

March 2022 As of April 20, 2022 Page 1 of 6

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 3/31/2022.
Monthly Financial Statements	Provided separately to Board of Directors.
Monthly Financial Dashboard	Provided separately to Board of Directors.
AP Check Reconciliation Register	Provided separately to Board of Directors.
Capital Improvement Projects for Drinkin	g Provided separately to Board of Directors.
Water	
Capital Improvement Projects for	Provided separately to Board of Directors.
Wastewater	
Grant Management	Refer to attached Grant Management Report .

Ensure Revenues are Consistent with Sys	stem Usage
Water Shut-offs	There were no water shut-offs for non-payment, 5 were turned back on after payment, and 14 service shut-off requests.
Repair/Replace Meters/MXUs/Batteries	Drinking Water department staff replaced 23 water meters, replaced 123 batteries, and 41 MXUs.
Reduce Wet Weather Impacts to Infrastr	ucture, Community, and Receiving Waters
9	On 3/25/2022, CRW issued a redlined mark-up of the Draft Partial Consent Decree Modification with supporting documents to USDOJ/U.S. EPA/PADEP for review. On 3/31/2022, CRW submitted the required Semi-Annual Chapter 94 Report and updated Operations and Maintenance Manual to the Agencies.
Develop Necessary Planning for Implementation of Green Infrastructure	No update.
with Suburban Partners on MS4	The Paxton Creek Cooperative (CRW, Lower Paxton Township, and Susquehanna Township) meet monthly to coordinate the implementation of our Joint Pollution Reduction Plan (PRP). We are continuing to advance our partnership with PennDOT to increase the pounds of sediment reduction on the Paxton Creek Sediment Reduction project contract. PennDOT has interest in amending the original Contribution Agreement to issue an additional Invitation for bids for the Paxton Creek Watershed. The Paxton Creek Cooperative is agreeing to contribute additional funds to PennDOT to acheive the remaining pounds of sediment reduction for this first five-year permit cycle (2020-2025). See Issue Brief.
Obtain and Comply with Individual MS4 Permit	No update.

Operate Facilities with a High Sta	andard of Care								
Permit Compliance	The Drinking Water department met all primary and secondary Safe Drinking Water Act permit parameters for the month.								
	AWTF met all required NPDES monthly permit parameters in March. Three Dry Weather Overflows and one Sanitary Sewer Overflow were reported.								
Notice of Violations (NOVs)	There were no NOVs received by the Drinking Water department in March.								
	There were no NOVs received by the Wastewater department in March.								
Preventative Maintenance	The Drinking Water Maintenance group conducted all scheduled preventative maintenance for the month to the water treatment plant equipment. Specific facility maintenance activities are outlined within the Drinking Water Department Monthly Report. The Wastewater department completed all regularly scheduled preventative maintenance in the month of March. Field Operations completed semi-annual CSO preventative								
CCTV	maintenance. The rest will be executed in the coming weeks. A total of 9,705 feet (1.84 miles) of sewer pipe were assessed by CCTV footage during the month of March. A total of 10,277 feet (1.95 miles) of pipe were flushed as well.								



March 2022 As of April 20, 2022 Page 2 of 6

Incident Response	Wastewater responded to nine backup and overflow calls from residents during the month of March. CRW was liable for one. A summary can be found in the Wastewater Department Monthly Report for March.
Geographic Information System (GIS)	 GIS Manager and analyst attended the GeoDev Summit 2022 at Harrisburg University on 3/8-9/2022. Assisted Asset Management with implementation of Single Sign-on development and implementation for Cityworks. Forty one (41) Pennsylvania One Call tickets were completed. Forty (40) tickets required the creation of a map, and one had no CRW assets in the project area. Revised schema for water assets was added to the GIS data. GIS assets were imported and testing has begun.
Cityworks	
Asset Management	Task Order 2022-04-01 Asset Management Quick Win Activities are in progress and on schedule. Issue brief for amended scope was presented to Operations and Engineering Committee on 4/14/2022 for the Front Street Pumping Station asset register pilot. Documents developed within Subtasks 2.1 and 2.2 are in final review by the Decision Making Capital Planning RIG, and meetings have been scheduled into May to complete Subtasks 2.3 and 2.4 The Organizational Framework RIG continues to meet bi-weekly to develop CRW's Strategic Asset Management Plan. The Operations and Maintenance RIG have finalized Problem, Cause and Resolution codes and actions for implementation have been identified and in progress. Meetings held 4/1/2022 and 4/7/2022 to review inspection data and existing risk framework respectively for integration into
Development Review Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for April.

Undertake Capital Improvement Project	ts - Refer to attached Capital Improvement Projects Report								
Professional & Contractor Services	Recommend Board approval of the following Task Orders, Change Orders and Agreements:								
	Drinking Water:								
	Resolution No. 2022-006 - Memorandum of Agreement - FSC Group Certification Program								
	Forest Stewardship & Management Services Agreement								
	Task Order 2022-04-02: Engineering Services for AM Roadmap Quick Win Activities								
	Task Order 2022-13-01: Engineering Services for Lime Silo Tank Project								
	Wastewater:								
	Change Order No. 3 - 2021 Sewer System Improvements Project								
	Change Order No. 1 - Front Street Pumping Station Improvements Project								
	Stormwater: None.								
Stormwater O&M Agreements	Recommend Board approval of the following:								
	None.								
AWTF Primary Digesters Rehabilitation	The mixing system is being installed in Digester No. 1 and startup to begin the testing period is expected by the end of April.								
AWTF Energy Recovery Improvements	Permit applications are being reviwed by Swatara Township and PADEP.								
Front Street Pumping Station	The contractors are addressing punch list items and site cleanup.								
Improvements									
WSC Flocculator Equipment Replacement	No update.								
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March 2022 As of April 20, 2022 Page 3 of 6

Undertake Renewal and Replacement P	rojects							
2020 Sewer System Improvements	cured-in-place lining segment, punch list items, and final paving remains in the Spring of 2022.							
2021 Sewer System Improvements	ontractor is replacing manholes and storm inlets along Sycamore Street and performing repair work on Seneca Street.							
2021 Water System Improvements	The contractor is working at the Derry-Mulberry Street location.							
Cameron Street Water Main - Phase 3	All pipe work is complete and final pavement restoration is being placed.							
Arsenal Boulevard Sewer Improvements	Permit applications were submitted to PADEP in March 2022.							
Front Street Interceptor Rehabilitation -	The project is advertised. Bids were pushed back and are due on 4/28/2022.							
Phase 2								
Water Facility Maintenance	Drinking Water maintenance staff performed repairs to various process units as described in the Drinking Water Department Monthly Report.							
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the AWTF and pumping stations throughout the month of March. A narrative is provided in the							
	Wastewater Department Monthly Report.							
Sinkhole Program	Nine (9) sinkholes were investigated by CRW in the month of March. Wastewater was liable for none, and Drinking Water was liable for four.							
Inlet Cleaning	A total of 153 stormwater inlets were cleaned during the month of March, and 153 stormwater inlet inspections were performed.							

Operate as an Efficient, Sustainab	ole and Resilient Water Utility							
DeHart Property Stewardship	Timber harvest to improve regeneration continues in Management Unit (MU) 22/31 in accordance with the DeHart Property Forest Management Plan.							
	Notice to proceed was provided to All Terrain Logging LLC for a regeneration harvest in MUs 20, 34, 36, and 37 (approximately 155 acres); haul road improvements have been completed.							
	A regeneration harvest in MU24 has been advertised for bid; bids are due 4/21/2022. A sale tour was hosted on 3/31/2022.							
Sustainability	The annual Source Water Protection Program update for 2021 was submitted to PADEP on 3/10/2022.							
	Annual water loss audits were completed for the drinking water system using the American Water Works Association (AWWA) Water Audit Software.							
Internal Communications	The Intranet site and calendar continue to be utilized. The "Daily Flow" newsletter for Q2 2022 was distributed on 3/31/2022.							

Inform and Listen to Customers and End	ourage Stewardship of our Systems								
Media Relations - Press and Social Media	PRESS RELEASES: N/A								
	SOCIAL MEDIA TOPICS:								
	Facebook: 8 New Organic Followers. 5 Posts; Highest Engaged Post: (3/31/2022) "Employee of the Month - Jeff Bowra." (49 Post Clicks; 157 Reactions, 8 Comments & 2								
	Shares; 837 Organic Reach); Other topics: Fix-A-Leak Week: Find leaks in your home, fix a leaking toilet, fix a leaking shower, and fix a leaking bathroom sink.								
	FACEBOOK LIHWAP AD created 2/3/2022: 6,478 Paid Reach; 189 clicks. Spent-to-date \$76.60.								
	Twitter: 3 Tweets; Highest Engaged Tweet: "BWA Lifted!" (126 Impressions; 2 Likes, 0 Retweets) Month overview: 1,031 total Impressions; 959 Profile Visits; 4 New Followers;								
	3 Mentions.								
	Instagram: 5 New followers (661 Total), 5 Posts; Highest Engaged Post: (3/31/2022): "Employee of the Month - Jeff Bowra." 93 Organic Reach, 7 likes, 2 comment.								
	2022 Demographics: Most Active Age-range: 25-54; Gender division: 62% women/37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camp Hill and Lancaster.								



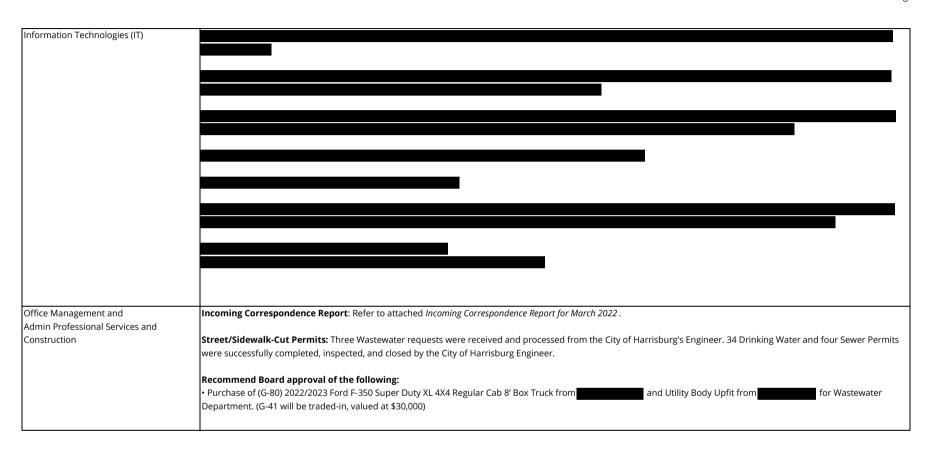
March 2022 As of April 20, 2022 Page 4 of 6

Community Relations	Community Ambassador Meeting held 3/16/2022: Presenter: Jess Rosentel discussed Biobot chart and CRW COVID protocols. Amy Borden discussed lead and copper sampling needs. Updates: Re-opening of CRW's Customer Service Center, April meeting in person, community events, tours and litter clean ups. Open items: construction projects, CRW job openings, and community ambassador concerns and updates. Community Outreach: Delivered 370 door-to-door notifications re: water service interruptions, sewer line repairs, sewer maintenance, Fats, Oil & Grease (FOGs) and boil water advisory and lifts. Three (3) Everbridge emergencies for water service interruptions and boil water advisories and lifts. Two (2) confirmations received from the 41 customers that were alerted. Daily CSO inspections and Everbridge customer updates. Six (6) community meetings and three (3) community litter clean up events. Three (3) on-site construction project meetings, and four (4) in-person customer complaint follow-ups.
Public Communications	WHAT'S ON TAP COMMUNICATION: The March monthly bill stuffer was distributed as a bill insert. Topics included: "Community Greening Season": Special edition on GSI and upcoming Big Green Block project at the Camp Curtin YMCA.
Diversity	 The Business Diversity Program has officially begun drafting a five-year report on the program's M/W/DBE monies spent on capital improvement projects and professional services since the inception of the program. Conference planning with PA Downtown for the purpose of representing CRW's Business Diversity Program in June. On 4/13/2022, Diversity Program Manager attended the 2021 Sewer System Improvements project job conference.

Administrative	
Risk Management	 No general liability claims created in Q2 2022. One auto claim created for Q2 2022. No significant injuries in Q2 2022. Drinking water crisis management tabletop in prepwork stage, tentatively scheduled for 5/24/2022. Will include outside organizations such as Harrisburg Fire Department and Pennsylvania Emergency Management Agency (PEMA). 2022-2023 insurance is in place. Favorable to budget. CREW member Bloodborne Pathogen PADEP training completed. Situational Awareness and Hazard Identification training to be provided in May.
Human Resources	• Recruiting: Refer to Recruiting Status Report attached.
Procurement	Ongoing projects include: • AWTF assessment of inventory on hand for hardware and consumables will look to resume in April. • First phase of inventory has been extended until the end of July to build more usable data (due to COVID).



March 2022 As of April 20, 2022 Page 5 of 6





March 2022 As of April 20, 2022 Page 6 of 6

Right-to-Know Re

CRW has received and responded to three Right-to-Know requests during the period 3/17/2022 through 4/20/2022. Other informational requests were identified as not being formal RTK requests throughout the month and/or were transferred to the Customer Service Center for appropriate response.

2022-003 - Matthew K. Myer, Esq. (Woolford Kanfer Law, P.C.) All records requested pertaining to a construction project known as Front Street Pump Station Improvements and Upgrade (the "Project") from 1/1/2020 to the present, unless otherwise specified. All records should be provided in their native electronic file formats which, for emails, should be in a .pst or .msg file format.

- 1. All emails and attachments thereto sent to or by any representative of Capital Region Water ("CRW") related to the Project, including but not limited to: Charlotte Katzenmoyer, Douglas Keith, David W. Stewart, P.E. and Jess Rosentel.
- 2. All emails and attachments thereto sent to CRW from or sent by CRW to any representatives of Whitman Requardt & Associates, LLP related to the Project, including but not limited to Jeffery Thompson, P.E.
- 3. All emails and attachments thereto sent to CRW from or sent by CRW to any representatives of Johnson, Mirmiran & Thompson, Inc. related to the Project.
- 4. All emails and attachments thereto sent to CRW from or sent by CRW to any representatives of CDM Smith, Inc. related to the Project, including but not limited to Randy Henne, P.E.
- 5. All emails and attachments thereto sent to CRW from or sent by CRW to any representatives of the Pennsylvania Department of Environmental Protection ("PADEP") related to the Project.
- 6. All notices of violation issued by the PADEP to CRW related to the Project or CRW's wastewater treatment system.

Response due: 3/9/2022. Response provided 3/8/2022 for 30-day extension until 4/8/2022. Final Response provided: 4/8/2022.

2022-005 - Laura Harding - All issued notices of request for proposals and bids, competitive proposals and bids received; notice of intent to award; notice of award; fully executed contracts and contract amendments; issued notice to proceed, subcontracting plans and agreements; task orders; change orders and amendments; all prime contractor and subcontractor invoices submitted for payment and all vendor payments issued to date for the following contracts awarded in 2020 and 2021: Bane Strategies, LLC Agreement, R-III Construction, Inc., and Rogele, Inc.

Response due: 3/29/2022. Response provided 3/23/2022 for 30-day extension until 4/28/2022. Final response provided 4/25/2022.



2022-006 - Janis Farese (American Transparency) An electronic file (ie Excel, PDF, Word) of any and all employees including part-time, temporary, seasonal employees and elected officials for year of 2021 (fiscal or calendar year). Each employee record should contain the year of compensation, first name, middle initial, last name, hire date (mm-dd-yyyy), base salary amount, bonus amount, overtime amount, gross annual wages and position title.

Response due: 4/18/2022. Response provided: 4/11/2022.



DRINKING WATER DEPARTMENT MONTHLY REPORT



DeHart Dam Breast Looking South

March 2022

100 Pine Drive, Harrisburg, PA 17103 | 888-510-0606 capitalregionwater.com



Drinking Water Department Monthly Report

March 2022

Plant Operations

The Capital Region Water (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of March. Specific water quality results are summarized in Exhibit A. A total of 225.72 MG, averaging 7.28 MGD was withdrawn from the water supply sources for treatment. As shown in Exhibit B, a total of 223.54 MG, averaging 7.21 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service 31 days. The Susquehanna River water source was not in service. The DeHart Watershed had below average rainfall in March (Exhibit C) and the DeHart reservoir water level increased (Exhibit D). An estimated 756.58 MG of water was released from DeHart reservoir to Clark Creek, averaging 24.40 MGD for the month. This downstream flow, which is received by remote flow monitoring from the weir location and actual staff gauge readings, was in compliance with the flow required by the State Water Allocation Permit (Exhibit E).

Plant Maintenance

The Maintenance team performed approximately 56 preventative maintenance work orders and three corrective maintenance work orders for the month of March using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations and fleet vehicles and corporate offices.

- The Maintenance team continues to follow COVID-19 morning temperature requirements and masking protocols.
- The DeHart Dam watershed was patrolled daily and maintained.
- The Maintenance and Distribution team have completed the installation of the bollards for the Bulk Water Filling Station.
- The Maintenance team replaced the dated emergency lighting and remote heads in the Administrative and Maintenance buildings.
- The Maintenance team assembled and wired the repurposed customer service cubicles in the Maintenance building for laborer, distribution, and maintenance offices.
- The Maintenance team replaced four new stainless cables on the "A" side basins along with doing preventative maintenance on the basins and flocculation basins.
- The Maintenance team continues to support the requests and work orders for the NFS offices.
- The Maintenance team continues working on the Dehart Dam Distribution Mountain Line by installing markers, clearing of blow-off pits for ease of access and locating pits on GIS.
- The Maintenance team prepped the snow removal equipment to ready them for storage.
- The Maintenance team continues to service and repair the maintenance and distribution fleet.



Drinking Water Department Monthly Report

March 2022

Distribution

The Distribution group, while keeping up with the COVID-19 pandemic safety requirements, managed to:

- Repair three water main breaks during the month totaling 2,856,325 gallons of unmetered water for the month of March.
- Repair nine leaking services during the month totaling 595,243 gallons of unmetered water for the month of March.
- Repair two fire hydrants
- Replace one fire hydrant
- Complete 394 work orders.
- Complete 523 water, sewer, and storm water locates.
- Work with contractors on several water, sewer, and storm water capital improvement projects.
- Continuing with leak detection.

Water Quality

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

Ensured collection of regulatory samples for total coliform and E. coli.



Drinking Water Exhibits



EXHIBIT A Water Quality Anaylsis - 2022

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	А	Α											5% P
Chlorine Residual, mg/L Free														3701
Filter Plant Effluent	1.94	2.03	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	0.2 - 4.0
Distribution System	1.27	1.35	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	<0.02
Turbidity, NTU	1,27	1.55	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	<0.02
Influent from DeHart	0.57	0.55	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	NA
Influent from Susquehanna	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	NA NA
Filter Plant Effluent	0.04	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.30
pH. Std Units	0.04	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.30
	6.4	6.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.24	NA
Influent from DeHart	6.4	6.3	6.3	0.0	0.0		0.0	0.0	0.0			0.0	6.34	
Influent from Susquehanna	NA .	NA 7.5	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	NA SEL
Filter Plant Effluent	7.4	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.44	6.5 - 8.5*
Distribution System	7.6	7.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.65	6.5 - 8.5*
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5	0	0	0	0	0	0	0	0	0	5.00	NA
Influent from Susquehanna	NA	NA	NA	0	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	13	18	16	0	0	0	0	0	0	0	0	0	15.41	<15*
Distribution System	15	17	15	0	0	0	0	0	0	0	0	0	15.75	<15*
Temperature, degrees C														
Influent from DeHart	6.6	6.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.30	NA
Influent from Susquehanna	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA
Filter Plant Effluent	7.0	6.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.97	NA
Distribution System	15.3	12.9	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.10	NA
Fluoride, mg/L														
Filter Plant Effluent	0.57	0.58	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	2
Aluminum, mg/L														
Filter Plant Effluent	0.10	0.22	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.2*
Iron, mg/L														
Influent from DeHart	0.62	0.13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	NA
Influent from Susquehanna	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
Filter Plant Effluent	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.3*
Distribution System	0.13	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.3*
Total Dissolved Solids, mg/L	0.15	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.5
Influent from DeHart	13	13	14	0	0	0	0	0	0	0	0	0	13.07	NA
Influent from Susquehanna	NA	NA NA	NA	0	0	0	0	0	0	0	0	0	N/A	NA NA
Filter Plant Effluent	37	38	41	0	0	0	0	0	0	0	0	0	37.64	500*
Distribution System	39	40	38	0	0	0	0	0	0	0	0	0	39.70	500*
Total Hardness, mg/L	39	40	36	U	U	U	U	U	U	U	U	U	39.70	300"
Influent from DeHart	8	8	8	0	0	0	0	0	0	0	0	0	8.00	NA
Influent from Susquehanna	NA	NA	NA	0	0	0	0	0	0	0	0	0	N/A	NA NA
Filter Plant Effluent	8 8	8	8 8	0	0	0	0	0	0	0	0	0	7.99	
Distribution System	8	7	7	0	0	0	0	0	0	0	0	0	7.50	NA NA
	8	/	,	U	U	U	U	U	U	U	U	U	7.50	NA
Orthophosphate, mg/L	4.00	4.45	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40	0.7.4.04
Filter Plant Effluent	1.20	1.15	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.7 - 1.3*
Distribution System	1.23	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.7 - 1.3*
**Total Trihalomethanes, ug/L														
Distribution System	0.035	NA	NA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.04	0.080
**Total Haloacetic Acids, ug/L														
Distribution System	0.033	NA	NA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.03	0.060
Total Organic Carbon, mg/L														
	3.00	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	NA
Influent from DeHart					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NI/A	NA
Influent from DeHart Influent from Susquehanna	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1473
	NA 1.50	NA NA	NA NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	NA

^{*} Values are related to DEP Secondary MCL
** Running Annual Quarterly Average



EXHIBIT B

Water Production Data - 2022

	DeHart Wi	thdrawal	River Wit	hdrawal	Total Wit	hdrawal	Treated	Water	Process	Water	Finished	Water
Month	Total (MG)	Average (MGD)										
January	230.675	7.441	0.000	0.000	230.675	7.441	235.985	7.612	4.634	0.149	228.344	7.366
February	230.134	8.219	0.000	0.000	230.134	8.219	233.393	8.335	5.266	0.188	224.570	8.020
March	225.723	7.282	0.000	0.000	225.723	7.282	233.913	7.546	6.770	0.218	223.545	7.211
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	686.532		0.000		686.532		703.291		16.670		676.459	
Average	228.844	7.647	0.000	0.000	228.844	7.647	234.430	7.831	5.557	0.185	225.486	7.532

Peak Day Water Use Minimum Day Water Use 5/31/2020 5/1/2020 6.966

(MG) = Million Gallons

6.081

(MGD) = Million Gallons per Day



EXHIBIT C

Rainfall at the DeHart Reservoir - 2022

(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2022 Total	2.74	3.14	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.55
Daily Average	0.080	0.113	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.343
Ten Year Average	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
2022 Total	2.74	5.88	7.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.17

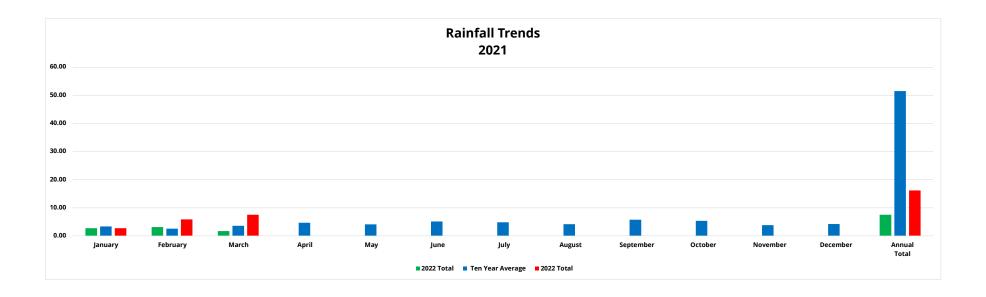




EXHIBIT D

Water Level at the DeHart Reservoir - 2022

(Inches from Spillway)

Date	January	February	March	April	May	June	July	August	September	October	November	December
2022 AVG	1.9	3.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ten Year AVG	-38.8	-36.6	-27.4	-14.4	-12.5	-15.0	-12.0	-42.0	-60.5	-73.5	-75.0	-62.6
2022 AVG	1.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DeHart Reservoir Water Level Trends 2021

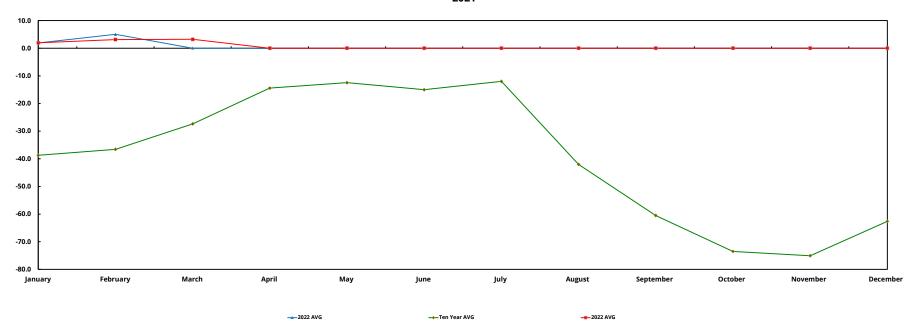
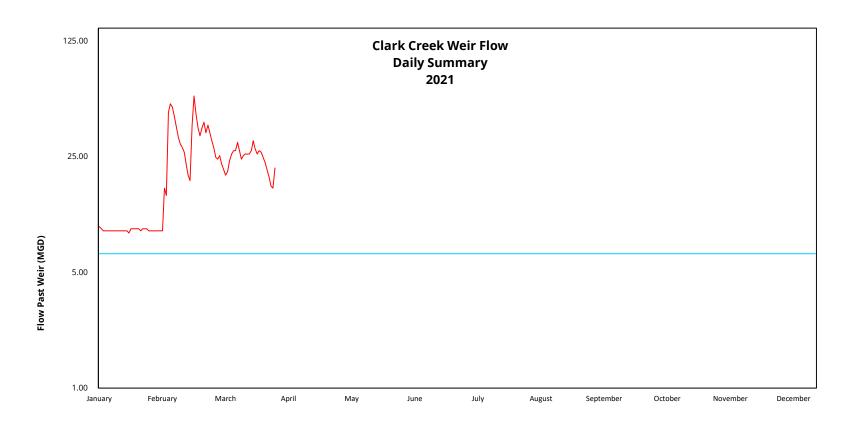




EXHIBIT E

Daily Conservation Release - 2022



----Series1

Minimum Allowable Flow



EXHIBIT F

Utility Usage - 2022

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
ater Services Center ectric Transmission														
Total, kwH														0
Cost, Dollars														\$0.00
Electric Generation														\$0.00
Total, kwH														0
Cost, Dollars														\$0.00
Natural Gas														\$0.00
Total, Cu Ft														0
Cost, Dollars														\$0.00
Sewer														30.00
Total, Gal														0
Cost, Dollars														\$0.00
Refuse														\$0.00
Cost, Dollars														\$0.00
Reservoir Park Pump Station														\$0.00
Electric Transmission														
	94 900	1		1				1	1				94 900	84,800
Total, kwH Cost, Dollars	84,800												84,800	\$0.00
Electric Generation														\$0.00
Total, kwH	84.800	1		-		1		1	1				84.800	84.800
Cost, Dollars	\$4,800 \$1,074.71												\$4,800	\$4,800
	\$1,074.71												\$1,074.71	\$1,074.7
Natural Gas													000	
Total, Cu Ft	823												823	823
Cost, Dollars	\$696.50												\$696.50	\$696.50
Susquehanna River Pump Station														
Electric Transmission														
Total, kwH	17,400												17,400	17,400
Cost, Dollars														\$0.00
Electric Generation														
Total, kwH	17,400												17,400	17,400
Cost, Dollars	\$781.92												\$781.92	\$781.92
Natural Gas														
Total, Cu Ft	724												724	724
Cost, Dollars	\$615.82												\$615.82	\$615.82
Union Square Booster Station														
Electric Transmission														
Total, kwH	2876													0
Cost,Dollars														\$0.00
Electric Generation														
Total, kwH	2876													0
Cost, Dollars	125.54													\$0.00
DeHart Facilities														
Electric Transmission														
Total, kwH	2,965												2,965	2,965
Cost, Dollars														\$0.00
Electric Generation														
Total, kwH	2,965												2,965	2,965
Cost, Dollars	\$101.22												\$101.22	\$101.22
Fuel Oil														
Total, Gals.		1						1	1					0
Cost, Dollars		1						1	1					\$0.00
City Island Heat Trace		<u> </u>	·	<u> </u>		<u> </u>	·	<u> </u>	<u> </u>					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Electric Transmission														
Total, kwH														0
Cost, Dollars			1											\$0.00
Electric Generation														\$0.00
		1						1	1					0
		1												
Total, kwH Cost, Dollars														\$0.00

** Not available at time report was developed

Total Transmission	\$0
Total Generation	\$1,958
Total Refuse	\$0
Total Gas	\$1,312
Total Sewer	\$0
Total Fuel Oil	\$0
Tatal Hallisian	£2 270



Exhibit G

Hydro-Turbine Generator Performance - 2022

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	48,590	\$2,818
February	42,322	\$2,455
March (Out for Service)	0	\$0
April	0	\$0
May	0	\$0
June	0	\$0
July	0	\$0
August	0	\$0
September	0	\$0
October	0	\$0
November	0	\$0
December	0	\$0
Average	45,456	\$2,636
Year to Date	90,912	\$5,273

^{*} Estimated savings based on electrical rate of 0.058 per KWH

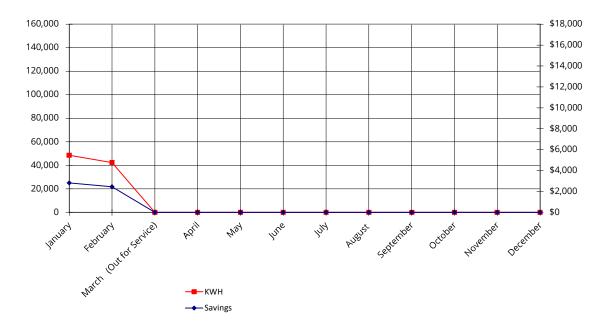




EXHIBIT H

Treatment Chemical Usage - 2022

Chlorine Total Cost, Dollars Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Cost, Dollars Fluoride Total Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	6,180 199 3.2 \$0.305 \$1,885 48,096 1,551 25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299 \$7,415	6,133 219 3.2 \$0.305 \$1,871 46,683 1,667 25.0 \$0.164 \$7,656	6,135 198 3.2 \$0.305 \$1,871 42,713 1,378 18.3 \$0.164 \$7,005					6,149 205.5 3.2 0.3 \$1,875.63 45,831 1532.2 22.8 0.2 \$7,516.25	\$5,626.9 \$37,49 \$22,548.7
Average, Chlorine Lbs./Day Average, Chlorine Dose, mg/L Chlorine, Cost, \$/Lbs. Chlorine Total Cost, Dollars Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Fluoride Total Cost, Dollars Fluoride Total Cost, S/Lbs. Fluoride Total Cost, Dollars	199 3.2 \$0.305 \$1,885 48,096 1,551 25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299	219 3.2 \$0.305 \$1,871 46,683 1,667 25.0 \$0.164 \$7,656	198 3.2 \$0.305 \$1,871 42,713 1,378 18.3 \$0.164 \$7,005					205.5 3.2 0.3 \$1,875.63 45,831 1532.2 22.8 0.2	\$5,626.: 137,4
Average, Chlorine Dose, mg/L Chlorine, Cost, \$/Lbs. Chlorine Total Cost, Dollars Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Fluoride Total Cost, Dollars Fluoride Total Cost, Dollars	3.2 \$0.305 \$1,885 48,096 1,551 25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299	3.2 \$0.305 \$1,871 46,683 1,667 25.0 \$0.164 \$7,656	3.2 \$0.305 \$1,871 42,713 1,378 18.3 \$0.164 \$7,005					3.2 0.3 \$1,875.63 45,831 1532.2 22.8 0.2	137,4
Chlorine, Cost, \$/Lbs. Chlorine Total Cost, Dollars Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Eluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$0.305 \$1,885 48,096 1,551 25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299	\$0.305 \$1,871 46,683 1,667 25.0 \$0.164 \$7,656	\$0.305 \$1,871 42,713 1,378 18.3 \$0.164 \$7,005					0.3 \$1,875.63 45,831 1532.2 22.8 0.2	137,4
Chlorine Total Cost, Dollars Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$1,885 48,096 1,551 25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299	\$1,871 46,683 1,667 25.0 \$0.164 \$7,656	\$1,871 42,713 1,378 18.3 \$0.164 \$7,005					\$1,875.63 45,831 1532.2 22.8 0.2	137,4
Alum 48.5% Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	24,800 800 16.7 \$0.250	46,683 1,667 25.0 \$0.164 \$7,656	42,713 1,378 18.3 \$0.164 \$7,005					45,831 1532.2 22.8 0.2	137,4
Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	24,800 800 16.7 \$0.250	1,667 25.0 \$0.164 \$7,656	1,378 18.3 \$0.164 \$7,005					1532.2 22.8 0.2	
Total Lbs. Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars	24,800 800 16.7 \$0.250	1,667 25.0 \$0.164 \$7,656	1,378 18.3 \$0.164 \$7,005					1532.2 22.8 0.2	
Average, Alum, Lbs./Day Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	24,800 800 16.7 \$0.250	1,667 25.0 \$0.164 \$7,656	1,378 18.3 \$0.164 \$7,005					1532.2 22.8 0.2	
Average, Alum, mg/L Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	25.0 \$0.164 \$7,888 24,800 800 16.7 \$0.299	25.0 \$0.164 \$7,656	18.3 \$0.164 \$7,005					22.8 0.2	\$22,548.
Alum Cost, \$/Lbs. Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$0.164 \$7,888 24,800 800 16.7 \$0.299	\$0.164 \$7,656	\$0.164 \$7,005					0.2	\$22,548.
Alum Total Cost, Dollars Lime Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	24,800 800 16.7 \$0.299	\$7,656 25,750	\$7,005						\$22,548.7
Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299	25,750							
Total Lbs. Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Average Lime, Lbs./Day Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Average, Lime Dose, mg/L Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Lime Cost, \$/Lbs. Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Lime Total Cost, Dollars Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Soda Ash Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								
Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299								\$0.0
Total Lbs. Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299		ı						
Average Soda Ash, Lbs./Day Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	800 16.7 \$0.299		25,400					25,317	75,95
Average, Soda Ash Dose, mg/L Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	16.7 \$0.299		819					846.3	
Soda Ash Cost, \$/Lbs. Soda Ash Total Cost, Dollars Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$0.299	16.7	16.2					16.5	
Fluoride Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.		\$0.299	\$0.299					0.3	
Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	1	\$7,699	\$7,595					\$7,569.73	\$22,709.2
Total Lbs. Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.									
Average, Fluoride Lbs./Day Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	4.455	4.402	4.450					4.470	2.54
Average, Fluoride (F-) Dose, mg/L Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	1,155 37	1,193	1,168					1,172	3,51
Fluoride Cost, \$/Lbs. Fluoride Total Cost, Dollars Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	0.6	0.6	0.6					39.4	
Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$0.48	\$0.48	\$0.48					\$0.48	
Sodium Hydroxide 50% Total NaOH 50% dry Lbs.	\$554	\$573	\$561					\$562.80	\$1,688.4
Total NaOH 50% dry Lbs.									
	41,600	36,660	38,202					38,821	116,46
Average NaOH 50%, dry Lbs./Day	1,342	1,309	1,232					1,294	
Average, NaOH 50%, mg/L	10.7	10.7	9.8					10.4	
	\$0.174	\$0.174	\$0.174					0.2	
NaOH 50% Total Cost, Dollars	\$7,238	\$6,379	\$6,647					\$6,754.80	\$20,264.4
Zinc Orthophosphate									
Total Zn3(PO4)2, wet Lbs.	5,142	5,057	5,034					5,078	15,23
Average Zn3(PO4)2, wet Lbs./Day	166	181	162					169.6	
Average, Zn3(PO4)2 Dose, mg/L	2.7	2.7	2.7					2.7	
	\$0.374	\$0.374	\$0.374					0.4	
	\$1,923	\$1,891	\$1,883					\$1,899.04	\$5,697.1
Potassium Permanganate Total KMnO4, Lbs.									
Average KMnO4, Lbs./Day									
Average, KMnO4 Dose, mg/L									
KMnO4 Cost, \$/Lbs.									
KMnO4 Total Cost, Dollars									\$0.0
Evnanditura									670 5347
Expenditure									\$78,534.7 #DIV
Average Treated Cost per (MG)	1								#DIV
Total Treated Flow (MGD) Average Treated Flow (MGD)									0.00 234.43

2022-02-00 WSC Monthly Report Exhibit H



EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2022

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	423	501	523	0	0	0	0	0	0	0	0	0	1,447	482
Street Restorations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leak Detection Assessment Percent of Distribution System	8	8	8	0	0	0	0	0	0	0	0	0	24	8
Main Break Repair - Detected Non-Surfacing	1	0	0	0	0	0	0	0	0	0	0	0	1	0
Main Breaks Repaired - Emergency	2	6	3	0	0	0	0	0	0	0	0	0	11	4
Service Line Leaks Detected	2	10	0	0	0	0	0	0	0	0	0	0	12	4
Service Line Leaks Repaired	1	11	0	0	0	0	1	0	0	0	0	0	13	4
Valves - Exercised	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Valves - Replaced	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrant Flow Tests	0	2	3	0	0	0	0	0	0	0	0	0	5	2
Hydrants Returned to Service	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Water Tap - Disconnected	1	0	2	0	0	0	0	0	0	0	0	0	3	1
Water Tap - New Connection	1	1	1	0	0	0	0	0	0	0	0	0	3	1
Water Shutoffs - Delinquent Accounts	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Shutoffs - Other	26	23	14	0	0	0	0	0	0	0	0	0	63	21
Water Shutoffs - Non Payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Restoration Turn on Other	22	24	22	0	0	0	0	0	0	0	0	0	68	23
Water Turn on - Non Payment	5	6	5	0	0	0	0	0	0	0	0	0	16	5



EXHIBIT J

Metering Activities - 2022

Board Monthly Report	Distribution Monthly Report														
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Meter Installations															
	Missing	7	8	3										18	6
	Leaking	7	1	3										11	4
Replacement	Frozen	10	6	6										22	7
	Non-registering	1	3	5										9	3
	Large Meters ¹	0	0	0										0	0
New Service	New Installation	0	1	1										2	1
Meter Service															
MXU's Replaced	MXU's Replaced	20	22	41										83	28
Batteries Replaced	Batteries Replaced	67	25	123										215	72
Meter Pits Serviced	Meter Pits Serviced	1	0	0										1	0
Meter Calibrations															
Small Meters ²	Calibrated meters	2	0	1										3	1

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) - 2022

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	0	0	0	0	0	0	0	0	0	0	0
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0
Billed Metered	Hydrant Connections	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Billed Unmetered	Hydrant Flow Tests	0	7,955	11,526	0	0	0	0	0	0	0	0	0	19,481	6,494
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	221,167	32,288	120,010	0	0	0	0	0	0	0	0	0	373,465	124,488
Leakage on Distribution Mains	Main Leaks	4,349,565	1,286,902	2,856,325	0	0	0	0	0	0	0	0	0	8,492,792	2,830,931
Leakage on Service Lines	Service Leaks	998,776	708,950	595,243	0	0	0	0	0	0	0	0	0	2,302,969	767,656
	Total	5,569,508	2,036,095	3,583,104	0	0	0	0	0	0	0	0	0	11,188,707	3,729,569



Wastewater



WASTEWATER DEPARTMENT MONTHLY REPORT



Wastewater's Field Construction CReW

March 2022

1662 South Cameron Street, Harrisburg, PA 17104 | 888-510-0606 capitalregionwater.com



AWTF Monthly Report

March 2022

Overview

The rapid decline in local caseloads of COVID-19, as confirmed by CRW's Wastewater Surveillance Program, continued through the month of March. This allowed CRW to lift additional mitigation measures since last reporting. CRW will continue its surveillance program to monitor the presence of the virus in our service territory and will be ready to re-enact mitigation measures should input factors warrant it.

Personnel changes were a major focus for the Wastewater and Stormwater departments during the month of March. Three promotions and one resignation created openings that were all filled by internal bidding and promotions, which in turn created four more vacancies, and so on. Division supervisors were busy with application reviews, conducting interviews and onboarding the new CReW members.

Progress on the Front Street Pump Station project continued at a very slow pace throughout March as we attempt to address the remaining punchlist item.

Work on the Primary Digester Rehabilitation project continued at a slow pace in March as well. Additional leak testing and mixer installations occurred. Roof insulation work still remains before it will be possible to begin biological seeding of the unit.

Operations

During the month of March, the AWTF met all monthly average NPDES permit requirements. One Sanitary Sewer Overflow and three Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 20.3 million gallons per day (MGD). The treatment process achieved removal reductions of 97.9 percent CBOD, 98.6 percent Suspended Solids, 53.6 percent Phosphorus, 84.4 percent Ammonia, and 80.0 percent Nitrogen (Exhibit A).

Revenue of the Contract Waste Hauling program collected \$43,374.51 in revenue from 1,434,810 gallons discharged (Exhibit G).

The Cogeneration Facility experienced an average run time of 33 percent in March. Revenue is estimated at \$2,287.79 on 29,700 Kilowatt-hours generated for the month. Decreased run time can be attributed to higher-than-normal pumping of sludge to the primary digester requiring more gas for the boilers to maintain the digester temperature.





March 2022

Laboratory

- Purchased a circulation water bath for use with the Colilert 18 test method.
- Continued work to achieve full functionality of WIMS.
- Submitted primary influent samples to Biobot for COVID-19 testing.
- Began the laboratory technician's annual demonstration of capability (DOC) for PADEP accredited test parameters as required by the PA 252 Laboratory Accreditation regulations.

Pretreatment

- Received self-monitoring reports submitted for February 2022 and Harrisburg, Dairies, Inc.'s fourth quarter 2021 self-monitoring report.
- Completed the "Annual USEPA Pretreatment Report" and forwarded this segment of the PA Chapter 94 Report to Engineering.
- Submitted the "Annual USEPA Pretreatment Report" to the USEPA, Region III.
- Completed the Contract Waste Hauling Program's QuickBooks February data entry and forwarded the waste hauler monthly reports to billing.

Plant Maintenance

- Cleaned and exercised sludge deflector on Belt Filter Press No. 1.
- Installed a rebuilt submersible filtrate pump for the Belt Filter Presses.
- Installed keyless entry to dumpster loading area at the Front Street Pump Station.
- Continued rehabilitation on Methane Gas Compressor No. 2.
- Replaced the 10-inch valve actuator on the drain line on the Grease Pit Scum Box.
- Repaired OMNI backwash unit for the main plant water skid in the Main Control Building.
- Tested backup generator switch gear at the Market Street Pump Station.
- Replaced the Gorman Rupp Pump at Grit Removal Unit No. 4.
- Replaced two 6-inch and one 8-inch gas valves on Primary Digester No. 1.
- Installed new stainless steel gas piping including Methane gas flow meter at the Primary Digester Control House.
- Installed new sample lines at the Primary Digester Control House.
- Installed new methane gas sample port at the Primary Digester Control House.
- Installed new stainless-steel sink in the Primary Digester Control House.
- Installed new Reotemp temperature sensors on Heat Exchanger No. 1 at the Primary Digester Control House.
- Tested backup generator at the Spring Creek Pump Station.
- Continued major overhaul on the bar screen at the Spring Creek Pump Station and assembled new rag removal rake.



WATER

AWTF Monthly Report

March 2022

- Performed 17 vehicular repairs.
- Responded to work requests at the NFS offices, as needed.
- Installed new bollards in the drive thru at the NFS offices.

Field Construction

- Excavated and repaired 4 feet of 8-inch clay sewer pipe at 16th and Randolph Streets. Street repair is to further facilitate CIPP lining.
- Excavated and replaced failing brick stormwater inlet at Green and Lewis Streets. Repaired 5-foot section of 10-inch clay storm water pipe.
- Repaired and retrofitted an A-3 style open back inlet to help combat floatables at Green and Lewis Streets.
- Repaired and retrofitted four sidewalk inlets at Eighteenth and Park Streets. New curb inlets have grating to help with floatables control.
- Rebuilt nine brick inlets at various locations throughout the city.
- Assisted Miller Pipeline in replacing 4 feet of 6-inch sanitary sewer lateral that was damaged in the process of replacing the gas main at 15th and Briggs Streets.

Field Operations

- A total of 9,705 feet (1.84 miles) of sewer pipe were assessed by CCTV footage throughout the month.
- A total of 10,277 feet (1.95 miles) of pipe were flushed during the month.
- Responded to nine backup and overflow calls from residents. CRW was liable for one at 2267 Kensington Street.
- Responded to nine sinkhole calls. Wastewater was liable for none, and Drinking Water was liable for four.
- Cleaned 153 stormwater inlets.
- Inspected 153 stormwater inlets.
- CCTV'd and flushed lines on Industrial Road.
- Flushed lines at Wilson Taylor Park area and McClerster Street between 22nd and Kensington Streets to Hale and Kensington Streets.
- There was one SSO at 2267 Kensington Street.
- Completed one semi-annual CSO PM.
- Located and marked several buried manholes at Cameron and Hanover Streets to be raised to grade.
- Flushed grease line at No. 2 Grease Pit at the plant.



WATER

AWTF Monthly Report

March 2022

Environmental Compliance

- Completed 25 inspections of FOG dischargers. Twenty-one locations received letters of non-compliance with compliance plans and four locations were exempt.
- Issued two permit renewals.
- Three investigations were conducted during the month of March:
 - A dry weather overflow caused by rags occurred at the Front and Schuylkill CSO. The source
 of the rags was located and a meeting with the maintenance department director was
 scheduled. Education was provided and a plan of action to prevent future incidents was
 established.
 - A dry weather overflow caused by rags occurred at the Front and Peffer CSO. The source of the rags was located, and correspondence was sent to the maintenance manager. Education was provided and a plan of action to prevent future incidents was established.
 - A dry weather overflow caused by rags occurred at the South Cameron and Cumberland CSO. This investigation is still on going.

Street Sweeping

- Received one complaint in March.
- New employee started this month. Continued training Nelson Gomez.
- Completed 529.7 miles of street sweeping within the City of Harrisburg.
- Added the area of Reservoir Park to sweeping schedule. It will be included in Areas 1, 6 and 9.
- Cleaned up after the Saint Patrick's Day Race and festivities on Sunday, March 20th.
- There were no days of suspended sweeping due to weather this month.
- Water usage was approximately 8,720 gallons.
- Continued to assist cleaning storm inlets in scheduled sweeping areas.
- When the days of the month fall on a 5th week, there is no scheduled sweeping. However, the
 Street Sweeping group will be assigned specific assignments throughout the city to continue the
 upkeep in highly visible areas. The end of February, the Street Sweeping group swept an
 additional 38.42 miles (included in total miles swept) and continued to clean off the surface area
 of stormwater inlets.



Wastewater Exhibits



EXHIBIT A

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Process Control - 2022

Parameters	lanuary	February	March	April	May	luno	July	August	Contombou	Octobor	Novembe	Docombo	Avorage	NPDES Limits
Parameters	January	February	March	Aprii	May	June	July	August	September	October	Novembe	r Decembe	er Average	Limits
Volume, MGD	18.4	24.3	20.3										21.0	37.7
Carbonaceous Biochemical Oxygen De														
Influent, mg/L	176		163										156	
Effluent, mg/L	3		3										3	25
Percent Removal, %	98.1	93.3	97.9										96.4	
Effluent Loading, lb/d	520	846	572										646	7,860
Suspended Solids:														
Influent, mg/L	177	149	212										179	
Effluent, mg/L	4	4	3										4	30
Percent Removal, %	97.5	92.4	98.6										96.2	
Effluent Loading, lb/d	715	1,397	499										870	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	24	26										25	
Effluent, mg/L	3.1	4.3	5										4	Monitor
Percent Removal, %	88.0	82.2	80										83.5	
Effluent Loading, lb/d	469	719	778										655	
NH3-N														
Influent mg/L	16	13	15										14	
Effluent, mg/L	0.7	1.8	2.3										2	11 (2
Percent Removal, %	95.5	85.7	84.4										88.5	
Effluent Loading, lb/d	113	386	411										303	4,716
Phosphorus:														
Influent, mg/L	3.5	2.8	3.6										3.3	
Effluent, mg/L	0.9		1.6										1.2	2.0
Percent Removal, %	71.6	63.4	53.6										62.9	
Effluent Loading, lb/d	144	206	274										208	629
pH:														
Influent, Std. Units	7.4	7.1	7.3										7.3	
Effluent, Std. Units	7.0	6.7	7.0										6.9	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	7.0	7.7	7.1										7.3	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	6	6	1										4	200/100 ml (1
Chlorine Residual:														
Effluent, mg/L	0.19	0.20	0.19										0.19	0.50

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

PROCESS2022-A

⁽²⁾ Seasonal Limit May 1 to Nov.1.

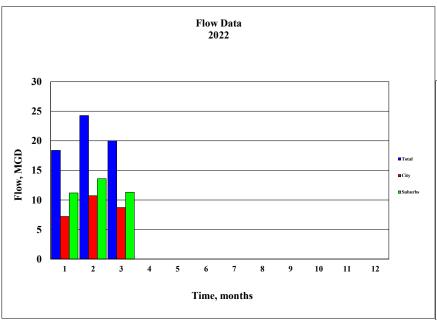


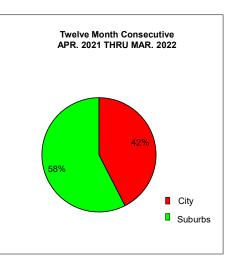
EXHIBIT B

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Flow Monitoring Information, MGD - 2022

														Total
	Total	,				ity Region					burb Regi			Precip
Month	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	inches
January February March April May June July August September October November December	18.400 24.300 20.000	7.202 10.705 8.710	11.198 13.595 11.290	6.361 9.854 7.388	0.158 0.197 0.170	0.300 0.300 0.300	0.254 0.066 0.679	0.129 0.288 0.173	1.300 1.300 1.300	4.217 5.146 3.948	1.820 2.271 1.956	3.532 4.350 3.697	0.329 0.528 0.389	2.170 2.800 2.540
Average Percent	20.90 100.00	8.87 42.45	12.03 57.55											2.50 7.51





FLOW2022 No Zeros-B



EXHIBIT C

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Treatment Utility and Chemical Usage - 2022

Utility / Chemical	January	February	March	April	May	Ju	ıne	July	Aug	ust	September	October	November D	ecember	Average	Tota
Electric																
Total, kwH	1,131,900	1,032,600	1,019,700												1,061,400	3,184
Average, kwH/Day	36,513	36,879	32,894												35,428	
Cost, Dollars	\$70,491.63	\$72,766.82	\$64,633.22												\$69,297.22	\$207,89
Natural Gas																
Total, Cu Ft	905.6	647.3	*												518	1
Average, Cu Ft/Day	29	23	*												26	
Cost, Dollars	\$7,509.60	\$5,404.37	*												\$4,304.66	
Water																
	C01 000	071 022	*												776 447	1 555
Total, Gal. Average, Gal./Day	681,000 21,968	871,833 28,124	*												776,417 25,046	1,552
Cost, Dollars		\$12,357.75	*												\$7,580.76	
Cost, Dollars	\$10,364.54	\$12,337.73													\$7,380.70	Φ ΖΖ,7~
MicroC																
Total, Gal.	0	0	0												0	
Average, Gal./Day	0.0	0.0	0.0												0	
Cost, Dollars	\$0	\$0.00	\$0												\$0.00	\$
Sodium Hydroxide																
Total, Gal.	0	0	0												0	
Average, Gal./Day	0	0	0												0	
Cost, Dollars	0	0	0												\$0.00	\$
Chlorine Disinfection																
Total, Lbs.	5,340	6,020	5,100												5,487	16
Average, Lbs./Day	172	215	165												184	
Avg Residual, mg/L	0.19	0.20	0.19												0.19	
Cost, \$/Lbs.	\$0.99	\$0.99	\$0.99												\$0.99	
Total Cost, Dollars	\$5,286.60	\$5,959.80	\$5,049.00												\$5,431.80	\$16,29
Phosphorous Removal																
Total FeCl3, Gals.	507	1,333	1,634												1,158	3
Avg FeCl3, Gals./Day	16	48	53												39	
	\$1.26	\$1.26	\$1.26												\$1.26	
FeCl3 Cost, \$/Gal.	41.20														₽1.20	

^{*} No data at time of report

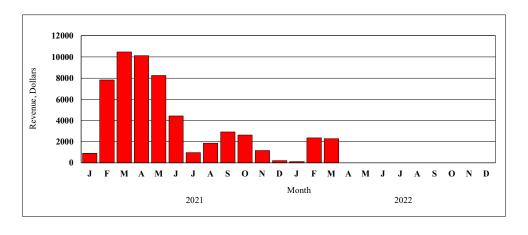


EXHIBIT D

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Cogeneration Electrical Production: 2021-2022

	Percent	Daily Avg	Kilowatt Hours	Estimated	
Period	Run Time	Kilowatt	Produced	Revenue	
January 2021	12	377	11,700	\$901.25	
February 2021	75	3,632	101,700	\$7,833.95	
March 2021	84	4,384	135,900	\$10,468.38	
April 2021	77	4,380	131,400	\$10,121.74	
May 2021	79	3,454	107,100	\$8,249.91	
June 2021	42	1,920	57,600	\$4,436.93	
July 2021	8	406	12,600	\$970.58	
August 2021	26	784	24,300	\$1,871.83	
September 2021	27	1,260	37,800	\$2,911.73	
October 2021	26	1,103	34,200	\$2,634.43	
November 2021	12	510	15,300	\$1,178.56	
December 2021	2	87	2,700	\$207.98	
T-+-1 2024			672.200	¢54.707.07	
Total - 2021	20	4.050	672,300	\$51,787.27	
Monthly Average - 2021	39	1,858	56,025	\$4,315.61	
January 2022	2	58	1,800	\$138.65	
February 2022	37	1,093	30,600	\$2,357.12	
March 2022	33	958	29,700	\$2,287.79	
April 2022					
May 2022					
June 2022					
July 2022					
August 2022					
September 2022					
October 2022					
November 2022					
December 2022					
Total - 2022			62,100	\$4,783.56	
Monthly Average - 2022	24	703	20,700	\$1,594.52	



COGEN2022-D 10



EXHIBIT E

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Sludge Handling Information - 2022

Process	January	February	March	April	Ma	y	June	July	August	September	October	November December	Average	Total
Solids Removal														
Process, Lbs.	836,796	808,604	1,256,456	()	0	0	()	0 0	0	0	967,286	2,901,857
CWH Program, Lbs.	69,353	76,120	124,956										90,143	270,429
Total Solids, Lbs.	906,149	884,724	1,381,413										1,057,429	3,172,286
Sludge Dewatering														
Feed Volume, Gals.	3,577,000	2,678,000	4,535,000										3,596,667	10,790,000
Feed Solids, %	1.7	1.7	2.0										1.8	-
Labor, Hours	459	416	659										511	1,534
Operations, Hours	930	785	1,132										949	2,846
Total Cake, Dry Tons	179	167	312										219	658
Total Cake, Wet Tons	1,149	1,069	1,855										1,358	4,073
Cake TS, %	15.5	15.6	16.8										16.0	-
Press Rate, Lbs./Hour	2,472	2,725	3,279										2,825	8,476
Polymer Dosage, Lbs	3,188	2,976	4,605										3,590	10,769
Polymer Dosage, Lbs/Dry Ton	20.4	19.4	15.1										18.3	-
Disposal Cost														
Labor, Dollars	\$8,821.98	\$7,995.52	\$12,665.98										\$9,827.83	\$29,483.48
Electrical,Dollars	\$409.07	\$345.18	\$497.86										\$417.37	\$1,252.11
Polymer, Dollars	\$6,120.96	\$5,713.92	\$8,841.60										\$6,892.16	\$20,676.48
Disposal, Dollars		\$23,705.00	-											\$104,453.12
Total Cost, Dollars		\$37,759.62	-											\$155,865.19
Cost Per Dry Ton, Dollars	\$240.87	\$226.11	\$240.35										\$235.78	•

SLUDGE2022-E

EXHIBIT F

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2022

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kwH	232,800	219,600	*										226,200	452,4
Average, kwH/Day	7,510	7,843	*										7,676	
Cost, Dollars Fuel Oil	######	\$14,468.72	*										\$14,675.92	\$29,351.
Total, Gals.	0	0	0										0	
Average, Gals./Day	0	0	0										0	
Cost, Dollars	\$0.00	\$0.00	\$0.00										0	\$0.
Water														
Total, Gals.	315,000	180,833	*										247,917	495,8
Average, Gal./Day	10,161	6,458	*										8,310	
Cost, Dollars	\$3,953.62	\$2,566.33	*											\$6,519.
Spring Creek Pump Station														
Electric														
Total, kwH	36,160	52,160	*										44,160	88,3
Average, kwH/Day	1,166	1,863	*										1,515	-
Cost, Dollars	\$2,617.50	\$3,866.14	*										\$3,241.82	\$6,483
Fuel Oil														
Total, Gals.	0	0	0										0	
Average, Gals./Day	0	0	0										0	-
Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.
Water														
Total, Gals.	25,000	39,000	*										32,000	64,0
Average, Gal./Day	806	1,393	*										1,100	
Cost, Dollars	\$334.49	\$479.25	*										\$406.87	\$813.
Market Street Pump Station														
Electric														
Total, kwH	1,200	1,200	*										1,200	2,4
Average, kwH/Day	39	43	*										41	
Cost,Dollars Fuel Oil	\$207.27	\$123.51	*										\$165.39	\$330.
Total, Gals.	0	0	0										0	
Average, Gals./Day	0	0	0										0	-
Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.0
City Island Pump Station														
Electric														
Total, kwH	40	40	*										40	
Average, kwH/Day	1	1	*										1	-
		\$54.75	*											\$118.

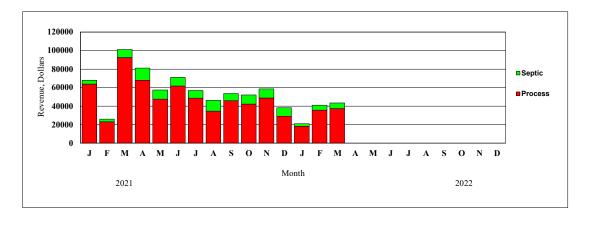


EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2021 - 2022

	Process				Total		
Month	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue	
January	2,207,599	\$63,748.15	118,100	\$4,255.20	119,200	\$68,003.35	
February	765,460	\$23,088.42	81,060	\$2,864.16	846,520	\$25,952.58	
March	3,321,165	\$92,510.78	239,250	\$8,559.00	3,560,415	\$101,069.78	
April	2,345,220	\$67,928.04	366,960	\$13,093.56	2,712,180	\$81,021.60	
May	1,571,220	\$47,547.72	278,050	\$9,883.80	1,489,270	\$57,431.52	
June	2,116,390	\$61,668.09	265,920	\$9,380.70	2,382,340	\$71,048.79	
July	1,683,380	\$48,625.56	233,900	\$8,366.40	1,917,280	\$56,991.96	
August	1,157,030	\$34,517.61	327,260	\$11,655.36	1,484,290	\$46,172.97	
September	1,591,020	\$45,863.64	220,840	\$7,779.24	1,811,860	\$53,642.88	
October	1,495,740	\$42,324.00	273,850	\$9,786.60	1,769,590	\$52,110.90	
November	1,667,580	\$48,803.22	277,250	\$9,864.00	1,944,830	\$58,667.22	
December	988,550	\$29,082.69	253,150	\$9,041.40	1,241,700	\$38,124.09	
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Total - 2021	20,910,354	\$605,707.92	2,935,590	\$104,529.42	21,279,475	\$710,237.64	
Monthly Average - 2021	1,742,530	\$50,475.66	244,633	\$8,710.79	1,773,290	\$59,186.47	
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							
May							
June							
July							
August							
September							
October							
November							
December							
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Total - 2022	3,077,947	\$91,425.30	397,825	\$14,024.60	3,475,772	\$105,450.00	
Monthly Average - 2022	1,025,982	\$30,475.10	132,608	\$4,674.87	1,158,591	\$35,150.00	



CWH2022-G 13