

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 2/28/2022.
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 Drinking Water	Provided separately to Board of Directors.
Capital Improvement Projects for Wastewater	Provided separately to Board of Directors.
Grant Management	Refer to attached <i>Grant Management Report</i> .
Ensure Revenues are Consistent with System Usage	
Water Shut-offs	There were no water shut-offs for non-payment, six were turned back on after payment, and 23 service shut-off requests.
Repair/Replace Meters/MXUs/Batteries	Drinking Water department staff replaced 23 water meters, replaced 25 batteries, and 22 MXUs.
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	On 3/15/2022, CRW is meeting with USDOJ/U.S. EPA/PADEP to review comments on the draft modification to the Partial Consent Decree.
Develop Necessary Planning for Implementation of Green Infrastructure	The Camp Curtin Big Green Block and Bellevue Park Stormwater Ponds Retrofit projects are proceeding with construction under Phase 3 of the PENNVEST Stormwater Pro-Fi loan. Phase 4 of the PENNVEST Stormwater Pro-Fi loan is in Final Design. Phase 5 of the PENNVEST Stormwater Pro-Fi loan is in preliminary design and site visits to select GSI sites were conducted in early March.
Joint Pollutant Reduction Plan -Collaborate 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 engaging in a second contract within the Paxton Creek watershed. This opportunity may allow the partners to achieve the remaining pounds of sediment reduction for this first five-year permit cycle through this cost-effective approach (2020-2025).
Obtain and Comply with Individual MS4 Permit	CRW's staff are working on implementation of the MS4 Permit requirements which include, but are limited to: six (6) Minimum Control Measures, stormwater outfall inspections, Best Management Practice (BMP) inspections, Appendices B & C, investigation of pathogens and priority organic compounds.
Operate Facilities with a High Standard 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 February. One Dry Weather Overflow was reported.
Notice of Violations (NOVs)	There was one NOV received by the Drinking Water department in February. There was one NOV received by the Wastewater Department in February from the PA Department of Labor and Industry. It was in regard to a small leak on a pressure relief valve on a boiler unit. The pressure relief valve was replaced with notice being provided to the PA Department of Labor and Industry in response.
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 February and used snow days to perform a great deal of preventative maintenance on heavy field equipment.
CCTV	A total of 3,177 feet (.60 miles) of sewer pipe were assessed by CCTV footage during the month of February. A total of 13,866 feet (2.63 miles) of pipe were flushed as well.
Incident Response	Wastewater responded to nine backup and overflow calls during the month of February. CRW was liable for one. A summary can be found in the Wastewater Department Monthly Report for February.

Geographic Information System (GIS)	<ul style="list-style-type: none"> • Site visit to PA Department of General Services garage to discuss stormwater drainage issues and stormwater management process. • Participated in two Lead and Copper Rule meetings and one meeting related to CRW's current inventory and tracking of lead pipes. • Participated in seven meetings related to Asset Management. • Twenty-five PA 1 Call tickets were completed. Twenty-three tickets required the creation of a map and two had no CRW assets in the project area.
Cityworks	[REDACTED]
Asset Management	Task Order 2022-04-01 Asset Management Quick Win initiatives are on schedule. Subtasks 3.1, 3.2, 3.3, and 3.4 have been completed by the Information System Data Management roadmap implementation group (RIG). The scope is being amended to include a pilot to update the GIS asset repository in response to the Front Street pumping station upgrade. The kickoff meeting for Task Order 2022-06-01 [REDACTED] implementation was held on 3/8/2022 and CRW is currently working on the initial data request. Activities related to the AM Management of Change Plan and Communications Plan are in development.
Development Review Summary	For details, see attached <i>Development Stormwater Management Review Summary</i> spreadsheet for February..
Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report	
Professional & Contractor Services	<p>Recommend Board approval of the following Task Orders, Change Orders and Agreements:</p> <p>Drinking Water:</p> <ul style="list-style-type: none"> • Task Order 2022-10-01: Engineering Services for Cameron Street Water Main Improvements Project - Phase 4 with [REDACTED] <p>Wastewater: None.</p> <p>Stormwater:</p> <ul style="list-style-type: none"> • Resolution No. 2022-005 - Stormwater Operation & Maintenance Agreement with United Natural Foods, Inc. (UNFI)
Stormwater O&M Agreements	<p>Recommend Board approval of the following:</p> <p>Resolution No. 2022-005 - Tax Parcel ID No. 14-041-031 UNFI Operation & Management Agreement - 3900 Industrial Road</p>
AWTF Primary Digesters Rehabilitation	The installation of the Digester No.1 cover is complete. The mixing system will be installed in April.
AWTF Energy Recovery Improvements	Permit applications are being reviewed by Swatara Township and PADEP.
Front Street Pumping Station Improvements	The contractors are addressing punch list items and site cleanup.
WSC Flocculator Equipment Replacement	Notice to proceed was issued to the general and electrical contractors on 2/1/2022.

Undertake Renewal and Replacement Projects	
2020 Sewer System Improvements	One cured-in-place lining segment, punch list items, and final paving remain in the spring.
2021 Sewer System Improvements	The contractor is replacing manholes and storm inlets along Sycamore Street.
2021 Water System Improvements	The contractor is working at the Derry-Mulberry Street location.
Cameron Street Water Main - Phase 3	The contractor is reconnecting services in Cameron Street. Additional work is required to reconnect the AWTF water service line.
Arsenal Boulevard Sewer Improvements	Permit applications will be submitted to PADEP in March.
Front Street Interceptor Rehabilitation - Phase 2	The project is advertised and bids are due 3/31/2022.
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 February. A narrative is provided in the Wastewater Department Monthly Report.
Sinkhole Program	Seven (7) sinkholes were investigated by CRW in the month of February. Wastewater was liable for none, and Drinking Water was liable for two.
Inlet Cleaning	A total of 24 stormwater inlets were cleaned during the month of February, and 24 stormwater inlet inspections were performed.

Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	<p>Timber harvest to improve regeneration continues in Management Unit (MU) 22/31 in accordance with the DeHart Property Forest Management Plan.</p> <p>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. The bid prospectus for overstory removal in MU 24 is nearly complete.</p>
Sustainability	No update.
Internal Communications	The Intranet site and calendar continue to be utilized. Internal communications have included information on COVID-19/CDC guidance, opening of Customer Service, and employee appreciation.
Inform and Listen to Customers and Encourage Stewardship of our Systems	
Media Relations - Press and Social Media	<p>PRESS RELEASES: N/A</p> <p>SOCIAL MEDIA TOPICS:</p> <ul style="list-style-type: none"> • Facebook: 8 New Organic Followers. 10 Posts; Highest Engaged Post: (2/25/2022) "Employee of the Month- Austin & Keith." (49 Post Clicks; 68 Reactions, 9 Comments & 7 Shares; 939 Organic Reach); Other topics: Flushing Facts, Award Acceptance, 2 BWAs & Lift Notices, AWTF Tour Opportunities, LIHWAP Info, Snow Melt Run-off facts. <p>FACEBOOK LIHWAP AD: 3,031 Paid Reach.</p> <ul style="list-style-type: none"> • Twitter: 3 Tweets; Highest Engaged Tweet: "PA Energy GOP Committee meeting" (69 Impressions; 1 Likes, 1 Retweets) Month overview: 1,039 total Impressions; 372 Profile Visits; -3 New Followers; 1 Mentions. • Instagram: 4 New followers (667 Total), 5 Posts; Highest Engaged Post: (2/25/2022): "Employee of the Month- Austin & Keith." 116 Organic Reach, 11 likes, 1 comment. <p>2022 Demographics: Most Active Age-range: 25-54; Gender division: 62% women/37% Men; Locations: Harrisburg, Penbrook, Mechanicsburg, Steelton, Linglestown, Camp Hill and Lancaster.</p>
Community Relations	<p>Community Ambassador Meeting held 2/16/2022: Presenter: Jess Rosentel discussed Biobot chart and CRW COVID protocols. Updates: Current CRW safety protocols, American Rescue Plan Act, Senate Committee Hearing update, LIHWAP and Customer Assistance Program eligibility. Open items: construction projects, CRW job openings, and community ambassador concerns and updates.</p> <p>Community Outreach:</p> <ul style="list-style-type: none"> • Delivered 506 door-to-door notifications re: water service interruptions, sewer line repairs, sewer maintenance, Fats, Oil & Grease and boil water advisory and lifts. • Five (5) Everbridge emergency for water service interruptions and boil water advisories and lifts. Two (2) confirmations received from the 62 customers that were alerted. • Daily CSO inspections and Everbridge customer updates. • One (1) community meeting and zero (0) community events. Five (5) on-site construction project meetings, and two (2) in-person customer complaint follow-ups. One (1) business litter cleanup partnership meeting (Giant Foods).
Public Communications	<p>WHAT'S ON TAP COMMUNICATION: The February 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.</p>

<p>Office Management and Admin Professional Services and Construction</p>	<p>Incoming Correspondence Report: Refer to attached <i>Incoming Correspondence Report for February 2022</i> .</p> <p>Street/Sidewalk-Cut Permits: One Drinking Water and one Wastewater request was received and processed from the City of Harrisburg's Engineer.</p> <p>3003 North Front Street Office and Property Management:</p> <ul style="list-style-type: none"> • Bollards were installed along the perimeters of the customer drive-thru for safety purposes. <p>Recommend Board approval of the following:</p> <ul style="list-style-type: none"> • Purchase of (G-78) 2022/2023 Ford F-250 Super Duty XL 4X4 Regular Cab 8' Box Truck w/Bed Credit from [REDACTED] and Utility Body Upfit from [REDACTED] for Wastewater Department.
<p>Right-to-Know Requests</p>	<p>CRW has received and responded to two Right-to-Know requests during the period 2/17/2022 through 3/16/2022. 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.</p> <p>OOB Training: The Open-Records Officer participated in the following webinar conducted by the Office of Open Records (OOR):</p> <ul style="list-style-type: none"> • 3/09/2022 - Laws that Protect Information <p>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.</p> <ol style="list-style-type: none"> 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. <p>Response due: 3/9/2022. Response provided 3/8/2022 for 30-day extension until 4/8/2022.</p> <p>2022-004 - Jessenia Carvajal (SmartProcure) All current employee/staff contact information, including:</p> <ol style="list-style-type: none"> 1. First Name. 2. Last Name. 3. Position Title. 4. Department. 5. Direct phone number (if does not exist, list main phone number with extension). 6. Business cell phone (if provided by Capital Region Water). 7. Email address. 8. Office address (address, city, state, zip). <p>Response due: 3/18/2022. Response provided 3/17/2022.</p>



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WATER

DRINKING WATER DEPARTMENT MONTHLY REPORT



Ongoing filter console upgrades.

February 2022

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

Plant Operations

The Capital Region Water (CRW) Drinking Water department met all Federal Safe Drinking Water Act water quality standards for the month of February. Specific water quality results are summarized in Exhibit A. A total of 230.1 MG, averaging 8.21 MGD was withdrawn from the water supply sources for treatment. As shown in Exhibit B, a total of 224.5 MG, averaging 8.02 MGD, of finished drinking water was pumped to the distribution system.

The DeHart water source was in service 28 days. The Susquehanna River water source was not in service. The DeHart Watershed had above average rainfall in February (Exhibit C) and the DeHart reservoir water level increased (Exhibit D). An estimated 918.24 MG of water was released from DeHart reservoir to Clark Creek, averaging 32.79 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 63 preventative maintenance work orders and three corrective maintenance work orders for the month of February using the Cityworks maintenance management system for all water treatment plant equipment, pumping stations and fleet vehicles.

- The Maintenance 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 started the installation of the bollards for the Bulk Water Filling Station.
- The Maintenance team installed new LED lights in the training room and break room and all the closets at the Water Treatment Plant.
- The Maintenance team re-installed all the shelving and parts cabinets that were in the service closets for the maintenance, distribution and janitorial groups in the maintenance building closets in preparation for the installation of new VCT flooring.
- The Maintenance team repaired and painted the exterior wall in the gym at the NFS offices.
- The Maintenance team repaired the existing caustic system that had several leaks at the fittings and pumps. We are looking at updating this system in-house due to the number of leaks and performance issue associated with the system.
- The Maintenance team continues to support the requests and work orders for the NFS offices.

- The Maintenance team continues working on the Distribution Mountain Line by installing markers, clearing off blow off pits for ease of access and locating pits on GIS.
- The Maintenance team continues to do snow removal and rock salt application at the WTP, Front Street WPS, Reservoir Park WPS, Union Square FPS and the DeHart Dam facility.
- The Maintenance team continues to service and repair the maintenance and distribution fleet.

Distribution

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

- Repair six water main breaks during the month, 1,286,902 gallons of unmetered water for the month of February.
- Repair 10 leaking services during the month, 708,950 gallons of unmetered water for the month of February.
- No fire hydrants are out of service.
- Complete 285 work orders.
- Prepare 97 meter cards.
- Complete 501 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

The CRW Drinking Water department received a Notice of Violation in February. This violation was the result of an old calendar being utilized and Distribution site 703 was sampled in place of site 707. During the height of the COVID-19 pandemic, site 703 was being utilized in place of site 707. CRW switched back to the original sampling plan during the 2nd quarter of 2021. This was not notated on the posted monitoring calendar.



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WATER

Drinking Water Exhibits



EXHIBIT A Water Quality Analysis - 2022

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	A												5% P
Chlorine Residual, mg/L Free														
Filter Plant Effluent	1.94	2.03	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	<0.02
Turbidity, NTU														
Influent from DeHart	0.57	0.55	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	NA
Filter Plant Effluent	0.04	0.03	0.00	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														
Influent from DeHart	6.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.34	NA
Influent from Susquehanna	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	NA
Filter Plant Effluent	7.4	7.5	0.0	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	0.0	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	0	0	0	0	0	0	0	0	0	0	5.00	NA
Influent from Susquehanna	NA	NA	0	0	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	13	18	0	0	0	0	0	0	0	0	0	0	15.41	<15*
Distribution System	15	17	0	0	0	0	0	0	0	0	0	0	15.75	<15*
Temperature, degrees C														
Influent from DeHart	6.6	6.0	0.0	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	0.0	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	0.0	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	0.0	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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														
Influent from DeHart	13	13	0	0	0	0	0	0	0	0	0	0	13.07	NA
Influent from Susquehanna	NA	NA	0	0	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	37	38	0	0	0	0	0	0	0	0	0	0	37.64	500*
Distribution System	39	40	0	0	0	0	0	0	0	0	0	0	39.70	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	0	0	0	0	0	0	0	0	0	0	8.00	NA
Influent from Susquehanna	NA	NA	0	0	0	0	0	0	0	0	0	0	N/A	NA
Filter Plant Effluent	8	8	0	0	0	0	0	0	0	0	0	0	7.99	NA
Distribution System	8	7	0	0	0	0	0	0	0	0	0	0	7.50	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.20	1.15	0.00	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	0.000	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	0.000	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														
Influent from DeHart	3.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	NA
Influent from Susquehanna	NA	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	NA
Filter Plant Effluent	1.50	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	NA
Average Filter Run, Hours	114	116	0	0	0	0	0	0	0	0	0	0	115.00	NA

*** Not Available at Time of Report

* Values are related to DEP Secondary MCL

** Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2022

Month	DeHart Withdrawal		River Withdrawal		Total Withdrawal		Treated Water		Process Water		Finished Water	
	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)
January	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	460.809		0.000		460.809		469.378		9.900		452.914	
Average	230.405	7.830	0.000	0.000	230.405	7.830	234.689	7.974	4.950	0.169	226.457	7.693

Peak Day Water Use
Minimum Day Water Use

5/31/2020
5/1/2020

6.966
6.081

(MG) = Million Gallons
(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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.88
Daily Average	0.080	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.193
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.62

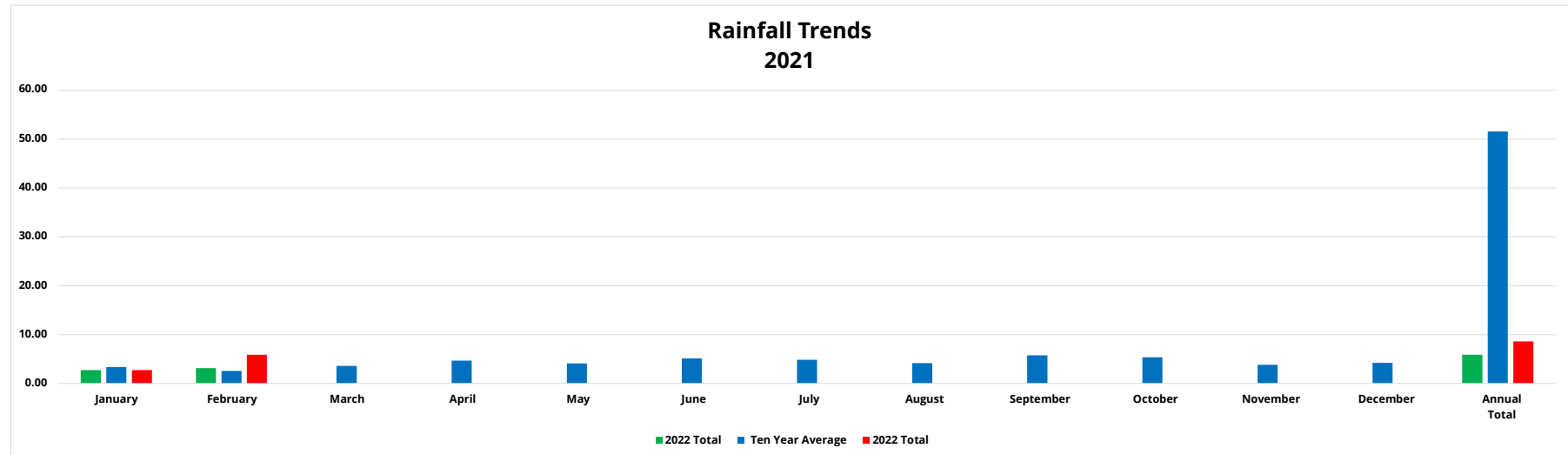


EXHIBIT D

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	0.0	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

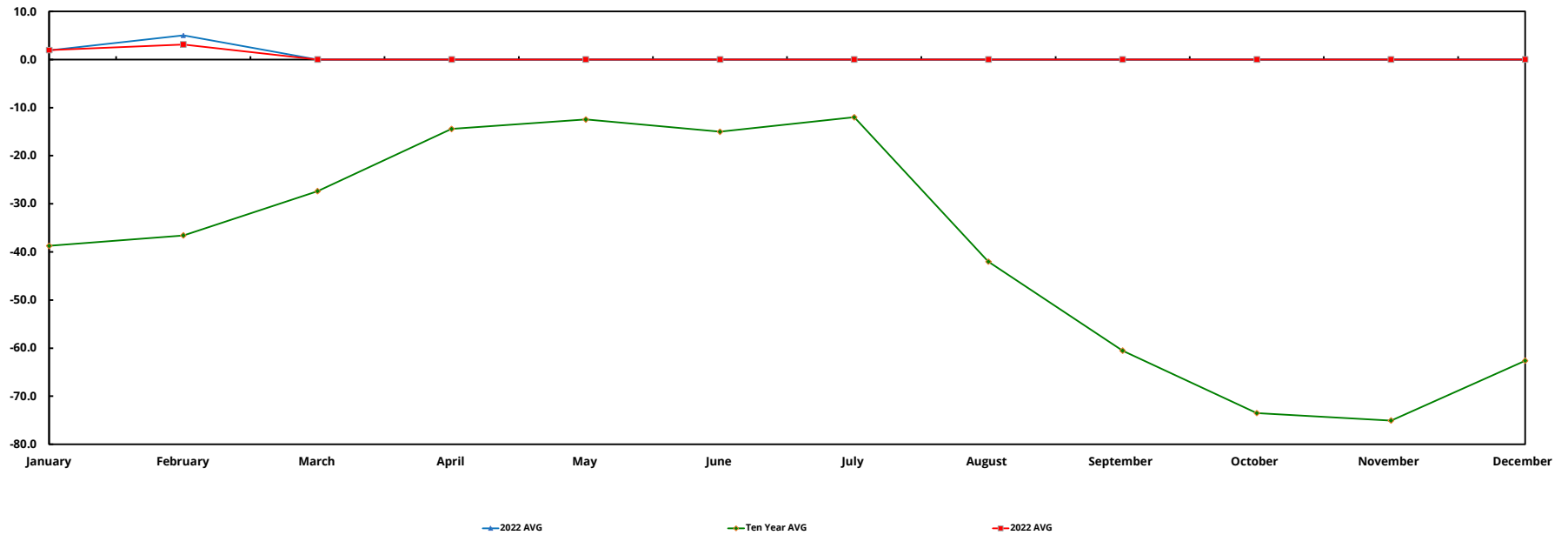


EXHIBIT E
Daily Conservation Release - 2022

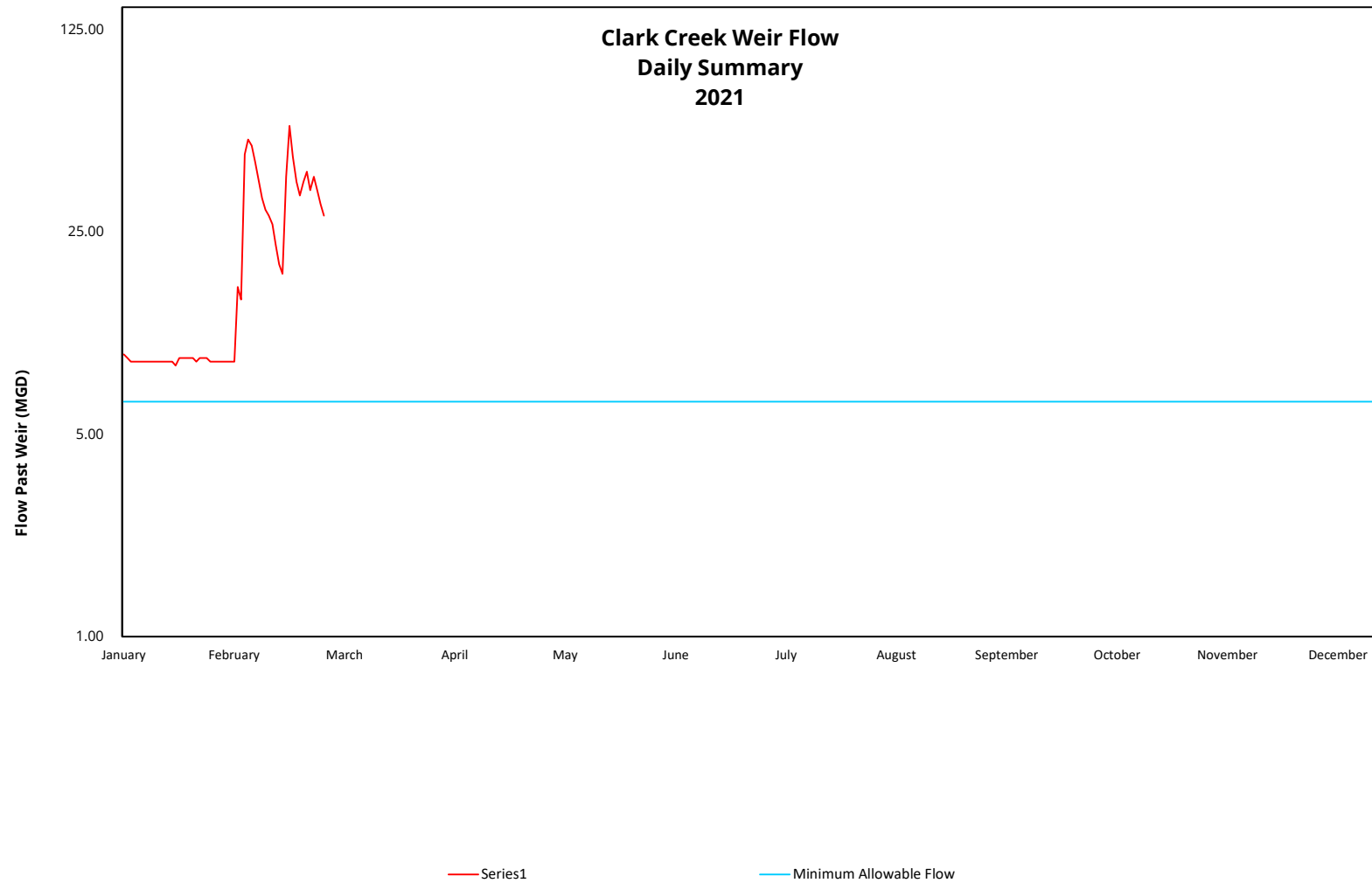




EXHIBIT F
Utility Usage - 2022

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kWh														0
Cost, Dollars														\$0.00
Electric Generation														
Total, kWh														0
Cost, Dollars														\$0.00
Natural Gas														
Total, Cu Ft														0
Cost, Dollars														\$0.00
Sewer														
Total, Gal														0
Cost, Dollars														\$0.00
Refuse														
Cost, Dollars														\$0.00
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	84,800												84,800	84,800
Cost, Dollars														\$0.00
Electric Generation														
Total, kWh	84,800												84,800	84,800
Cost, Dollars	\$1,074.71												\$1,074.71	\$1,074.71
Natural Gas														
Total, Cu Ft	823												823	823
Cost, Dollars	\$696.50												\$696.50	\$696.50
Wassukuhanna 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.														0
Cost, Dollars														\$0.00
City Island Heat Trace														
Electric Transmission														
Total, kWh														0
Cost, Dollars														\$0.00
Electric Generation														
Total, kWh														0
Cost, Dollars														\$0.00
Expenditures YTD														\$3,270

** 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
Total Utilities	\$3,270

Exhibit G

Hydro-Turbine Generator Performance - 2022

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January	48,590	\$2,818
February	42,322	\$2,455
March	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

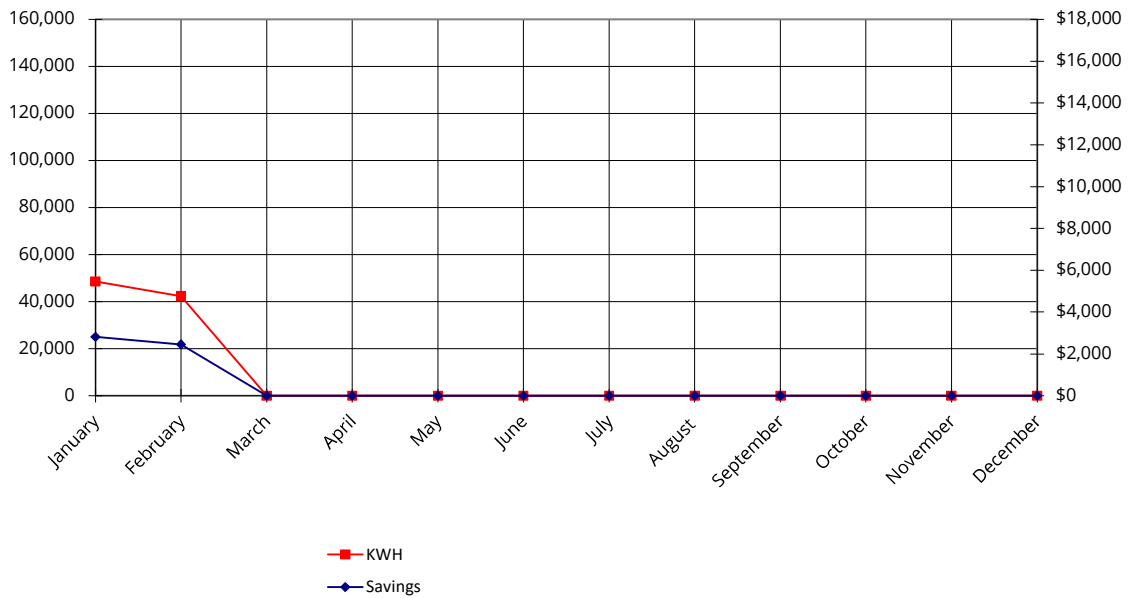


EXHIBIT H
Treatment Chemical Usage - 2022

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,180	6,133											6,157	12,313
Average, Chlorine Lbs./Day	199	219											209.2	
Average, Chlorine Dose, mg/L	3.2	3.2											3.2	
Chlorine Cost, \$/Lbs.	\$0.305	\$0.305											0.3	
Chlorine Total Cost, Dollars	\$1,885	\$1,871											\$1,877.95	\$3,755.90
Alum 48.5%														
Total Lbs.	48,096	46,683											47,390	94,779
Average, Alum, Lbs./Day	1,551	1,667											1609.2	
Average, Alum, mg/L	25.0	25.0											25.0	
Alum Cost, \$/Lbs.	\$0.164	\$0.164											0.2	
Alum Total Cost, Dollars	\$7,888	\$7,656											\$7,771.87	\$15,543.74
Lime														
Total Lbs.														0
Average Lime, Lbs./Day														
Average, Lime Dose, mg/L														
Lime Cost, \$/Lbs.														
Lime Total Cost, Dollars														\$0.00
Soda Ash														
Total Lbs.	24,800	25,750											25,275	50,550
Average Soda Ash, Lbs./Day	800	920											860.0	
Average, Soda Ash Dose, mg/L	16.7	16.7											16.7	
Soda Ash Cost, \$/Lbs.	\$0.299	\$0.299											0.3	
Soda Ash Total Cost, Dollars	\$7,415	\$7,699											\$7,557.10	\$15,114.20
Fluoride														
Total Lbs.	1,155	1,193											1,174	2,348
Average, Fluoride Lbs./Day	37	43											40.1	
Average, Fluoride (F-) Dose, mg/L	0.6	0.6											0.6	
Fluoride Cost, \$/Lbs.	\$0.48	\$0.48											\$0.48	
Fluoride Total Cost, Dollars	\$554	\$573											\$563.70	\$1,127.40
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	41,600	36,660											39,130	78,260
Average NaOH 50%, dry Lbs./Day	1,342	1,309											1,325	
Average, NaOH 50%, mg/L	10.7	10.7											10.7	
NaOH 50% Cost, dry \$/Lbs	\$0.174	\$0.174											0.2	
NaOH 50% Total Cost, Dollars	\$7,238	\$6,379											\$6,808.70	\$13,617.40
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	5,142	5,057											5,100	10,199
Average Zn3(PO4)2, wet Lbs./Day	166	181											173.4	
Average, Zn3(PO4)2 Dose, mg/L	2.7	2.7											2.7	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$0.374	\$0.374											0.4	
Zn3(PO4)2 Total Cost, Dollars	\$1,923	\$1,891											\$1,907.05	\$3,814.11
Potassium Permanganate														
Total KMnO4, Lbs.														0
Average KMnO4, Lbs./Day														
Average, KMnO4 Dose, mg/L														
KMnO4 Cost, \$/Lbs.														
KMnO4 Total Cost, Dollars														\$0.00
Expenditure														\$52,972.75
Average Treated Cost per (MG)														
Total Treated Flow (MGD)														0.000
Average Treated Flow (MGD)														39.115

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	0	0	0	0	0	0	0	0	0	0	924	462
Street Restorations	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leak Detection Assessment <i>Percent of Distribution System</i>	8	8	0	0	0	0	0	0	0	0	0	0	16	8
Main Break Repair - Detected Non-Surfacing	1	0	0	0	0	0	0	0	0	0	0	0	1	1
Main Breaks Repaired - Emergency	2	6	0	0	0	0	0	0	0	0	0	0	8	4
Service Line Leaks Detected	2	10	0	0	0	0	0	0	0	0	0	0	12	6
Service Line Leaks Repaired	1	11	0	0	0	0	1	0	0	0	0	0	13	6
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	0	0	0	0	0	0	0	0	0	0	2	1
Hydrants Returned to Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Tap - Disconnected	1	0	0	0	0	0	0	0	0	0	0	0	1	1
Water Tap - New Connection	1	1	0	0	0	0	0	0	0	0	0	0	2	1
Water Shutoffs - Delinquent Accounts	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Shutoffs - Other	26	23	0	0	0	0	0	0	0	0	0	0	49	25
Water Shutoffs - Non Payment	0	0	0	0	0	0	0	0	0	29	0	0	29	0
Water Restoration Turn on Other	22	24	0	0	0	0	0	0	0	0	0	0	46	23
Water Turn on - Non Payment	5	6	0	0	0	0	0	0	0	17	0	0	28	6

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															
Replacement	Missing	7	8											15	8
	Leaking	7	1											8	4
	Frozen	10	6											16	8
	Non-registering	1	3											4	2
	Large Meters¹	0	0											0	0
New Service	New Installation	0	1											1	1
Meter Service															
MXU's Replaced	MXU's Replaced	20	22											42	21
Batteries Replaced	Batteries Replaced	67	25											92	46
Meter Pits Serviced	Meter Pits Serviced	1	0											1	1
Meter Calibrations															
Small Meters²	Calibrated meters	2	0											2	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	0	0	0	0	0	0	0	0	0	0	0	0
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	0	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	0	0	0	0	0	0	0	0	0	0	7,955	7,955
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	221,167	32,288	0	0	0	0	0	0	0	0	0	0	253,455	126,728
Leakage on Distribution Mains	Main Leaks	4,349,565	1,286,902	0	0	0	0	0	0	0	0	0	0	5,636,467	2,818,234
Leakage on Service Lines	Service Leaks	998,776	708,950	0	0	0	0	0	0	0	0	0	0	1,707,726	853,863
	Total	5,569,508	2,036,095	0	0	0	0	0	0	0	0	0	0	7,605,603	3,802,802



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WATER

Wastewater

Wastewater





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WASTEWATER DEPARTMENT MONTHLY REPORT



Wastewater's Field Construction CREW

February 2022

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

Overview

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

Progress on the Front Street Pump Station project remained stalled throughout February. More than a dozen punch list items remain for the contractor complete to achieve the Final Completion benchmark.

Progress on the Primary Digester Rehabilitation project continued slowly in February. The general contractor completed hydrostatic testing of Digester No.1. Installation of internal piping was also completed during the month. Leak testing, application of protective coatings, and mixer installation are among the items that still need to be completed. The date for commissioning of this unit has postponed to April 2022.

Operations

During the month of February, the AWTF met all monthly average NPDES permit requirements. Two Sanitary Sewer Overflows were reported. The facility also received a Notice of Violation (NOV) from PA Department of Labor and Industry for a small leak on a pressure relief valve on a boiler unit. The valve was quickly replaced, and a response was provided, as required.

Hydraulic loading to the AWTF averaged 24.3 million gallons per day (MGD). The treatment process achieved removal reductions of 93.3 percent CBOD, 92.4 percent Suspended Solids, 63.4 percent Phosphorus, 85.7 percent Ammonia, and 82.9 percent Nitrogen (Exhibit A).

A full-scale trial with a free alternative supplemental carbon source for the denitrification process began in August and continued through February. Effluent nitrogen concentration averaged 4.3 mg/L for the month (Exhibit A). Continued success would result in a dramatic decrease in chemical cost and the potential generation of significant non-rate revenue through the sale of nitrogen credits.

Revenue of the Contract Waste Hauling program collected \$41,051.04 in revenue from 1,404,724 gallons discharged (Exhibit G).

The Cogeneration Facility experienced an average run time of 37 percent in February. Revenue is estimated at \$2,357.12 on 30,600 Kilowatt-hours generated for the month. Increased run time can be attributed to the required overhaul of the gas compressor being completed.

Laboratory

- As a result of the recent laboratory inspection, CRW submitted a Corrective Action Plan (CAR-2) to PADEP Bureau of Laboratories addressing laboratory deviations that are required to be corrected within 60 days. In review, the deviations were mostly editorial revisions that did not compromise AWTF's test result(s).
- Updated the laboratory's Procedures Manual, Quality Manual, and bench sheets.
- Worked with WIMS. Due to the lack of administrative privileges, was unable to make changes to worksheets.
- Submitted primary influent samples to Biobot for COVID-19 testing.

Pretreatment

- Received self-monitoring reports submitted for January 2022.
- Completed the fourth quarter 2021 significant noncompliance evaluation.
- Began assembling the Pretreatment segment of the Chapter 94 Report.
- Completed the Contract Waste Hauling program's QuickBooks January 2022 data entry check before forwarding the waste hauler monthly reports to billing.

Plant Maintenance

- Outsourced infrared testing on all electrical equipment at the facility and any necessary repairs were made during testing.
- Installed 50-foot antenna tower for wireless communication from the Front Street Pump Station to the main plant.
- Continued rehabilitation of Gas Compressor No. 2.
- Installed new Seepex progressive cavity pump in the Main Control Building.
- Installed antenna on truck garage at the plant for wireless communication to Spring Creek Pump Station.
- Tested switch gear on backup generator at the Market Street Pump Station.
- Replaced Gorman Rupp Grit Pump No. 4 at the Pista Grit.
- Retubed 16 lengths of 6-inch heat exchanger piping at the Primary Digester Control House.
- Installed antenna tower at the Spring Creek Pump Station for wireless communication to truck garage at the main plant.
- Tested backup generator at the Spring Creek Pump Station.
- Performed major overhaul removal of bar screen at the Spring Creek Pump Station in

preparation for delivery of new parts. Assembled new rag removal rake.

- Performed 21 vehicle repairs in preparation for state inspections.
- Responded to work requests at the office building at 3003 North Front Street.

Field Construction

- Excavated and repaired a 6-foot section of 12-inch clay sewer pipe on Penn Street with SDR. The sewer main was compromised at a lateral connection.
- Excavated and replaced a 10-foot section of 10-inch clay sewer with SDR to facilitate future CIPP lining at 18th and Mulberry Streets.
- Notified by Miller Pipeline of a compromised 10-inch clay storm water pipe at 15th and Forster Streets. Replaced a 10-inch section of clay with SDR.
- Excavated and replaced 10-foot of 15-inch clay sewer main with SDR. Clay sewer was deformed and causing a depression. Repair was completed before the pipe failed and caused a sinkhole.
- Continued to monitor street plates and patched sinkholes weekly.
- Performed snow removal and ice control at the AWTF and 3003 North Front Street locations.
- Repaired seven stormwater inlets at various locations throughout the city.

Field Operations

- A total of 3,177 feet (.60 miles) of sewer pipe were assessed by CCTV footage throughout the month.
- A total of 13,866 feet (2.63 miles) of pipe were flushed during the month. Most was flushed in advance of CCTV projects next month.
- Responded to nine backup and overflow calls from residents. CRW was liable for one at 2203 Kensington Street. A report was submitted to PADEP.
- Responded to seven sinkhole calls. Wastewater was liable for none, and Drinking Water was liable for two.
- Cleaned 24 stormwater inlets.
- Inspected 24 stormwater inlets.
- Performed CCTV assessment of sanitary lines on Cameron Street with Traffic Control. The project took two days.
- There was one dry weather overflow at CSO 031 when sticks crossed the gate. Rags and debris accumulated and created a hydraulic restriction. A confined space entry was executed to remove the blockage. A full report was provided to PADEP.
- Performed post-repair CCTV assessment for lines for Engineering at 7th Street, Seneca Street, Balm Street, Sycamore Street, and 7th and Reily Streets.

Environmental Compliance

- Completed 27 inspections of FOG dischargers. Two locations received letters of non-compliance with compliance plans and 25 locations were exempt.
- Provided education packet to one newly identified FOG discharger (either new business or previously unidentified). Spent time educating business owner/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.
- One investigation was conducted during the month of February:
 - CRW received a report from Harrisburg Public Works regarding a plastic pipe leading from a resident's 1st floor window directly to a storm inlet. An investigation determined nothing had been pumped, but the property looked to be in early stages of remodel. No permits were displayed, and Harrisburg Codes was notified.

Street Sweeping

- Received one complaint during the month of February.
- Performed preventive maintenance on all three sweepers.
- New employee started in the department this month. Continued training with Nelson Gomez.
- Completed 401.87 miles of street sweeping within the City of Harrisburg.
- There were two days of suspended sweeping due to weather.
- Continued to assist cleaning storm inlets in scheduled sweeping area.
- When the days of the month fall on a 5th week, there is no schedule sweeping. February is a short month so that was not an issue.



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WATER

Wastewater Exhibits

EXHIBIT A

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2022

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	18.4	24.3											21.4	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	176	129											153	----
Effluent, mg/L	3	3											3	25
Percent Removal, %	98.1	93.3											95.7	----
Effluent Loading, lb/d	520	846											683	7,860
Suspended Solids:														
Influent, mg/L	177	149											163	----
Effluent, mg/L	4	4											4	30
Percent Removal, %	97.5	92.4											95.0	----
Effluent Loading, lb/d	715	1,397											1,056	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	24											25	----
Effluent, mg/L	3.1	4.3											4	Monitor
Percent Removal, %	88.0	82.2											85.1	----
Effluent Loading, lb/d	469	719											594	----
NH3-N														
Influent mg/L	16	13											14	----
Effluent, mg/L	0.7	1.8											1	11 (2)
Percent Removal, %	95.5	85.7											90.6	----
Effluent Loading, lb/d	113	386											250	4,716
Phosphorus:														
Influent, mg/L	3.5	2.8											3.2	----
Effluent, mg/L	0.9	1.0											1.0	2.0
Percent Removal, %	71.6	63.4											67.5	----
Effluent Loading, lb/d	144	206											175	629
pH:														
Influent, Std. Units	7.4	7.1											7.3	----
Effluent, Std. Units	7.0	6.7											6.9	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	7.0	7.7											7.4	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	6	6											6	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.19	0.20											0.20	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 - 2022

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	18.400	7.202	11.198	6.361	0.158	0.300	0.254	0.129	1.300	4.217	1.820	3.532	0.329	2.170
February	24.300	10.705	13.595	9.854	0.197	0.300	0.066	0.288	1.300	5.146	2.271	4.350	0.528	2.800
March														
April														
May														
June														
July														
August														
September														
October														
November														
December														
Average	21.35	8.95	12.40											2.49
Percent	100.00	41.94	58.06											4.97

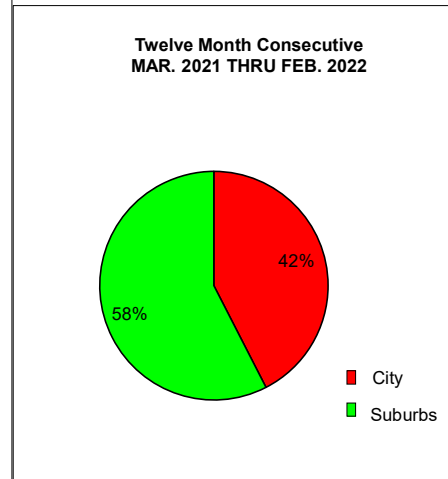
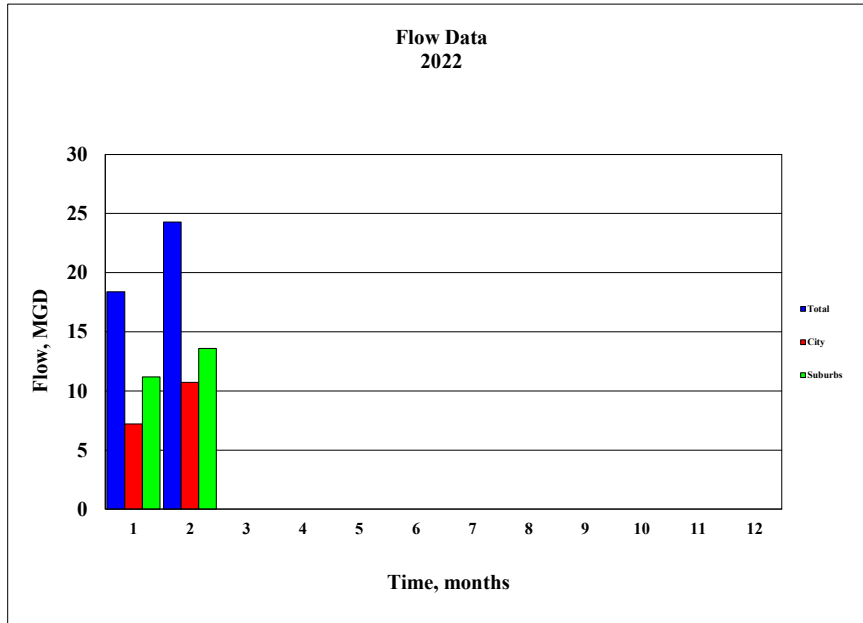


EXHIBIT C

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2022

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,131,900												1,131,900	1,131,900
Average, kWh/Day	36,513												36,513	-----
Cost, Dollars	\$70,491.63												\$70,491.63	\$70,491.63
Natural Gas														
Total, Cu Ft		*												0
Average, Cu Ft/Day		*												-----
Cost, Dollars		*												\$0.00
Water														
Total, Gal.		*												0
Average, Gal./Day		*												-----
Cost, Dollars		*												\$0.00
MicroC														
Total, Gal.	0	0											0	0
Average, Gal./Day	0.0	0.0											0	-----
Cost, Dollars	\$0	\$0.00											\$0.00	\$0.00
Sodium Hydroxide														
Total, Gal.	0	0											0	0
Average, Gal./Day	0	0											0	-----
Cost, Dollars	0	0											\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	5,340	6,020											5,680	11,360
Average, Lbs./Day	172	215											194	-----
Avg Residual, mg/L	0.19	0.20											0.20	-----
Cost, \$/Lbs.	\$0.99	\$0.99											\$0.99	-----
Total Cost, Dollars	\$5,286.60	\$5,959.80											\$5,623.20	\$11,246.40
Phosphorous Removal														
Total FeCl3, Gals.	507	1,333											920	1,840
Avg FeCl3, Gals./Day	16	48											32	-----
FeCl3 Cost, \$/Gal.	\$1.26	\$1.26											\$1.26	-----
FeCl3 Total Cost, Dollars	\$638.82	\$1,679.58											\$1,159.20	\$2,318.40

* No data at time of report

EXHIBIT D

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Cogeneration Electrical Production: 2021-2022

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated 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
<hr/>					
Total - 2021				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					
April 2022					
May 2022					
June 2022					
July 2022					
August 2022					
September 2022					
October 2022					
November 2022					
December 2022					
<hr/>					
Total - 2022				32,400	\$2,495.77
Monthly Average - 2022		20	575	16,200	\$1,247.89

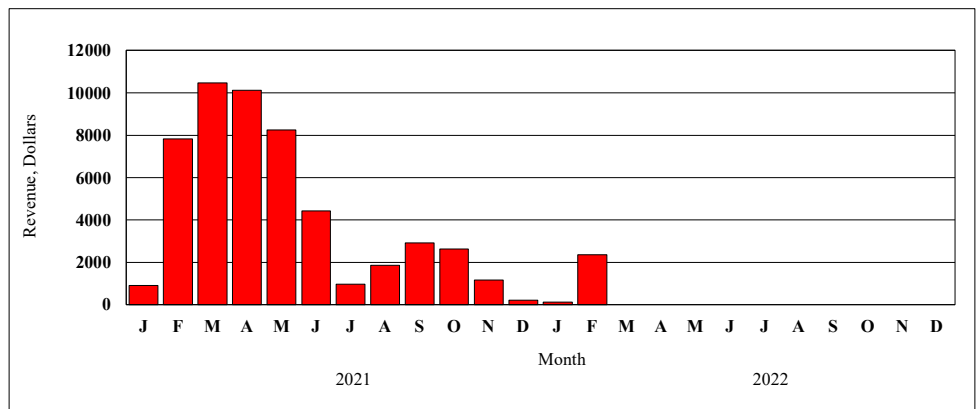


EXHIBIT E

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2022

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	836,796	808,604											149,582	1,645,401
CWH Program, Lbs.	69,353	76,120											72,736	145,473
Total Solids, Lbs.	906,149	884,724											895,437	1,790,873
Sludge Dewatering														
Feed Volume, Gals.	3,577,000	2,678,000											3,127,500	6,255,000
Feed Solids, %	1.7	1.7											1.7	-
Labor, Hours	459	416											438	875
Operations, Hours	930	785											857	1,714
Total Cake, Dry Tons	179	167											173	346
Total Cake, Wet Tons	1,149	1,069											1,109	2,218
Cake TS, %	15.5	15.6											15.6	-
Press Rate, Lbs./Hour	2,472	2,725											2,599	5,197
Polymer Dosage, Lbs	3,188	2,976											3,082	6,164
Polymer Dosage, Lbs/Dry Ton	20.4	19.4											19.9	-
Disposal Cost														
Labor, Dollars	\$8,821.98	\$7,995.52											\$8,408.75	\$16,817.50
Electrical, Dollars	\$409.07	\$345.18											\$377.12	\$754.25
Polymer, Dollars	\$6,120.96	\$5,713.92											\$5,917.44	\$11,834.88
Disposal, Dollars	\$27,763.12	\$23,705.00											\$25,734.06	\$51,468.12
Total Cost, Dollars	\$43,115.13	\$37,759.62											\$40,437.37	\$80,874.75
Cost Per Dry Ton, Dollars	\$240.87	\$226.11											\$233.49	

**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												232,800	232,800
Average, kWh/Day	7,510												7,510	----
Cost, Dollars	\$14,883.12												\$14,883.12	\$14,883.12
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	----
Cost, Dollars	\$0.00												0	\$0.00
Water														
Total, Gals.	*													0
Average, Gal./Day	*													----
Cost, Dollars	*													\$0.00
Spring Creek Pump Station														
Electric														
Total, kWh	36,160												36,160	36,160
Average, kWh/Day	1,166												1,166	----
Cost, Dollars	\$2,617.50												\$2,617.50	\$2,617.50
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	----
Cost, Dollars	\$0.00												\$0.00	\$0.00
Water														
Total, Gals.	*													0
Average, Gal./Day	*													----
Cost, Dollars	*													\$0.00
Market Street Pump Station														
Electric														
Total, kWh	1,200												1,200	1,200
Average, kWh/Day	39												39	----
Cost, Dollars	\$207.27												\$207.27	\$207.27
Fuel Oil														
Total, Gals.	0												0	0
Average, Gals./Day	0												0	----
Cost, Dollars	\$0.00												\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40												40	40
Average, kWh/Day	1												1	----
Cost, Dollars	\$63.36												\$63.36	\$63.36

* No Data at time of report

EXHIBIT G

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2021 - 2022

Month	Process		Septic			Total
	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
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						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total - 2022	1,811,537	\$53,969.19	229,425	\$8,106.20	2,040,962	\$62,075.49
Monthly Average - 2022	905,769	\$26,984.60	114,713	\$4,053.10	1,020,481	\$31,037.75

