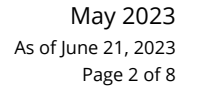


<b>Ensure Financial Stability</b>	
<b>Reconciled Bank Account Balances</b>	Refer to attached Reconciled Bank Account Balances as of 5/31/2023.
<b>Monthly Financial Statements</b>	Provided separately to Board of Directors.
<b>Monthly Financial Dashboard</b>	Provided separately to Board of Directors.
<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 were 31 water shut-offs for non-payment, and 48 service shut-off requests.
<b>Repair/Replace Meters/MXUs/Batteries</b>	Drinking Water Distribution staff replaced 18 water meters, replaced 80 batteries, and 34 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>	No update.
<b>Develop Necessary Planning for Implementation of Green Infrastructure</b>	<ul style="list-style-type: none"> <li>Phase 4 Stormwater Pro-Fi construction will commence at the beginning of July, starting with the Boys and Girls Club GSI.</li> <li>Design and planning for next phase of GSI (2024-2027) is underway.</li> </ul>
<b>Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4</b>	The Paxton Creek Cooperative is actively working with PennDOT's vendor on the construction contract to determine a final change order to secure the additional sediment reduction required for the 2020-2025 Permit cycle.
<b>Obtain and Comply with Individual MS4 Permit</b>	No update.
<b>Operate Facilities with a High Standard of Care</b>	
<b>Permit Compliance</b>	<p>The Drinking Water department met all primary and secondary Safe Drinking Water Act permit parameters for the month of May.</p> <p>The AWTF met all NPDES permit parameters for the month of May. One Dry Weather Overflow was reported. Details can be found in the AWTF Monthly Report for May.</p>
<b>Notice of Violations (NOVs)</b>	<p>There were no NOVs received by the Drinking Water department in May.</p> <p>On 5/2/2023 CRW received a Notice of Violation (NOV) from PADEP regarding events associated with the Front Street Interceptor Rehabilitation Project. On 3/21/2023, a project contractor was attempting to relocate an active sewage bypass pipe when the pipe union broke and caused approximately 13,250 gallons of sewage to discharge to the surrounding grounds. An estimated 3,200 gallons of that discharge made its way by gravity to the Susquehanna River. There were additional incidents of illicit discharge of petroleum products on 3/24/2023, 3/30/2023 and 4/27/2023. All incidents were reported to PADEP immediately. On 5/17/2023 CRW provided a comprehensive NOV response letter that detailed corrective actions and preventative measures taken by the project team to prevent similar incidents from occurring during the remainder of the project schedule.</p>





Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report	
<b>Professional &amp; Contractor Services</b>	<p><b>Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:</b></p> <p><b>Drinking Water:</b></p> <ul style="list-style-type: none"> <li>• 2023 Street Restoration Project - Recommendation of Award [REDACTED]</li> <li>• Timber Product Harvest/Sale - Recommendation of Award [REDACTED]</li> </ul> <p><b>Wastewater:</b></p> <ul style="list-style-type: none"> <li>• Task Order 2020-14-02: Engineering Services for City Beautiful H2O Program Services [REDACTED]</li> <li>• Task Order 2023-08-02: Engineering Services for CBH2O Program Services – Water Quality Services [REDACTED]</li> <li>• Task Order 2023-12-01: Engineering Services for 2024 Sewer System Improvements [REDACTED]</li> <li>• Change Order No. 1 - Front Street Interceptor Rehabilitation Phase 2 Project [REDACTED]</li> <li>• Interconnection Agreement and Transaction Confirmation [REDACTED]</li> <li>• Inflation Reduction Act Assistance [REDACTED]</li> </ul> <p><b>Stormwater:</b></p> <ul style="list-style-type: none"> <li>• Resolution No. 2023-010 Authorization for Contribution Agreement with PennDOT for I-83 Expansion Project – Supplement Improvements</li> </ul>
<b>Stormwater O&amp;M Agreements</b>	<b>Recommend Board approval of the following:</b> None.
<b>AWTF Primary Digesters Rehabilitation</b>	Closeout of all contracts is anticipated in July 2023.
<b>AWTF Energy Recovery Improvements</b>	Refer to the agenda for recommendation of the Interconnection Agreement and Transaction Confirmation with UGI Energy Services.
<b>Front Street Pumping Station Improvements</b>	Contract No.1 (General Construction) is expected to be closed out in July 2023.

Undertake Renewal and Replacement Projects	
<b>2022 Water System Improvements</b>	Installation of water main continues in the Sylvan Terrace neighborhood. The project is expected to be complete in Fall of 2023.
<b>Cameron Street Water Main - Phase 4</b>	A preconstruction meeting was held on 6/13/2023 and work is expected to begin in late July.
<b>2023 Sewer System Improvements (Excavation)</b>	The contractor continues construction with inlet replacement along 15th Street.
<b>2023 Sewer System Improvements (Trenchless)</b>	The contractor has rehabilitated several manholes.
<b>Arsenal Boulevard Sewer</b>	No update. We are working with property owners to acquire temporary and construction easements needed before advertising the project.
<b>Front Street Interceptor Rehabilitation Phase 2</b>	The contractor has cleared the lower phase (Forster Street to I-83) and is now setting up bypass piping between Forster Street and Seneca Street for the cured-in-place piping (CIPP) lining in July.
<b>Water Facility Maintenance</b>	Drinking Water Maintenance staff performed repairs to various process units as described in the Drinking Water Department Monthly Report for May.
<b>Wastewater Facility Maintenance</b>	The Wastewater Maintenance group completed various repairs throughout the AWTF, pumping stations, and at the North Front Street offices throughout the month. A narrative is provided in the Wastewater Department Monthly Report for May
<b>Sinkhole Program</b>	Three (3) sinkholes were investigated by CRW in the month of May. One (1) was due to failure of a wastewater asset.
<b>Inlet Cleaning</b>	A total of 282 stormwater inlets were cleaned during the month of May, and 252 stormwater inlet inspections were performed.

Operate as an Efficient, Sustainable and Resilient Water Utility	
<b>DeHart Property Stewardship</b>	<p>In accordance with the DeHart Property Forest Management Plan, a regeneration harvest is underway in MUs 20, 34, 36, and 37 (approximately 155 acres). Harvest will improve forest health and release regeneration of a more desirable understory.</p> <p>A timber harvest and sale agreement for MU 40 and 42 is recommended for award. Harvest will remove overstory and release regeneration. <i>Please see related Issue Brief.</i></p>
<b>Sustainability</b>	No update.
<b>Internal Communications</b>	Intranet (Sharepoint) site continues to be used. The Q2 All Employee Meeting is scheduled for 6/28/2023.

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> Facebook: 0 New Organic Followers (1,611 Total). Twelve (12) Posts ; Highest Engaged Post: "DeHart Day Post" (1,280 Reaches, 1 Reactions, 1 Shares); Other topics: Drinking Water Week posts, DeHart Day, Board of Directors Meeting &amp; Employee of the Month.</p> <p><b>Twitter:</b> 0 Tweets; Month overview: 89 total Impressions; 98 Profile Visits; -1 New Followers.</p> <p><b>Instagram:</b> 0 New Followers (692 Total), Eleven (11) Posts; Highest Engaged Post: "Employee of the Month: Sean Sauro" 87 Organic Reaches, 11 likes, 1 comments, 2 shares, 0 saves.</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>• Five (5) community events: Herbert Rowland &amp; Grubic Inc. Litter Cleanup; Giant Litter Cleanup; St. Stephen's School Race for Education; Capital Area Cleanup/Young Professionals of Color (YPOC) Roots &amp; Foods Day; and Choose Cleanwater Conference Tour.</li> <li>• One (1) community meeting. CRW Community Ambassadors.</li> <li>• Delivered nine (9) door-to-door notifications impacting approximately two hundred sixty-nine (269) customers. Included eight (8) courtesy construction notices and one (1) fats, oils, and grease hotspot notice.</li> <li>• Six (6) Everbridge alerts. Included hydrant flushing notices.</li> </ul>
<b>Public Communications</b>	<b>WHAT'S ON TAP COMMUNICATION:</b> The May monthly bill stuffer was distributed as a bill insert. Topics included: Combined Sewer System Information and Combined Sewer Overflow (CSO) Outfall warning signs and notices.
<b>Business Diversity</b>	Attended and participated in the Eastern Minority Supplier Development Council's Share in Central Pennsylvania networking event on 6/6/2023 for the purpose of capacity building and promoting our Business Diversity Program.

Administrative	
<b>Risk Management</b>	<p><b>Executive Summary:</b></p> <p><u>Total Claims:</u> 19  New: 6*  Open: 16  Closed: 3</p> <p><u>Insurance Line Claim Count:</u>  Auto: 1  General Liability: 10  Public Officials: 2  Workers Compensation: 6  <i>Note *new count included in Open</i></p>
<b>Human Resources</b>	For details, see attached Recruiting Status Report.
<b>Procurement</b>	<p>Procurement staff are coordinating the following bid packages on PennBid:</p> <ul style="list-style-type: none"> <li>• Project Number 2023 - 206 - Precipitation and Wastewater Flow Monitoring Services</li> <li>• Project Number 2023 - 209 - Switchgear Replacement and Feeder Cables at AWTF</li> <li>• Project Number 2023 - 210 - DeHart Dam Backup Generator</li> </ul> <p>Procurement staff continue to identify and assist in establishing contracts that include fixed rate pricing and discounts with frequently used vendors for goods and services.</p> <p><b>Recommend Board approval of the following:</b></p> <ul style="list-style-type: none"> <li>• Project Number 2023 - 203 - Maintenance Building Window Replacement at Water Services Center [REDACTED]</li> <li>• Project Number 2023 - 205 - Roof Replacements on Control and Hydrogritter Buildings at Wastewater Department [REDACTED]</li> <li>• Project Number 2023 - 207 - Maintenance Contract for Water Service Line and Sewer Lateral Replacement [REDACTED]</li> </ul>

Information Technologies (IT)	<div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div> <div>[REDACTED]</div>
Office Management and Admin Professional Services and Construction	<p><b>Incoming Correspondence Report:</b> Refer to attached Incoming Correspondence Report for May 2023.</p> <p><b>Street/Sidewalk-Cut Permits:</b> Two (2) Drinking Water, two (2) Wastewater, permits were issued. Eleven (11) Drinking Water and two (2) Wastewater permits were successfully completed, inspected, and closed by the City of Harrisburg's Engineer.</p> <p><b><u>Fleet Management (Completed Dispositions thru Municibid)</u></b></p> <p><b><u>Wastewater:</u></b></p> <ul style="list-style-type: none"> <li>• G-28 - 2004 Toro 72" Cut Z-Master Commercial Mower Model #74246. Sold via Municibid for \$2,800. Bids closed 5/19/2023 @ 9:00 a.m. and equipment was picked up on 5/23/2023.</li> <li>• G-57 - 2004 Hawke Dump Trailer. Sold via Municibid for \$3,700. Bids closed 5/23/2023 @ 9:00 a.m. and equipment was picked up on 5/25/2023.</li> <li>• G-88 - 32 pieces of SCH10 black pipe previously stored at AWTF. Sold via Municibid for \$680. Bids closed 5/19/2023 @ 9:00 a.m. and equipment was picked up on 5/25/2023.</li> <li>• G-97 - Hydraulic Pump @ Front Street Pump Station. Sold via Municibid for \$211. Bids closed 5/11/2023 @ 9:00 a.m. and equipment was picked up on 5/25/2023.</li> </ul> <div>[REDACTED]</div> <div>[REDACTED]</div>

<p><b>Right-to-Know Requests</b></p>	<p>CRW has received and responded to three (3) Right-to-Know request during the period 5/18/2023 through 6/21/2023. 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> No update.</p> <p><b>RTK 2023-005 - Christine Kirchhoff (PennState)</b> - Requested (1) Long-Term Control Plan for Combined Sewer System circa 1998 and any more recent plans; (2) Annual Combined Sewer Overflow Reports from 1998-2014; and (3) most recent NPDES Permit or renewal. <b>Response due: 6/16/2023. Response provided 6/15/2023 for 30-day extension until 7/17/2023.</b></p> <p><b>RTK 2023-006 - Beth J. Kern, Esq. (CGA Law Firm)</b> - Request for any and all documents, communications, etc. related to items 1 through 8 for the time period 1/1/2018 to current: <b>(1)</b> The sewer and water billing, bills and invoices sent to and records of payment received from the businesses located at Kline Village Plaza with addresses of 101 S. 25th Street, Harrisburg, PA 17104 and 101 Rear S. 25th Street, Harrisburg, PA 17104; Property IDs 09-101-003-000-0000 and 09-101-004-000-0000 (collectively the "Property"). <b>(2)</b> Any and all documents, communications, etc., related to any and all sewer laterals or lines for the businesses located at the Property.</p> <p><b>(3)</b> Any and all documents, communications, etc., related to any and all sewer system maps for the businesses located at the Property; <b>(4)</b> Any and all sewer system maps showing any parts the sewer system for the businesses located at the property; <b>(5)</b> Any aand all sewer system maps showing any parts of the sewer system owned by the Borough of Penbrook. <b>(6)</b> Any and all documents, communications, etc., related to any and all sewer system maps for any parts of the sewer system owned by the Borough of Penbrook; <b>(7)</b> Any and all documents, communications, etc., related to the sewer and water billing, bills, and invoices sent to and records of payment received for any properties that are located outside of the Borough of Penbrook that have sewer laterals or lines connecting to and/or flowing into any parts of the sewer system owned by the Borough of Penbrook; and <b>(8)</b> Any and all documents, communications, etc., related to any and all sewer laterals or lines for any properties that are located outside of the Borough of Penbrook that have sewer laterals or lines connecting to and/or flowing into any parts of the sewer system owned by the Borough of Penbrook. <b>Response due: 6/27/2023. Response provided: 6/22/2023 for 30-day extension until 7/27/2023.</b></p> <p><b>RTK 2023-007 (Tom Bates)</b> - Requested electronic scans of the design engineering drawings for the Wastewater Treatment Plant from the original 1959 Plant. <b>Response due: 6/29/2023. Response provided: Pending as of this report.</b></p>
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# Reconciled Bank Account Balances

Unrestricted Cash Accounts	Balance	APY	Bank	
<b>ADMIN</b>				
Business Checking-6908	\$ 186,079.98	0.65%	First National Bank	
Money Market-Admin-0621	\$ 101,372.55	4.07%	First National Bank	
FNB Lockbox-6393	\$ 14,667.12	0.0000%	First National Bank	
General Account-7892	\$ 358,862.37	0.00%	First National Bank	
Project Fund-6990	\$ 442,566.50	4.07%	First National Bank	
<b>WATER</b>				
Water Revenue Fund-6833	\$ 814,586.27	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Water-0639	\$ 6,067,718.30	4.07%	First National Bank	
Water Contingency Account-6866	\$ 1,471,030.51	4.07%	First National Bank	
Water 2022 Pennvest-1878	\$ 7,069.52	0.00%	First National Bank	
<b>SEWER</b>				
Sewer Revenue Account-5819	\$ 562,495.23	0.00%	First National Bank	Earnings Generated offset fees for Services
Money Market-Sewer-0589	\$ 7,096,902.82	4.07%	First National Bank	
Sewer 2021 Pennvest-5846	\$ 55,914.91	0.00%	First National Bank	
Sewer Pennvest-3642	\$ 44,794.98	0.00%	First National Bank	
Sewer 2022 Pennvest-6430	\$ 13,059.35	0.00%	First National Bank	
<b>STORMWATER</b>				
Stormwater Revenue Account-8814	\$ 271,944.66	0.00%	First National Bank	Earnings Generated offset fees for Services
Stormwater Money Market-4633	\$ 1,747,774.89	4.07%	First National Bank	
Stormwater Pennvest-0241	\$ 40,000.02	0.00%	First National Bank	
Restricted Cash Accounts	Balance	APY	Bank	
<b>WATER</b>				
Water Operation Reserve Account-6841	\$ 1,849,369.28	4.07%	First National Bank	
Water Contingency Subaccount -0328	\$ 1,912,763.17	4.07%	First National Bank	
Water 2016A Debt Service Reserve-517295	\$ 5,741,068.71	4.910%	Bank of New York	
Water 2016A Debt Service Fund-517296	\$ 5,945,994.40	4.910%	Bank of New York	
Water 2018 Debt Service Reserve-763549	\$ 4,157,284.91	4.910%	Bank of New York	
Water 2018 Debt Service Fund-763548	\$ 993,613.55	4.910%	Bank of New York	
Water 2018 Bond-Construction-763594	\$ 4.93	4.870%	Bank of New York	
<b>SEWER</b>				
Wastewater 2017 Debt Service Reserve-721503	\$ 2,896,012.76	4.91%	Bank of New York	
Wastewater 2017 Debt Service Fund-721387	\$ 1,402,405.97	4.91%	Bank of New York	
Investment Accounts	Balance	APY	Bank	
<b>ADMIN</b>				
Certificate of Deposit - Nat'l Civil War Museum	\$ 250,000.00	0.1499%	First National Bank	Restricted \$250,000 min/\$500,000 max
<b>WATER</b>				
PLGIT Investment June 2023	\$ 500,000.00	4.640%	PLGIT	\$500,000 increment
PLGIT Investment June 2023	\$ 500,000.00	5.040%	PLGIT	
PLGIT Investment Aug 2023	\$ 500,000.00	4.870%	PLGIT	
PLGIT Investment Sept 2023	\$ 500,000.00	5.040%	PLGIT	
PLGIT Investment Oct 2023	\$ 500,000.00	5.390%	PLGIT	
PLGIT Investment Nov 2023	\$ 500,000.00	5.250%	PLGIT	
PLGIT Investment Dec 2023	\$ 500,000.00	5.140%	PLGIT	
PLGIT Investment Feb 2024	\$ 500,000.00	4.980%	PLGIT	
PLGIT Investment May 2024	\$ 500,000.00	5.240%	PLGIT	
Water CD July 2023	\$ 500,000.00	5.2900%	First National Bank	
Water CD Aug 2023-0604	\$ 500,000.00	5.340%	First National Bank	
Water CD Sept 2023-0619	\$ 1,000,000.00	5.000%	First National Bank	
Water CD Oct 2023	\$ 500,000.00	5.0400%	First National Bank	
Water CD Nov 2023	\$ 500,000.00	5.0400%	First National Bank	
Water CD Jan 2024	\$ 1,000,000.00	5.2300%	First National Bank	
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>				
Plgit Investment July 2023	\$ 500,000.00	4.900%	PLGIT	
Sewer CD May 2024	\$ 500,000.00	5.30000%	First National Bank	
Sewer CD July 2023	\$ 500,000.00	5.0400%	First National Bank	
Sewer CD Nov 2023	\$ 500,000.00	5.0000%	First National Bank	
<b>STORMWATER</b>				
Stormwater CD July 2023	\$ 500,000.00	5.040%	First National Bank	
Stormwater CD July 2023	\$ 500,000.00	5.040%	First National Bank	



# 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
Capital Region Water's Pending Grant & Loan Applications											
FY23 Community Project Funding Appropriations Request	Green Stormwater Infrastructure	Riverfront Park Green Infrastrusture Project	4/25/2022	TBD	TBD	\$2,000,000	Cash	\$600,000	TBD	\$0	
Department of Community and Economit Development	COVID-19 ARPA H2O PA - Small Water Supply, Sanitary Sewer and Storm Water Projects	Paxton Creek Interceptor Site Preparation Project	12/21/2022	Mid to late 2023	TBD	\$10,500,000	Cash	\$5,275,105	TBD	\$0	
SUB TOTALS						\$12,500,000		\$5,875,105		\$0	
Capital Region Water's Awarded Grant, Loan and Bond Proceeds											
PENNVEST	Infrastructure (Projects)	ProFi Wastewater Infrastructure Loan	COMPLETED	10/21/2020	10/21/2020	\$65,000,000	Loan	\$1,000,000	\$65,000,000	\$1,283,951	\$2,389,911 submitted for reimbursement on 6/6/2023
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	\$3,683,697	\$188,416 submitted for reimbursement on 6/12/2023
PENNVEST	Infrastructure (Projects)	ProFi Green Infrastructure PENNVEST Loan	COMPLETED	10/16/2019	10/16/2019	\$13,000,000	Loan	\$0	\$13,000,000	\$4,203,558	Phase 4 closed on 2/7/2023 for \$5,199,249  \$100,222 submitted for reimbursement on 6/12/2023  Amount due from COH - \$184,308
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	\$858,521	Phase 2 settlement completed 6/8/2023  \$367,302 submitted for reimbursement on 6/12/2023
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 Comsupptive 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
SUB TOTALS						\$152,112,158		\$3,570,000	\$152,112,158	\$20,713,040	
Capital Region Water's Unawarded Grants & Loans											
National Fish and Wildlife Foundation	Chesapeake Bay Innovative Nutrient and Sediment Reduction Grant	Enhancing Community Connections Through Clean Water Project	11/17/2022	Notified 5/30/2023	5/30/2023	\$1,000,000	Cash	\$300,000	\$0	\$0	Notified on 5/30/2023 that CRW was not selected for grant funding
SUB TOTALS						\$1,000,000		\$300,000	\$0	\$0	

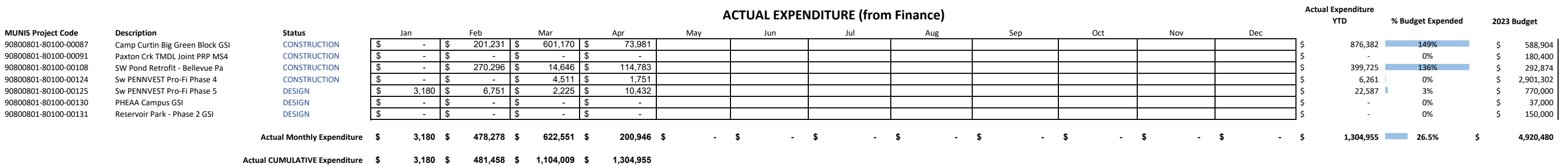


# **Capital Improvement Projects Report**





ACTUAL EXPENDITURE (from Finance)													Actual Expenditure				
MUNIS Project Code	Description	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	% Budget Expended	2023 Budget
80800801-80100-00023	AWTF Energy Recovery Improv	DESIGN	\$ -	\$ -	\$ -	\$ 11,830									\$ 11,830	<div><div></div></div> 0%	\$ 8,074,562
80800801-80100-00024	Primary Clarifier Improvement	DESIGN	\$ -	\$ -	\$ -	\$ -									\$ -	<div><div></div></div> 0%	\$ 168,000
80800801-80100-00026	Collection System Rehab	CONSTRUCTION	\$ 131,057	\$ 190,622	\$ 127,034	\$ 735,728									\$ 1,184,442	<div><div></div></div> 69%	\$ 1,707,000
80800801-80100-00028	Paxton Creek Interceptor Repai	STUDY	\$ -	\$ -	\$ 4,040	\$ -									\$ 4,040	<div><div></div></div> 1%	\$ 465,000
80800801-80100-00061	Arsenal Boulevard Sewer Improv	DESIGN	\$ -	\$ 2,877	\$ 2,987	\$ 9,885									\$ 15,749	<div><div></div></div> 1%	\$ 2,689,400
80800801-80100-00065	Other Multi-Modal CCTV Investi	STUDY	\$ -	\$ -	\$ -	\$ -									\$ -	<div><div></div></div> 0%	\$ 500,000
80800801-80100-00083	Front St Interceptor Rehab P2	CONSTRUCTION	\$ -	\$ 290,525	\$ 52,434	\$ 2,811,899									\$ 3,154,858	<div><div></div></div> 20%	\$ 16,017,826
80800801-80100-00115	PennDOT I-83 Expansion	DESIGN	\$ 8,647	\$ 3,358	\$ 1,115	\$ 140,699									\$ 153,819	<div><div></div></div> 38%	\$ 405,000
80800801-80100-00126	3rd & Wiconisco Separation	DESIGN	\$ -	\$ -	\$ -	\$ -									\$ -	<div><div></div></div> 0%	\$ 230,000
80800801-80100-00127	Ww Sewer Rehab Pennvest \$21M	CONSTRUCTION	\$ 127,371	\$ 12,948	\$ 289,903	\$ 224,906									\$ 720,672	<div><div></div></div> 18%	\$ 3,993,881
80800801-80100-00132	Ww Sewer Rehab Pennvest \$21M Phase 2	CONSTRUCTION	\$ -	\$ 21,367	\$ -	\$ 44,178									\$ -	<div><div></div></div> 0%	\$ 500,000
80800801-80100-00128	Primary Digester Insulation	STUDY	\$ -	\$ -	\$ -	\$ -									\$ -	<div><div></div></div> 0%	\$ 500,000
Actual Monthly Expenditure			\$ 267,075	\$ 521,697	\$ 477,512	\$ 3,979,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,245,410	<div><div></div></div> 15.1%	\$ 34,750,669
Actual CUMULATIVE Expenditure			\$ 267,075	\$ 788,772	\$ 1,266,284	\$ 5,245,410											







# **Development Stormwater Management Review Summary**



# Development Stormwater Management Review Summary

June 15, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
137 South 17th Street	Preliminary/Final Development	9/16/2019	10/10/2019	Paxton Creek	Detention Basin	0.85	X			Need executed O&M
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
Bethesda Mission	Preliminary/Final Development	2/10/2020	2/20/2020	Paxton Creek	Rain Garden	0.4	X	X	X	Sent comment letter on 2/20/2020
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
Harrisburg Military Post	Preliminary/Final Development	3/5/2020	4/24/2020	Paxton Creek	SWM Facility	5.95	X	X	X	Sent comment letter on 4/24/2020
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
Riverfront Office Lot	Preliminary/Final Development	2/3/2021	3/2/2021	Susquehanna River	Infiltration Bed	2.57	X	X		Sent comment letter on 3/2/2021
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

# Development Stormwater Management Review Summary

June 15, 2023 Status Report

Development	Status	Latest Submittal	Latest Comments	Act 167 Watershed	BMP	Disturbed Area (Ac)	Rate Control	Volume Control	Infiltration	Comment
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
1719 Market Street	Preliminary/Final Development	8/24/2021	9/20/2021	Paxton Creek	Underground Infiltration Facility	0.5	X	X	X	Approved and O&M received
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
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	1/18/2023	2/7/2023	Susquehanna River	Roof Sump	0.17	X		X	Sent comment letter on 2/7/2023
2709 & 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 & Emerald	Preliminary/Final Development	4/11/2023	6/16/2023	Susquehanna River/Paxton Creek	Underground Storage	1	X	X	X	Sent comment letter on 6/16/2023



# Recruiting Status

## New Hires

Position	Employee	Effective Date	Service Area
Operator - Wastewater	Reese Witmer	6/26/2023	No
Laborer – Drinking Water	Antonio Flores	7/3/2023	Yes

## Promotions/Transfers

Employee	Former Position	New Position	Effective Date
Christopher Welsh	Operator – Drinking Water	Operations Supervisor – Drinking Water	6/19/2023
Eugenio Velez-Rojas	Laborer – Wastewater	Field Maintenance Worker - Wastewater	To be determined

## Left Employment/Resignations/Retirements

Employee	Position	Effective Date
Austin Kemler	Field Maintenance Worker - Wastewater	6/9/2023
Kenneth Miller	Operator - Wastewater	5/25/2023

## Open Positions

Position	Status	Service Area
Project Manager/Design Engineer	Interview process underway	N/A
Procurement Manager	Interview process underway	N/A
Operator – Wastewater	Interview process underway	N/A
Operator – Drinking Water	Internal posting	N/A

## New Job Titles

Employee	Former Job Title	New Job Title	Effective Date
David Stewart	Director of Engineering	Chief Technical Officer	5/1/2023
Jess Rosentel	Director of Operations	Chief Operations Officer - Wastewater	5/1/2023
Chad Bingaman	Superintendent - Drinking Water	Chief Operations Officer - Drinking Water	5/1/2023
Tanya Dierolf	Director of Strategic Initiatives	Chief Strategy Officer	5/1/2023
Michelle Bethel-Miller	Director of Shared Services	Chief Administrative Officer	5/1/2023
Deborah Sibbering	Human Resources Manager	Vice President of Human Resources	5/1/2023
Miriam Gonzalez-Siegel	Risk Manager & Safety Officer	Vice President of Compliance	5/1/2023
Julie Peters	Controller	Vice President of Finance	5/1/2023
Jeffrey Bowra	Lead Engineer	Vice President of Engineering	5/1/2023



# Incoming Correspondence Report

# Incoming Correspondence Report

May 2023

Date Received	Date of Correspondence	Company/Agency and Name of Sender	Reference	CRW Addressee/ Received by/ Provided to
5/1/2023	4/24/2023	Pennsylvania Department of Environmental Protection	PWS ID No. 7220049 APS ID No. 1076230 Auth ID No. 1435526 Liquid Lime & KM <sub>n</sub> O <sub>4</sub> Susquehanna Township, Dauphin County	Addressed to: David W. Stewart Received by: Karen McKillip Provided to: David W. Stewart
5/1/2023	4/25/2023	US Bankruptcy Court - Middle District of PA	[REDACTED] - Court Order - Motion to Extend Automatic Stay Case No. [REDACTED]	Addressed to: AR Manager Received by: Karen McKillip Provided to: Wendy Shollenberger
5/1/2023	4/26/2023	US Bankruptcy Court - Middle District of PA	[REDACTED] - Court Order - Motion to Dismiss Case as to Debtor 1 Case No. [REDACTED]	Addressed to: AR Manager Received by: Karen McKillip Provided to: Wendy Shollenberger
5/15/2023	5/11/2023	Pennsylvania Department of Environmental Protection	PWS ID No. 7220049 APS ID No. 993142 Auth ID No. 1438760 Filter Nos. 3-8 and pH injection points Susquehanna Township, Dauphin County	Addressed to: David W. Stewart Received by: Janice Miller-Zerbe Provided to: David W. Stewart
5/15/2023	5/4/2023	Pennsylvania Department of Environmental Protection	Environmental Compliance Attestation Capital Region Water PA Certification # PA39083-WAT-I	Addressed to: Dan Galbraith Received by: Janice Miller-Zerbe Provided to: Chad Bingaman
5/17/2023	5/10/2023	Commonwealth of PA PA Public Utility Commission	Damage Prevention Committee Case #29105	Addressed to: Jeff Bowra Received by: Janice Miller-Zerbe Provided to: Jeff Bowra
5/22/2023	5/22/2023	Integrated Consulting, Elliot Shibley	Final Subdivision and Land Development Plan 6th Street Apartments	Addressed to: Claire Maulhardt Received by: Janice Miller-Zerbe Provided to: Claire Maulhardt



# Incoming Correspondence Report

May 2023

Date Received	Date of Correspondence	Company/Agency and Name of Sender	Reference	CRW Addressee/ Received by/ Provided to
5/22/2023	5/19/2023	Glatfelter Claims Management	Claim #: PAPF23050621 Claimant: UGI Date of Incident: 2/23/2023	Addressed to: Miriam Gonzalez-Siegel Received by: Janice Miller-Zerbe Provided to: Miriam Gonzalez-Siegel
5/22/2023	5/15/2023	Pennsylvania Department of Environmental Protection	Approval Letter - Exemption Act 537 Planning Faulkner Dealership Campus Dev.	Addressed to: Swatara Twp Supervisors CC'd to: CRW Received by: Janice Miller-Zerbe Provided to: Jeff Bowra
5/22/2023	5/15/2023	Pennsylvania Department of Environmental Protection	Approval Letter - Exemption Act 537 Planning Steele Elementary School Additions	Addressed to: Harrisburg City Council CC'd to: CRW Received by: Janice Miller-Zerbe Provided to: Jeff Bowra
5/24/2023	5/19/2023	Pennsylvania Department of Environmental Protection	Approval Letter - Exemption Act 537 Planning Dauphin Luxury Apartments Bldg Dev.	Addressed to: Harrisburg City Council CC'd to: CRW Received by: Janice Miller-Zerbe Provided to: Jeff Bowra



# Drinking Water



## **DRINKING WATER DEPARTMENT MONTHLY REPORT**



WSC New Backwash Pit Safety Speed-Rail® Railing System

**May 2023**

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

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## 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 May.

Specific water quality results are summarized in Exhibit A. A total of 225.428 MG, averaging 7.272 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 222.53 MG, averaging 7.178 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service for 31 days. The Susquehanna River water source was in service for zero days.

The DeHart Watershed had below average rainfall in May (Exhibit C) and the DeHart Reservoir water level slightly increased (Exhibit D). An estimated 1149.45 MG of water was released from the DeHart Reservoir to Clark Creek, averaging 37.08 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 approximately 72 preventative maintenance work orders and corrective maintenance work orders for the month of May using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations, and fleet vehicles.

- The DeHart Dam watershed was patrolled daily and maintained.
- Repaired wiring issues with Caustic Pump 613C and 613A.
- Removed the old caustic system that is not in use.
- Installed emergency lighting and exit signs in the finished water pump houses.
- The new Aluminum Sulfate Chemical Injection system is currently under testing for commissioning and PADEP approval.
- Installed sample piping for the clearwell(s) C-17's per PADEP request.
- Continue to finish the wiring system and components for the new Lime Slurry Chemical feed system with the assistance of sewers' electrical group.
- Continued to label various instrumentation and electrical panels and disconnects throughout the plant.

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- Perform spring/summer landscape duties at the Water Services Center, Front Street pump houses, DeHart Dam facility and the North Front Street administrative offices.
  - Complete maintenance of fleet vehicles and equipment.

## Distribution

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

- Repaired four leaking services during the month of May totaling 95,040 gallons of unmetered water.
- Repaired one water main break – 109,685 gallons of unmetered water.
- Completed 394 work orders.
- Completed 497 water, sewer, and stormwater locates.
- Hydrant flushing was completed at the end of May with 995 hydrants flushed during the month.
- 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 regulatory samples for Total Coliform, and E. Coli.
- No taste or odor complaints.



# Drinking Water Exhibits

## EXHIBIT A

### Water Quality Analysis - 2023

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	A	A	A	A	A	A	A	A	A	A	5% P
<b>Chlorine Residual, mg/L Free</b>														
Filter Plant Effluent	2.00	1.98	2.01	1.99	1.95								1.99	0.2 - 4.0
Distribution System	1.40	1.43	1.42	1.31	1.21								1.35	<0.02
<b>Turbidity, NTU</b>														
Influent from DeHart	1.20	0.98	0.71	0.61	0.77								0.85	NA
Influent from Susquehanna	NA	NA	NA	NA	NA									NA
Filter Plant Effluent	0.03	0.03	0.03	0.03	0.02								0.03	0.30
<b>pH, Std Units</b>														
Influent from DeHart	6.4	6.5	6.5	6.4	6.1								6.37	NA
Influent from Susquehanna	NA	NA	NA	NA	NA									NA
Filter Plant Effluent	7.6	7.5	7.9	7.7	7.5								7.62	6.5 - 8.5*
Distribution System	7.1	7.7	8.1	8.0	8.0								7.77	6.5 - 8.5*
<b>Total Alkalinity, mg/L as CaCO3</b>														
Influent DeHart	5	5	5	5	5								5.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	15	14	13	15	16								14.61	<15*
Distribution System	13	14	15	14	15								14.24	<15*
<b>Temperature, degrees C</b>														
Influent from DeHart	5.9	5.4	7.3	10.0	13.0								8.32	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	6.6	6.4	7.2	9.8	12.0								8.40	NA
Distribution System	14.1	13.2	13.6	16.8	18.3								15.20	NA
<b>Fluoride, mg/L</b>														
Filter Plant Effluent	0.95	1.02	1.00	0.88	0.69								0.91	2
<b>Aluminum, mg/L</b>														
Filter Plant Effluent	0.02	0.02	0.02	0.01	0.02								0.02	0.2*
<b>Iron, mg/L</b>														
Influent from DeHart	0.11	0.06	0.04	0.05	0.07								0.07	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	0.02	0.01	0.01	0.02	0.02								0.02	0.3*
Distribution System	0.07	0.00	0.00	0.01	0.00								0.02	0.3*
<b>Total Dissolved Solids, mg/L</b>														
Influent from DeHart	15	15	16	16	16								15.78	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	37	34	35	37	39								36.38	500*
Distribution System	39	36	34	38	40								37.48	500*
<b>Total Hardness, mg/L</b>														
Influent from DeHart	8	8	8	8	8								8.00	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	8	8	8	8	8								8.12	NA
Distribution System	10	6	6	6	6								6.82	NA
<b>Orthophosphate, mg/L</b>														
Filter Plant Effluent	1.20	1.24	1.27	1.27	1.20								1.24	0.7 - 1.3*
Distribution System	1.21	1.19	1.12	1.27	1.21								1.20	0.7 - 1.3*
<b>**Total Trihalomethanes, ug/L</b>														
Distribution System	34.2	NA	NA	42.8	NA								38.5	80.0
<b>**Total Haloacetic Acids, ug/L</b>														
Distribution System	36.8	NA	NA	48.4	NA								42.6	60.0
<b>Total Organic Carbon, mg/L</b>														
Influent from DeHart	2.16	NA	NA	1.90	NA								2.03	NA
Influent from Susquehanna	NA	NA	NA	NA	NA								N/A	NA
Filter Plant Effluent	1.22	NA	NA	1.20	NA								1.21	NA
Average Filter Run, Hours	115	112	120	119	112								115.60	NA

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

\* Values are related to DEP Secondary MCL

\*\* Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2023

DeHart Withdrawal			River Withdrawal		Total Withdrawal		Treated Water		Process Water		Finished Water	
Month	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	233.562	7.534	0.000	0.000	233.562	7.534	239.964	7.741	6.487	0.210	229.172	7.393
February	202.799	7.243	0.000	0.000	202.799	7.243	210.336	7.513	4.938	0.176	202.279	7.224
March	235.779	7.606	0.000	0.000	235.779	7.606	233.913	7.546	6.770	0.218	223.545	7.211
April	228.546	7.618	0.000	0.000	228.546	7.618	226.774	7.559	10.158	0.339	216.616	7.221
May	225.428	7.272	0.000	0.000	225.428	7.272	232.974	7.515	6.110	0.197	222.530	7.178
June												
July												
August												
September												
October												
November												
December												
Total	1126.114		0.000		1126.114		1143.961		34.463		1094.142	
Average	225.223	7.455	0.000	0.000	225.223	7.455	228.792	7.575	6.893	0.228	218.828	7.245

Peak Day Water Use  
Minimum Day Water Use

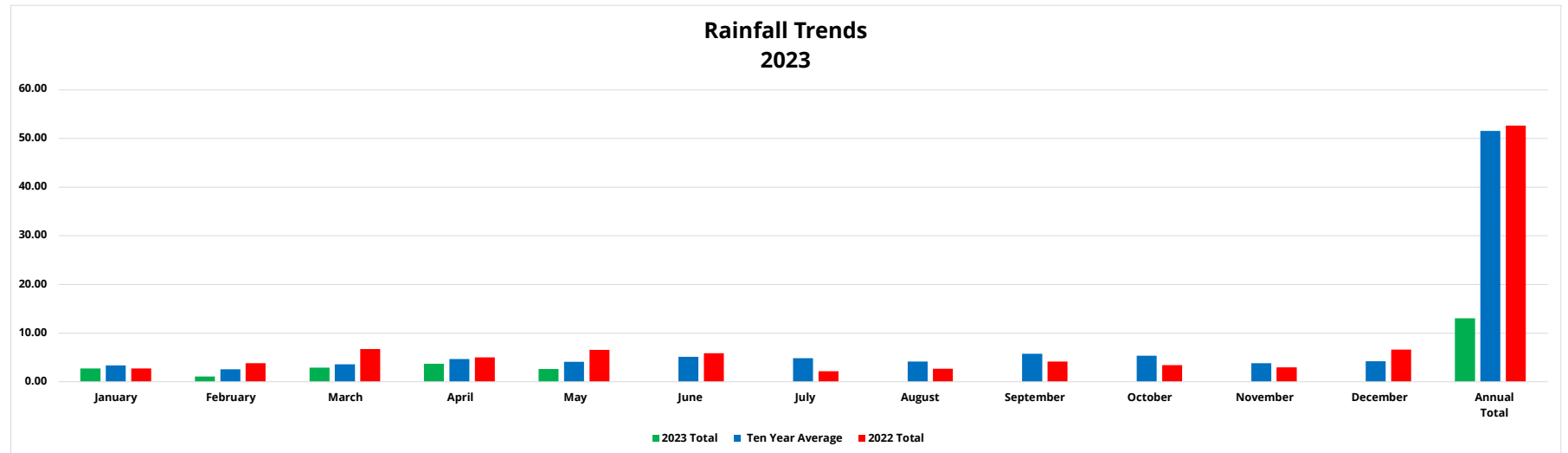
(MG) = Million Gallons  
(MGD) = Million Gallons per Day



**EXHIBIT C**

**Rainfall at the DeHart Reservoir - 2023**  
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
<b>2023 Total</b>	2.70	1.09	2.93	3.71	2.63								13.06
<b>Daily Average</b>	0.087	0.039	0.095	0.124	0.085								0.430
<b>Ten Year Average</b>	3.37	2.572	3.62	4.68	4.138	5.112	4.81	4.154	5.72	5.37	3.83	4.21	51.586
<b>2022 Total</b>	2.70	3.79	6.72	5.03	6.55	5.84	2.16	2.67	4.16	3.43	2.94	6.63	52.62



**EXHIBIT D**

**Water Level at the DeHart Reservoir - 2023**  
(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
<b>2023 AVG</b>	-162.9	-58.6	-98.7	1.1	1.8							
<b>Ten Year AVG</b>	-38.8	-36.6	-27.4	-14.4	-12.5	-15.0	-12.0	-42.0	-60.5	-73.5	-75.0	-62.6
<b>2022 AVG</b>	-162.9	-104.3	-5.6	4.6	4.1	7.2	-12.1	-34.1	-48.5	-68.9	-80.6	319.0

**DeHart Reservoir Water Level Trends  
2023**

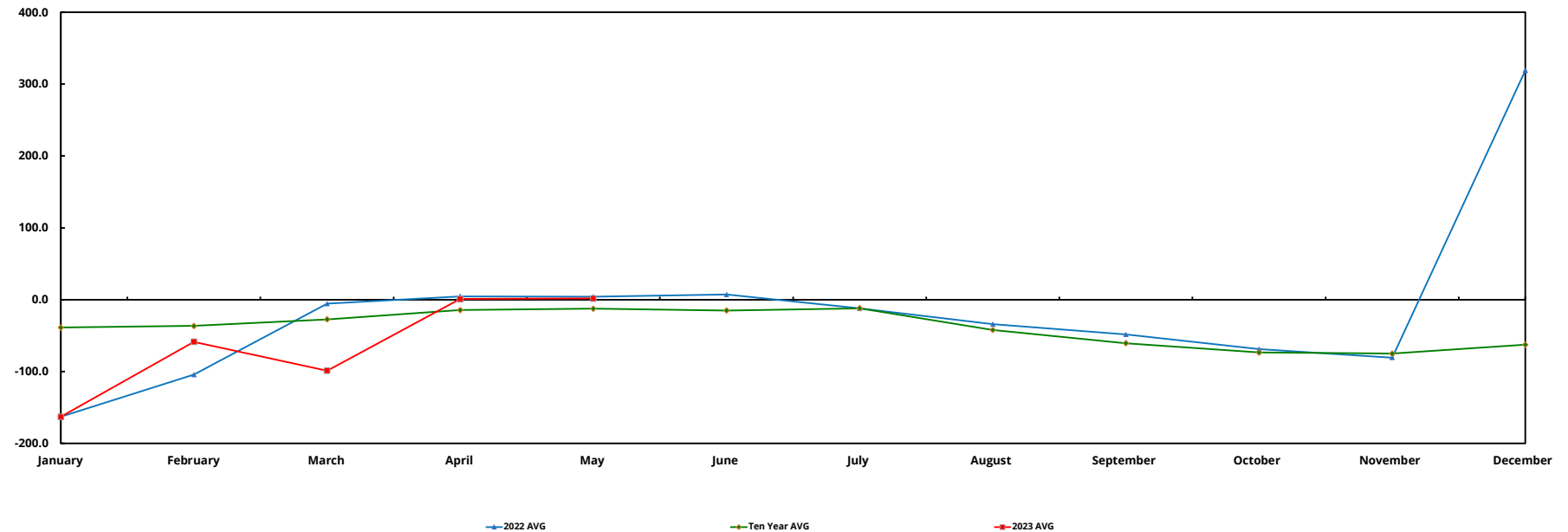


EXHIBIT E

Daily Conservation Release - 2023

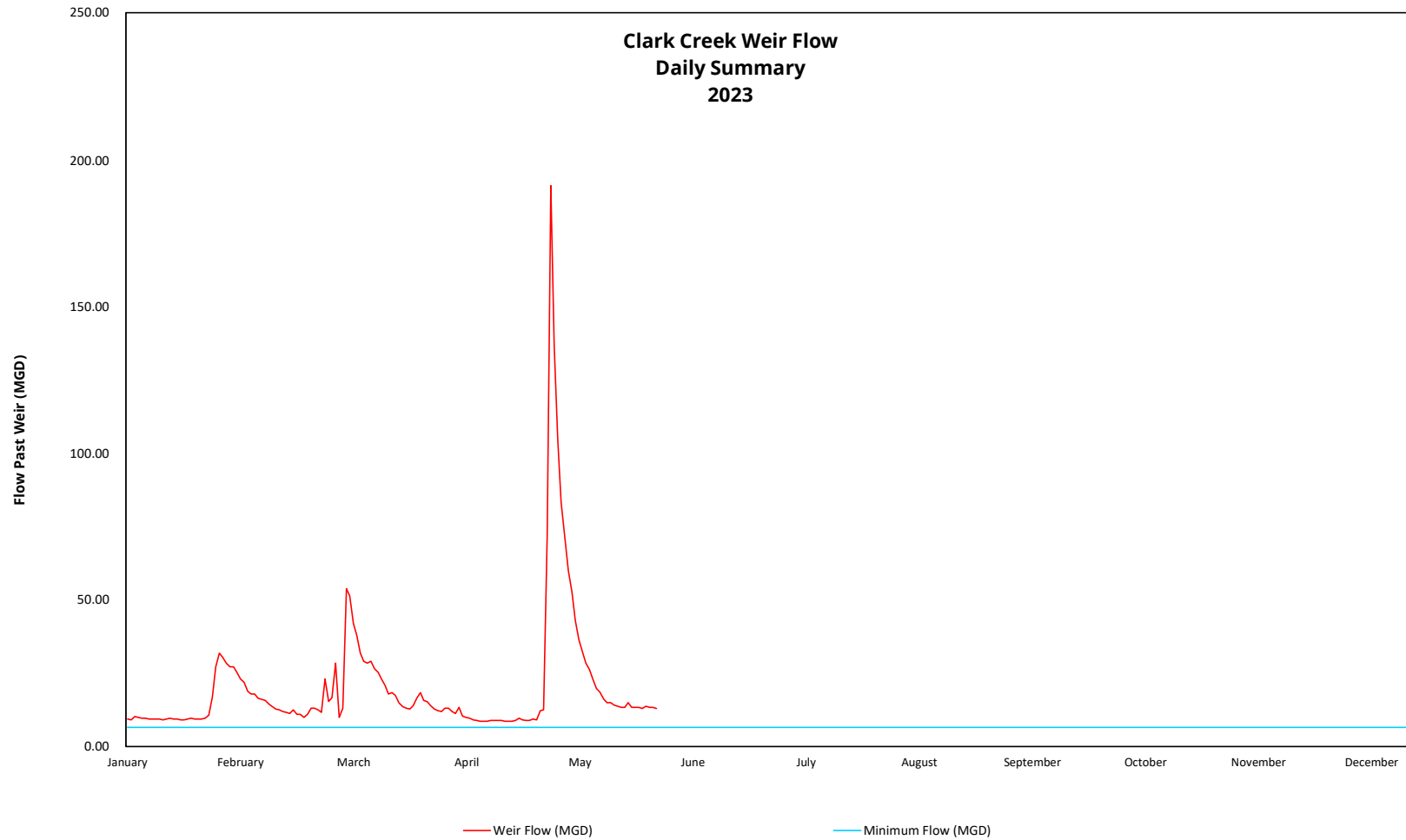


EXHIBIT F  
Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
<b>Water Services Center</b>														
Electric Transmission														
Total, kWh	214,200	172,800	198,000	174,600	**								189,900	759,600
Cost, Dollars	\$16,812.87	\$8,947.67	\$10,245.05	\$9,131.12	**								\$11,284.18	\$45,136.71
Electric Generation														
Total, kWh	214,200	172,800	198,000	174,600	122,400								176,400	882,000
Cost, Dollars	\$1,253.64	\$1,180.73	\$1,168.47	\$1,159.78	\$981.51								\$1,148.83	\$5,744.13
Natural Gas														
Total, Cu Ft	13,533	13,229	11,509	8,795	**								11,767	47,066
Cost, Dollars	\$12,244.94	\$11,133.40	\$9,875.88	\$8,238.84	**								\$10,373.27	\$41,493.06
Sewer														
Total, Gal	7,710,000	6,070,000	7,288,000	7,213,000	6,490,000								6,954,200	34,771,000
Cost, Dollars	\$71,240.40	\$56,086.80	\$67,341.12	\$66,359.60									\$65,256.98	\$261,027.92
Refuse														
Cost, Dollars	\$967.70	\$967.70	\$967.70	\$967.70	\$967.70								\$967.70	\$4,838.50
<b>Reservoir Park Pump Station</b>														
Electric Transmission														
Total, kWh	88,000	92,400	85,600	93,200	**								89,800	359,200
Cost, Dollars	\$3,704.13	\$3,935.15	\$3,650.18	\$3,737.99	**								\$3,756.86	\$15,027.45
Electric Generation														
Total, kWh	88,000	92,400	85,600	93,200	**								89,800	359,200
Cost, Dollars	\$1,350.22	\$1,214.10	\$1,215.18	\$1,292.31	**								\$1,267.95	\$5,071.81
Natural Gas														
Total, Cu Ft	982	629	473	466	**								638	2,550
Cost, Dollars	\$903.79	\$626.39	\$509.26	\$456.90	**								\$624.09	\$2,496.34
<b>Wassukuhanna River Pump Station</b>														
Electric Transmission														
Total, kWh	1,200	1,200	600	**	**								1,000	3,000
Cost, Dollars	\$20.90	\$67.18	\$46.15	**	**								\$44.74	\$134.23
Electric Generation														
Total, kWh	1,200	1,200	600	**	**								1,000	3,000
Cost, Dollars	\$98.68	\$71.83	\$70.50	**	**								\$80.34	\$241.01
Natural Gas														
Total, Cu Ft	580	499	499	389	53								404	2,020
Cost, Dollars	\$543.32	\$515.95	\$524.07	\$378.07	\$75.04								\$407.29	\$2,036.45
<b>Union Square Booster Station</b>														
Electric Transmission														
Total, kWh	3,340	2,744	2,483	1,559	**								2,532	10,126
Cost, Dollars	\$305.46	\$132.56	\$138.65	\$118.51	**								\$173.80	\$695.18
Electric Generation														
Total, kWh	3,340	2,744	2,483	1,559	**								2,532	10,126
Cost, Dollars	\$130.77	\$113.42	\$101.36	\$95.50	**								\$110.26	\$441.05
<b>DeHart Facilities</b>														
Electric Transmission														
Total, kWh	3,131	2,289	2,308	2,945	2,396								2,614	13,069
Cost, Dollars	\$168.70	\$167.37	\$165.82	\$158.03	\$134.07								\$158.80	\$793.99
Electric Generation														
Total, kWh	3,131	2,289	2,308	2,945	2,396								2,614	13,069
Cost, Dollars	\$102.80	\$83.69	\$161.05	\$63.55	\$89.12								\$100.04	\$500.21
Fuel Oil														
Total, Gals.	2,251	0	0	0	0								450	2,251
Cost, Dollars	\$5,768.00	\$0.00	\$0.00	\$0.00	\$0.00								\$1,153.60	\$5,768.00
<b>City Island Heat Trace</b>														
Electric Transmission														
Total, kWh	40	140	147	116	**								111	443
Cost, Dollars	\$7.57	\$16.44	\$9.59	\$8.42	**								\$10.51	\$42.02
Electric Generation														
Total, kWh	40	140	147	116	**								111	443
Cost, Dollars	\$61.81	\$61.93	\$119.36	\$61.83	**								\$76.23	\$304.93
Expenditures YTD													\$96,995	\$391,793

\*\* Not available at time report was developed

Total Transmission	\$61,830
Total Generation	\$12,303
Total Refuse	\$4,839
Total Gas	\$46,026
Total Sewer	\$261,028
Total Fuel Oil	\$5,768
Total Utilities	\$386,954

Exhibit G

Hydro-Turbine Generator Performance - 2023

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January (Out of Service)	0	\$0
February (Out of Service)	0	\$0
March (Out of Service)	0	\$0
April	38,680	\$5,725
<b>May</b>	<b>77,840</b>	<b>\$11,520</b>
June		
July		
August		
September		
October		
November		
December		
<b>Average</b>	<b>23,304</b>	<b>\$3,449</b>
<b>Year to Date</b>	<b>116,520</b>	<b>\$17,245</b>

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

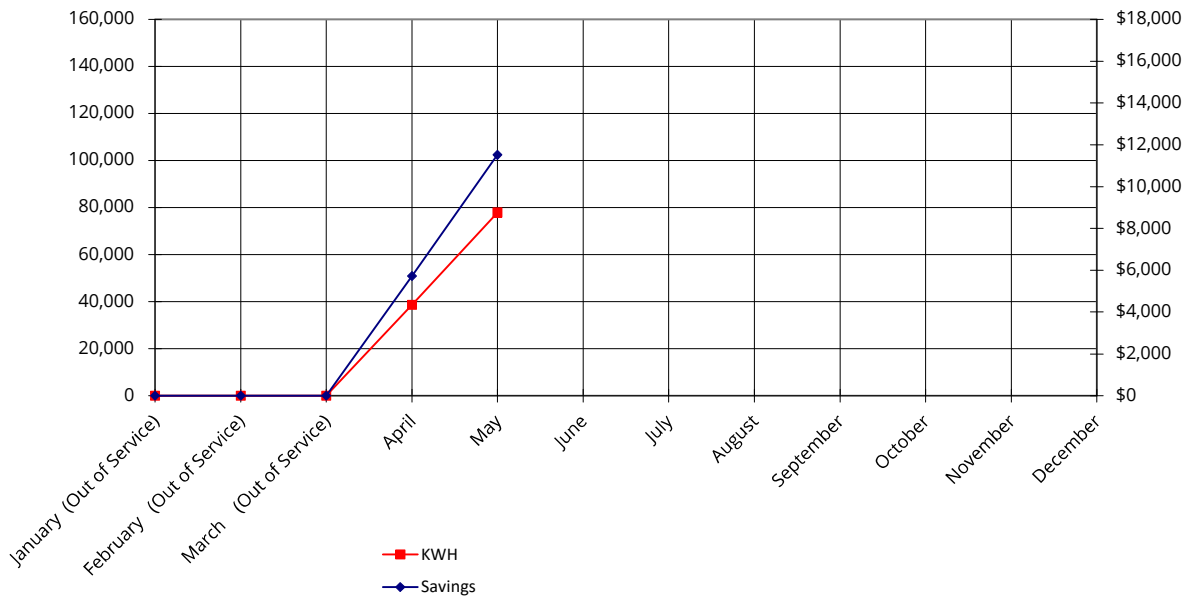


EXHIBIT H

Treatment Chemical Usage - 2023

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,294	5,518	5,991	5,949	6,112								5,973	29,864
Average, Chlorine Lbs./Day	203	197	193	198	197								197.6	
Average, Chlorine Dose, mg/L	6.9	1.6	2.6	3.2	3.4								3.5	
Chlorine, Cost, \$/Lbs.	\$1.639	\$1.639	\$1.639	\$1.639	\$1.639								1.6	
Chlorine Total Cost, Dollars	\$10,316	\$9,044	\$9,819	\$9,750	\$10,018								\$9,789.37	\$48,946.87
Alum 48.5%														
Total Lbs.	26,829	16,763	19,163	21,756	20,615								21,025	105,126
Average, Alum, Lbs./Day	866	599	618	725	665								694.6	
Average, Alum, mg/L	10.7	7.7	12.0	11.8	11.0								10.6	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121	\$0.121	\$0.121								0.1	
Alum Total Cost, Dollars	\$3,246	\$2,028	\$2,319	\$2,632	\$2,494								\$2,543.86	\$12,719.31
Lime														
Total Lbs.	0	0	0	0	0								0	0
Average Lime, Lbs./Day	0	0	0	0	0								0.0	
Average, Lime Dose, mg/L	0.0	0.0	0.0	0.0	0.0								0.0	
Lime Cost, \$/Lbs.	\$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
Soda Ash														
Total Lbs.	17,400	12,350	13,050	13,650	17,400								14,770	73,850
Average Soda Ash, Lbs./Day	561	441	421	455	561								487.8	
Average, Soda Ash Dose, mg/L	19.2	13.5	19.0	7.2	9.0								13.6	
Soda Ash Cost, \$/Lbs.	\$0.368	\$0.368	\$0.368	\$0.368	\$0.368								0.4	
Soda Ash Total Cost, Dollars	\$6,403	\$4,545	\$4,802	\$5,023	\$6,403								\$5,435.28	\$27,176.40
Fluoride														
Total Lbs.	2,240	1,965	1,965	1,660	1,167								1,799	8,997
Average, Fluoride Lbs./Day	72	70	63	55	38								59.5	
Average, Fluoride (F-) Dose, mg/L	1.1	1.1	1.0	0.9	0.6								0.9	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30	\$0.30	\$0.30								\$0.30	
Fluoride Total Cost, Dollars	\$672	\$590	\$590	\$498	\$350								\$540.02	\$2,700.10
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	35,623	31,225	33,907	33,665	34,585								33,801	169,005
Average NaOH 50%, dry Lbs./Day	1,149	1,115	1,094	1,122	1,116								1,119	
Average, NaOH 50%, mg/L	19.2	15.7	19.2	8.9	8.8								14.4	
NaOH 50% Cost, dry \$/Lbs	\$0.450	\$0.450	\$0.450	\$0.450	\$0.450								0.5	
NaOH 50% Total Cost, Dollars	\$16,030	\$14,051	\$15,258	\$15,149	\$15,563								\$15,210.27	\$76,051.35
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,802	4,239	4,565	4,539	4,559								4,541	22,704
Average Zn3(PO4)2, wet Lbs./Day	155	151	147	151	147								150.3	
Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5	2.5	2.5	2.5								2.5	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$1.724	\$1.724	\$1.724	\$1.724	\$1.724								1.7	
Zn3(PO4)2 Total Cost, Dollars	\$8,279	\$7,308	\$7,870	\$7,825	\$7,860								\$7,828.33	\$39,141.65
Potassium Permanganate														
Total KMnO4, Lbs.	0	0	0	0	0								0	0
Average KMnO4, Lbs./Day	0	0	0	0	0								0.0	
Average, KMnO4 Dose, mg/L	0.0	0.0	0.0	0.0	0.0								0.0	
KMnO4 Cost, \$/Lbs.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								\$0.00	
KMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								\$0.00	\$0.00
Expenditure														
Average Treated Cost per (MG)													\$41,347.14	\$206,735.68
Total Treated Flow (MGD)														0.000
Average Treated Flow (MGD)														228.792

**EXHIBIT I**

**DISTRIBUTION DEPARTMENT ACTIVITIES - 2023**

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	501	430	550	520	497								2,498	500
Street Restorations	0	0	7	1	15								23	5
Leak Detection Assessment <i>Percent of Distribution System</i>	8	8	8	8	8								40	8
Main Break Repair - Detected Non-Surfacing	0	0	0	0	0								0	0
Main Breaks Repaired - Emergency	2	1	1	0	1								5	1
Service Line Leaks Detected	0	0	0	0	0								0	0
Service Line Leaks Repaired	1	0	10	7	4								22	4
Valves - Exercised	0	0	0	21	1								22	4
Valves - Replaced	0	0	0	0	0								0	0
Hydrant Flow Tests	0	8	1	2	7								18	4
Hydrants Returned to Service	0	0	0	0	1								1	0
Water Tap - Disconnected	2	0	11	13	4								30	6
Water Tap - New Connection	2	0	0	0	0								2	0
Water Shutoffs - Delinquent Accounts	0	0	0	0	0								0	0
Water Shutoffs - Other	24	11	21	62	48								166	33
Water Shutoffs - Non Payment	0	0	21	41	31								93	19
Water Restoration Turn on Other	24	22	23	33	23								125	25
Water Turn on - Non Payment	0	1	6	24	4								35	7



EXHIBIT J

Metering Activities - 2023

Board Monthly Report	Distribution Monthly Report														
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Meter Installations															
Replacement	Missing	6	3	4	5	7								25	5
	Leaking	2	3	2	5	2								14	3
	Frozen	20	4	3	1	1								29	6
	Non-registering	6	6	9	4	8								33	7
	Large Meters <sup>1</sup>	0	0	0	0	0								0	0
New Service	New Installation	2	0	0	0	0								2	0
Meter Service															
MXU's Replaced	MXU's Replaced	47	43	40	22	34								186	37
Batteries Replaced	Batteries Replaced	45	323	113	65	80								626	125
Meter Pits Serviced	Meter Pits Serviced	0	0	0	0	1								1	0
Meter Calibrations															
Small Meters <sup>2</sup>	Calibrated meters	0	0	0	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) - 2023

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Process Water	Process Water	N/A	N/A	N/A	N/A	N/A								N/A	N/A
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A	N/A	N/A								N/A	N/A
Billed Metered	Hydrant Connections	0	0	113,557	4,500	407								118,464	23,693
Billed Unmetered	Hydrant Flow Tests	0	12,300	4,000	4,305	14,094								34,699	6,940
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	48,449	51,011	40,285	3,479,672	5,975,003								9,594,420	1,918,884
Leakage on Distribution Mains	Main Leaks	1,318,637	2,836,746	95,144	0	109,685								4,360,212	872,042
Leakage on Service Lines	Service Leaks	2,321,113	41,760	568,560	135,444	95,040								3,161,917	632,383
	Total	3,688,199	2,941,817	821,546	3,623,921	6,194,229	0	0	0	0	0	0	0	17,269,712	1,439,143

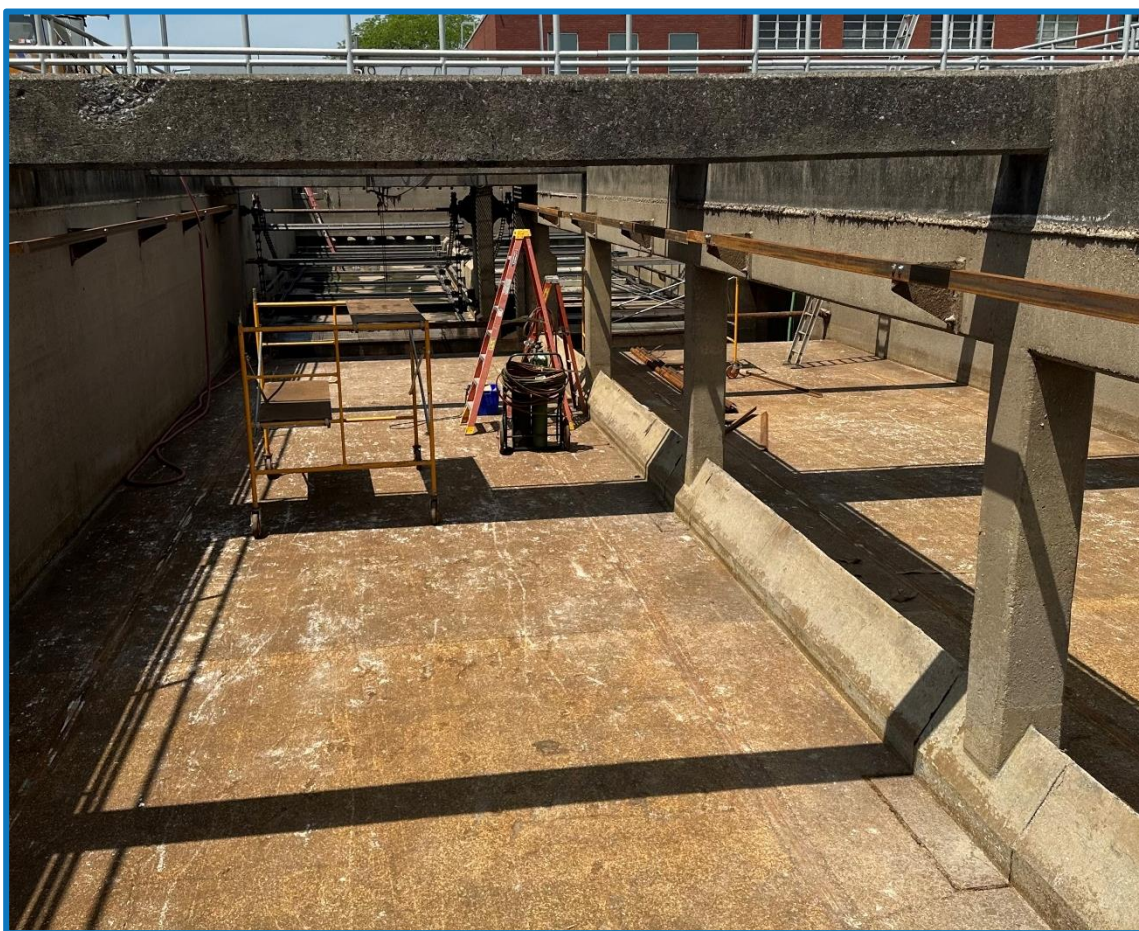


# Wastewater





## **WASTEWATER DEPARTMENT MONTHLY REPORT**



Rail fabrication for Primary Clarifier No. 4 continues.

**May 2023**

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

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## Overview

The Wastewater department continued working to implement the Chlorine Auto-Feed system throughout May. Several adjustments to the sampling system were made, but reagents required for operation were on backorder. Those reagents have since been received and fine-tuning of the instrumentation is now being finalized.

Plant Operations was also focused on continuing its recent run of excellent effluent nitrogen concentrations. Warmer process temperatures are optimal for biological nitrogen removal. Operators and lab personnel are hoping to use the summer to recover from higher effluent numbers experienced in the winter to increase the generation of nitrogen credits for sale in the fall.

Field conditions for farm application of biosolids continued to be favorable in May, allowing for disposal at our lowest cost options. High diesel prices continue to cause elevated hauling costs, but tipping fees at farm sites are by far the most favorable.

On May 2, 2023, CRW received a Notice of Violation (NOV) from PADEP regarding events associated with the Front Street Interceptor Rehabilitation Project.

- On March 21, 2023, a project contractor was attempting to relocate an active sewage bypass pipe when the pipe union broke and caused approximately 13,250 gallons of sewage to discharge to the surrounding grounds. An estimated 3,200 gallons of that discharge made their way by gravity to the Susquehanna River.
- There were additional incidents of illicit discharge of petroleum products on March 24, March 30, and April 27. All incidents were reported to PADEP immediately.
- On May 17th, CRW provided a comprehensive NOV response letter that detailed corrective actions and preventative measures taken by the project team to prevent similar incidents from occurring during the remainder of the project schedule.

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## Operations

During the month of May, the AWTF met all monthly average NPDES permit requirements. One Sanitary Sewer Overflow (SSO) and two Dry Weather Overflows (DWO) were reported.

Hydraulic loading to the AWTF averaged 20.3 million gallons per day (MGD). The treatment process achieved removal reductions of 98.4 percent CBOD, 97.5 percent Suspended Solids, 59.0 percent Phosphorus, and 97.0 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$77,689.95 in revenue from 1,540,820 gallons discharged (Exhibit G). This was the highest monthly revenue generated by the program since March 2021. Modern Landfill discharged over half a million gallons of leachate even though rainfall was minimal in May. The increase in revenue was driven by increasing their discharge rate now that we have six months of total solids data to substantiate that action.

The Cogeneration Facility experienced an average run time of 38 percent in May. Revenue is estimated at \$7,832.78 on 53,100 Kilowatt-hours generated for the month.

## Laboratory

---

- Finished inputting all bench sheets with calculations in WIMS. Set up training for June.
- Had supplemental assessment with DEP for the new fecal coliform and E. Coli method, received assessment report and are working on all necessary updates.
- Set up account with Aquatic Informatics for Aquatic Academy (a training program for WIMS and Rio).

## Pretreatment

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- Submitted final inspection response to EPA addressing a majority of the findings they mentioned in their report.
- Finished reviewing first quarter SMR data from industrial users now that all the data has been submitted.
- Identified a possible new CIU in Durabond which is located off Cameron Street in Steelton. They are considering installation of a pretreatment process and requested guidance on effluent limits and other information on the reporting process that they would need to abide by.

## Plant Maintenance

---

- Completed annual fire extinguisher facility inspections.
- Clearing debris from facility in preparation of plant open house.
- Tested check valves for proper operation of hydraulic pumps at the Front Street Pump Station.
- Serviced standby generator full load test at Market Street and Spring Creek Pump Stations.
- Repaired sump pump and cleared pit blockage at the Pista Grit.
- Tested pump performance with manufacturer and completed worksite pump replacement at the Plant Drain Pump Station.
- Staff continued welding and replacing return rail for Primary Collection System No. 4 at the Primary Clarifier.
- Continued installing new secondary conveyance collection systems at the Primary Clarifier.

- Repaired discharge chute deflector plate hinge and guide assembly at the Spring Creek Pump Station.
- Completed annual fire extinguisher repair or replacement in all vehicles.
- Performed vehicle repairs in preparation for state inspections.
- Provide weekly maintenance on JCB Loader.
- Performed daily service for vehicular related repairs such as bulbs, batteries, tires, lube oil and filters, and flat tires.
- Performed maintenance tasks at 3003 North Front Street, as requested.

## Field Construction

---

- Repaired 29 inlets in various location throughout the city.
- Blanked five inlet backs in various locations throughout the city to combat debris from entering the system.
- Replaced an inlet lateral at Fourth and Reily Streets. This line was causing a sinkhole on Fourth Street. Twenty feet of damaged VCP was replaced with new SDR.
- Replaced an inlet lateral at Green and Sayford Streets. Removed 12 feet of broken VCP and replaced it with new SDR.
- Repaired the weir at Front and Mulberry Street CSO. The weir was reported to us by contractors lining the Front Street Interceptor.
- Repaired the weir at Muench Street CSO.
- Replaced the weir at Front and Reily Streets. The old weir was made of wood and coated with concrete. It was replaced with a new concrete weir that is reinforced with rebar.

## Field Operations

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- Performed CCTV assessment of 7,509 (1.42 miles) of pipe.
- Flushed 3,196 feet (0.61 miles) of sewer pipe.
- Responded to seven backup and overflow calls. None were the responsibility of CRW.
- Responded to three sinkhole calls. CRW was liable for one.
- Cleaned 282 inlets.
- Inspected 252 inlets.
- Completed three CSO semi-annual PM's.
- One Dry Weather Overflow (DWO) occurred this month at CSO #013 Front and Cumberland.
- Cleaned center column of Thickener No. 2.

## Environmental Compliance

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- Completed three inspections of FOG dischargers.
- Renewed two FOG discharge permits.



- Provided education packet to one newly identified FOG dischargers (either new business or previously unidentified). Spent time educating business owners/representative and provided them with a FOG Best Management Practices Manual, copy of Section 7.5 of the updated Wastewater and Stormwater Rules and Regulations, discharge permit request, cleaning log sign-off sheet, and introduction letter.
- Issued two non-FOG related NOV's.
- Two investigations were conducted during the month of May:
  - Environmental Compliance received a report of an illicit discharge of milk products to Spring Creek. An investigation quickly confirmed the source as a business along 29<sup>th</sup> Street. The business was ordered to coordinate cleanup with a local contractor and a NOV was issued. A follow-up meeting to educate staff was conducted the following week.
  - Environmental Compliance responded to a report of raw wastewater flowing/being pumped into a storm inlet in the vicinity of Sixth and Curtin Streets. An investigation confirmed wastewater was improperly being discharged because of a malfunctioning sewer lateral. The responsible party was issued an NOV.

## Street Sweeping

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- Received two complaints this month.
- Completed 687.27 miles of scheduled street sweeping within the City of Harrisburg.
- Water usage was approximately 11,800 gallons this month.
- Continued to assist cleaning storm inlets in schedule sweeping area.
- Replaced Main Brooms on all sweepers.
- Performed much-needed replacement of front tires on all three Sweepers.
- Performed 1,000-hour service on SW2 and SW1.



# **Wastewater Exhibits**



EXHIBIT A

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2023

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	22.0	16.8	19.3	19.1	20.3								19.5	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	97	139	114	198	164								142	-----
Effluent, mg/L	4	3	4	4	3								4	25
Percent Removal, %	95.6	97.4	96.7	98.3	98.4								97.3	-----
Effluent Loading, lb/d	681	469	596	821	499								613	7,860
Suspended Solids:														
Influent, mg/L	156	222	173	187	175								183	-----
Effluent, mg/L	8	3	3	4	4								4	30
Percent Removal, %	95.0	98.5	98.1	96.6	97.5								97.1	-----
Effluent Loading, lb/d	1,447	412	582	1,043	660								829	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	33	26	30	8								25	-----
Effluent, mg/L	5.0	4.0	5.7	4.3	3.7								5	Monitor
Percent Removal, %	80.5	87.9	78	85.6	55.4								77.6	-----
Effluent Loading, lb/d	993	548	846	652	861								780	-----
NH3-N														
Influent mg/L	17	21	17	16	13								17	-----
Effluent, mg/L	1.9	1.2	1.4	1.6	0.4								1	11 (2)
Percent Removal, %	88.5	94.3	91.8	89.7	97.0								92.3	-----
Effluent Loading, lb/d	359	168	248	258	74								221	4,716
Phosphorus:														
Influent, mg/L	2.9	4.2	3.5	3.8	3.5								3.6	-----
Effluent, mg/L	0.8	1.6	1.2	1.6	1.4								1.3	2.0
Percent Removal, %	70.3	61.3	64.4	55.6	59.0								62.1	-----
Effluent Loading, lb/d	152	222	194	237	215								204	629
pH:														
Influent, Std. Units	7.4	7.3	7.3	7.3	7.4								7.3	-----
Effluent, Std. Units	7.4	7.4	7.4	7.4	7.5								7.4	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	8.0	8.8	7.8	8.3	7.6								8.1	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	25	3	5	3	2								8	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.22	0.18	0.20	0.22	0.43								0.25	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 - 2023

Total				City Regions					Suburb Regions					Total Precip
Month	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	inches
January	22.000	8.622	13.378	8.110	0.192	0.300	-0.160	0.180	1.400	5.280	2.208	4.060	0.430	2.450
February	16.800	6.480	10.320	5.480	0.150	0.300	0.410	0.140	1.200	3.950	1.720	3.100	0.350	1.010
March	19.300	7.696	11.604	6.670	0.176	0.300	0.390	0.160	1.300	4.250	2.024	3.670	0.360	2.560
April	19.100	8.076	11.024	7.140	0.166	0.300	0.270	0.200	1.300	4.130	1.914	3.320	0.360	5.890
<b>May</b>	<b>20.300</b>	<b>8.151</b>	<b>12.149</b>	<b>6.780</b>	<b>0.191</b>	<b>0.300</b>	<b>0.600</b>	<b>0.280</b>	<b>1.500</b>	<b>4.320</b>	<b>2.199</b>	<b>3.730</b>	<b>0.400</b>	<b>0.200</b>
June														
July														
August														
September														
October														
November														
December														
Average	19.50	7.81	11.69											2.42
Percent	100.00	40.03	59.97											12.11

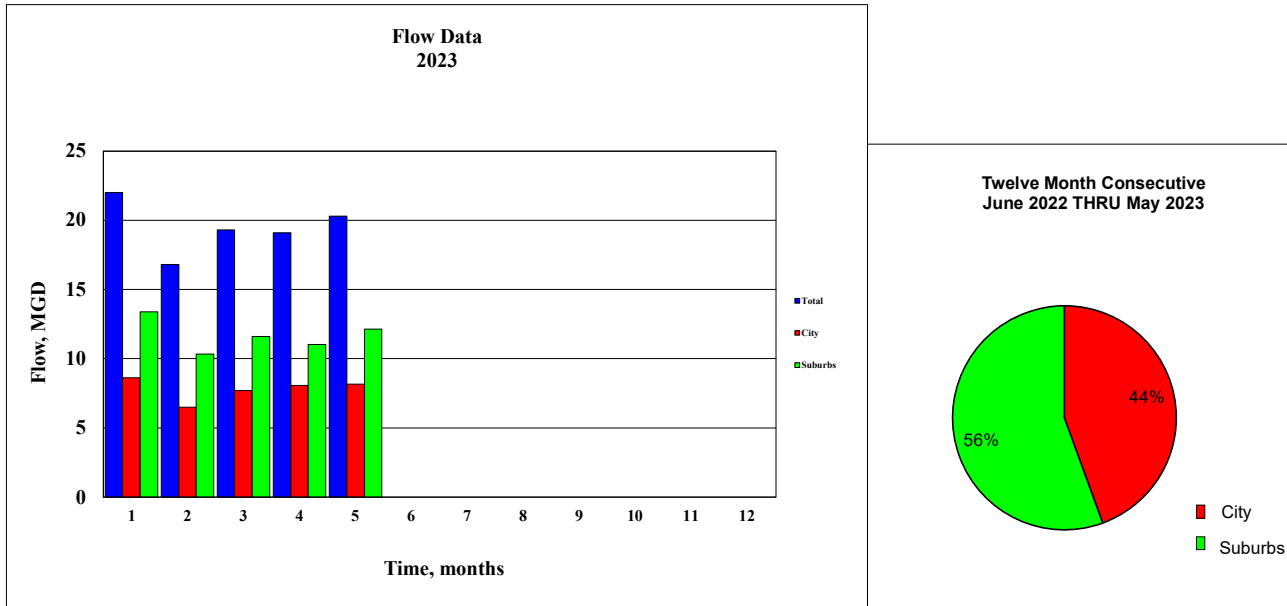


EXHIBIT C

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

**Treatment Utility and Chemical Usage - 2023**

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,158,900	1,028,400	1,033,800	1,089,000	*								862,020	4,310,100
Average, kWh/Day	37,384	36,729	33,348	36,300	*								35,940	-----
Cost, Dollars	\$98,628.52	\$60,520.22	\$60,192.18	\$63,307.22	*								\$56,529.63	\$282,648.14
Natural Gas														
Total, Cu Ft	621.9	554.8	287.6	27.4	*								298	1,492
Average, Cu Ft/Day	20	20	9	1	*								13	-----
Cost, Dollars	\$6,237.14	\$5,423.45	\$3,026.40	\$377.30	*								\$3,012.86	\$15,064.29
Water														
Total, Gal.	1,187,000	1,298,000	928,000	977,000	*								1,097,500	4,390,000
Average, Gal./Day	38,290	46,357	29,935	32,567	*								36,787	-----
Cost, Dollars	\$15,616.58	\$16,764.32	\$12,938.52	\$13,445.18	*								\$11,752.92	\$58,764.60
MicroC														
Total, Gal.	0	0	0	0	258								52	258
Average, Gal./Day	0.0	0.0	0.0	0.0	8.3								2	-----
Cost, Dollars	\$0	\$0.00	\$0	\$0	\$1,029								\$205.88	\$1,029.42
Sodium Hydroxide														
Total, Gal.	0	0	0	0	0								0	0
Average, Gal./Day	0	0	0	0	0								0	-----
Cost, Dollars	0	0	0	0	0								\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	13,115	5,973	6,830	5,240	10,940								8,420	42,098
Average, Lbs./Day	423	223	220	175	353								279	-----
Avg Residual, mg/L	0.22	0.18	0.20	0.22	0.43								0.25	-----
Cost, \$/Lbs.	\$1.64	\$1.64	\$1.64	\$1.64	\$1.64								\$1.64	-----
Total Cost, Dollars	\$21,508.60	\$9,795.72	\$11,201.20	\$8,593.60	\$17,941.60								\$13,808.14	\$69,040.72
Phosphorous Removal														
Total FeCl3, Gals.	3,113	2,950	3,113	3,589	4,429								3,439	17,194
Avg FeCl3, Gals./Day	100	105	100	120	143								114	-----
FeCl3 Cost, \$/Gal.	\$1.74	\$1.74	\$1.74	\$1.74	\$1.74								\$1.74	-----
FeCl3 Total Cost, Dollars	\$5,416.97	\$5,133.00	\$5,416.62	\$6,244.86	\$7,706.46								\$5,983.58	\$29,917.91

\* No data at time of report

EXHIBIT D

# CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

## Cogeneration Electrical Production: 2022-2023

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
January 2022		2	58	1,800	\$210.51
February 2022		37	1,093	30,600	\$3,578.67
March 2022		33	958	29,700	\$3,473.42
April 2022		43	1,710	51,300	\$5,999.54
May 2022		53	1,687	52,200	\$6,104.79
June 2022		23	510	15,300	\$1,789.34
July 2022		33	1,190	36,900	\$4,315.46
August 2022		28	697	21,600	\$2,526.12
September 2022		12	450	13,500	\$1,578.83
October 2022		34	1,365	42,300	\$4,946.99
November 2022		21	870	26,100	\$3,052.40
December 2022		20	726	22,500	\$2,631.38
Total - 2022				343,800	\$40,207.41
Monthly Average - 2022		28	943	28,650	\$3,350.62
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
<b>May 2023</b>		<b>38</b>	<b>1,713</b>	<b>53,100</b>	<b>\$7,832.78</b>
June 2023					
July 2023					
August 2023					
September 2023					
October 2023					
November 2023					
December 2023					
Total - 2023				243,900	\$33,997.40
Monthly Average - 2023		40	1,623	48,780	\$6,799.48

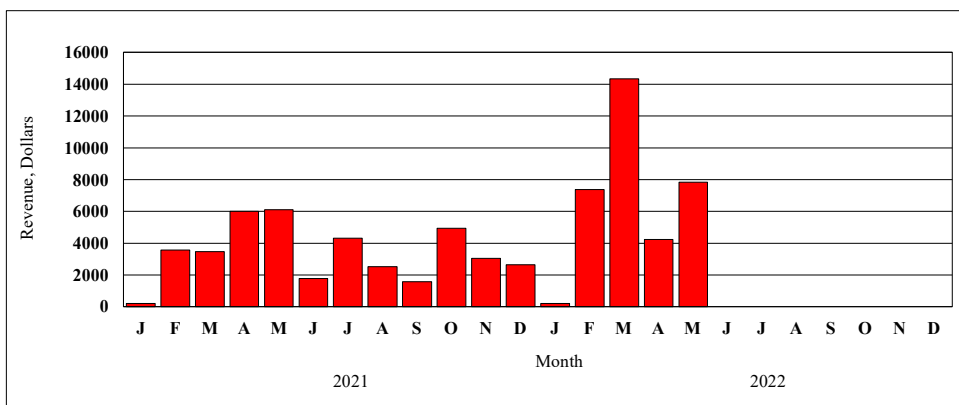


EXHIBIT E

**CAPITAL REGION WATER  
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2023

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	704,819	890,443	1,557,518	1,554,485	<b>1,206,679</b>								1,182,789	5,913,944
CWH Program, Lbs.	196,727	230,186	125,669	137,543	<b>502,270</b>								238,479	1,192,395
Total Solids, Lbs.	901,546	1,120,629	1,683,187	1,692,028	<b>1,708,949</b>								1,421,268	7,106,339
Sludge Dewatering														
Feed Volume, Gals.	5,489,000	4,398,000	3,878,000	5,322,000	<b>4,268,000</b>								4,671,000	23,355,000
Feed Solids, %	1.5	1.5	1.5	1.4	<b>1.5</b>								1.5	-
Labor, Hours	635	519	531	651	<b>691</b>								605	3,027
Operations, Hours	1,181	977	1,014	672	<b>691</b>								907	4,535
Total Cake, Dry Tons	208	168	162	181	<b>197</b>								183	916
Total Cake, Wet Tons	1,264	1,089	1,040	1,164	<b>1,223</b>								1,156	5,780
Cake TS, %	16.5	15.9	15.6	15.6	<b>16.1</b>								15.9	-
Press Rate, Lbs./Hour	2,140	2,228	2,052	3,465	<b>3,539</b>								2,685	13,424
Polymer Dosage, Lbs	4,299	4,556	4,533	5,031	<b>5,765</b>								4,837	24,184
Polymer Dosage, Lbs/Dry Ton	24.3	26.4	28.6	29.2	<b>29.5</b>								27.6	-
Disposal Cost														
Labor, Dollars	\$12,208.54	\$9,982.89	\$10,200.05	\$12,502.61	<b>\$13,282.94</b>								\$11,635.41	\$58,177.04
Electrical, Dollars	\$519.82	\$430.06	\$445.98	\$295.64	<b>\$304.08</b>								\$399.12	\$1,995.58
Polymer, Dollars	\$8,383.05	\$8,885.16	\$8,839.35	\$9,810.45	<b>\$11,241.75</b>								\$9,431.95	\$47,159.76
Disposal, Dollars	\$43,033.40	\$59,350.50	\$42,993.10	\$23,433.90	<b>\$62,716.60</b>								\$46,305.50	\$231,527.50
Total Cost, Dollars	\$64,144.81	\$78,648.61	\$62,478.49	\$46,042.60	<b>\$87,545.38</b>								\$67,771.98	\$338,859.88
Cost Per Dry Ton, Dollars	\$308.39	\$468.15	\$385.67	\$254.38	<b>\$444.39</b>								\$372.20	

## CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

### Conveyance Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	153,600	97,200	78,000	61,200	*								97,500	390,000
Average, kWh/Day	4,955	3,471	2,516	2,040	*								3,246	-----
Cost, Dollars	#####	\$6,179.35	\$5,794.20	\$4,760.30	*								\$6,726.43	\$26,905.72
Fuel Oil														
Total, Gals.	0	0	0	0	0								0	0
Average, Gals./Day	0	0	0	0	0								0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								0	\$0.00
Water														
Total, Gals.	284,000	318,000	276,000	291,000	*								292,250	1,169,000
Average, Gal./Day	9,161	11,357	8,903	9,700	*								9,780	-----
Cost, Dollars	\$3,633.08	\$3,984.64	\$3,550.36	\$3,705.46	*									\$14,873.54
Spring Creek Pump Station														
Electric														
Total, kWh	38,400	50,240	40,640	38,400	*								41,920	167,680
Average, kWh/Day	1,239	1,794	1,311	1,280	*								1,406	-----
Cost, Dollars	\$1,274.90	\$3,346.91	\$3,295.83	\$3,158.30	*								\$2,768.99	\$11,075.94
Fuel Oil														
Total, Gals.	0	0	0	0	0								0	0
Average, Gals./Day	0	0	0	0	0								0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								\$0.00	\$0.00
Water														
Total, Gals.	90,000	104,000	86,000	105,000	*								96,250	385,000
Average, Gal./Day	2,903	3,714	2,774	3,500	*								3,223	-----
Cost, Dollars	\$1,006.59	\$1,151.35	\$965.23	\$1,161.69	*								\$1,071.22	\$4,284.86
Market Street Pump Station														
Electric														
Total, kWh	1,320	1,200	1,200	960	1,080								1,152	5,760
Average, kWh/Day	43	43	39	32	35								38	-----
Cost, Dollars	\$151.91	\$153.90	\$174.52	\$157.79	\$253.89								\$178.40	\$892.01
Fuel Oil														
Total, Gals.	0	0	0	0	0								0	0
Average, Gals./Day	0	0	0	0	0								0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	40	40	40	*								40	160
Average, kWh/Day	1	1	1	1	*								1	-----
Cost, Dollars	\$42.43	\$62.63	\$64.36	\$64.11	*								\$58.38	\$233.53

\* No Data at time of report

EXHIBIT G

# CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

## Contract Waste Hauling Program 2022 - 2023

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
January	557,788	\$18,254.25	78,450	\$2,770.20	636,238	\$21,024.45
February	1,253,749	\$35,714.94	150,975	\$5,336.00	1,404,724	\$41,051.04
March	1,266,410	\$37,456.11	168,400	\$5,918.40	1,434,810	\$43,374.51
April	832,860	\$24,607.44	189,750	\$6,795.00	1,022,610	\$31,402.44
May	1,599,990	\$46,377.27	250,650	\$8,874.90	1,850,640	\$55,252.17
June	583,370	\$18,218.79	315,100	\$11,217.60	898,470	\$29,436.39
July	352,570	\$12,137.31	252,900	\$8,969.40	605,470	\$21,106.71
August	248,100	\$8,169.21	287,600	\$10,209.60	535,610	\$18,378.81
September	1,589,990	\$44,824.05	311,600	\$11,046.60	1,901,590	\$55,870.65
October	1,738,680	\$48,922.56	342,650	\$12,173.40	2,081,330	\$61,095.96
November	1,412,550	\$39,494.61	293,700	\$10,537.20	1,706,250	\$50,031.81
December	1,776,820	\$50,682.24	158,050	\$5,586.30	1,934,870	\$56,268.54
Total - 2022	13,212,877	\$384,858.78	2,799,825	\$99,434.60	16,012,612	\$484,293.48
Monthly Average - 2022	1,101,073	\$32,071.57	233,319	\$8,286.22	1,334,384	\$40,357.79

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
<b>May</b>	<b>1,273,220</b>	<b>\$68,101.35</b>	<b>267,600</b>	<b>\$9,588.60</b>	<b>1,540,820</b>	<b>\$77,689.95</b>
June						
July						
August						
September						
October						
November						
December						

Total - 2023	6,554,350	\$228,185.52	1,198,150	\$42,421.50	7,752,500	\$270,607.02
Monthly Average - 2023	1,310,870	\$45,637.10	239,630	\$8,484.30	1,550,500	\$54,121.40

