

Ensure Financial Stability	
Reconciled Bank Account Balances	Refer to attached Reconciled Bank Account Balances as of 3/31/2023.
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 Grant Management Report.
Ensure Revenues are Consistent with System Usage	
Water Shut-offs	There were 0 water shut-offs for non-payment, and 21 service shut-off requests.
Repair/Replace Meters/MXUs/Batteries	Drinking Water Distribution staff replaced 18 water meters, replaced 113 batteries, and 40 MXUs.
Reduce Wet Weather Impacts to Infrastructure, Community, and Receiving Waters	
Negotiate with PADEP/U.S. EPA/DOJ on Past and Future Practices	No update.
Develop Necessary Planning for Implementation of Green Infrastructure	No update.
Joint Pollutant Reduction Plan - Collaborate with Suburban Partners on MS4	No update.
Obtain and Comply with Individual MS4 Permit	No update.
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 of March.
	The AWTF met all NPDES permit parameters for the month of March. Two Dry Weather Overflows were reported. Details can be found in the AWTF Monthly Report for March.
Notice of Violations (NOVs)	There were no NOVs received by the Wastewater department in March.
	There were no NOVs received by the Drinking Water 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 for March.
	The Wastewater department completed all regularly scheduled preventative maintenance in the month of March.

CCTV	A total of 7,933 feet (1.5 miles) of sewer pipes were assessed by CCTV footage during the month of March. A total of 3,238 feet (0.61 miles) of sewer pipe were flushed as well.
Incident Response	Wastewater responded to seven (7) backup and overflow calls from residents during the month of March. Responsibility for one (1) is still being investigated. All others were cleared of CRW responsibility.
Geographic Information System (GIS)	<ul style="list-style-type: none"> • Twenty-one (21) Pennsylvania One Call tickets were completed. Fifteen (15) required maps and six (6) had no CRW-owned facilities in the project area. • Bi-weekly meetings were held with KCI Technologies, Inc. • Progress continues with the development of the ESRI "Lead Service Line Inventory Solution". • Approximately 130 assets were GPS'd. • Attended Operations (OPS) Challenge practice four (4) Fridays in March.
Cityworks	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
Asset Management	<p>Asset Management Roadmap Implementation task order Phase 1, Year 2 activity report:</p> <p>Decision Making Capital Planning Roadmap Implementation Group (RIG)</p> <ul style="list-style-type: none"> • Documentation of design requirements finalized and prepared for integration into the Strategic Asset Management Plan by review and approval from the Roadmap Development Team. <p>Information System Data Management Roadmap Implementation Group RIG</p> <ul style="list-style-type: none"> • Integrating the commissioning and decommissioning process workflow with the newly developed design requirements. <p>Operations & Maintenance Roadmap Implementation Group RIG</p> <ul style="list-style-type: none"> • Progress continues with the development of the Collection System Asset Management Plan (Collections AMP). • Kickoff meeting was held on 4/20/2023 to establish data process to update asset inventory and perform condition assessment during the wastewater plant asset inventory pilot. <p>Organizational Framework Roadmap Implementation Group RIG</p> <ul style="list-style-type: none"> • Preliminary preparation for Roadmap Development Team meeting is under way. <p>Asset Management Collaboration: Lead service line inventory working group met on 4/4/2023, during which the Superintendent of Water Operations was briefed on the status of inventory and current activities. The 3/27/2023 dashboard development meeting focused on performance measures identified in the draft Collection System Asset Management Plan and American Water Works Association (AWWA) survey performance indicators. Verified and submitted CRW's 2023 AWWA Benchmarking Utility Survey results on 4/3/2023.</p>
Development Review Summary	For details, see attached Development Stormwater Management Review Summary spreadsheet for March.

Undertake Capital Improvement Projects - Refer to attached Capital Improvement Projects Report	
Professional & Contractor Services	<p>Recommend Board approval of the following Resolutions, Task Orders, Change Orders and Agreements:</p> <p>Drinking Water:</p> <ul style="list-style-type: none"> Resolution No. 2023-008 [REDACTED] Eminent Domain for the Arsenal Boulevard Sewer Improvements Project Task Order 2023-09-01: Forest Management Services [REDACTED] <p>Wastewater:</p> <ul style="list-style-type: none"> Change Order No. 1 - 2023 Sewer System Improvements Project [REDACTED] (Excavation Contract) Change Order No. 18 (Final) AWTF Primary Digester Rehabilitation Project [REDACTED] (Contract No. 1) <p>Stormwater: None.</p>
Stormwater O&M Agreements	Recommend Board approval of the following: None.
AWTF Primary Digesters Rehabilitation	Refer to the agenda for the final change order for Contract No. 1 (General Construction). Contract Nos. 2 and 3 are expected to be closed out in May 2023.
AWTF Energy Recovery Improvements	The project team is researching the Inflation Reduction Act and the possibility for tax credits. Progress continues on the necessary agreements with UGI Energy Services. Permit applications are being reviewed by PADEP.
Front Street Pumping Station Improvements	Contract No.1 (General Construction) is expected to be closed out in May. Contract Nos. 2, 3 and 4 have now been closed out.
WSC Flocculator Equipment Replacement	The contractors are addressing punch list items. Project close out is expected in May 2023.

Undertake Renewal and Replacement Projects	
2022 Water System Improvements	Installation of water main continues in the Sylvan Terrace neighborhood. The project is approximately 50% complete.
Cameron Street Water Main - Phase 4	PENNVEST settlement originally scheduled for 5/9/2023 has been postponed.
2023 Sewer System Improvements (Excavation)	The contractor continues construction with inlet replacement along 15th Street.
2023 Sewer System Improvements (Trenchless)	The contractor continues to provide submittals for approval before physical construction can begin rehabilitation work.
Arsenal Boulevard Sewer	No update. We are working with property owners to acquire temporary and construction easements needed before advertising the project.
Front Street Interceptor Rehabilitation Phase 2	The contractor began cured in place piping (CIPP) lining activities in late March and has installed nine (9) of the fourteen (14) liners in Phase 1 (Forster Street to Front Street Pumping Station). Phase 1 lining is planned to be completed before the end of April, at which time the contractor will begin restoration in Riverfront Park.
Water Facility Maintenance	Drinking Water Maintenance staff performed repairs to various process units as described in the Drinking Water Department Monthly Report for March.
Wastewater Facility Maintenance	The Wastewater Maintenance group completed various repairs throughout the AWTF, pumping stations, and at the North Front Street office building throughout the month of March. A narrative is provided in the Wastewater Department Monthly Report for March.
Sinkhole Program	Four (4) sinkholes were investigated by CRW in the month of March. One (1) was due to failure of a wastewater asset.
Inlet Cleaning	A total of 209 stormwater inlets were cleaned during the month of March, and 205 stormwater inlet inspections were performed.

Operate as an Efficient, Sustainable and Resilient Water Utility	
DeHart Property Stewardship	In accordance with the DeHart Property Forest Management Plan, a regeneration harvest is underway in MUs 20, 34, 36, and 37 (approximately 155 acres). Harvest will improve forest health and release regeneration of a more desirable understory.
Sustainability	Development of a Request for Proposals (RFP) is underway for a solar project. Water loss audits for 2022 were completed. The annual Source Water Protection Program update was submitted to PADEP.
Internal Communications	Intranet (Sharepoint) site continues to be used. The Q2 internal newsletter, The Daily Flow, was released.

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: Facebook: 0 New Organic Followers (1,611 Total). Seven (7) Posts ; Highest Engaged Post: "CRW Recent Drinking Water Concerns" (262 Reachs, 4 Reactions, 4 Likes, 0 Comments, 4 Shares); Other topics: Litter Cleanup "Thank You", Employee of the Month: Maynard, Front Street Interceptor Improvements project update, and Board meeting.</p> <p>Twitter: 0 Tweets; Month overview: 165 total Impressions; 224 Profile Visits; -7 New Followers; 1 Mentions.</p> <p>Instagram: 10 New Followers (692 Total), Seven (7) Posts; Highest Engaged Post: "CRW Recent Drinking Water Concerns" 97 Organic Reachs, 4 likes, 1 comment, 2 shares, 0 saves.</p> <p>2023 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 Outreach:</p> <ul style="list-style-type: none"> • Four (4) community events (CRW Community Ambassadors/City Beautiful H2O Presentation to Environmental Stakeholders, Front Street Interceptor Improvements Event Stakeholders Meeting, Love the Hill Community Cleanup, and Peace-Unity-Strenth-Hope (P.U.S.H.) Uptown Litter Cleanup). • Four (4) community meetings (Dauphin County Recycling, Harrisburg Young Professionals of Color, Harrisburg Community Council, and Retail Business Services). • Delivered nine (9) door-to-door notifications impacting approximately five hundred twenty-two (522) customers. Included nine (9) project notifications. • Zero (0) Everbridge alerts.
Public Communications	WHAT'S ON TAP COMMUNICATION: The March monthly bill stuffer was distributed as a bill insert. Topics included: "CRW agreement in Modifications to Partial Consent Decree, update to North Front Street Interceptor project, and new rates reminder.
Diversity	No update.

Administrative	
Risk Management	<p>Executive Summary:</p> <p>Total Claims: 12 New: 3 Open: 6 Closed: 3</p> <p><u>Insurance Line Claim Count:</u> Auto: 1 General Liability: 6 Public Officials: 1 Workers Compensation: 4</p>
Human Resources	For details, see attached Recruiting Status Report.
Procurement	<p>Procurement staff are coordinating the following bid packages on PennBid:</p> <ul style="list-style-type: none"> • Project Number 2023-201 - Basin Perimeter Safety Speed-Rail® Railing System at Water Services Center: Published/Issued - 4/4/2023, Mandatory Pre-Bid Meeting - 4/12/2023 @ 11:00 a.m., Bid Opening - 4/18/2023 @ 12 PM. • Project Number 2023-202 - Filter Building Window Glass Replacement at Water Services Center: Published/Issued - 4/18/2023, Mandatory Pre-Bid Meeting - 4/26/2023 @ 11:00 a.m., Bid Opening - 5/2/2023 @ 12 PM. • Project Number 2023-203 - Maintenance Building Window Replacement at Water Services Center: Bid Documents are being finalized for uploading, publishing, and bid opening throughout the month of May. • Project Number 2023-204 - Switchgear Replacement and Feeder Cables at AWTF: Bid Documents are being finalized for uploading, publishing, and bid opening throughout the month of May. • Project Number 2023-205 - Roof Replacements on Control and Hydrogritter Buildings at AWTF: Bid Documents are being finalized for uploading, publishing, and bid opening throughout the month of May. <p>Procurement Specialist is obtaining quotes for IT equipment purchases.</p> <p>Procurement staff continue to identify and assist in establishing contracts that include fixed rate pricing and discounts with frequently used vendors for goods and services.</p> <p>Recommend Board approval of the following:</p> <ul style="list-style-type: none"> • Procurement of Belt Filter Press Grinder from [REDACTED] through COSTARS.

<p>Office Management and Admin Professional</p>	<p>Incoming Correspondence Report: Refer to attached Incoming Correspondence Report for March 2023.</p> <p>Street/Sidewalk-Cut Permits: Two (2) Drinking Water permits were issued. One (1) Drinking Water permit was successfully completed, inspected, and closed by the City of Harrisburg's Engineer.</p> <p>Fleet Management (Acquisitions): Procurement Specialist assisted Drinking Water and Wastewater facility supervisors in procuring:</p> <ul style="list-style-type: none"> • C-90 - Salt Spreader • C-100 - Air Compressor (CRW accepted delivery 3/8/2023 - pending title paperwork needed) • C-101 - Zero Turn Mower w/60" deck • G-87 - Zero Turn Mower w/60" deck • G-89 - Zero Turn Mower w/72" deck <p>Fleet Management (Pending Dispositions thru Municibid): [REDACTED]</p> <p>Drinking Water:</p> <ul style="list-style-type: none"> • C-00 - 1989 Grumman 17' 4-Person Boat - 50 HP. Bid on Municibid. [REDACTED] • C-14 - 2009 Ford Escape Hybrid. Bid on Municibid. [REDACTED] • C-15 - 2009 Chevrolet Cobalt. Bid on Municibid. [REDACTED] • C-16 - 1999 GMC C8500 Service Truck w/Utility Body. Bid on Municibid. [REDACTED] • C-17 - 1989 Tracker Marine 16' 4-Person Sportsmen Model Boat - 20 HP. Bid on Municibid. [REDACTED] • C-19 - 2009 Ford F-250 Pickup Truck w/Utility Body. Bid on Municibid. [REDACTED] • C-47 - 1986 Protecto Flash Model 85 Traffic Signboard. Bid on Municibid. [REDACTED] <p>Wastewater:</p> <ul style="list-style-type: none"> • G-17 - 2008 Chevrolet Pickup Truck w/Utility Body. Bid on Municibid. [REDACTED] • G-20 - 2008 Chevrolet 3/4 Ton Pickup Truck. Bid on Municibid. [REDACTED] • G-26 - 2006 EZGO Model TXT Gas Cart (Maintenance Division Golf Cart). Bid on Municibid. [REDACTED] • G-27 - 2006 EZGO Model TXT Gas Cart (Operations Division Golf Cart). Bid on Municibid. [REDACTED] • G-28 - 2004 Toro 72" Cut Z-Master Commercial Mower Model #74246. Bid on Municibid. [REDACTED] • G-34 - 2013 Toro 60" Cut Z-Master Professional Mower Model #74926. Bid on Municibid. [REDACTED] • G-35 - 2013 Toro 48" Cut Z-Master Professional Mower Model #74901. Bid on Municibid. [REDACTED] • G-37 - 1989 John Deere 40" Cut Tractor Mower Model #332. Bid on Municibid. [REDACTED] <p>Pending Confirmation:</p> <ul style="list-style-type: none"> • Hydraulic Pump @ Front Street Pump Station. • Dump Trailer. <p>Recommend Board approval of the following:</p> <ul style="list-style-type: none"> • None
<p>Right-to-Know Requests</p>	<p>CRW has received and responded to zero (0) Right-to-Know requests during the period 3/16/2023 through 4/19/2023. Other informational requests were identified as not being formal RTK requests and/or were transferred to the Customer Service Center for appropriate response throughout the month,</p> <p>OOR Training: No update.</p>



CAPITAL REGION™
WATER

**DRINKING WATER DEPARTMENT
MONTHLY REPORT**



Trench Safety Training at Drinking Water Facility

March 2023

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

Plant Operations

Capital Region Water's (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 235.779 MG, averaging 7.606 MGD was withdrawn from the water supply source for treatment. As shown in Exhibit B, a total of 223.545 MG, averaging 7.211 MGD, of finished drinking water was pumped to the distribution system.

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

The DeHart Watershed had average rainfall in March (Exhibit C) and the DeHart Reservoir water level increased (Exhibit D). An estimated 689.25 MG of water was released from DeHart Reservoir to Clark Creek, averaging 22.33 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 51 preventative maintenance work orders and 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.

- The DeHart Dam watershed was patrolled daily and maintained.
- The Maintenance team repaired Caustic Pump 613D.
- The Maintenance team poured 70 feet of concrete walls for the new Lime Slurry concrete containment walls.
- The Maintenance team constructed racking for the Lime Slurry control panels, feed pumps and associated valving.
- The new Aluminum Sulfate Chemical Injection system is currently under testing for commissioning and PADEP approval.
- The Maintenance team is installing several electrical upgrades for the Lime Slurry and Rotork actuator installations.
- The Lime Silo Tank Slurry feed system project is in progress.

-
- The Maintenance team applied SW Macron Epoxy on the Caustic and Aluminum Sulfate containment basins.
 - The Maintenance team started to perform spring/summer landscape duties at the Water Services Center, Front Street pump houses, DeHart Dam facility and the North Front Street administrative offices.
 - The Maintenance team continues to maintain the distribution and maintenance fleet vehicles and equipment.

Distribution

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

- Repaired ten (10) leaking services during the month totaling 568,560 gallons of unmetered water.
- Repaired one (1) main break – 95,144 gallons of unmetered water.
- Completed 335 work orders.
- Completed 550 water, sewer, and stormwater locates.
- Created service cards for 8,000 with non-existing cards.
- Worked with contractors on several water, sewer, and stormwater Capital Improvement projects.

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.
- Completed additional metals sampling in response to taste complaints from customers. Barium, cadmium, copper, lead, iron, and zinc were tested in the raw and finished water. Results were non-detected for all metals in both samples, except for barium with a result of 0.013 mg/L in both the finished and raw samples. The MCL for barium is 2 mg/L.
- Taste complaints have decreased, and the taste of the water has improved significantly.



EXHIBIT A Water Quality Analysis - 2023

PARAMETERS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	MCL Limits
Total Coliform: Presence/Absence														
Distribution System	A	A	A	A	A	A	A	A	A	A	A	A	A	5% P
Chlorine Residual, mg/L Free														
Filter Plant Effluent	2.00	1.98	2.01										2.00	0.2 - 4.0
Distribution System	1.40	1.43	1.42										1.42	<0.02
Turbidity, NTU														
Influent from DeHart	1.20	0.98	0.71										0.96	NA
Influent from Susquehanna	NA	NA	NA											NA
Filter Plant Effluent	0.03	0.03	0.03										0.03	0.30
pH, Std Units														
Influent from DeHart	6.4	6.5	6.5										6.47	NA
Influent from Susquehanna	NA	NA	NA											NA
Filter Plant Effluent	7.6	7.5	7.9										7.66	6.5 - 8.5*
Distribution System	7.1	7.7	8.1										7.63	6.5 - 8.5*
Total Alkalinity, mg/L as CaCO3														
Influent DeHart	5	5	5										5.00	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	15	14	13										14.13	<15*
Distribution System	13	14	15										13.96	<15*
Temperature, degrees C														
Influent from DeHart	5.9	5.4	7.3										6.20	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	6.6	6.4	7.2										6.72	NA
Distribution System	14.1	13.2	13.6										13.63	NA
Fluoride, mg/L														
Filter Plant Effluent	0.95	1.02	1.00										0.99	2
Aluminum, mg/L														
Filter Plant Effluent	0.02	0.02	0.02										0.02	0.2*
Iron, mg/L														
Influent from DeHart	0.11	0.06	0.04										0.07	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	0.02	0.01	0.01										0.01	0.3*
Distribution System	0.07	0.00	0.00										0.02	0.3*
Total Dissolved Solids, mg/L														
Influent from DeHart	15	15	16										15.42	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	37	34	35										35.25	500*
Distribution System	39	36	34										36.39	500*
Total Hardness, mg/L														
Influent from DeHart	8	8	8										8.00	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	8	8	8										8.23	NA
Distribution System	10	6	6										7.20	NA
Orthophosphate, mg/L														
Filter Plant Effluent	1.20	1.24	1.27										1.24	0.7 - 1.3*
Distribution System	1.21	1.19	1.12										1.17	0.7 - 1.3*
**Total Trihalomethanes, ug/L														
Distribution System	34.2	NA	NA										34.2	80.0
**Total Haloacetic Acids, ug/L														
Distribution System	36.8	NA	NA										36.8	60.0
Total Organic Carbon, mg/L														
Influent from DeHart	1.22	NA	NA										1.22	NA
Influent from Susquehanna	NA	NA	NA										N/A	NA
Filter Plant Effluent	2.16	NA	NA										2.16	NA
Average Filter Run, Hours	115	112	120										115.67	NA

*** Not Available at Time of Report

* Values are related to DEP Secondary MCL

** Running Annual Quarterly Average

EXHIBIT B

Water Production Data - 2023

DeHart Withdrawal		River Withdrawal		Total Withdrawal		Treated Water		Process Water		Finished Water		
Month	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)	Total (MG)	Average (MGD)
January	233.562	7.534	0.000	0.000	233.562	7.534	239.964	7.741	6.487	0.210	229.172	7.393
February	202.799	7.243	0.000	0.000	202.799	7.243	210.336	7.513	4.938	0.176	202.279	7.224
March	235.779	7.606	0.000	0.000	235.779	7.606	233.913	7.546	6.770	0.218	223.545	7.211
April												
May												
June												
July												
August												
September												
October												
November												
December												
Total	672.140		0.000		672.140		684.213		18.195		654.996	
Average	224.047	7.461	0.000	0.000	224.047	7.461	228.071	7.600	6.065	0.201	218.332	7.276

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 - 2023
(inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
2023 Total	2.70	1.09	2.93										6.72
Daily Average	0.087	0.039	0.095										0.221
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	2.70	3.79	6.72	5.03	6.55	5.84	2.16	2.67	4.16	3.43	2.94	6.63	52.62

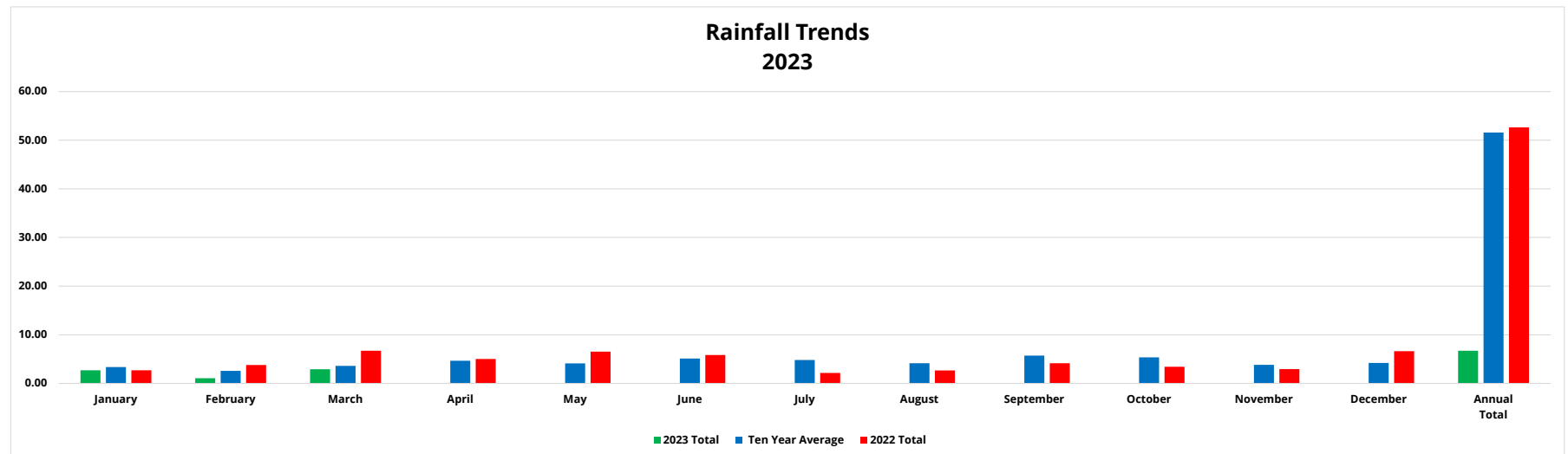


EXHIBIT D

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

Date	January	February	March	April	May	June	July	August	September	October	November	December
2023 AVG	-162.9	-58.6	-98.7									
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	-162.9	-104.3	-5.6	4.6	4.1	7.2	-12.1	-34.1	-48.5	-68.9	-80.6	319.0

DeHart Reservoir Water Level Trends
2023

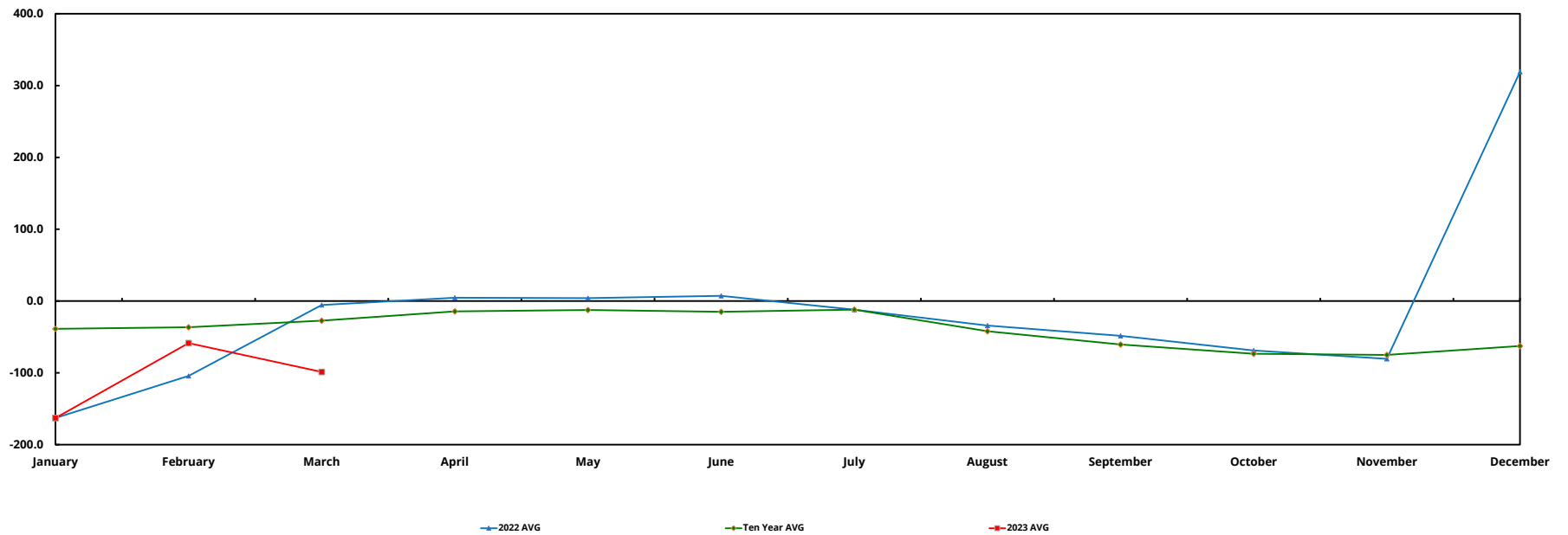


EXHIBIT E

Daily Conservation Release - 2023

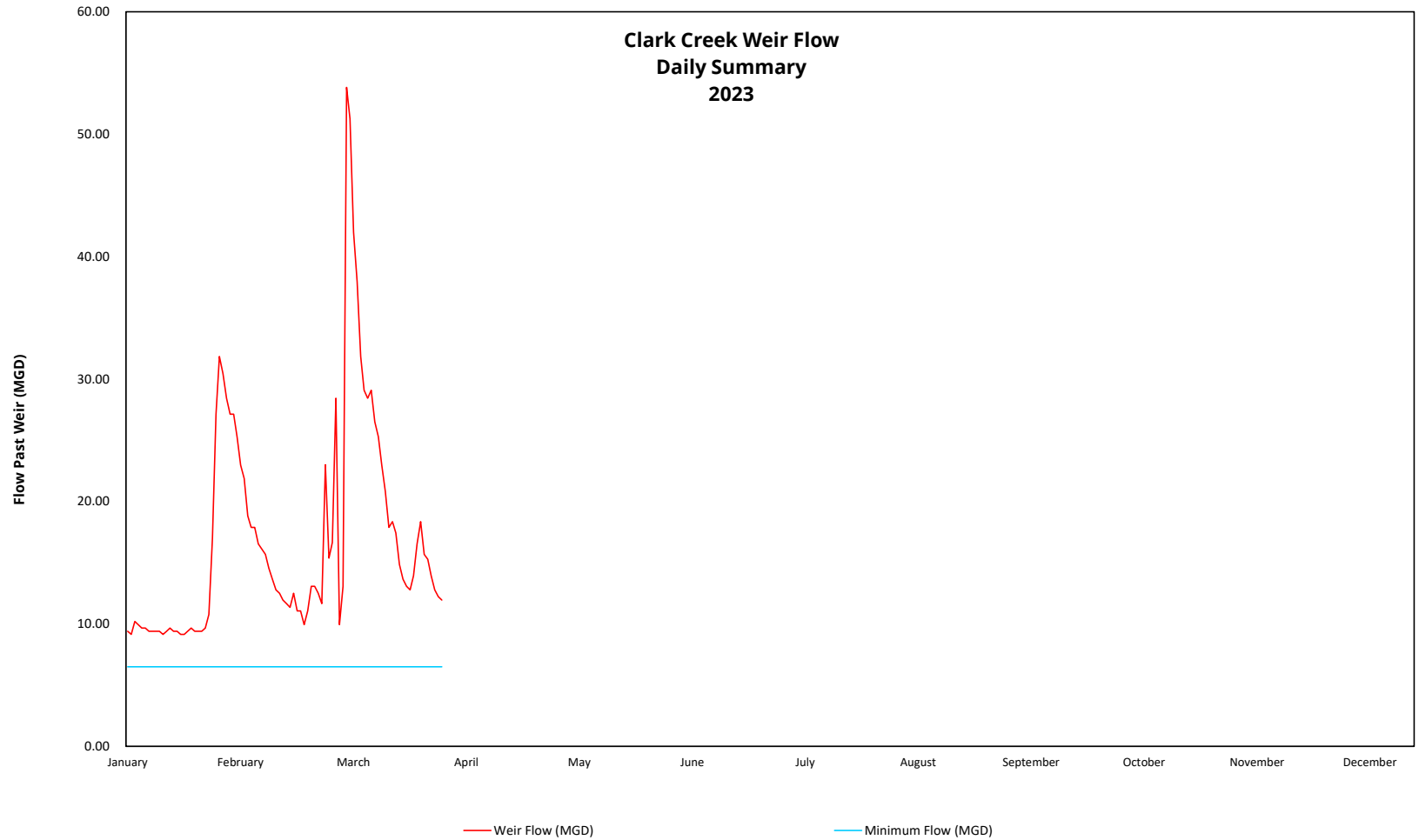




EXHIBIT F
Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Water Services Center														
Electric Transmission														
Total, kWh	214,200												214,200	214,200
Cost, Dollars	\$16,812.87												\$16,812.87	\$16,812.87
Electric Generation														
Total, kWh	214,200	172,800	198,000										195,000	585,000
Cost, Dollars	\$1,253.64	\$1,180.73	\$1,168.47										\$1,200.95	\$3,602.84
Natural Gas														
Total, Cu Ft	13,533	13,229	11,509										12,757	38,271
Cost, Dollars	\$12,244.94	\$11,133.40	\$9,875.88										\$11,084.74	\$33,254.22
Sewer														
Total, Gal	7,710,000	6,070,000	7,288,000										7,022,667	21,068,000
Cost, Dollars	\$71,240.40	\$56,086.80	\$67,341.12										\$64,889.44	\$194,668.32
Refuse														
Cost, Dollars	\$967.70	\$967.70	\$967.70										\$967.70	\$2,903.10
Reservoir Park Pump Station														
Electric Transmission														
Total, kWh	88,000												88,000	88,000
Cost, Dollars	\$3,704.13												\$3,704.13	\$3,704.13
Electric Generation														
Total, kWh	88,000	92,400											90,200	180,400
Cost, Dollars	\$1,350.22	\$1,214.10											\$1,282.16	\$2,564.32
Natural Gas														
Total, Cu Ft	982	629	473										695	2,084
Cost, Dollars	\$903.79	\$626.39	\$509.26										\$679.81	\$2,039.44
Weston/Chickadee River Pump Station														
Electric Transmission														
Total, kWh													#DIV/0!	0
Cost, Dollars													#DIV/0!	\$0.00
Electric Generation														
Total, kWh													#DIV/0!	0
Cost, Dollars													#DIV/0!	\$0.00
Natural Gas														
Total, Cu Ft	580	499	389										489	1,468
Cost, Dollars	\$543.32	\$515.95	\$378.07										\$479.11	\$1,437.34
Union Square Booster Station														
Electric Transmission														
Total, kWh	3,340	2,744	**										3,042	6,084
Cost, Dollars	\$305.46	\$113.42	**										\$209.44	\$418.88
Electric Generation														
Total, kWh	3,340	2,744	**										3,042	6,084
Cost, Dollars	\$130.77	\$113.42	**										\$122.10	\$244.19
DeHart Facilities														
Electric Transmission														
Total, kWh	3,131												3,131	3,131
Cost, Dollars	\$168.70												\$168.70	\$168.70
Electric Generation														
Total, kWh	3,131	2,289	2,308										2,576	7,728
Cost, Dollars	\$102.80	\$83.69	\$161.05										\$115.85	\$347.54
Fuel Oil														
Total, Gals	2,251	0	0										750	2,251
Cost, Dollars	\$5,768.00	\$0.00	\$0.00										\$1,922.67	\$5,768.00
City Island Heat Trace														
Electric Transmission														
Total, kWh	40	**	**										40	40
Cost, Dollars	\$7.57	**	**										\$7.57	\$7.57
Electric Generation														
Total, kWh	40	**	**										40	40
Cost, Dollars	\$61.81	**	**										\$61.81	\$61.81
Expenditures YTD													#DIV/0!	\$268,003

** Not available at time report was developed

Total Transmission	\$21,112
Total Generation	\$6,821
Total Refuse	\$2,903
Total Gas	\$36,731
Total Sewer	\$194,668
Total Fuel Oil	\$5,768
Total Utilities	\$265,100

Exhibit G

Hydro-Turbine Generator Performance - 2023

Month	Kilowatt-hour (KWH)	Anticipated Savings *
January (Out of Service)	0	\$0
February (Out of Service)	0	\$0
March (Out of Service)	0	\$0
April		
May		
June		
July		
August		
September		
October		
November		
December		
Average		
Year to Date	0	\$0

* Estimated savings based on electrical rate of \$0.058 per KWH

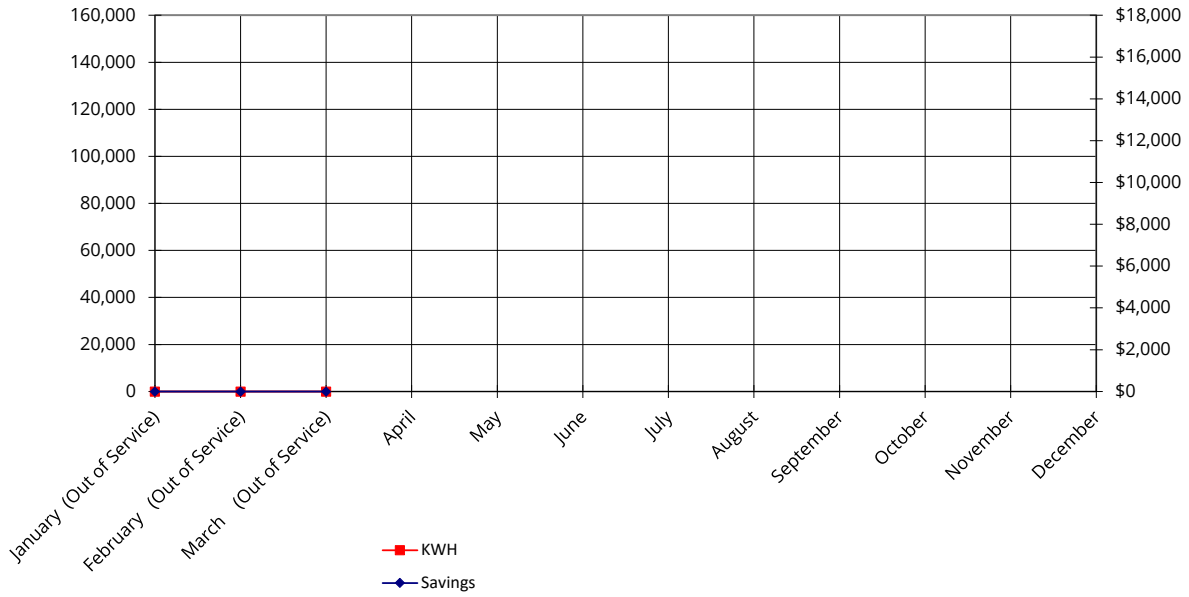


EXHIBIT H
Treatment Chemical Usage - 2023

Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Chlorine														
Total Lbs.	6,294	5,518	5,991										5,934	17,803
Average, Chlorine Lbs./Day	203	197	193										197.7	
Average, Chlorine Dose, mg/L	6.9	1.6	2.6										3.7	
Chlorine Cost, \$/Lbs.	\$1.639	\$1.639	\$1.639										1.6	
Chlorine Total Cost, Dollars	\$10,316	\$9,044	\$9,819										\$9,726.29	\$29,178.87
Alum 48.5%														
Total Lbs.	26,829	16,763	19,163										20,918	62,755
Average, Alum, Lbs./Day	866	599	618										694.3	
Average, Alum, mg/L	10.7	7.7	12.0										10.1	
Alum Cost, \$/Lbs.	\$0.121	\$0.121	\$0.121										0.1	
Alum Total Cost, Dollars	\$3,246	\$2,028	\$2,319										\$2,531.10	\$7,593.31
Lime														
Total Lbs.	0	0	0										0	0
Average Lime, Lbs./Day	0	0	0										0.0	
Average, Lime Dose, mg/L	0.0	0.0	0.0										0.0	
Lime Cost, \$/Lbs.	\$0.86	\$0.86	\$0.86										\$0.86	
Lime Total Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.00
Soda Ash														
Total Lbs.	17,400	12,350	13,050										14,267	42,800
Average Soda Ash, Lbs./Day	561	441	421										474.3	
Average, Soda Ash Dose, mg/L	19.2	13.5	19.0										17.2	
Soda Ash Cost, \$/Lbs.	\$0.368	\$0.368	\$0.368										0.4	
Soda Ash Total Cost, Dollars	\$6,403	\$4,545	\$4,802										\$5,250.00	\$15,750.00
Fluoride														
Total Lbs.	2,240	1,965	1,965										2,057	6,170
Average, Fluoride Lbs./Day	72	70	63										68.3	
Average, Fluoride (F-) Dose, mg/L	1.1	1.1	1.0										1.1	
Fluoride Cost, \$/Lbs.	\$0.30	\$0.30	\$0.30										\$0.30	
Fluoride Total Cost, Dollars	\$672	\$590	\$590										\$617.33	\$1,852.00
Sodium Hydroxide 50%														
Total NaOH 50% dry Lbs.	35,623	31,225	33,907										33,585	100,755
Average NaOH 50%, dry Lbs./Day	1,149	1,115	1,094										1,119	
Average, NaOH 50%, mg/L	19.2	15.7	19.2										18.0	
NaOH 50% Cost, dry \$/Lbs	\$0.450	\$0.450	\$0.450										0.5	
NaOH 50% Total Cost, Dollars	\$16,030	\$14,051	\$15,258										\$15,113.12	\$45,339.35
Zinc Orthophosphate														
Total Zn3(PO4)2, wet Lbs.	4,802	4,239	4,565										4,535	13,606
Average Zn3(PO4)2, wet Lbs./Day	155	151	147										151.0	
Average, Zn3(PO4)2 Dose, mg/L	2.5	2.5	2.5										2.5	
Zn3(PO4)2 Cost, wet \$/Lbs.	\$1.724	\$1.724	\$1.724										1.7	
Zn3(PO4)2 Total Cost, Dollars	\$8,279	\$7,308	\$7,870										\$7,818.88	\$23,456.65
Potassium Permanganate														
Total KMnO4, Lbs.	0	0	0										0	0
Average KMnO4, Lbs./Day	0	0	0										0.0	
Average, KMnO4 Dose, mg/L	0.0	0.0	0.0										0.0	
KMnO4 Cost, \$/Lbs.	\$0.00	\$0.00	\$0.00										\$0.00	
KMnO4 Total Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.00
Expenditure													\$41,056.73	\$123,170.18
Average Treated Cost per (MG)														
Total Treated Flow (MGD)														0.000
Average Treated Flow (MGD)														228.071

EXHIBIT I

DISTRIBUTION DEPARTMENT ACTIVITIES - 2023

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
PA One Call Locates	501	430	550										1,481	494
Street Restorations	0	0	7										7	2
Leak Detection Assessment Percent of Distribution System	8	8	8										24	8
Main Break Repair - Detected Non-Surfacing	0	0	0										0	0
Main Breaks Repaired - Emergency	2	1	1										4	1
Service Line Leaks Detected	0	0	0										0	0
Service Line Leaks Repaired	1	0	10										11	4
Valves - Exercised	0	0	0										0	0
Valves - Replaced	0	0	0										0	0
Hydrant Flow Tests	0	8	1										9	3
Hydrants Returned to Service	0	0	0										0	0
Water Tap - Disconnected	2	0	11										13	4
Water Tap - New Connection	2	0	0										2	1
Water Shutoffs - Delinquent Accounts	0	0	0										0	0
Water Shutoffs - Other	24	11	21										56	19
Water Shutoffs - Non Payment	0	0	0										0	0
Water Restoration Turn on Other	24	22	23										69	23
Water Turn on - Non Payment	0	1	6										7	2

EXHIBIT J

Metering Activities - 2023

Board Monthly Report	Distribution Monthly Report														
Activity	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Meter Installations															
Replacement	Missing	6	3	4										13	4
	Leaking	2	3	2										7	2
	Frozen	20	4	3										27	9
	Non-registering	6	6	9										21	7
	Large Meters ¹	0	0	0										0	0
New Service	New Installation	2	0	0										2	1
Meter Service															
MXU's Replaced	MXU's Replaced	47	43	40										130	43
Batteries Replaced	Batteries Replaced	45	323	113										481	160
Meter Pits Serviced	Meter Pits Serviced	0	0	0										0	0
Meter Calibrations															
Small Meters ²	Calibrated meters	0	0	0										0	0

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

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



EXHIBIT K

Miscellaneous Water Usage (gals) - 2023

Category of Water Use	Description	Jan	Feb	Mar	APR	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Average
Process Water	Process Water	N/A	N/A	N/A										0	N/A
Billed Metered Exported	Bulk Water Hauling	N/A	N/A	N/A										0	N/A
Billed Metered	Hydrant Connections	0	0	113,557										113,557	37,852
Billed Unmetered	Hydrant Flow Tests	0	12,300	4,000										16,300	5,433
Unbilled Unmetered	Hydrant Flushing (and Unbilled Authorized)	48,449	51,011	40,285										139,745	46,582
Leakage on Distribution Mains	Main Leaks	1,318,637	2,836,746	95,144										4,250,527	1,416,842
Leakage on Service Lines	Service Leaks	2,321,113	41,760	568,560										2,931,433	977,144
	Total	3,688,199	2,941,817	821,546	0	0	0	0	0	0	0	0	0	7,451,562	620,964



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WASTEWATER DEPARTMENT MONTHLY REPORT



Newly Installed Pumps and Valves at the Plant Drain Pumping Station

March 2023

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

Overview

March marked the end of the 2022 annual regulatory reporting season with support for the Chapter 94 Municipal Waste Load Management Report and Semi-Annual Consent Decree Report. A revision to the Annual Air Quality Emissions Report was requested and resubmitted.

The annual process of performance reviews for management employees progressed through several phases throughout the month. Meetings with each employee were held with performance goals for the remainder of 2023 being set.

Major work on submission of the AWWA Utility Benchmarking Survey concluded as well. Crews from all CRW departments collected data and performed calculations to answer almost 300 questions from the survey. The results will be databased so that CRW can set goals and track progress to achieving them year-after-year. This marks a long-awaited accomplishment for CRW in its strategic goal of developing a robust benchmarking program.

Operations

During the month of March, the AWTF met all monthly average NPDES permit requirements. No Sanitary Sewer or Dry Weather Overflows were reported.

Hydraulic loading to the AWTF averaged 19.3 million gallons per day (MGD). The treatment process achieved removal reductions of 96.8 percent CBOD, 98.1 percent Suspended Solids, 64.4 percent Phosphorus, and 91.8 percent Ammonia (Exhibit A).

The Contract Waste Hauling program collected \$38,025.36 in revenue from 1,210,570 gallons discharged (Exhibit G). Leachate discharge slowed down in March causing a drop in revenue from the previous few months.

In recent months, adjustments to the Divert Food Slurry pumping system, along with other process adjustments, has resulted in progressively lower effluent nitrogen concentrations. As this progress continues, it will allow us to generate more Nitrogen Credits for the 2023 Water Year, which will end on September 30, 2023.

The Cogeneration facility experienced an average run time of 75 percent in March. Revenue is estimated at \$14,337.97 on 97,200 Kilowatt-hours generated for the month. The revenue total is the highest for the AWTF in *seven (7) years*. The increase in runtime is due to mechanical failures that were repaired from the previous month, and an increase in feed being pumped to the Primary Digesters.

Laboratory

- Discovered that the lab difficulties for passing the BOD/CBOD IDOC was due to bad Polyseed. The SOP was amended to include raw influent as inoculum and to have lab technicians in the process of running IDOCs.
- Completed and passed IDOCs for new Fecal and E. Coli method, ordered PTs for each to be run in the beginning April.
- Made significant progress with WIMS benchsheets and calculations, working with HACH remotely for assistance.

Pretreatment

- Reissued Industrial User permit for Swatara Landfill and notified Drinking Water department that their permit needs renewed in April.
- Training lab staff on Industrial User compliance sampling to be started in April.
- Digitizing 2022 Industrial User facility inspection reports to streamline 2023 inspections.

Plant Maintenance

- Installed a new hauler discharge connection in Chamber A.
- Installed metering equipment for the Chlorine system to reduce unnecessary consumption. Project consisted of:
 - Excavating to install underground piping for communication connections.
 - Assembling and installing necessary components to cabinets and devices to upgrade the system.
- Performed seasonal grounds maintenance at the AWTF, clearing fence row trees and debris, as necessary.
- Serviced the standby generator test full load at the Market Street pump station.
- Install new drive gearbox for Pista Grit No. 3 paddle drive.
- Prepared the interior levels of the plant drain pump for painting.
- Repaired the 8-inch drain line valve for the primary clarifier scum pit.
- Serviced the standby generator at the Spring Creek pump station and tested on full load.
- Repaired rusted holes in the scum collection box on Gravity Thickener No. 2.
- Provided weekly preventative maintenance of the JCB loader.
- Performed daily service for vehicular related repairs - bulbs, batteries, tires, lube oil and filters and flat tires. Some work in preparation of state inspection.
- Performed various maintenance tasks per request at the North Front Street administrative offices.

Field Construction

- Repaired 24 inlets at various locations throughout the City.
- Replaced a brick inlet at Central and Bob Streets with a new pre-cast box and M-top grate/frame.
- Replaced a brick inlet on McCleaster Street with a new pre-cast box and M-top grate/frame.
- Raised a buried manhole at Front and Foster Streets. The manhole was found to be a hotspot for trash and debris in the system.
- Replaced ten (10) feet of storm pipe at Kemp and Alrick Streets.
- Replaced an inlet grate and frame at 5th and Muench Streets with a new pre-cast M-top/bicycle grate.
- Replaced an old curb inlet at 4th and Muench Street to better combat trash/debris from entering the combined system.

Field Operations

- Performed CCTV assessment of 7,933 feet (1.5 miles) of pipe.
- Flushed 3,238 feet (0.61 miles) of sewer pipe.
- Cleaned 209 stormwater inlets and performed detailed inspection and measurement of 205 of them.
- Responded to seven (7) backup and overflow calls. Responsibility for one (1) which is still being investigated. All others were cleared of CRW responsibility.
- Responded to four (4) sinkhole calls. One (1) was due to failure of a wastewater asset.
- Performed extensive flushing and CCTV assessment near 17th and Market Streets in support of a capital project.
- Two Dry Weather Overflows (DWO) occurred in the month of March:
 - On March 16th a DWO was observed at CSO #013 at Front and Cumberland Streets due to grease and debris blocking the gate. The debris was quickly removed, and full hydraulic capacity was restored.
 - On March 29th a Dry Weather Overflow was observed at CSO #039 at South Mulberry and Cameron Streets. This blockage was caused by flushable wipes. The debris was removed and full hydraulic capacity was restored.

Environmental Compliance

- Completed three (3) inspections of FOG dischargers.
- Issued two (2) new FOG discharge permits and renewed one (1) permit.
- Issued eight (8) FOG-related Notice of Violations (NOVs).

-
- Provided education packets to five (5) newly identified FOG dischargers (either new business or previously unidentified). Spent time educating business owners/representatives 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.
 - Five (5) investigations were conducted during the month of March.
 - CRW's Environmental Compliance Inspector was contacted by Field Operations regarding wastewater being pumped from a basement into the backyard of a residence near the intersection of 17th and Market Streets. An investigation was conducted, and the information was turned over to Harrisburg's Bureau of Codes since CRW's collections and conveyance system was not impacted by the pumping.
 - CRW's Environmental Compliance Inspector was contacted by CRW's Water Distribution department regarding a discharge of water occurring near the intersection of 18th and Herr Streets. The discharge was a result of fire hydrant use on private property during construction activities. The investigation of a prohibited discharge was inconclusive.
 - CRW's Construction Coordinator contacted the Environmental Compliance Inspector regarding a sanitary sewer overflow and illicit discharge of wastewater to the Susquehanna River near the Market Street bridge. An investigation of the incident found the discharge occurred because of a broken pipe. The investigation determined an illicit discharge did occur and penalties are still being assessed.
 - Two (2) incidents of illicit discharge of petroleum products to the Susquehanna River were investigated. In both cases, the discharges were confirmed, and penalties are still being assessed.

Street Sweeping

- Completed 788.12 miles of scheduled street sweeping within the City of Harrisburg. Completed an additional 74.61 miles in unscheduled and as-needed areas during the fifth week of the month. The grand total of miles swept during March was 862.73 miles.
- Had five (5) complaints in the month of March 2023. All were resolved.
- Performed much-needed tire replacement on all sweepers for the upcoming year.
- Used approximately 8,800 gallons of water during street sweeping operations.
- Continued to assist cleaning storm inlets in scheduled sweeping areas.

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Process Control - 2023

Parameters	January	February	March	April	May	June	July	August	September	October	November	December	Average	NPDES Limits
Volume, MGD	22.0	16.8	19.3										19.4	37.7
Carbonaceous Biochemical Oxygen Demand														
Influent, mg/L	97	139	111										116	----
Effluent, mg/L	4	3	3										3	25
Percent Removal, %	95.6	97.4	96.8										96.6	----
Effluent Loading, lb/d	681	469	518										556	7,860
Suspended Solids:														
Influent, mg/L	156	222	173										184	----
Effluent, mg/L	8	3	3										5	30
Percent Removal, %	95.0	98.5	98.1										97.2	----
Effluent Loading, lb/d	1,447	412	582										814	9,433
Nitrogen														
Total-N														
Influent, mg/L	26	33	26										28	----
Effluent, mg/L	5.0	4.0	5.7										5	Monitor
Percent Removal, %	80.5	87.9	78										82.3	----
Effluent Loading, lb/d	993	548	846										796	----
NH3-N														
Influent mg/L	17	21	17										18	----
Effluent, mg/L	1.9	1.2	1.4										2	11 (2)
Percent Removal, %	88.5	94.3	91.8										91.5	----
Effluent Loading, lb/d	359	168	248										258	4,716
Phosphorus:														
Influent, mg/L	2.9	4.2	3.5										3.5	----
Effluent, mg/L	0.8	1.6	1.2										1.2	2.0
Percent Removal, %	70.3	61.3	64.4										65.3	----
Effluent Loading, lb/d	152	222	194										189	629
pH:														
Influent, Std. Units	7.4	7.3	7.3										7.3	----
Effluent, Std. Units	7.4	7.4	7.4										7.4	6.0 - 9.0
Dissolved Oxygen:														
Effluent Minimum, mg/L	8.0	8.8	7.8										8.2	5.0 Min.
Fecal Coliform:														
Effluent, No./100 ml	25	3	5										11	200/100 ml (1)
Chlorine Residual:														
Effluent, mg/L	0.22	0.18	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.

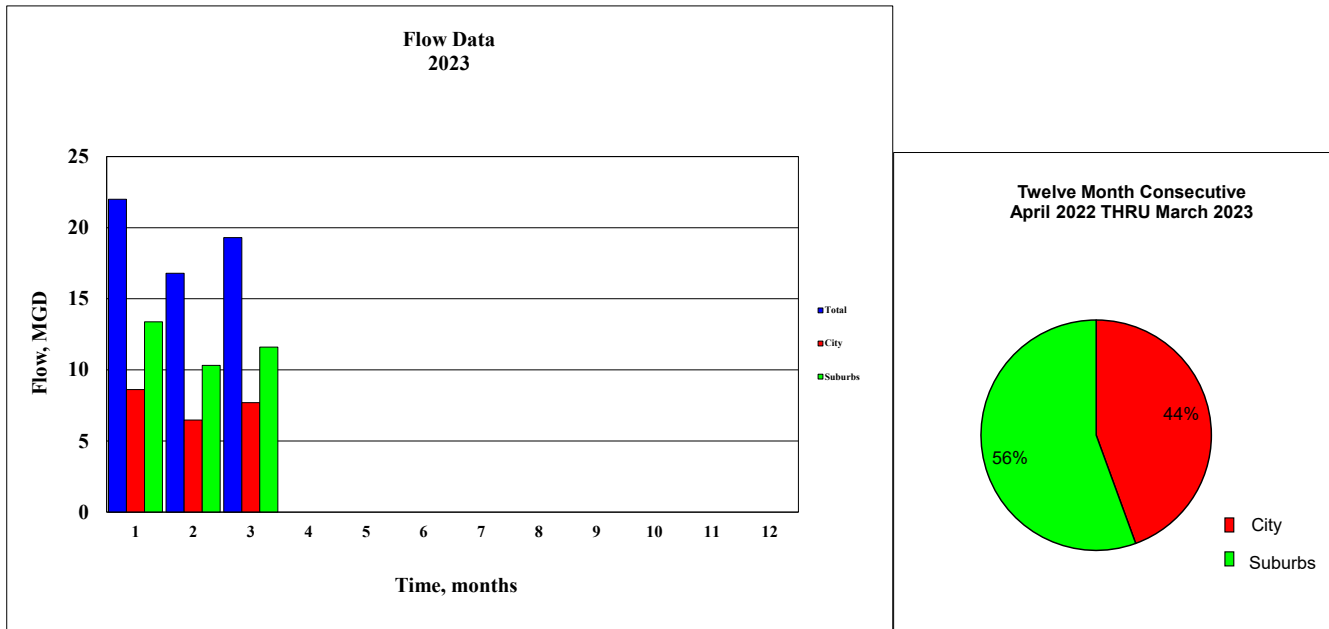
(2) Seasonal Limit May 1 to Nov.1.

EXHIBIT B

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Flow Monitoring Information, MGD - 2023

Month	Total			City Regions					Suburb Regions					Total Precip inches
	Flow	City	Suburbs	1	2	3	4	5	6	7	8	9	10	
January	22.000	8.622	13.378	8.110	0.192	0.300	-0.160	0.180	1.400	5.280	2.208	4.060	0.430	2.450
February	16.800	6.480	10.320	5.480	0.150	0.300	0.410	0.140	1.200	3.950	1.720	3.100	0.350	1.010
March	19.300	7.696	11.604	6.670	0.176	0.300	0.390	0.160	1.300	4.250	2.024	3.670	0.360	2.560
April														
May														
June														
July														
August														
September														
October														
November														
December														
Average	19.37	7.60	11.77											2.01
Percent	100.00	39.24	60.76											6.02



**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Treatment Utility and Chemical Usage - 2023

Utility / Chemical	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Electric														
Total, kWh	1,158,900	1,028,400	1,033,800										1,073,700	3,221,100
Average, kWh/Day	37,384	36,729	33,348										35,820	-----
Cost, Dollars	\$98,628.52	\$60,520.22	\$60,192.18										\$73,113.64	\$219,340.92
Natural Gas														
Total, Cu Ft	621.9	*	*										207	622
Average, Cu Ft/Day	20	*	*										20	-----
Cost, Dollars	\$6,237.14	*	*										\$2,079.05	\$6,237.14
Water														
Total, Gal.	1,187,000	1,298,000	*										1,242,500	2,485,000
Average, Gal./Day	38,290	46,357	*										42,324	-----
Cost, Dollars	\$15,616.58	\$16,764.32	*										\$10,793.63	\$32,380.90
MicroC														
Total, Gal.	0	0	0										0	0
Average, Gal./Day	0.0	0.0	0.0										0	-----
Cost, Dollars	\$0	\$0.00	\$0										\$0.00	\$0.00
Sodium Hydroxide														
Total, Gal.	0	0	0										0	0
Average, Gal./Day	0	0	0										0	-----
Cost, Dollars	0	0	0										\$0.00	\$0.00
Chlorine Disinfection														
Total, Lbs.	13,115	5,973	6,830										8,639	25,918
Average, Lbs./Day	423	223	220										289	-----
Avg Residual, mg/l	0.22	0.18	0.20										0.20	-----
Cost, \$/Lbs.	\$1.64	\$1.64	\$1.64										\$1.64	-----
Total Cost, Dollars	\$21,508.60	\$9,795.72	\$11,201.20										\$14,168.51	\$42,505.52
Phosphorous Removal														
Total FeCl3, Gals.	3,113	2,950	3,113										3,059	9,176
Avg FeCl3, Gals./Day	100	105	100										102	-----
FeCl3 Cost, \$/Gal.	\$1.74	\$1.74	\$1.74										\$1.74	-----
FeCl3 Total Cost, Dollars	\$5,416.97	\$5,133.00	\$5,416.62										\$5,322.20	\$15,966.59

* No data at time of report

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Cogeneration Electrical Production: 2022-2023

	Period	Percent Run Time	Daily Avg Kilowatt	Kilowatt Hours Produced	Estimated Revenue
January 2022		2	58	1,800	\$210.51
February 2022		37	1,093	30,600	\$3,578.67
March 2022		33	958	29,700	\$3,473.42
April 2022		43	1,710	51,300	\$5,999.54
May 2022		53	1,687	52,200	\$6,104.79
June 2022		23	510	15,300	\$1,789.34
July 2022		33	1,190	36,900	\$4,315.46
August 2022		28	697	21,600	\$2,526.12
September 2022		12	450	13,500	\$1,578.83
October 2022		34	1,365	42,300	\$4,946.99
November 2022		21	870	26,100	\$3,052.40
December 2022		20	726	22,500	\$2,631.38
<hr/>					
Total - 2022				343,800	\$40,207.41
Monthly Average - 2022		28	943	28,650	\$3,350.62
January 2023		2	58	1,800	\$210.51
February 2023		58	2,250	63,000	\$7,367.85
March 2023		75	3,135	97,200	\$14,337.97
April 2023					
May 2023					
June 2023					
July 2023					
August 2023					
September 2023					
October 2023					
November 2023					
December 2023					
<hr/>					
Total - 2023				162,000	\$21,916.33
Monthly Average - 2023		45	1,814	54,000	\$7,305.44

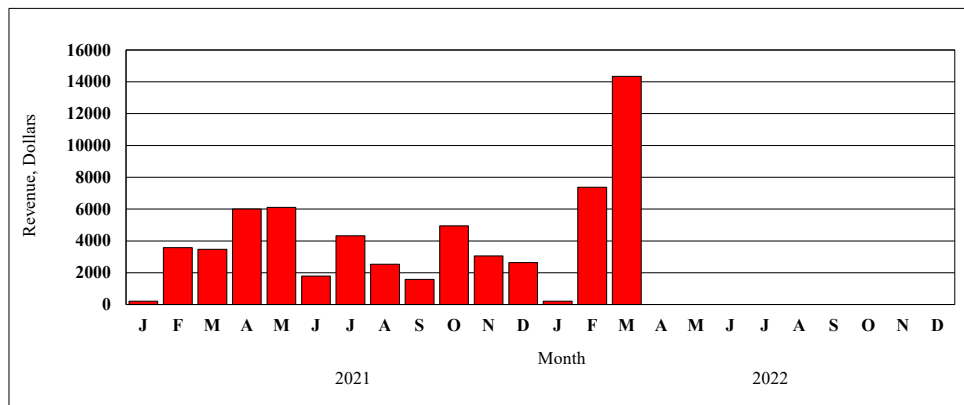


EXHIBIT E

**CAPITAL REGION WATER
ADVANCED WASTEWATER TREATMENT FACILITY**

Sludge Handling Information - 2023

Process	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Solids Removal														
Process, Lbs.	704,819	890,443	1,557,518										1,050,927	3,152,780
CWH Program, Lbs.	196,727	230,186	125,669										184,194	552,582
Total Solids, Lbs.	901,546	1,120,629	1,683,187										1,235,121	3,705,362
Sludge Dewatering														
Feed Volume, Gals.	5,489,000	4,398,000	3,878,000										4,588,333	13,765,000
Feed Solids, %	1.5	1.5	1.5										1.5	-
Labor, Hours	635	519	531										562	1,685
Operations, Hours	1,181	977	1,014										1,057	3,172
Total Cake, Dry Tons	208	168	162										179	538
Total Cake, Wet Tons	1,264	1,089	1,040										1,131	3,393
Cake TS, %	16.5	15.9	15.6										16.0	-
Press Rate, Lbs./Hour	2,140	2,228	2,052										2,140	6,420
Polymer Dosage, Lbs	4,299	4,556	4,533										4,463	13,388
Polymer Dosage, Lbs/Dry Ton	24.3	26.4	28.6										26.4	-
Disposal Cost														
Labor, Dollars	\$12,208.54	\$9,982.89	\$10,200.05										\$10,797.16	\$32,391.49
Electrical, Dollars	\$519.82	\$430.06	\$445.98										\$465.29	\$1,395.86
Polymer, Dollars	\$8,383.05	\$8,885.16	\$8,839.35										\$8,702.52	\$26,107.56
Disposal, Dollars	\$43,033.40	\$59,350.50	\$42,993.10										\$48,459.00	\$145,377.00
Total Cost, Dollars	\$64,144.81	\$78,648.61	\$62,478.49										\$68,423.97	\$205,271.90
Cost Per Dry Ton, Dollars	\$308.39	\$468.15	\$385.67										\$387.40	

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Conveyance Utility Usage - 2023

Location / Utility	January	February	March	April	May	June	July	August	September	October	November	December	Average	Total
Front Street Pump Station														
Electric														
Total, kWh	153,600	97,200	*										125,400	250,800
Average, kWh/Day	4,955	3,471	*										4,213	-----
Cost, Dollars	#####	\$6,179.35	*										\$8,175.61	\$16,351.22
Fuel Oil														
Total, Gals.	0	0	0										0	0
Average, Gals./Day	0	0	0										0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00										0	\$0.00
Water														
Total, Gals.	284,000	318,000	*										301,000	602,000
Average, Gal./Day	9,161	11,357	*										10,259	-----
Cost, Dollars	\$3,633.08	\$3,984.64	*											\$7,617.72
Spring Creek Pump Station														
Electric														
Total, kWh	38,400	*	*										38,400	38,400
Average, kWh/Day	1,239	*	*										1,239	-----
Cost, Dollars	\$1,274.90	*	*										\$1,274.90	\$1,274.90
Fuel Oil														
Total, Gals.	0	0	0										0	0
Average, Gals./Day	0	0	0										0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.00
Water														
Total, Gals.	90,000	104,000	*										97,000	194,000
Average, Gal./Day	2,903	3,714	*										3,309	-----
Cost, Dollars	\$1,006.59	\$1,151.35	*										\$1,078.97	\$2,157.94
Market Street Pump Station														
Electric														
Total, kWh	1,320	*	*										1,320	1,320
Average, kWh/Day	43	*	*										43	-----
Cost, Dollars	\$112.61	*	*										\$112.61	\$112.61
Fuel Oil														
Total, Gals.	0	0	0										0	0
Average, Gals./Day	0	0	0										0	-----
Cost, Dollars	\$0.00	\$0.00	\$0.00										\$0.00	\$0.00
City Island Pump Station														
Electric														
Total, kWh	40	*	*										40	40
Average, kWh/Day	1	*	*										1	-----
Cost, Dollars	\$42.43	*	*										\$42.43	\$42.43

* No Data at time of report

CAPITAL REGION WATER ADVANCED WASTEWATER TREATMENT FACILITY

Contract Waste Hauling Program 2022 - 2023

Month	Process		Septic		Total	
	Gallons	Revenue	Gallons	Revenue	Gallons	Revenue
January	557,788	\$18,254.25	78,450	\$2,770.20	636,238	\$21,024.45
February	1,253,749	\$35,714.94	150,975	\$5,336.00	1,404,724	\$41,051.04
March	1,266,410	\$37,456.11	168,400	\$5,918.40	1,434,810	\$43,374.51
April	832,860	\$24,607.44	189,750	\$6,795.00	1,022,610	\$31,402.44
May	1,599,990	\$46,377.27	250,650	\$8,874.90	1,850,640	\$55,252.17
June	583,370	\$18,218.79	315,100	\$11,217.60	898,470	\$29,436.39
July	352,570	\$12,137.31	252,900	\$8,969.40	605,470	\$21,106.71
August	248,100	\$8,169.21	287,600	\$10,209.60	535,610	\$18,378.81
September	1,589,990	\$44,824.05	311,600	\$11,046.60	1,901,590	\$55,870.65
October	1,738,680	\$48,922.56	342,650	\$12,173.40	2,081,330	\$61,095.96
November	1,412,550	\$39,494.61	293,700	\$10,537.20	1,706,250	\$50,031.81
December	1,776,820	\$50,682.24	158,050	\$5,586.30	1,934,870	\$56,268.54
Total - 2022	13,212,877	\$384,858.78	2,799,825	\$99,434.60	16,012,612	\$484,293.48
Monthly Average - 2022	1,101,073	\$32,071.57	233,319	\$8,286.22	1,334,384	\$40,357.79
January	2,332,260	\$65,162.88	208,150	\$7,173.90	2,540,410	\$72,336.78
February	1,424,370	\$47,326.95	191,150	\$6,694.20	1,615,520	\$54,021.15
March	944,920	\$28,533.96	265,650	\$9,491.40	1,210,570	\$38,025.36
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total - 2023	4,701,550	\$141,023.79	664,950	\$23,359.50	5,366,500	\$164,383.29
Monthly Average - 2023	1,567,183	\$47,007.93	221,650	\$7,786.50	1,788,833	\$54,794.43

