	Amount due from COH - \$216,430  \$576,244 submitted for reimbursement on 12/21/2023
PENNVEST	Infrastructure (Projects)	Front Street Pump Station Upgrade	COMPLETED	7/18/2018	7/18/2018	\$11,136,900	Loan	\$0	\$11,136,900	\$10,580,055	\$556,748 is PENNVEST holdback amount for project
PENNVEST	Infrastructure (Projects)	ProFi Drinking Water System Improvements	COMPLETED	4/20/2022	4/20/2022	\$41,622,000	Loan	\$0	\$41,622,000	\$3,776,746	Phase 3 settled on 9/19/2023  \$646,023 submitted for reimbursement on 12/21/2023  \$1,236,461 submitted for reimbursement on 1/10/2024  \$332,878 to be submitted in February after DEP approval of Change Order
FEMA	Coronavirus (COVID-19) Pandemic: Safe Opening and Operation Work Eligible for Public Assistance	FEMA COVID Relief	COMPLETED	7/13/2021	7/13/2021	\$103,258	Cash	\$0	\$103,258	\$103,258	Awarded on 2/7/2022  Final payment of \$10,326 received on 5/9/2023
Susquehanna River Basin Commission (SRBC)	2023 Comsumptive Use Mitigation Grant Program	Advanced Metering Infrastructure Upgrade Project	1/31/2023	April 2023	4/21/2023	\$250,000	Cash	\$2,070,000	\$250,000	\$0	Award letter received on 4/21/2023  PENNVEST Drinking Water Pro-Fi Phase 3 settled on 9/19/2023
<b>SUB TOTALS</b>						<b>\$152,112,158</b>		<b>\$3,570,000</b>	<b>\$152,112,158</b>	<b>\$42,214,259</b>	
<b>Capital Region Water's Unawarded Grants &amp; Loans</b>											
FY23 Community Project Funding Appropriations Request	Green Stormwater Infrastructure	Riverfront Park Green Infrastructure Project	4/25/2022	Notified mid-2023	Notified mid-2023	\$2,000,000	Cash	\$600,000	\$0	\$0	Not awarded due to State budget issues
<b>SUB TOTALS</b>						<b>\$2,000,000</b>		<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	



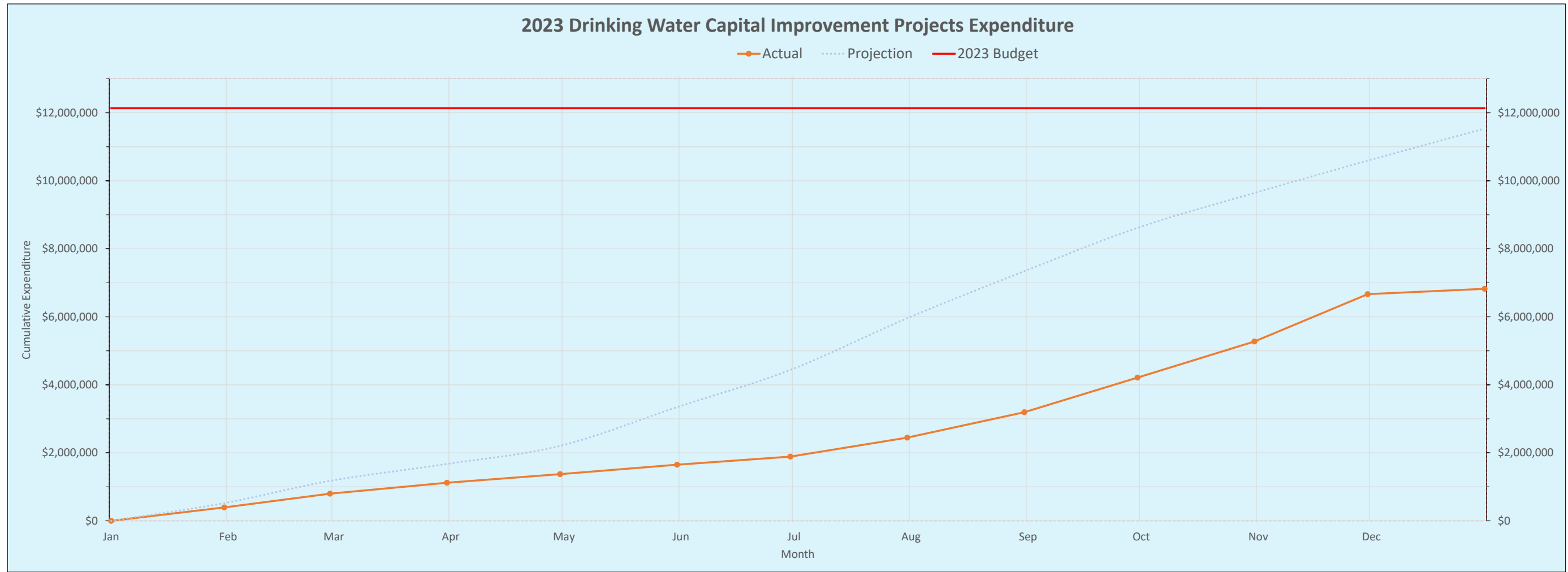
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**WATER**

**2023 and 2024  
Capital Improvement Projects  
Report**

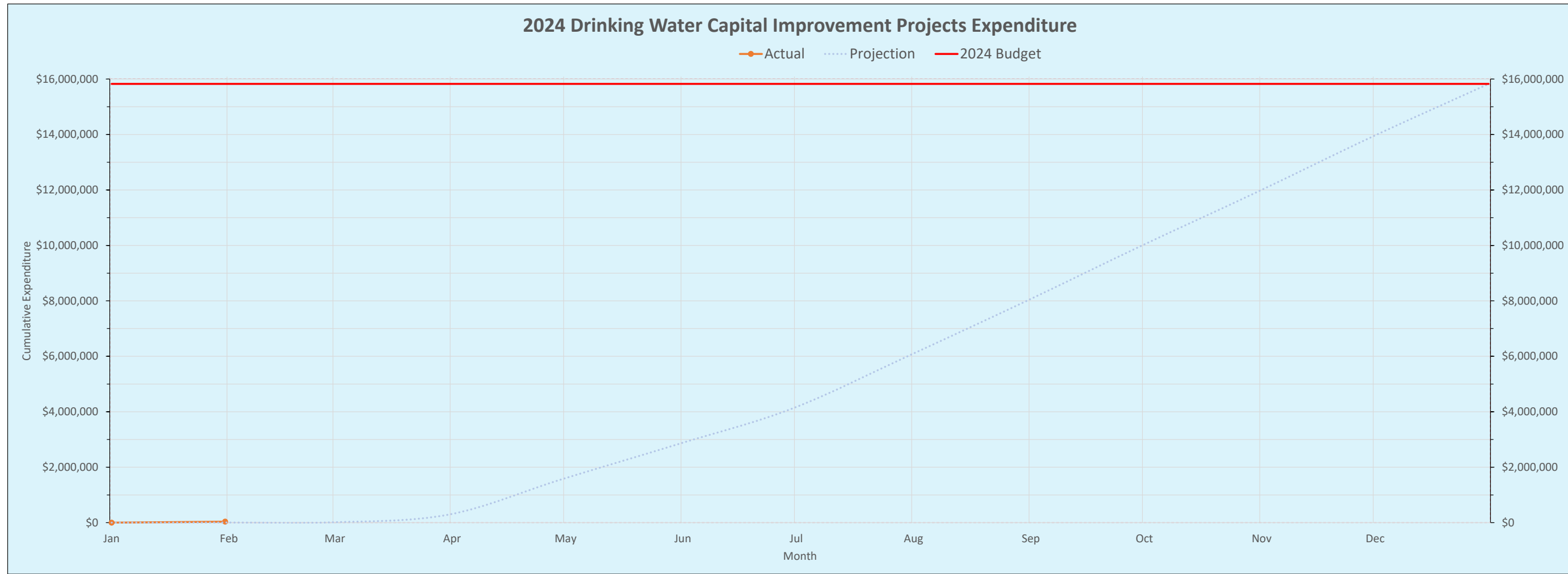
# Drinking Water Capital Improvement Projects Report



### ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Actual Expenditure (from Finance)												Actual Expenditure YTD	% Budget Expended	2023 Budget	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
60800801-80100-00006	Mountain Line Repairs	STUDY	\$ 5,159	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,571	\$ -	\$ 4,723	\$ -	\$ 35,913	\$ 49,366	60%	\$ 82,500
60800801-80100-00015	Water Main Replacement	CONSTRUCTION	\$ 17,020	\$ 1,587	\$ 13,120	\$ 42,434	\$ 44,230	\$ 4,265	\$ 4,438	\$ 15,450	\$ 47,809	\$ 11,325	\$ 1,060	\$ 49,022	\$ 251,759		\$ -	
60800801-80100-00016	Water Main Condition Assessment	STUDY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 100,000
60800801-80100-00118	Water PennDOT I-83 Expansion	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 24,500
60800801-80100-00226	2022 Water System Improvement (PV)	CONSTRUCTION	\$ 266,133	\$ 39,555	\$ 230,907	\$ 166,349	\$ 210,541	\$ 195,090	\$ 232,386	\$ 692,320	\$ 58,426	\$ 333,920	\$ 17,520	\$ 20,977	\$ 2,464,124	87%	\$ 2,843,662	
60800801-80100-00228	Cameron St. Water Main Improve (PV)	DESIGN	\$ 30,741	\$ 13,100	\$ 9,755	\$ 1,061	\$ 2,376	\$ 13,069	\$ 311,685	\$ 19,951	\$ 899,779	\$ 708,518	\$ 1,372,200	\$ 34,997	\$ 3,417,232	54%	\$ 6,348,000	
60800801-80100-00229	Water Meter Network Conversion (PV)	DESIGN	\$ 4,765	\$ 5,905	\$ 9,885	\$ 6,873	\$ 2,320	\$ 5,054	\$ 2,706	\$ 1,050	\$ 2,432	\$ 3,255	\$ 1,482	\$ 1,327	\$ 47,054	3%	\$ 1,650,000	
60800801-80100-00230	DeHart Dam Improvements PV	DESIGN	\$ 70,996	\$ 19,920	\$ 47,120	\$ 31,025	\$ 16,895	\$ 13,662	\$ 6,058	\$ 5,048	\$ 7,630	\$ -	\$ -	\$ 14,393	\$ 232,746	52%	\$ 445,000	
60800801-80300-00303	Flocculation Equipment Upgrade	CONSTRUCTION	\$ -	\$ 323,960	\$ 9,360	\$ 7,878	\$ 1,433	\$ 3,861	\$ 1,181	\$ 10,189	\$ 3,126	\$ -	\$ -	\$ -	\$ 360,988	56%	\$ 641,859	
<b>Actual Monthly Expenditure</b>			<b>\$ 394,813</b>	<b>\$ 404,027</b>	<b>\$ 320,147</b>	<b>\$ 255,621</b>	<b>\$ 277,795</b>	<b>\$ 235,001</b>	<b>\$ 558,454</b>	<b>\$ 747,578</b>	<b>\$ 1,019,201</b>	<b>\$ 1,061,741</b>	<b>\$ 1,392,262</b>	<b>\$ 156,629</b>	<b>\$ 6,823,269</b>	<b>56.2%</b>	<b>\$ 12,135,521</b>	
<b>Actual CUMULATIVE Expenditure 0</b>			<b>\$ 394,813</b>	<b>\$ 798,841</b>	<b>\$ 1,118,987</b>	<b>\$ 1,374,608</b>	<b>\$ 1,652,403</b>	<b>\$ 1,887,404</b>	<b>\$ 2,445,857</b>	<b>\$ 3,193,435</b>	<b>\$ 4,212,637</b>	<b>\$ 5,274,378</b>	<b>\$ 6,666,640</b>	<b>\$ 6,823,269</b>				

# Drinking Water Capital Improvement Projects Report



### ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Actual Expenditure (from Finance)												Actual Expenditure YTD	% Budget Expended	2024 Budget		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
60800801-80100-00006	Mountain Line Repairs	STUDY															\$ -	0%	\$ 82,500
60800801-80100-00015	Water Main Replacement	DESIGN															\$ -	0%	\$ 2,869,393
60800801-80100-00016	Water Main Condition Assessment	STUDY															\$ -	0%	\$ 100,000
60800801-80100-00118	Water PennDOT I-83 Expansion	CONSTRUCTION															\$ -	0%	\$ 508,400
60800801-80100-00134	Elliot St. Water Main Replacement	DESIGN															\$ -	0%	\$ 482,000
60800801-80100-00135	Broad St. Market Wtr Main Replacement	CONSTRUCTION															\$ -	0%	\$ 798,600
60800801-80100-00228	Cameron St. Water Main Improve (PV)	CONSTRUCTION	\$ 5,940														\$ 5,940	0%	\$ 8,208,000
60800801-80100-00229	Water Meter Network Conversion (PV)	CONSTRUCTION	\$ 4,959														\$ 4,959	0%	\$ 2,708,403
60800801-80100-00230	DeHart Dam Improvements PV	DESIGN	\$ 24,856														\$ 24,856	36%	\$ 69,000
<b>Actual Monthly Expenditure</b>			<b>\$ 35,755</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 35,755</b>	<b>0.2%</b>	<b>\$ 15,826,296</b>
<b>Actual CUMULATIVE Expenditure 0</b>			<b>\$ 35,755</b>																

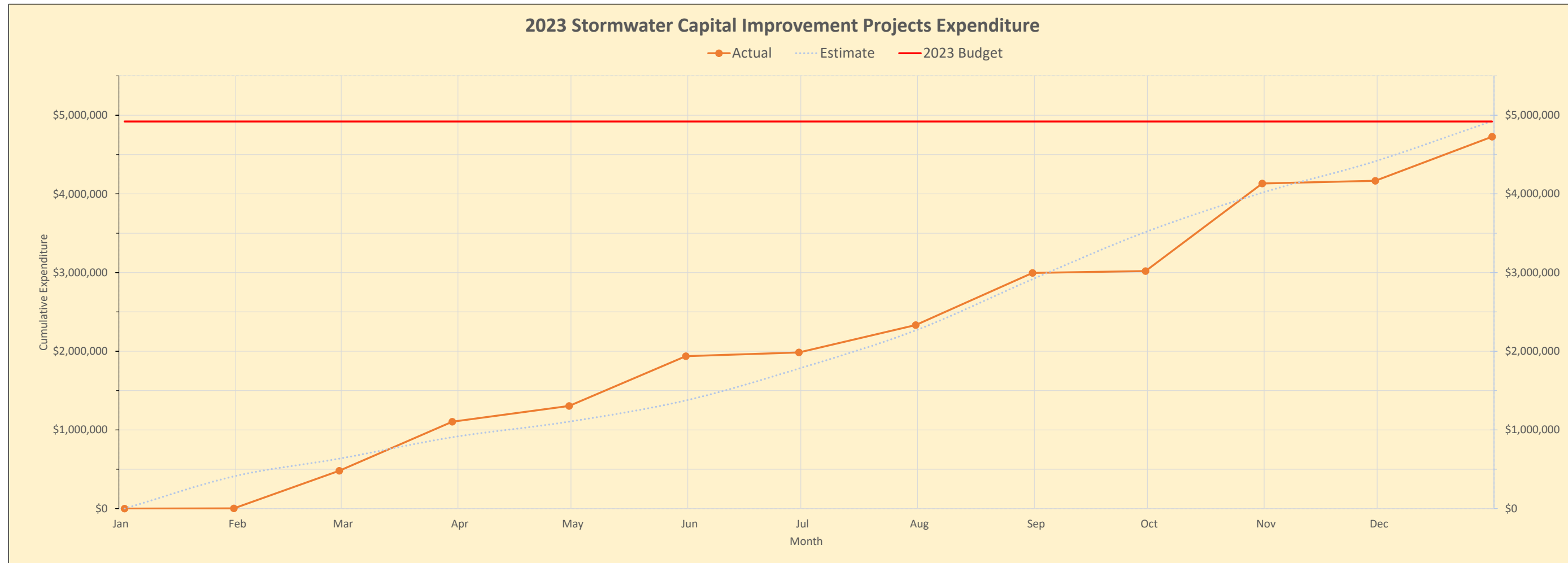




### ACTUAL EXPENDITURE (from Finance)

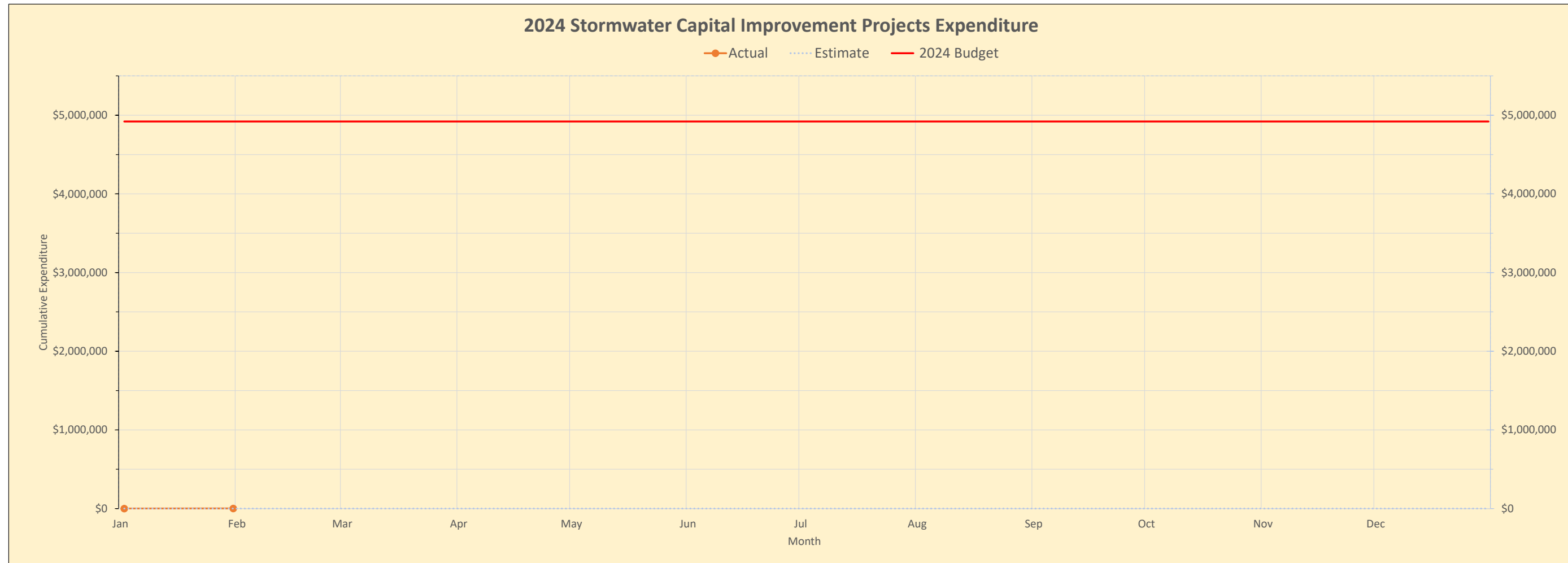
MUNIS Project Code	Description	Status	Actual Expenditure (from Finance)												Actual Expenditure YTD	% Budget Expended	2023 Budget
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
80800801-80100-00023	AWTF Energy Recovery Improv	DESIGN	\$ -	\$ -	\$ -	\$ 11,830	\$ -	\$ -	\$ 9,867	\$ -	\$ 251,159	\$ -	\$ 702,603	\$ 110,830	\$ 1,086,289	13%	\$ 8,074,562
80800801-80100-00024	Primary Clarifier Improvement	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,503	\$ 264	\$ -	\$ 3,123	\$ -	\$ 17,923	\$ 22,813	14%	\$ 168,000
80800801-80100-00026	Collection System Rehab	CONSTRUCTION	\$ 131,057	\$ 190,622	\$ 127,034	\$ 735,728	\$ 54,308	\$ 21,915	\$ 216,097	\$ 59,854	\$ 240,420	\$ 33,890	\$ 575,446	\$ 506,679	\$ 2,893,050	169%	\$ 1,707,000
80800801-80100-00028	Paxton Creek Interceptor Repair	STUDY	\$ -	\$ -	\$ 4,040	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132	\$ -	\$ -	\$ 4,172	1%	\$ 465,000
80800801-80100-00061	Arsenal Boulevard Sewer Improvements	DESIGN	\$ -	\$ 2,877	\$ 2,987	\$ 9,885	\$ -	\$ 308	\$ 22,278	\$ 3,545	\$ 2,295	\$ 5,536	\$ -	\$ 13,160	\$ 62,871	2%	\$ 2,689,400
80800801-80100-00065	Other Multi-Modal CCTV Investigation	STUDY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51,131	\$ 264,733	\$ -	\$ 315,864	63%	\$ 500,000
80800801-80100-00083	Front St Interceptor Rehab P2	CONSTRUCTION	\$ -	\$ 290,525	\$ 52,434	\$ 2,811,899	\$ 4,443,109	\$ 699,579	\$ 1,395,961	\$ 128,883	\$ 5,940,404	\$ 75,282	\$ 34,524	\$ 1,005,681	\$ 16,878,281	105%	\$ 16,017,826
80800801-80100-00115	PennDOT I-83 Expansion	DESIGN	\$ 8,647	\$ 3,358	\$ 1,115	\$ 140,699	\$ 3,113	\$ 1,015	\$ 52,493	\$ 3,232	\$ 8,397	\$ 11,305	\$ -	\$ 10,966	\$ 244,341	60%	\$ 405,000
80800801-80100-00126	3rd & Wiconisco Separation	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,063	\$ 609	\$ -	\$ -	\$ 3,311	\$ 4,630	\$ 21,732	\$ 32,344	14%	\$ 230,000
80800801-80100-00127	Ww Sewer Rehab Pennvest \$21M	CONSTRUCTION	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 152,411	\$ 191,435	\$ 337,983	\$ 17,422	\$ -	\$ 883,719	\$ 3,002,112	75%	\$ 3,993,881
80800801-80100-00132	Ww Sewer Rehab Pennvest \$21M Phase 2	CONSTRUCTION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 204,221	\$ 1,658	\$ 51,484	\$ 69,898	\$ -	\$ 34,222	\$ -	-	-
80800801-80100-00133	Ww Sewer Rehab Pennvest \$21M Phase 3	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,871	\$ 17,973	\$ 28,322	\$ 11,132	\$ -	\$ 68,897	\$ -	-	-
80800801-80100-00128	Primary Digester Insulation	STUDY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 500,000
<b>Actual Monthly Expenditure 0</b>			\$ 292,115	\$ 639,794	\$ 340,020	\$ 3,862,452	\$ 4,652,941	\$ 877,291	\$ 2,072,310	\$ 406,845	\$ 6,860,463	\$ 231,030	\$ 1,368,334	\$ 2,938,542	\$ 24,542,137	70.6%	\$ 34,750,669
<b>Actual CUMULATIVE Expenditure 1</b>			\$ 292,115	\$ 931,909	\$ 1,271,929	\$ 5,134,381	\$ 9,787,322	\$ 10,664,612	\$ 12,736,923	\$ 13,143,767	\$ 20,004,231	\$ 20,235,261	\$ 21,603,595	\$ 24,542,137			





### ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	Actual Expenditure (from Finance)												Actual Expenditure YTD	% Budget Expended	2023 Budget
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
90800801-80100-00087	Camp Curtin Big Green Block GSI	CONSTRUCTION	\$ -	\$ 201,231	\$ 601,170	\$ 73,981	\$ 355,934	\$ 3,558	\$ 18,327	\$ -	\$ -	\$ -	\$ -	\$ 695	\$ 1,254,896	213%	\$ 588,904
90800801-80100-00091	Paxton Crk TMDL Joint PRP MS4	CONSTRUCTION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 180,400
90800801-80100-00108	SW Pond Retrofit - Bellevue Pa	CONSTRUCTION	\$ -	\$ 270,296	\$ 14,646	\$ 114,783	\$ 269,016	\$ -	\$ -	\$ 12,442	\$ -	\$ -	\$ -	\$ -	\$ 681,183	233%	\$ 292,874
90800801-80100-00124	Sw PENNVEST Pro-Fi Phase 4	CONSTRUCTION	\$ -	\$ -	\$ 4,511	\$ 1,751	\$ 7,916	\$ 6,268	\$ 329,505	\$ 636,271	\$ 11,875	\$ 1,112,860	\$ 34,465	\$ 549,140	\$ 2,694,561	93%	\$ 2,901,302
90800801-80100-00125	Sw PENNVEST Pro-Fi Phase 5	DESIGN	\$ 3,180	\$ 6,751	\$ 2,225	\$ 10,432	\$ -	\$ 37,155	\$ -	\$ 26,268	\$ -	\$ -	\$ -	\$ 10,259	\$ 96,269	13%	\$ 770,000
90800801-80100-00130	PHEAA Campus GSI	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 37,000
90800801-80100-00131	Reservoir Park - Phase 2 GSI	DESIGN	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	\$ 150,000
<b>Actual Monthly Expenditure 0</b>			<b>\$ 3,180</b>	<b>\$ 478,278</b>	<b>\$ 622,551</b>	<b>\$ 200,946</b>	<b>\$ 632,866</b>	<b>\$ 46,981</b>	<b>\$ 347,832</b>	<b>\$ 662,539</b>	<b>\$ 24,317</b>	<b>\$ 1,112,860</b>	<b>\$ 34,465</b>	<b>\$ 560,095</b>	<b>\$ 4,726,909</b>	<b>96.1%</b>	<b>\$ 4,920,480</b>
<b>Actual CUMULATIVE Expenditure 1</b>			<b>\$ 3,180</b>	<b>\$ 481,458</b>	<b>\$ 1,104,009</b>	<b>\$ 1,304,955</b>	<b>\$ 1,937,821</b>	<b>\$ 1,984,802</b>	<b>\$ 2,332,634</b>	<b>\$ 2,995,172</b>	<b>\$ 3,019,489</b>	<b>\$ 4,132,349</b>	<b>\$ 4,166,814</b>	<b>\$ 4,726,909</b>			



### ACTUAL EXPENDITURE (from Finance)

MUNIS Project Code	Description	Status	ACTUAL EXPENDITURE (from Finance)												Actual Expenditure		2024 Budget			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	% Budget Expended				
90800801-80100-00085	City Parks GSI	CONSTRUCTION															\$	-	0%	\$ 260,000
90800801-80100-00091	Paxton Crk TMDL Joint PRP MS4	CONSTRUCTION															\$	-	0%	\$ 16,400
90800801-80100-00124	Sw PENNVEST Pro-Fi Phase 4	CONSTRUCTION															\$	-	0%	\$ 2,792,909
90800801-80100-00125	Sw PENNVEST Pro-Fi Phase 5	DESIGN	\$ 1,795														\$	1,795	0%	\$ 1,560,240
90800801-80100-00129	Small Sewer Separation	DESIGN															\$	-	0%	\$ 50,000
<b>Actual Monthly Expenditure</b>			\$ 1,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	1,795	0.0%	\$ 4,679,549
<b>Actual CUMULATIVE Expenditure<sup>1</sup></b>			\$ 1,795																	



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**WATER**

# **Development Stormwater Management Review Summary**



# Development Stormwater Management Review Summary

March 20, 2024  
Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
15th and Walnut Street	Preliminary/Final Development	12/17/2019	1/2/2020	Paxton Creek	Rain Garden/Porous Pavement	3.23	X	X	X	Sent comment letter on 1/2/2020
638-644 Woodbine Street	Preliminary/Final Development	2/12/2020	2/27/2020	Paxton Creek	Control Structure with Weir	0.24	X	X		Sent comment letter on 2/27/2020
1605-1609 Swatara Street	Preliminary/Final Development	1/19/2021	2/2/2021	Paxton Creek	SWM Facility/Porous Pavement	1.68	X		X	Sent comment letter on 2/2/2021
430 Reily Street	Preliminary/Final Development	2/23/2021	3/24/2021	Paxton Creek	Basin	1.69	X	X		Sent comment letter on 3/24/2021
1216 Kittatinny Street/ Hummel Street	Preliminary/Final Development	4/13/2021	5/17/2021	Paxton Creek	Pervious Pavement	0.31	X	X		Sent comment letter on 5/7/2021
1103 S. Front Street	Preliminary/Final Development	5/17/2021	12/21/2021	Susquehanna River/Paxton Creek	Rain Garden, Infiltration Trench, Infiltration Basin	5	X	X	X	Approval letter 12/29/2021
6th & Herr St (Bethel Village)	Preliminary/Final Development	9/3/2021	9/20/2021	Susquehanna River	Underground Infiltration Facility	0.49	X	X	X	Approval letter 9/20/2021
2101 North 6th Street	Preliminary/Final Development	8/17/2021	8/31/2021	Paxton Creek	SW Conveyance	0.71	X			Approval letter 1/18/2022
3rd and Clinton Street	Preliminary/Final Development	9/13/2021	10/4/2021	Paxton Creek	Underground Infiltration Facility and Porous Pavement	0.6	X	X	X	Sent comment letter on 10/4/2021
2426 North 2nd Street	Preliminary/Final Development	12/17/2021	1/5/2022	Paxton Creek	Underground Infiltration Facility / Pervious Pavement	0.17	X	X	X	Sent comment letter on 1/5/2022



# Development Stormwater Management Review Summary

March 20, 2024  
Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
2463 Jefferson Street	Preliminary/Final Development	1/24/2022	1/31/2022	Paxton Creek	Basin	0.54	X	X	X	Sent comment letter on 2/9/2022
1400 Sycamore Street	Preliminary/Final Development	9/1/2022	2/2/2023	Paxton Creek	Underground Storage	0.29	X	X	X	Approval letter 2/2/2023
Catherine Hershey School (6th-7th Street & Muench)	Preliminary/Final Development	6/21/2022	6/22/2022	Paxton Creek	Underground Storage	5	X	X	X	Sent comment letter on 6/22/2022
6th Street Apartments	Preliminary/Final Development	5/22/2023	6/12/2023	Susquehanna River	Rain Garden	0.77	X	X	X	Approval letter 6/12/2023
2151-2161 N. 4th Street	Preliminary/Final Development	7/13/2023	8/2/2023	Susquehanna River	Roof Sump	0.17	X		X	Approval letter 8/2/2023
2709 and 2717 N. Front Street	Preliminary/Final Development	2/9/2023	3/22/2023	Susquehanna River	Rain Garden/Trench	0.87	X	X	X	Sent comment letter on 3/22/2023
6th and Emerald Street	Preliminary/Final Development	4/11/2023	6/16/2023	Susquehanna River/Paxton Creek	Underground Storage	1	X	X	X	Sent comment letter on 9/6/2023
1933 & 1951 Herr Street	Preliminary/Final Development	10/4/2023	6/16/2023	Paxton Creek	Infiltration Trench	0.707	X	X	X	Approval letter 10/16/2023
1610 N. 4th Street	Preliminary/Final Development	10/18/2023	12/12/2013	Susquehanna River	Underground Storage/ Pours Pavement	0.54	X	X	X	Sent comment letter on 12/12/2023



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**WATER**

# **Recruiting Status**



**New Hires**

Position	Employee	Effective Date	Service Area
Laborer I - Drinking Water	Dre'Quan Brown	3/25/2024	Yes
Laborer I - Drinking Water	Durelle White	4/8/2024	No
Customer Care Technician	Corey Bryant	4/1/2024	No
Customer Care Technician	Nathaniel Morales	4/1/2024	No

**Promotions/Transfers**

Employee	Former Position	New Position	Effective Date
Lillian Dolan	Operator I - Wastewater	Laboratory Technician I - Wastewater	3/11/2024

**Left Employment/Resignations/Retirements**

Employee	Position	Effective Date

**Open Positions**

Position	Status	Service Area
Project Manager/Design Engineer	Interview process underway	N/A
Laborer I - Drinking Water	Interview process underway	N/A
Laborer I - Wastewater	Interview process underway	N/A
Operator I - Wastewater	Interview process underway	N/A
Operator I - Wastewater (1 position)	Posted internally	N/A



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**WATER**

# **Incoming Correspondence Report**

# Incoming Correspondence Report

February 2024

Date Received	Date of Correspondence	Company/Agency and Name of Sender	Reference	CRW Addressee/ Received by/ Provided to
2/5/2024	2/1/2024	Herbert, Rowland & Grubic	2022 Water System Improvements Project Executed Contract Closeout Documents	Addressed to: David Stewart Received by: Janice Miller-Zerbe Provided to: Jeff Bowra
2/5/2024	1/30/2024	Herbert, Rowland & Grubic	2023 Sewer System Improvements Project Executed Contract Closeout Documents	Addressed to: David Stewart Received by: Janice Miller-Zerbe Provided to: Jeff Bowra
2/9/2024	2/5/2024	Dauphin County Planning Commission	PA Infrastructure Investment Authority (PENNVEST) Stormwater Programmatic Financing Financial Assistance	Addressed to: Claire Maulhardt Received by: Janice Miller-Zerbe Provided to: Claire Maulhardt



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**WATER**

# Drinking Water





**CAPITAL REGION**<sup>™</sup>  
**WATER**

**DRINKING WATER DEPARTMENT  
MONTHLY REPORT**



Water Services Center Snowstorm Cleanup

**February 2024**

100 Pine Drive, Harrisburg, PA 17103 | 888-510-0606  
[capitalregionwater.com](http://capitalregionwater.com)

## Plant Operations

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Capital Region Water's (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of February. The last plant operator vacancy was filled this month.

The DeHart water source was in service for 29 days. The Susquehanna River water source was in service for zero days. The hydroelectric turbine generator was in service for 29 days.

Specific water quality results are summarized in Exhibit A. As shown in Exhibit B, a total of 220.950 MG, averaging 7.619 MGD was withdrawn from the DeHart water supply source for treatment. A total of 208.444 MG, averaging 7.188 MGD, of finished drinking water was pumped to the distribution system.

The DeHart Watershed had slightly below average rainfall in February (Exhibit C) and the DeHart Reservoir water level increased (Exhibit D). An estimated 697.900 MG of water was released from the DeHart Reservoir to Clark Creek, averaging 24.070 MGD for the month. This downstream flow, which is received by remote flow monitoring from the weir location and actual staff gauge readings, met the flow required by the State Water Allocation Permit (Exhibit E).

## Plant Maintenance

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The Maintenance team performed 52 maintenance work orders and eight corrective maintenance work orders for the month of February using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations, and fleet vehicles. The maintenance specialist vacancy was filled, and three laborer vacancies remain in February.

- The DeHart Dam watershed was patrolled daily and maintained.
- Repainted the walls and doors in the WSC Conference Room.
- Installed larger eductors on the Soda Ash Feeders.
- Installed emergency lighting in the tunnel and upper-level Sludge Room.
- Installed interior/exterior LED Lighting on the Salt Shed.
- Repaired feed tubing for the Chlorine Gas Injection system.
- Replaced damaged ceiling tiles in the Administration building at the Water Service Center.
- Removed the temporary piping and chemical pumps on the temporary Orthophosphate feed system.
- Replaced drop ceiling LED light in the Operations break room.
- Repaired fuel pump at DeHart Dam facility.
- Applied 2b stone on road back to the weir at the DeHart Dam facility.

- Removed large trees that were down above the Carsonville Weir.
- Replaced fittings on the Orthophosphate chemical feed pumps.

## Distribution

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The Distribution group completed the following work during the month of February:

- One fire hydrant was repaired.
- One fire hydrant was replaced.
- Repaired four water main breaks totaling 5,570,376 gallons of water. See locations below:
  - 20<sup>th</sup> and Boas Streets
  - 1700 Block of Parkway Road
  - 3<sup>rd</sup> and Seneca Street
  - 16<sup>th</sup> and North Street
- Repaired seven leaking services totaling 131,760 gallons of water.
- Completed 176 work orders.
- Completed 518 water, sewer, and stormwater locates.
- Worked with contractors on several water, sewer, and stormwater Capital Improvement projects.

## Water Quality

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In addition to overseeing the operation of both the accredited and process laboratories, the Water Quality Administrator also:

- Ensured collection of monthly and quarterly regulatory samples for Total Coliform and E. Coli. There were no exceedances for any of these analytes.
- Received one taste and odor complaint for chlorine in February.



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**WATER**

# **Drinking Water Exhibits**



## EXHIBIT A Water Quality Analysis - 2024

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits
<b>Total Coliform: Presence/Absence</b>														
Distribution System	A	A											A	5% P
<b>Chlorine Residual, mg/L Free</b>														
Filter Plant Effluent	1.94	1.98											1.96	0.2 - 4.0
Distribution System	1.36	1.38											1.37	>0.20
<b>Turbidity, NTU</b>														
Influent from DeHart	1.01	0.93											0.97	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	0.03	0.03											0.03	0.30
<b>pH, Std Units</b>														
Influent from DeHart	6.2	6.2											6.20	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	7.6	7.6											7.57	6.5 - 8.5*
Distribution System	7.4	8.0											7.66	6.5 - 8.5*
<b>Total Alkalinity, mg/L as CaCO3</b>														
Influent DeHart	5	5											5.00	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	18	18											17.99	NA
Distribution System	17	21											18.90	NA
<b>Temperature, degrees C</b>														
Influent from DeHart	7.7	7.2											7.45	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	7.9	7.4											7.63	NA
Distribution System	13.9	15.4											14.64	NA
<b>Fluoride, mg/L</b>														
Filter Plant Effluent	0.82	0.72											0.77	2
<b>Aluminum, mg/L</b>														
Filter Plant Effluent	0.02	0.11											0.07	0.2*
<b>Iron, mg/L</b>														
Influent from DeHart	0.09	0.07											0.08	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	0.01	0.01											0.01	0.3*
Distribution System	0.00	0.05											0.03	0.3*
<b>Total Dissolved Solids, mg/L</b>														
Influent from DeHart	16	16											15.80	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	42	43											42.58	500*
Distribution System	48	45											46.49	500*
<b>Total Hardness, mg/L</b>														
Influent from DeHart	8	8											8.00	NA
Influent from Susquehanna	NA	NA											N/A	NA
Filter Plant Effluent	8	8											8.20	NA
Distribution System	5	7											5.95	NA
<b>Orthophosphate, mg/L</b>														
Filter Plant Effluent	1.24	1.22											1.23	0.7 - 1.3*
Distribution System	1.24	1.25											1.25	0.7 - 1.3*
<b>**Total Trihalomethanes, ug/L</b>														
Distribution System	38.5	NA											38.5	80.0
<b>**Total Haloacetic Acids, ug/L</b>														
Distribution System	33.4	NA											33.4	60.0
<b>Total Organic Carbon, mg/L</b>														
Influent from DeHart	2.30	NA											2.30	NA
Influent from Susquehanna	NA	NA											NA	NA
Filter Plant Effluent	1.30	NA											1.30	NA
Average Filter Run, Hours	114	112											112.95	NA

\*\*\* Not Available at Time of Report

\* Values are related to DEP Secondary MCL

\*\* Running Annual Quarterly Average

**EXHIBIT B**

**Water Production Data - 2024**

Month	DeHart Withdrawal		River Withdrawal		Total Withdrawal		Treated Water		Industrial Wastewater		Finished Water	
	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)
January	236.324	7.623	0.000	0.000	236.324	7.623	235.878	7.609	5.604	0.181	222.400	7.174
<b>February</b>	<b>220.950</b>	<b>7.619</b>	<b>0.000</b>	<b>0.000</b>	<b>220.950</b>	<b>7.619</b>	<b>220.320</b>	<b>7.597</b>	<b>5.081</b>	<b>0.175</b>	<b>208.444</b>	<b>7.188</b>
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
<b>Total</b>	<b>457.274</b>		<b>0.000</b>		<b>457.274</b>		<b>456.198</b>		<b>10.685</b>		<b>430.844</b>	
<b>Average</b>	<b>228.637</b>	<b>7.621</b>	<b>0.000</b>	<b>0.000</b>	<b>228.637</b>	<b>7.621</b>	<b>228.099</b>	<b>7.603</b>	<b>5.343</b>	<b>0.178</b>	<b>215.422</b>	<b>7.181</b>

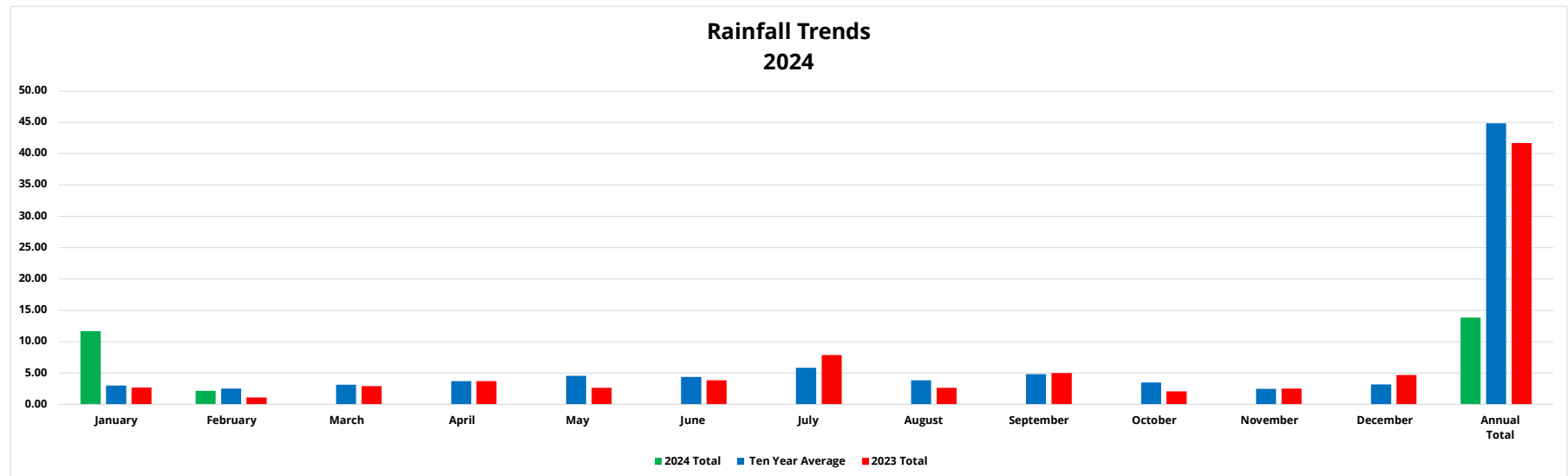
Peak Day Water Use  
Minimum Day Water Use

(MG) = Million Gallons  
(MGD) = Million Gallons per Day

**EXHIBIT C**

**Rainfall at the DeHart Reservoir - 2024**  
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
<b>2024 Total</b>	11.69	2.14											13.83
<b>Daily Average</b>	0.377	0.074											0.451
<b>Ten Year Average</b>	2.992	2.488	3.125	3.713	4.54	4.38	5.842	3.843	4.82	3.489	2.447	3.149	44.828
<b>2023 Total</b>	2.70	1.09	2.93	3.71	2.63	3.85	7.85	2.66	5.00	2.07	2.50	4.71	41.70



**EXHIBIT D**

**Water Level at the DeHart Reservoir - 2024**  
(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
<b>2024 AVG</b>	1.5	3.1										
<b>Ten Year AVG</b>	-39.2	-25.5	-29.6	-8.1	-2.2	-3.9	-9.1	-20.2	-28.4	-41.0	-47.0	-44.3
<b>2023 AVG</b>	-162.9	-58.6	-98.7	1.1	1.8	-10.0	-20.1	-32.3	-49.3	-55.9	-67.1	-48.2

**DeHart Reservoir Water Level Trends**  
**2024**

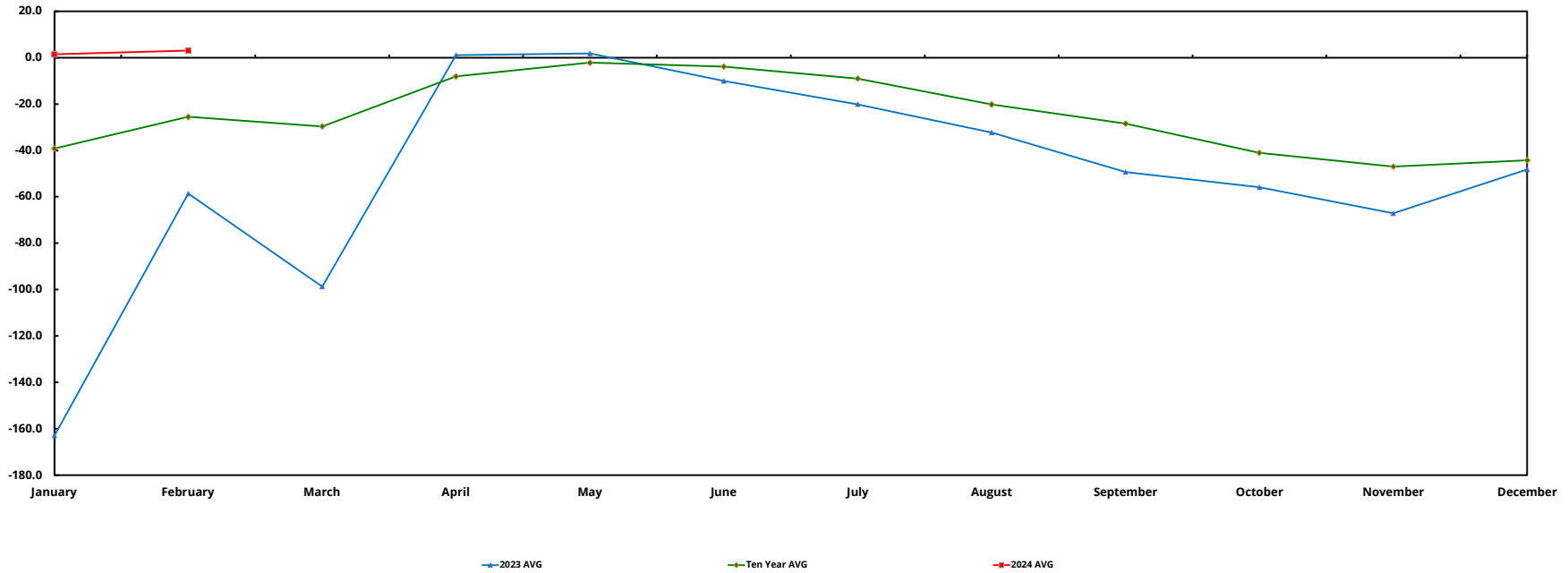


EXHIBIT E

Daily Conservation Release - 2024

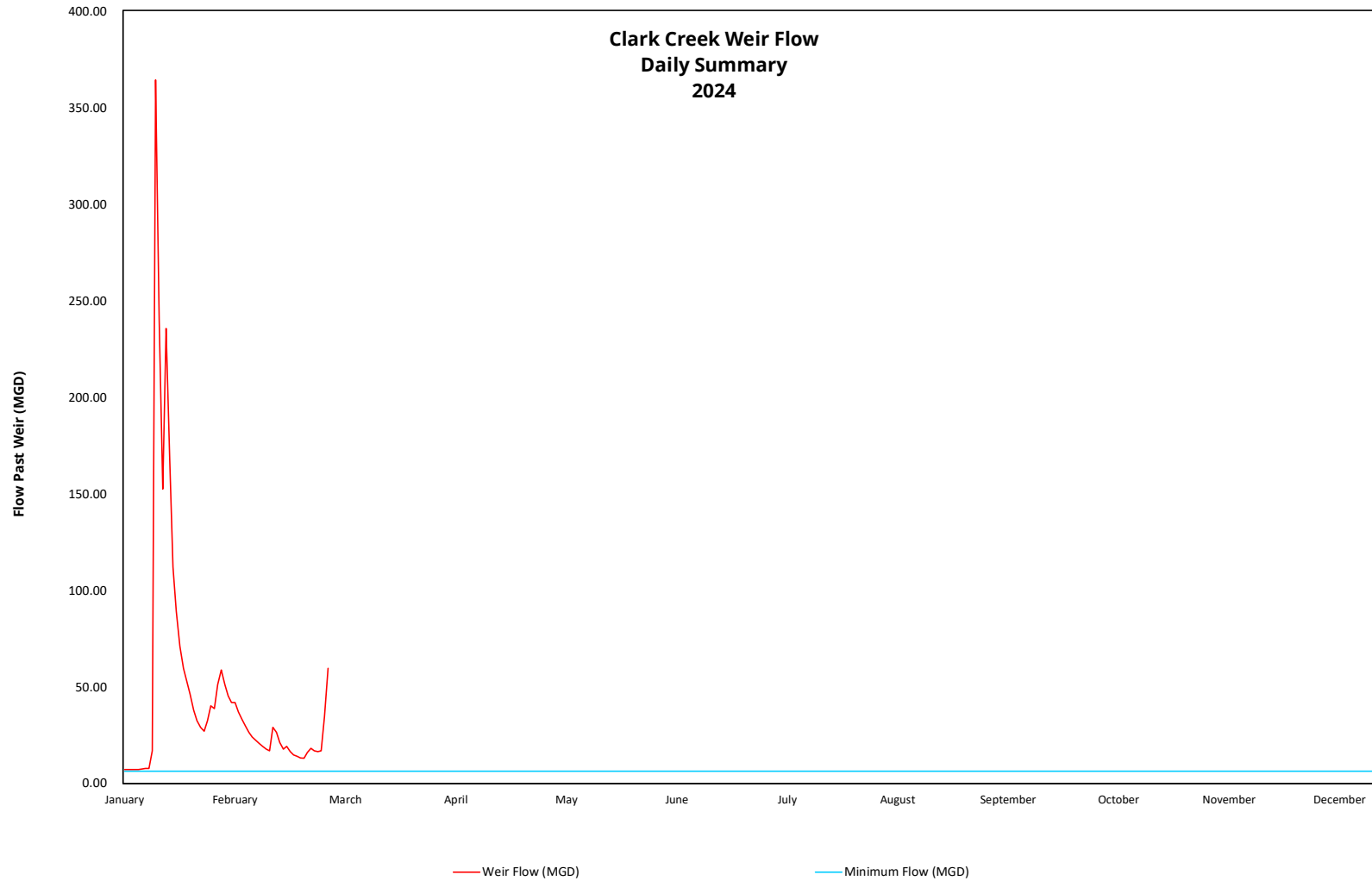




EXHIBIT F  
Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
<b>Water Services Center</b>														
<b>Electric Transmission</b>														
Total, kWh	201,600												201,600	201,600
Cost, Dollars	\$12,309.05												\$12,309.05	\$12,309.05
<b>Electric Generation</b>														
Total, kWh	201,600												201,600	201,600
Cost, Dollars	\$1,103.71												\$1,103.71	\$1,103.71
<b>Natural Gas</b>														
Total, Cu Ft	6,335												6,335	6,335
Cost, Dollars	\$9,791.01												\$9,791.01	\$9,791.01
<b>Sewer</b>														
Total, Gal	6,830,000												6,830,000	6,830,000
Cost, Dollars	\$68,163.40												\$68,163.40	\$68,163.40
<b>Refuse</b>														
Cost, Dollars	\$509.60	\$509.60											\$509.60	\$1,019.20
<b>Reservoir Park Pump Station</b>														
<b>Electric Transmission</b>														
Total, kWh	91,200												91,200	91,200
Cost, Dollars	\$3,909.19												\$3,909.19	\$3,909.19
<b>Electric Generation</b>														
Total, kWh	91,200												91,200	91,200
Cost, Dollars	\$1,489.62												\$1,489.62	\$1,489.62
<b>Natural Gas</b>														
Total, Cu Ft	700												700	700
Cost, Dollars	\$637.43												\$637.43	\$637.43
<b>Susquehanna River Pump Station</b>														
<b>Electric Transmission</b>														
Total, kWh	**													0
Cost, Dollars	**													\$0.00
<b>Electric Generation</b>														
Total, kWh	1,200												1,200	1,200
Cost, Dollars	\$73.18												\$73.18	\$73.18
<b>Natural Gas</b>														
Total, Cu Ft	644												644	644
Cost, Dollars	\$586.53												\$586.53	\$586.53
<b>Union Square Booster Station</b>														
<b>Electric Transmission</b>														
Total, kWh	2,694												2,694	2,694
Cost, Dollars	\$147.60												\$147.60	\$147.60
<b>Electric Generation</b>														
Total, kWh	2,694												2,623	5,245
Cost, Dollars	\$97.29												\$104.82	\$202.11
<b>DeHart Facilities</b>														
<b>Electric Transmission</b>														
Total, kWh	3,007												3,007	3,007
Cost, Dollars	\$160.80												\$160.80	\$160.80
<b>Electric Generation</b>														
Total, kWh	3,007												3,007	3,007
Cost, Dollars	\$95.90												\$95.90	\$95.90
<b>Fuel Oil</b>														
Total, Gals.	0												0	0
Cost, Dollars	\$0.00												\$0.00	\$0.00
<b>City Island Heat Trace</b>														
<b>Electric Transmission</b>														
Total, kWh	136												136	136
Cost, Dollars	\$3.88												\$3.88	\$3.88
<b>Electric Generation</b>														
Total, kWh	136												136	136
Cost, Dollars	\$61.97												\$61.97	\$61.97
<b>Expenditures YTD</b>														\$99,755

\*\* Not available at time report was developed

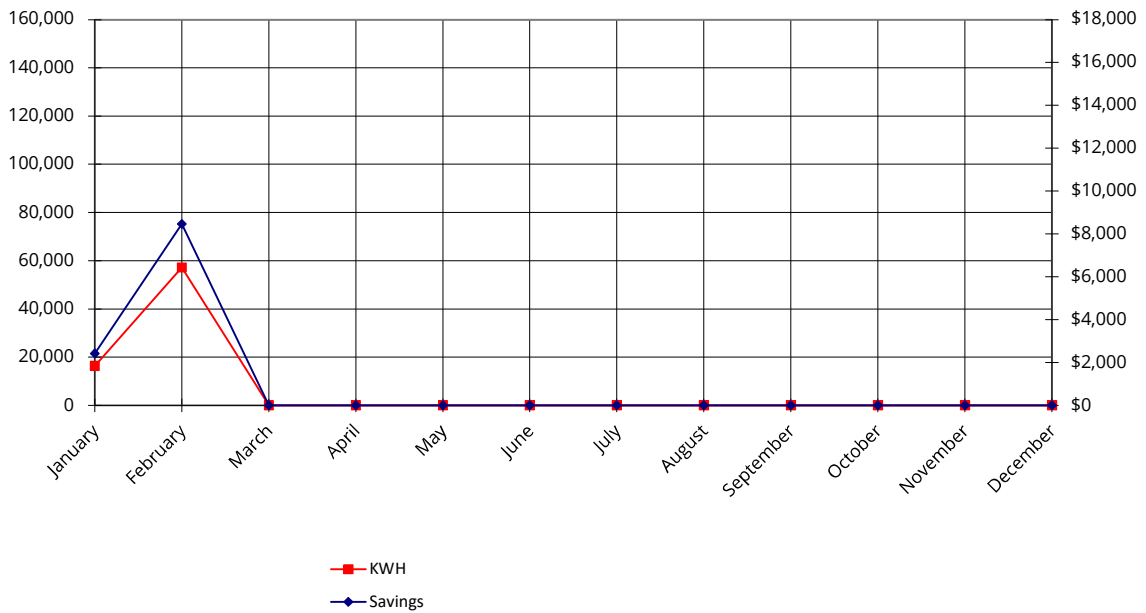
Total Transmission	\$16,531
Total Generation	\$3,026
Total Refuse	\$1,019
Total Gas	\$11,015
Total Sewer	\$68,163
Total Fuel Oil	\$0
<b>Total Utilities</b>	<b>\$98,735</b>

Exhibit G

Hydro-Turbine Generator Performance - 2024

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	16,300	\$2,412
<b>February</b>	<b>57,170</b>	<b>\$8,461</b>
March		
April		
May		
June		
July		
August		
September		
October		
November		
<b>December</b>		
<b>Average</b>	<b>36,735</b>	<b>\$5,437</b>
<b>Year to Date</b>	<b>73,470</b>	<b>\$10,874</b>

\* Estimated savings based on electrical rate of \$0.148 per KWH



**EXHIBIT H**  
**Treatment Chemical Usage - 2024**

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
<b>Chlorine</b>														
Total Lbs.	6,169	5,780											5,975	11,949
Average, Chlorine Lbs./Day	199	199											199.0	
Average, Chlorine Dose, mg/L	3.1	3.2											3.2	
Chlorine, Cost, \$/Lbs.	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	\$1,639	1.6	
Chlorine Total Cost, Dollars	\$10,111	\$9,473	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,632.03	\$19,584.41
<b>Alum 48.5%</b>														
Total Lbs.	34,165	33,986											34,076	68,151
Average, Alum, Lbs./Day	1,102	1,172											1,137.1	
Average, Alum, mg/L	17.3	18.4											17.9	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121	0.1	
Alum Total Cost, Dollars	\$4,134	\$4,112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$687.19	\$8,246.27
<b>Lime</b>														
Total Lbs.	0	0											0	0
Average Lime, Lbs./Day	0	0											0.0	
Average, Lime Dose, mg/L	0.0	0.0											0.0	
Lime Cost, \$/Lbs.	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	\$0.86	
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Soda Ash</b>														
Total Lbs.	23,600	25,300											24,450	48,900
Average Soda Ash, Lbs./Day	761	872											816.7	
Average, Soda Ash Dose, mg/L	12.0	13.7											12.8	
Soda Ash Cost, \$/Lbs.	\$0.368	\$0.368	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	0.4	
Soda Ash Total Cost, Dollars	\$8,685	\$9,310	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,499.60	\$17,995.20
<b>Fluoride</b>														
Total Lbs.	1,134	1,104											1,119	2,238
Average, Fluoride Lbs./Day	37	38											37.3	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6											0.6	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30	
Fluoride Total Cost, Dollars	\$335	\$326	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$55.02	\$660.21
<b>Sodium Hydroxide 50%</b>														
Total NaOH 50% dry Lbs.	36,522	32,550											34,536	69,072
Average NaOH 50%, dry Lbs./Day	1,178	1,122											1,150	
Average, NaOH 50%, mg/L	18.6	17.7											18.1	
NaOH 50% Cost, dry \$/Lbs	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	\$0.298	0.3	
NaOH 50% Total Cost, Dollars	\$10,891	\$9,706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,716.44	\$20,597.27
<b>Zinc Orthophosphate</b>														
Total Zn3(PO4)2, wet Lbs.	4,660	4,368											4,514	9,028
Average Zn3(PO4)2, wet Lbs./Day	150	151											150.7	
Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5											2.5	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	\$1,724	1.7	
Zn3(PO4)2 Total Cost, Dollars	\$8,032	\$7,529	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,296.72	\$15,560.66
<b>Potassium Permanganate</b>														
Total KMnO4, Lbs.	0	0											0	0
Average KMnO4, Lbs./Day	0	0											0.0	
Average, KMnO4 Dose, mg/L	0.0	0.0											0.0	
KMnO4 Cost, \$/Lbs.														
KMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Expenditure	\$42,187.12	\$40,456.90											\$6,887.00	\$82,644.02
Average Treated Cost per (MG)	\$180.91	\$188.10												
Total Treated Flow (MGD)	235.878	220.320												456.198
Average Treated Flow (MGD)	7.609	7.597												



**EXHIBIT I**

**DISTRIBUTION DEPARTMENT ACTIVITIES - 2024**

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	506	518											1,024	512
Street Restorations	0	0											0	0
Leak Detection Assessment <i>Percent of Distribution System</i>	8	8											16	8
Main Break Repair - Detected Non-Surfacing	0	0											0	0
Main Breaks Repaired - Emergency	3	4											7	4
Service Line Leaks Detected	0	0											0	0
Service Line Leaks Repaired	8	0											8	4
Valves - Exercised	0	1											1	1
Valves - Replaced	0	0											0	0
Hydrant Flow Tests	2	1											3	2
Hydrants Returned to Service	0	1											1	1
Water Tap - Disconnected	2	4											6	3
Water Tap - New Connection	0	0											0	0
Water Shutoffs - Other	13	12											25	13
Water Shutoffs - Non Payment	0	1											1	1
Water Restoration Turn on Other	20	13											33	17

EXHIBIT J

Metering Activities - 2024

Board Monthly Report	Distribution Monthly Report														
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
<b>Meter Installations</b>															
Replacement	Missing	6	1											7	4
	Leaking	3	0											3	2
	Frozen	2	5											7	4
	Non-registering	1	6											7	4
	Large Meters <sup>1</sup>	0	1											1	1
New Service	New Installation	0	0											0	0
<b>Meter Service</b>															
MXU's Replaced	MXU's Replaced	24	9											33	17
Batteries Replaced	Batteries Replaced	47	52											99	50
Meter Pits Serviced	Meter Pits Serviced	0	1											1	1
<b>Meter Calibrations</b>															
Small Meters <sup>2</sup>	Calibrated meters	0	0											0	0

**1 Large Meters** are Meters 3" or greater that are calibrated at the customer's location by a contracted calibration service, assisted and witnessed by CRW staff

**2 Small Meters** are Meters 2" or less that are calibrated at the Water Services Center by CRW staff on a certified calibration stand



EXHIBIT K

Miscellaneous Water Usage (gals) - 2024

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Process Water	Process Water	15,753,696	14,987,000											30,740,696	15,370,348
Billed Metered Exported	Bulk Water Hauling	32,933	34,185											67,118	33,559
Billed Metered	Hydrant Connections	0	387											387	194
Billed Unmetered	Hydrant Flow Tests	4,000	1,800											5,800	2,900
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	18,700	409,058											427,758	213,879
Leakage on Distribution Mains	Main Leaks	1,214,228	5,570,376											6,784,604	3,392,302
Leakage on Service Lines	Service Leaks	148,693	131,760											280,453	140,227
	<b>Total</b>	17,172,250	21,134,566											38,306,816	19,153,408



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**WATER**

Wastewater

# Wastewater





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**WATER**

## **WASTEWATER DEPARTMENT MONTHLY REPORT**



New Linear Motion Mixer Blade for installation on Primary Digester No. 2.

**February 2024**

1662 South Cameron Street, Harrisburg, PA 17104 | 888-510-0606  
[capitalregionwater.com](http://capitalregionwater.com)

## Overview

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February of each year presents deadlines for several annual reports to regulatory agencies. The Sara Title III Tier II report for inventory and management of hazardous chemicals was prepared and submitted. The annual report for compliance of our PAG-08 Beneficial Use of Biosolids was prepared and submitted. Preparation for annual submission of the AWTF's Air Quality Emissions report also took place in February, with submission to occur in March.

Several divisions are actively coordinating with the Engineering department on materials required for CRW's Chapter 94 and Semi-Annual Report to EPA. Finally, 2024 marks the 5-year update requirement for EPA Risk Management Program. The submission is due on May 1, but the update is in process and well ahead of schedule.

February also welcomed a new addition to the Wastewater department management team, with Naimah Gibbs filling the role of Environmental Compliance Inspector starting on February 12th. After orientation and onboarding, Naimah became familiar with CRW's software systems and FOG Prevention Program. She also had the opportunity to investigate several illicit discharges and learned to prepare the required reports. In March, she will resume inspections of restaurant grease traps throughout the city.

## Operations

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During the month of February, the AWTF met all monthly average NPDES requirements. One Sanitary Sewer Overflow (SSO) was reported. Details are contained in the Field Operations section below.

Hydraulic loading to the AWTF averaged 23.0 million gallons per day (MGD) during the month. The treatment process achieved removal reductions of 97.7 percent CBOD, 97.8 percent Suspended Solids, 61.2 percent Phosphorus, and 97.0 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$183,179.85 in revenue from 3,455,800 gallons discharged (Exhibit G). New leachate clients permitted to discharge drove the highest revenue generating month in program history. Plant Operations will keep an eye on ammonia removal as large quantities of leachate continue to be hauled in.

The Cogeneration Facility experienced a run time of zero percent in February. The no runtime was due to the unit being offline for mechanical and electrical issues that are being addressed.

## Laboratory

---

- Started the training of a new Laboratory Technician who will be replacing an existing Lab Tech who is transferring to Drinking Water Operations.
- Continuing to work with Kemira to provide data they need for the pilot plant.
- Submitted PO for new analytical balance to replace the old AE100 unit because the bulb for the screen could go out. This model has no replacement parts as it has been discontinued for a long time.

## Pretreatment

---

- Finalized and submitted official response to the EPA for the follow up Notice of Potential Violation issued in January. Supplied additional information and documentation on issues brought forth.
- Calculated and issued new surcharge rates to finance for applicable industrial users based off 2023 sample data.
- Issued a letter of violation to Boyd State Harrisburg for not adhering to SMR requirements set forth in their permit.
- Permitted new contract waste hauling clients to bolster program revenue.

## Plant Maintenance

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- Replaced the belt scraper for the cake conveyor at the Belt Filter Press.
- Replaced the Viking security gate actuator on the south gate.
- installed security cameras on the Electrical Building.
- Installed new windsock on the Main Condenser Column at the Cryo Plant.
- Installed new windsock on Primary Digester Roof No. 2.
- Investigated and repaired washer compactor service issues at the Front Street Pump Station.
- Serviced the standby generator and ran a full load test at Market Street and Spring Creek Pump Stations.
- Installed new grit separator motor for Pista Grit No. 1.
- Continued efforts to open closed Influent Gate No. 4 at the Return Sludge Pump Station.
- Replaced VFD's for pumps at the Return Sludge Pump Station.
- Obtained quotes to replace the failed aeration blower at the Return Sludge Pump Station.
- Continued installation of new Hoffman blower at Settled Sewage Pump Station.
- Repaired scraper assembly for the barscreen at Spring Creek Pump Station.
- Performed vehicle repairs in preparation for state inspections.
- Provided weekly maintenance on the JCB front-end loader.

- 
- Performed daily service for vehicular related repairs: bulbs, batteries, tires, A/C, lube oil and filters, and flat tires.
  - Performed maintenance tasks per request at the 3003 N. Front Street Administrative Offices.

## Field Construction

---

- In the month of February, repaired 16 inlets in various locations throughout the city.
- Replaced a brick inlet with a concrete box and M-top with a bicycle grate at the intersection of Burma and Melrose Streets.
- Blanked four inlets in various locations throughout the city.
- The crew cleared the fence line and removed section of damaged fence to grant access for contractor to make the needed repairs.
- Aided in snow removal at 3003 N. Front Street Administrative Offices.

## Field Operations

---

- Performed CCTV assessment of 4,214.7 feet (0.8 miles) of pipe.
- Flushed 6,960 feet (1.3 miles) of sewer pipe.
- Responded to 14 backup and overflow calls. CRW was responsible for one at 640 S. 25th Street. A blockage in the main was caused by rags and debris catching and accumulating on an offset in the pipe. The debris was removed, and full capacity was restored.
- Responded to five sinkhole calls with none being CRW's responsibility.
- Cleaned two stormwater inlets.
- Performed daily monitoring of 22nd and Kensington site and fueling bypass pump daily.
- Completed structural chamber repairs at CSO-013 at Front and Cumberland by lining the entire chamber. The work was performed by a specialty contractor. The bypass pumping equipment was finally removed.
- Assisted facility operations by cleaning the center influent column of Thickener No. 1.

## Street Sweeping

---

- Received and resolved one complaint this month.
- Completed 578.51 miles of scheduled street sweeping within the City of Harrisburg.
- In February, there were two days operations were suspended due to weather.
- There was no water usage this month.
- Replaced a damaged dirt shield plate seal for the debris hopper on Sweeper 2.
- Continued to assist cleaning storm inlets in scheduled sweeping areas.
- Attended the Green Stormwater Infrastructure meetings.
- Continued to assist new Environmental Compliance Inspector in performing FOG inspections.



## Environmental Compliance

---

- Completed two inspections of FOG discharge establishments.
- Received four hours of training in Cityworks from various members of the Engineering department.
- Conducted one investigation this month.
  - A pizza shop on 2nd Street had a sewage backup in their basement and was convinced the issue was arising from a neighboring business. The restaurant contacted CRW to inspect a nearby manhole and lateral pipes for grease obstruction. CRW did not find any obstruction and recommended the establishment hire a plumber to investigate.
    - ECO initiated a grease interceptor inspection for both establishments, both were compliant with grease trap management.
    - The original complainant stated that it was his own issue. Clients were flushing foreign items down the toilet, and he was able to rectify the issue by snaking out the drains.
- Created informative folder handouts for businesses to review best management practices and expectations. This is due to an extensive gap between prior and upcoming inspections.
- Spent ten hours exploring former ECI's files for relevant information.
- Spent six hours organizing files within the N-Drive.



**CAPITAL REGION™**

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**WATER**

# **Wastewater Exhibits**

EXHIBIT A

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2024

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	32.0	<b>23.0</b>											27.5	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	106	<b>120</b>											113	----
Effluent, mg/L	4	<b>3</b>											4	25
Percent Removal, %	95.2	<b>97.7</b>											96.4	----
Effluent Loading, lb/d	1,119	<b>509</b>											814	7,860
Suspended Solids:														
Influent, mg/L	128	<b>153</b>											141	----
Effluent, mg/L	5	<b>3</b>											4	30
Percent Removal, %	95.2	<b>97.8</b>											96.5	----
Effluent Loading, lb/d	1,506	<b>650</b>											1,078	9,433
Nitrogen														
Total-N														
Influent, mg/L	20	<b>23</b>											21	----
Effluent, mg/L	8.7	<b>5.8</b>											7	Monitor
Percent Removal, %	56.3	<b>74.3</b>											65.3	----
Effluent Loading, lb/d	2,207	<b>1,161</b>											1,684	----
NH3-N														
Influent mg/L	10	<b>13</b>											11	----
Effluent, mg/L	0.4	<b>0.4</b>											0	11 (2)
Percent Removal, %	95.8	<b>97.0</b>											96.4	----
Effluent Loading, lb/d	105	<b>80</b>											93	4,716
Phosphorus:														
Influent, mg/L	2.9	<b>2.9</b>											2.9	----
Effluent, mg/L	1.1	<b>1.1</b>											1.1	2.0
Percent Removal, %	61.2	<b>61.2</b>											61.2	----
Effluent Loading, lb/d	207	<b>2</b>											105	629
pH:														
Influent, Std. Units	7.5	<b>7.5</b>											7.5	----
Effluent, Std. Units	7.4	<b>7.4</b>											7.4	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	6.1	<b>6.2</b>											6.2	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	361.4	<b>235.7</b>											299	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	<b>0.17</b>											0.18	0.50

(1) Seasonal limit 2,000/100 ml Oct. 1 to Apr. 30 and 200/100 ml May 1 to Sept. 30.

(2) Seasonal Limit May 1 to Nov.1.

EXHIBIT B

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Flow Monitoring Information, MGD - 2024

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	32.000	14.481	17.519	13.200	0.281	0.300	0.140	0.560	1.800	6.600	3.229	5.280	0.610	6.920
<b>February</b>	<b>23.000</b>	<b>9.642</b>	<b>13.358</b>	<b>8.520</b>	<b>0.202</b>	<b>0.300</b>	<b>0.450</b>	<b>0.170</b>	<b>1.500</b>	<b>4.980</b>	<b>2.318</b>	<b>4.070</b>	<b>0.490</b>	<b>2.840</b>
March														
April														
May														
June														
July														
August														
September														
October														
November														
December														
Average	27.50	12.06	15.44											4.88
Percent	100.00	43.86	56.14											9.76

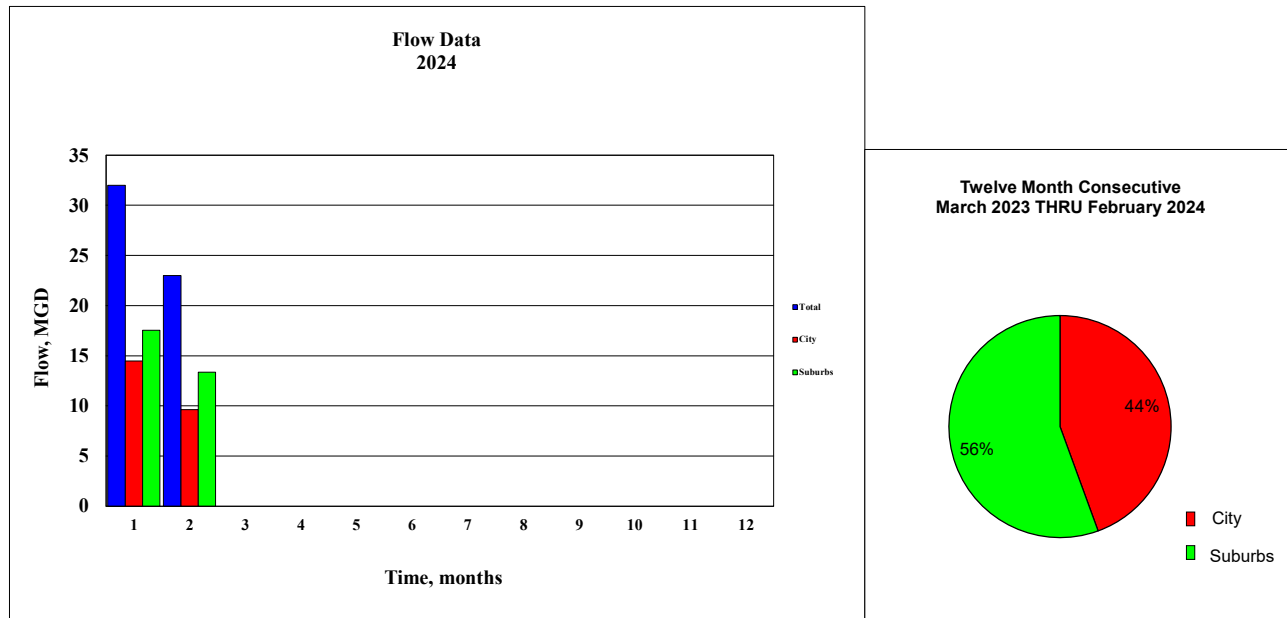


EXHIBIT C

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2024

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
<b>Electric</b>														
Total, kWh	1,249,200												1,249,200	1,249,200
Average, kWh/Day	40,297												-----	-----
Cost, Dollars	\$72,289.80												\$72,289.80	\$72,289.80
<b>Natural Gas</b>														
Total, Cu Ft	0.0												0	0
Average, Cu Ft/Day	0												-----	-----
Cost, Dollars	\$0.00												\$0.00	\$0.00
<b>Water</b>														
Total, Gal.	*												#DIV/0!	0
Average, Gal./Day	*												-----	-----
Cost, Dollars	*												\$0.00	\$0.00
<b>MicroC</b>														
Total, Gal.	0	<b>0</b>											0	0
Average, Gal./Day	0.0	<b>0.0</b>											0	-----
Cost, Dollars	\$0	<b>\$0.00</b>											\$0.00	\$0.00
<b>Sodium Hydroxide</b>														
Total, Gal.	0	<b>0</b>											0	0
Average, Gal./Day	0	<b>0</b>											0	-----
Cost, Dollars	0	<b>0</b>											\$0.00	\$0.00
<b>Chlorine Disinfection</b>														
Total, Lbs.	13,145	<b>8,990</b>											11,068	22,135
Average, Lbs./Day	424	<b>310</b>											367	-----
Avg Residual, mg/L	0.19	<b>0.17</b>											0.18	-----
Cost, \$/Lbs.	\$1.64	<b>\$1.64</b>											\$1.64	-----
Total Cost, Dollars	\$21,557.80	<b>\$14,743.60</b>											\$18,150.70	\$36,301.40
<b>Phosphorous Removal</b>														
Total FeCl3, Gals.	1,660	<b>1,445</b>											1,552	3,105
Avg FeCl3, Gals./Day	54	<b>50</b>											52	-----
FeCl3 Cost, \$/Gal.	\$1.74	<b>\$1.74</b>											\$1.74	-----
FeCl3 Total Cost, Dollars	\$2,888.05	<b>\$2,513.95</b>											\$2,701.00	\$5,402.00

\* No data at time of report

EXHIBIT D

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

**Cogeneration Electrical Production: 2023-2024**

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
January 2023		2	58	1,800	\$210.51
February 2023		58	2,250	63,000	\$7,367.85
March 2023		75	3,135	97,200	\$14,337.97
April 2023		25	960	28,800	\$4,248.29
May 2023		38	1,713	53,100	\$7,832.78
June 2023		5	120	3,600	\$531.04
July 2023		32	1,103	34,200	\$5,044.84
August 2023		0	0	0	\$0.00
September 2023		0	0	0	\$0.00
October 2023		13	4,936	15,300	\$2,256.90
November 2023		26	1,140	34,200	\$5,044.84
December 2023		7	290	9,000	\$1,327.59
<hr/>					
Total - 2023				340,200	\$48,202.61
Monthly Average - 2023		23	1,309	28,350	\$4,016.88
January 2024		2	87	2,700	\$315.77
<b>February 2024</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0.00</b>
March 2024					
April 2024					
May 2024					
June 2024					
July 2024					
August 2024					
September 2024					
October 2024					
November 2024					
December 2024					
<hr/>					
Total - 2024				2,700	\$315.77
Monthly Average - 2024		1	44	1,350	\$157.88

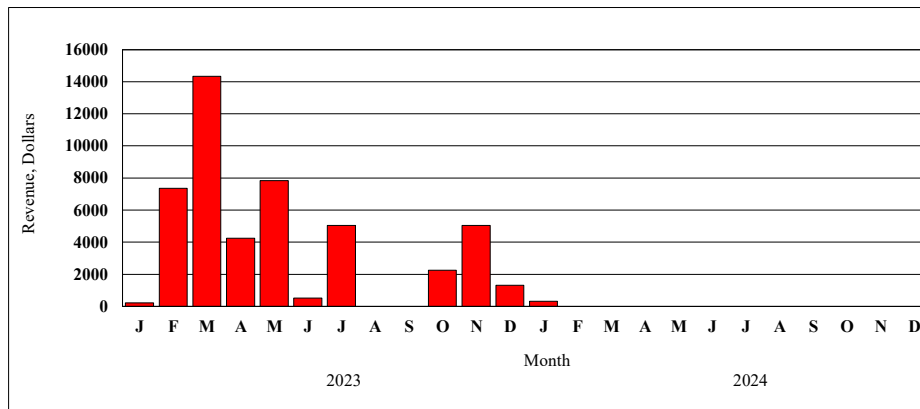


EXHIBIT E

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2024

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
<b>Solids Removal</b>														
Process, Lbs.	542,856	<b>203,990</b>											373,423	746,845
CWH Program, Lbs.	602,885	<b>682,243</b>											642,564	1,285,129
Total Solids, Lbs.	1,145,741	<b>886,233</b>											1,015,987	2,031,974
<b>Sludge Dewatering</b>														
Feed Volume, Gals.	3,466,000	<b>3,659,000</b>												
Feed Solids, %	2.2	<b>2.1</b>											2.2	4.3
Labor, Hours	959	<b>1,062</b>											1,011	2,021
Operations, Hours	520	<b>548</b>											534	1,068
Total Cake, Dry Tons	184	<b>212</b>											198	396
Total Cake, Wet Tons	1,201	<b>1,325</b>											1,263	2,526
Cake TS, %	16.1	<b>16.0</b>											16.1	32.1
Press Rate, Lbs./Hour	4,617	<b>4,836</b>											4,726	9,452
Polymer Dosage, Lbs	3,069	<b>3,736</b>											3,403	6,805
Polymer Dosage, Lbs/Dry Ton	16.7	<b>19.8</b>											18.2	36.5
<b>Disposal Cost</b>														
Labor, Dollars	\$18,435.82	<b>\$20,415.48</b>											\$19,425.65	\$38,851.31
Electrical, Dollars	\$228.93	<b>\$241.12</b>											\$235.03	\$470.05
Polymer, Dollars	\$5,984.55	<b>\$7,285.20</b>											\$6,634.88	\$13,269.75
Disposal, Dollars	\$40,940.90	<b>\$33,387.70</b>											\$37,164.30	\$74,328.60
Total Cost, Dollars	\$65,590.21	<b>\$61,329.50</b>											\$63,459.86	\$126,919.71
Cost Per Dry Ton, Dollars	\$356.47	<b>\$289.29</b>											\$322.88	\$645.76

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Conveyance Utility Usage - 2024

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	*													0
Average, kWh/Day	*													-----
Cost, Dollars	*													\$0.00
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	-----
Cost, Dollars	\$0.00												0	\$0.00
Water														
Total, Gals.	*													0
Average, Gal./Day	*													-----
Cost, Dollars	*													\$0.00
Spring Creek Pump Station														
Electric														
Total, kWh	77,120												77,120	77,120
Average, kWh/Day	2,488												2,488	-----
Cost, Dollars	\$5,819.27												\$5,819.27	\$5,819.27
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	-----
Cost, Dollars	\$0.00												\$0.00	\$0.00
Water														
Total, Gals.	*													0
Average, Gal./Day	*													-----
Cost, Dollars	*													\$0.00
Market Street Pump Station														
Electric														
Total, kWh	1,320												1,320	1,320
Average, kWh/Day	43												43	-----
Cost, Dollars	\$164.58												\$164.58	\$164.58
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	-----
Cost, Dollars	\$0.00												\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40												40	40
Average, kWh/Day	1												1	-----
Cost, Dollars	\$64.23												\$64.23	\$64.23

\* No Data at time of report



EXHIBIT G

## CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

### Contract Waste Hauling Program 2023 - 2024

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
January	2,332,260	\$65,162.88	208,150	\$7,173.90	2,540,410	\$72,336.78
February	1,424,370	\$47,326.95	191,150	\$6,694.20	1,615,520	\$54,021.15
March	944,920	\$28,533.96	265,650	\$9,491.40	1,210,570	\$38,025.36
April	579,580	\$19,060.38	265,600	\$9,473.40	845,180	\$28,533.78
May	1,273,220	\$68,101.35	267,600	\$9,588.60	1,540,820	\$77,689.95
June	1,329,280	\$68,218.26	326,700	\$11,626.20	1,655,980	\$79,844.46
July	1,372,660	\$59,957.87	262,650	\$9,411.30	1,635,310	\$69,369.17
August	1,883,530	\$87,631.96	314,650	\$11,214.90	2,198,180	\$98,846.86
September	2,137,570	\$105,510.75	276,550	\$9,849.60	2,414,120	\$115,360.35
October	2,340,860	\$134,366.80	288,550	\$10,332.90	2,629,410	\$144,699.70
November	1,762,060	\$118,125.70	239,550	\$8,610.30	2,001,610	\$126,736.00
December	1,543,690	\$90,184.38	205,450	\$7,378.20	1,749,140	\$97,562.58
<b>Total - 2023</b>	<b>18,924,000</b>	<b>\$892,181.24</b>	<b>3,112,250</b>	<b>\$110,844.90</b>	<b>22,036,250</b>	<b>\$1,003,026.14</b>
Monthly Average - 2023	1,577,000	\$74,348.44	259,354	\$9,237.08	1,836,354	\$83,585.51
January	2,077,950	\$114,775.25	161,300	\$5,749.20	2,239,250	\$120,524.45
<b>February</b>	<b>3,281,800</b>	<b>\$176,962.65</b>	<b>174,000</b>	<b>\$6,217.20</b>	<b>3,455,800</b>	<b>\$183,179.85</b>
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
<b>Total - 2024</b>	<b>5,359,750</b>	<b>\$291,737.90</b>	<b>335,300</b>	<b>\$11,966.40</b>	<b>5,695,050</b>	<b>\$303,704.30</b>
Monthly Average - 2024	2,679,875	\$145,868.95	167,650	\$5,983.20	2,847,525	\$151,852.15

