Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
717-948-3055

December 31, 2023

Mr. Kenneth Klinepeter
Borough of Middletown
kklinepeter@middletownborough.com

Mr. Dan Sugarman
Water Capital Partners LLC
dan.sugarman@wcpartnersllc.com

Mr. John Joyner
Water Capital Partners LLC
john.joyner@wcpartnersllc.com

Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Transmittal of Veolia Middletown Operations Report November 2023

Pursuant to Sections 3.22 and 4.10 of the Concession Agreement; Part A, Section 9.4 and Part B, Sections 5.1, 5.2.6, 5.4.3, 6.3, and 8.1 of the Operating Standards; and Section 7.1 (e), (i) of the Joint Venture Operating Agreement, transmitted herewith is an electronic copy of the subject Monthly Report.

Should you have any questions or require further information, please contact me at your convenience.

Sincerely,

Kodi Webb

Kodi Webb
Project Manager
Veolia Middletown

cc: Michael Winfield
Jason Kiernan
Ken Bonn
William Stanton

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

NOVEMBER 2023

EXECUTIVE SUMMARY

This report covers the monthly period of November 1, 2023 through November 31, 2023.

During this reporting period, Veolia Middletown met all operational obligations. Veolia worked closely with the Borough of Middletown to provide the citizens of Middletown a consistent, high quality water and wastewater service, which meets all Federal, State and local regulatory requirements.

The following Summary highlights the achievements and challenges of the project during this reporting period.

Operations and Maintenance

Veolia effectively provided all services as required in accordance with the Operating and Technical Standards as described in Schedule 4 of the Concession Agreement dated September 29, 2014, in accordance with Best Management Practices, and all applicable Laws.

Significant operational and maintenance accomplishments for the reporting period include:

- Continue weekly monitoring of the petroleum substance entering the outfall pipe after the WWTP effluent. Short-term mitigation efforts are minimizing the discharge until a long-term plan is approved.
- Continue use of the HachWIMS application for process and regulatory data management and to optimize meeting reporting requirements.
- Continue observation of the SmartCover® Sewer Monitoring System at manholes MH-286 at Mill St, MH-290 at Hoffer Park, MH-332 at E. Main St, and MH-475A on E. Water St.
- Installation of Safety Upgrades for Water and Wastewater systems.
- Continued small meter replacement program.
- Returned Turnpike Tank to service.
- Repaired one service line break and one main break.
- Replaced light bulb on High Street tank.
- Performed annual safety inspections of fire extinguishers and backflow prevention.

Regulatory Compliance

NOV was issued on March 1, 2021 for Well # 4 Fluoride system deficiencies. A brief summary and status update regarding the NOV, our efforts to date, and action plan to resolve the issue follows:

- NOV was issued by DEP on 3/1/21
  - Verbal consult with the Department (30 Day)- Due by 3/31/21 - **Completed**
  - Respond in writing (45 Day)– Due by 4/15/21 - **Submitted**
  - Complete corrective actions (120 Day)– Due by 6/29/21 –**Extended by DEP**
    - PA DEP did not provide an updated deadline, but wants to see continued progress with the project.
- Required upgrades to fluoride feed systems at all wells which will require a separate permit amendment filed with PA DEP for each. – Well #4 **Permit Approved 6/25/21**
  - Only Well #4 will be held to the 120 day timeline since permits are required for each well
  - VEOLIA will not delay working with HRG and DEP to get all locations permitted and completed in a timely manner.
- Equipment for upgrade
  - HRG to identify best pumps and equipment for this application.
  - Well pump #4, replacement in progress
- Veolia working with HRG on permit amendments
  - Well 4 Permit Application (replacement pump)–**Approval Received on 6/25/21**
  - Chemical feed parts ordered in July 2021, and received August 19, 2021
  - Permit application approval received for chemical feed upgrade for all wells
  - Permit application approval received for Well 3 pump replacement
  - HRG to submit additional permit applications for Well 4 level transducer as required by Susquehanna River Basin Commission and upgrade online chlorine analyzer – January 2023
  - Well 4 drop pipe, well pump and chemical feed system installed October 2023.
    - A new scale for the fluoride system has been ordered and will be installed before startup.
    - Well 4 to be returned to service pending fluoride scale installation and PA DEP inspection. Estimated to be January 2024.
- Chemical feed upgrade for Well 2 complete on November 3, 2022
- Water SCADA computer upgrade complete August 2023

On February 23, 2023, an unplanned wastewater plant inspection was performed by Pennsylvania Department of Environmental Protection. The formal report has not been generated from the inspection, but the sanitarian did not note any major findings or violations during the inspection.

Veolia submitted the Well 6 Groundwater Withdrawal Application for renewal to the Susquehanna River Basin Commission (SRBC) on January 10, 2022 with a requested withdrawal quantity of 1,070,000 gpd, which is what the well is currently permitted for. After reviewing the application in further detail, SRBC has proposed 324,000 gpd as the 30-day average quantity allowed to be pumped from the well. Veolia is working with HRG and ARM group to perform additional evaluations to support a request for 600,000 gpd permitted withdrawal from Well 6.

Environment, Health and Safety

Comprehensive, job-specific environment, health and safety (EH&S) training continued this month.

Customer Service

The current operating period was very successful for Customer Service in Middletown.
Some accomplishments include:
Though the Customer Service counter remains closed to customers, customer service, and payments remain open via payment drop box, telephone, email and US Mail.
Continued to track and update reports to meet the needs for data analysis, revenue forecasting, and reporting requirements.
The meter reading cycle for water consumption in September was successfully completed on October 26th, 2023.

- Sent 273, 10 day shut-off notices to accounts that were $50 past due for the October 2023 billing period

Engineering and Capital Expense

A complete breakdown of the proposed projects and significant accomplishments for the Engineering and Asset Management areas are included in the Engineering section of this report. Veolia Middletown will continue efforts to maintain operations at a high level of reliability, while monitoring unaddressed, identified capital projects that continue to accrue and if not implemented have the potential to impact future performance.

Conclusion

Veolia continues to operate the Borough's water and sewer systems in compliance with Concession Agreement, Operating and Technical Standards.

MONTHLY OPERATIONS REPORT

Veolia Middletown effectively provided all services as required in accordance with the Operating and Technical Standards as described in Schedule 4 of the Concession Agreement dated September 29, 2014, in accordance with Best Management Practices, and in accordance with all applicable Laws and regulations.

Wastewater Treatment Plant DMR

The eDMR for this reporting period was electronically submitted to the PADEP. A copy of the report and submittal verification is attached with Appendix A.

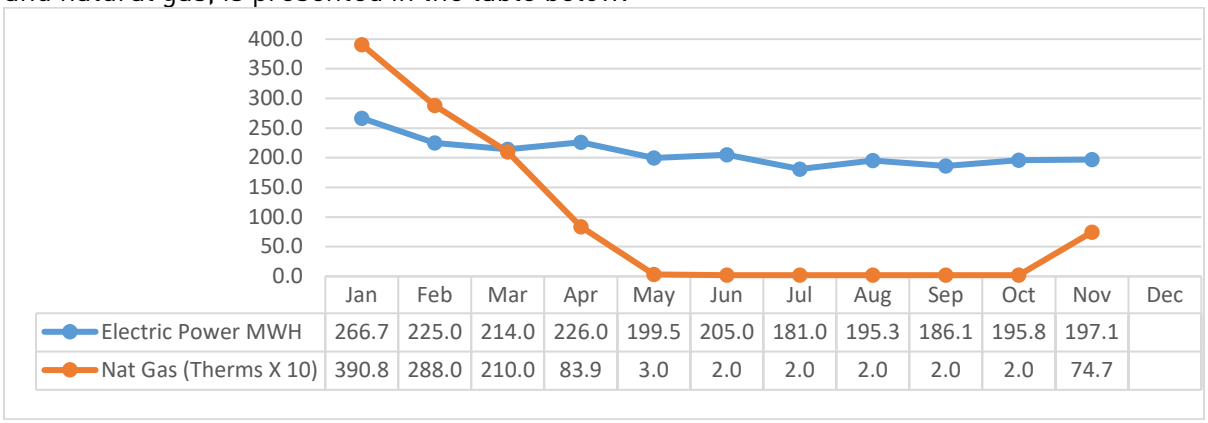
Quality Control Reporting

Written certification of Laboratory Quality Control is included with a copy of the monthly eDMR submittal and can be found in the Appendix to this report. No proficiency testing was required to be conducted this month.

Energy Management and Sustainability

Energy Use

Monthly energy used in operation of the water and wastewater systems, including electricity and natural gas, is presented in the table below.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Electric Power MWH	266.7	225.0	214.0	226.0	199.5	205.0	181.0	195.3	186.1	195.8	197.1	
Nat Gas (Therms X 10)	390.8	288.0	210.0	83.9	3.0	2.0	2.0	2.0	2.0	2.0	74.7	

*Note- The utility usage data from Engie is not released until the 28th of the following month.

Energy Efficiency Initiatives

Set up for utility use data collection and reporting has been implemented. Review of this data will continue as the data is compiled on a monthly basis. Long term initiatives currently being explored include the potential for solar and process efficiency improvements.

Sustainability

Middletown received a score of 97 for the GRESB Report submitted in 2023. This was a 6 point increase from the GRESB Report submitted in 2022, and an 81 was received for the GRESB Report submitted in 2021. The 2022 GRESB Report data was compiled in April. Objectives will be developed to increase and support biodiversity and sustainability initiatives.

Water System and Wastewater Treatment Plant Maintenance

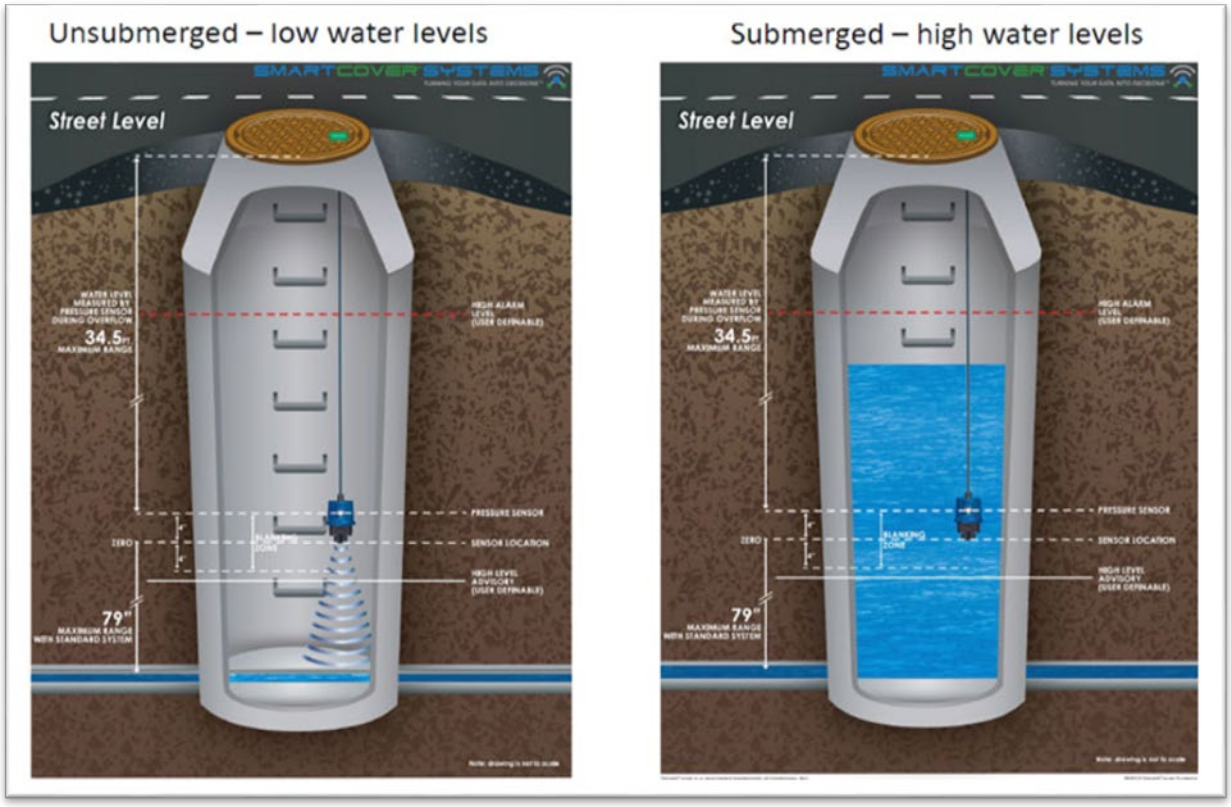
Equipment out of service during the month is listed in the table below.

System	Equipment	Process Location	Date Off Line	Reason for Taking Off Line	Date Returned to Service
Water	Well Pump	Well 4	2/26/21	Pump Failure	9/25/23*
Water	Fluoride Pump	Well 4	2/26/21	Pump upgrades and SCADA integration	Pending Upgrade
Water	Well Pump	Well 3	9/14/21	Pump Failure	In Progress
WWTP	Influent Screen	Wet Well	1/13/23	Mechanical Failure	In Progress
WWTP	Fine Screen	Headworks	8/23/23	Mechanical Failure	In Progress
WWTP	Rotor	Ox Ditch 1	10/2/23	Rotor Failure	In Progress

*Date of repair. Will be returned to service pending completion of the project and PA DEP inspection.

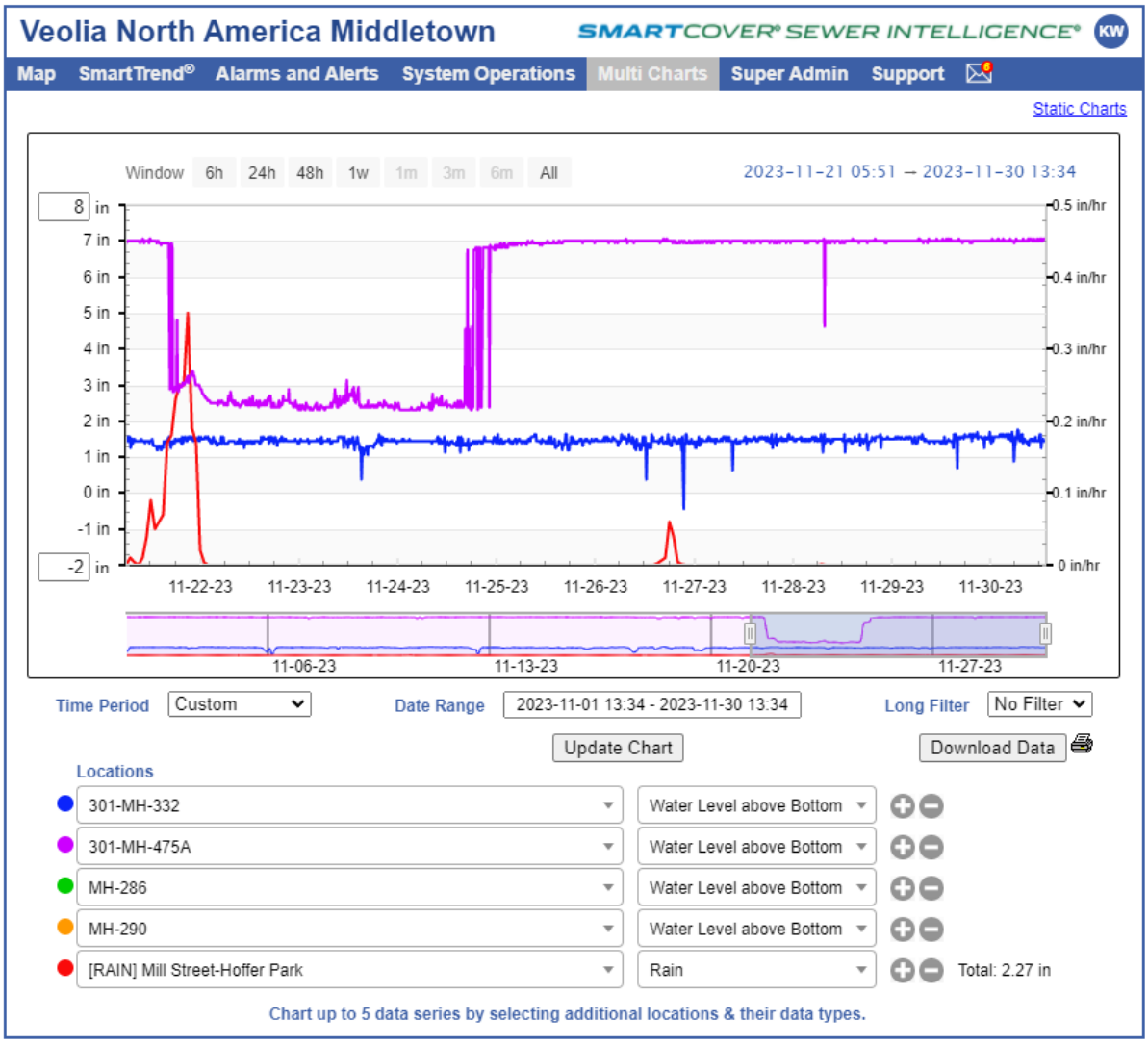
Sanitary Sewer System

SmartCover® Sewer Monitoring System



Ultrasonic level sensor (on the left) and pressure transducer (on the right). The covers use level sensing technology to analyze sewer elevations throughout the monitored area. This technology is used to monitor and reduce sanitary sewer overflows (SSO's) at problematic locations. The SmartCovers installed in Middletown are located at the interceptor on Mill St. and the entrance to Hoffer Park and were installed to better monitor and reduce surcharges and prevent SSOs in the interceptor. In an effort to expand the monitoring areas within the system, two additional SmartCovers were installed in July 2021 at MH- 332 (East Main St) and MH 475A (East Water St).

The SmartCover sensors were installed, in conjunction with a thorough cleaning of the interceptor, as part of the PA DEP Corrective Action Plan (CAP). Upon cleaning of the interceptor and installation of the sensors, we are now able to monitor surcharge conditions in "real-time".


Veolia North America Middletown
SMARTCOVER® SEWER INTELLIGENCE®
Map
SmartTrend®
Alarms and Alerts
System Operations
Multi Charts
Super Admin
Support
Static Charts
Window
6h
24h
48h
1w
1m
3m
6m
All
2023-11-21 05:51 → 2023-11-30 13:34
8 in
7 in
6 in
5 in
4 in
3 in
2 in
1 in
0 in
-1 in
-2 in
0.5 in/hr
0.4 in/hr
0.3 in/hr
0.2 in/hr
0.1 in/hr
0 in/hr
11-22-23
11-23-23
11-24-23
11-25-23
11-26-23
11-27-23
11-28-23
11-29-23
11-30-23
11-06-23
11-13-23
11-20-23
11-27-23
Time Period
Custom
Date Range
2023-11-01 13:34 - 2023-11-30 13:34
Long Filter
No Filter
Update Chart
Download Data
Locations
301-MH-332
Water Level above Bottom
301-MH-475A
Water Level above Bottom
MH-286
Water Level above Bottom
MH-290
Water Level above Bottom
[RAIN] Mill Street-Hoffer Park
Rain
Total: 2.27 in
Chart up to 5 data series by selecting additional locations & their data types.

Key Performance Indicators

Project Status Snapshot

The following table is a graphical representation of relative progress for each of four identified Key Performance Indicators (KPIs) for the wastewater collection and water transmission and distribution system.

KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	0	5961	0
Current	0	0	0	0
YTD	166	124	20153	35

On Target – Good Work	Caution	Significantly Behind Goal

KPI Comments

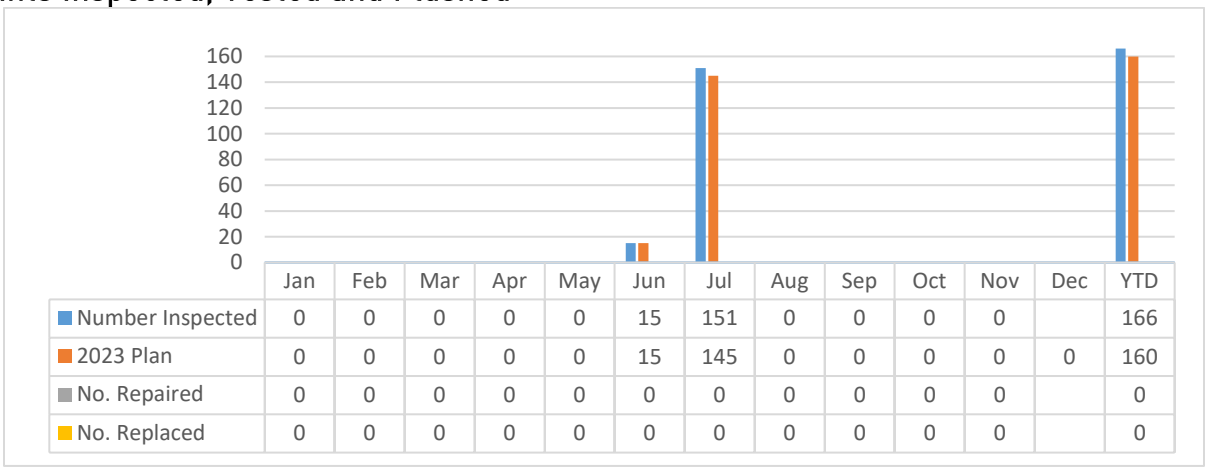
Water Loss: Identifying and reducing the system water loss has been a key focus for Veolia. In an effort to identify and resolve the sources of water loss, continue to (1) verify the accuracy of the billing system reports, (2) verify the production meter accuracy at each well site based on review of the quarterly calibration records, (3) test a representative sampling of meters/MIU's to ensure the integrity of the data being downloaded to the billing system and verify the accuracy of residential meters. We continue to identify and, when found, repair water leaks throughout the system. In addition, following AWWA guidelines and standards, Veolia has identified and is in the process of testing and replacing 10% of the systems small meters, starting with the oldest meters.

Water Main Valves Exercised: A comprehensive condition assessment program was part of the development of the asset management program. The program includes valve identification and location, condition assessment, exercising, determining the number and direction of turns, etc. Identifiers are being created using GIS data that was collected during the first phase of the project. Valves that have been identified in need of repair or replacement will be scheduled for repair or replacement over time based on operational priority of the valve.

Hydrants inspected and maintained: The hydrant inspection and preventative maintenance program will be completed in conjunction with the annual water main and hydrant flushing program.

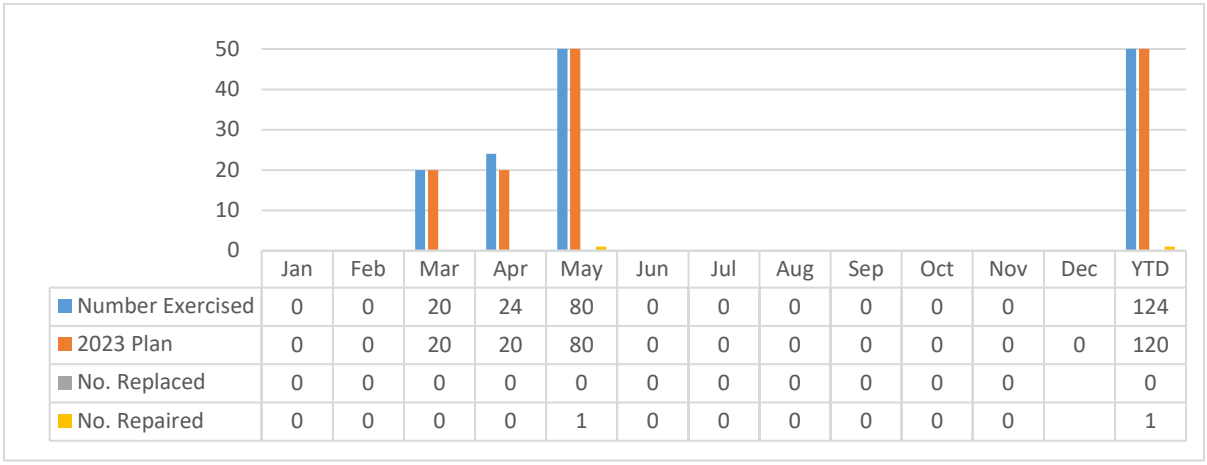
Sanitary Mains Cleaned/CCTV Inspected: The 2022 jetting and CCTV requirement were completed in March 2023, which was postponed due to supply chain and vehicle equipment issues.

Hydrants Inspected, Tested and Flushed



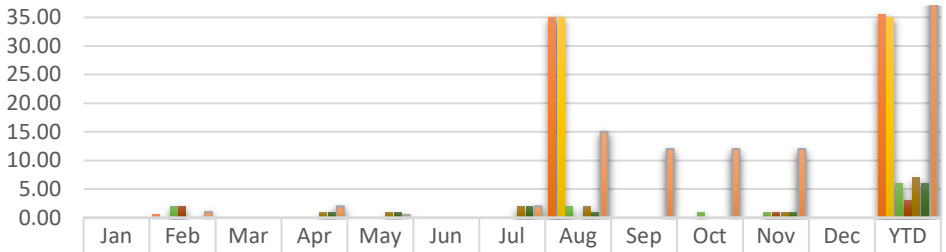
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Inspected	0	0	0	0	0	15	151	0	0	0	0		166
2023 Plan	0	0	0	0	0	15	145	0	0	0	0	0	160
No. Repaired	0	0	0	0	0	0	0	0	0	0	0		0
No. Replaced	0	0	0	0	0	0	0	0	0	0	0		0

Water Main Valves Exercised



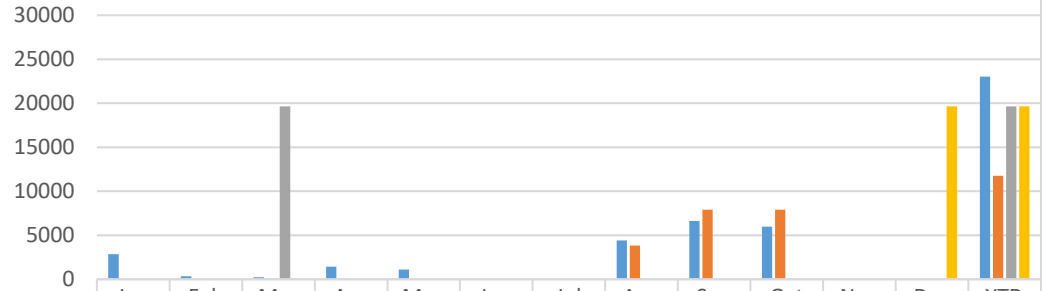
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Exercised	0	0	20	24	80	0	0	0	0	0	0		124
2023 Plan	0	0	20	20	80	0	0	0	0	0	0	0	120
No. Replaced	0	0	0	0	0	0	0	0	0	0	0		0
No. Repaired	0	0	0	0	1	0	0	0	0	0	0		1

Water System Leak Detection



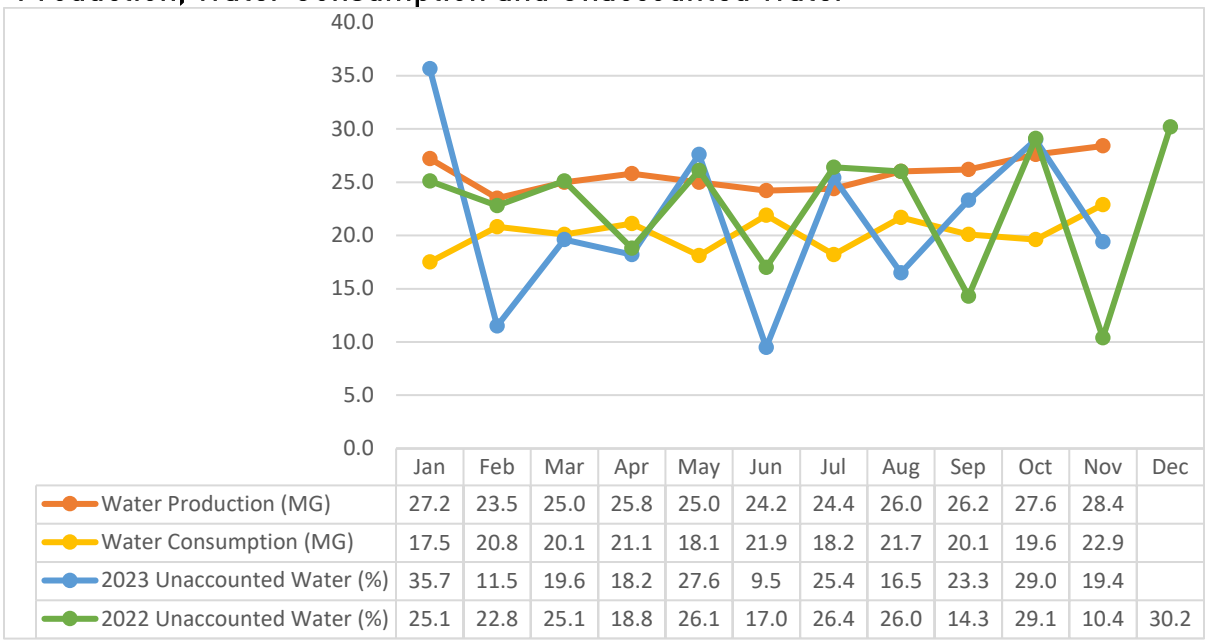
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Miles Surveyed	0.00	0.50	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00		35.50
2022 Plan Survey	0	0	0	0	0	0	0	35	0	0	0	0	35
Main Leaks Located	0	2	0	0	0	0	0	2	0	1	1		6
Main Leaks Repaired	0	2	0	0	0	0	0	0	0	0	1		3
Service Leaks Located	0	0	0	1	1	0	2	2	0	0	1		7
Service Leaks Repaired	0	0	0	1	1	0	2	1	0	0	1		6
Estimated Leakage (Gallons/Day x 1000)	0	1	0	2	0.5	0	2	15	12	12	12		56.5

Wastewater Mains Cleaned/CCTV Inspected



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Linear Feet Flushed	2866	354	250	1423	1091	0	0	4429	6645	5961	0		23019
2023 Plan	0	0	0	0	0	0	0	3850	7900	7900	0	0	11750
Linear Feet CCTV	0	0	19650	0	0	0	0	0	0	0	0		19650
2023 Plan CCTV	0	0	0	0	0	0	0	0	0	0	0	19650	19650

Water Production, Water Consumption and Unaccounted Water

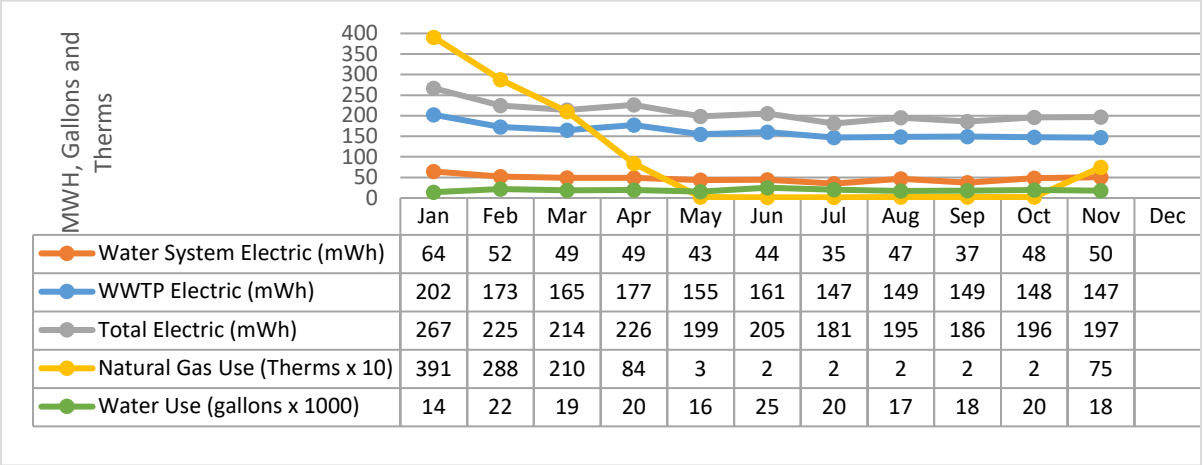


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Production (MG)	27.2	23.5	25.0	25.8	25.0	24.2	24.4	26.0	26.2	27.6	28.4	
Water Consumption (MG)	17.5	20.8	20.1	21.1	18.1	21.9	18.2	21.7	20.1	19.6	22.9	
2023 Unaccounted Water (%)	35.7	11.5	19.6	18.2	27.6	9.5	25.4	16.5	23.3	29.0	19.4	
2022 Unaccounted Water (%)	25.1	22.8	25.1	18.8	26.1	17.0	26.4	26.0	14.3	29.1	10.4	30.2

Unaccounted for water calculation does not include unmetered, estimated flows used for firefighting, training and system maintenance and flushing activities. This is a nominal amount equating to approximately 1% to 2% of the unaccounted water volume. Veolia is investigating the unaccounted for water fluctuations.

Refilling the High St tank (after completion of Capital Upgrade) in January likely contributed to the higher than average unaccounted for water percentage. The higher than average unaccounted for water percentage in July is likely due to hydrant flushing. The higher than average unaccounted for water percentage in October is likely due to several new mains that were filled, flushed, and put into service.

Utilities: Electric Power, Natural gas & Potable Water Use



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water System Electric (mWh)	64	52	49	49	43	44	35	47	37	48	50	
WWTP Electric (mWh)	202	173	165	177	155	161	147	149	149	148	147	
Total Electric (mWh)	267	225	214	226	199	205	181	195	186	196	197	
Natural Gas Use (Therms x 10)	391	288	210	84	3	2	2	2	2	2	75	
Water Use (gallons x 1000)	14	22	19	20	16	25	20	17	18	20	18	

*This graph has been updated to reflect actual water use since July. Engie had been reporting water usage with incorrect units.

Process Chemicals: Water and WWTP Treatment

Chemical	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hypochlorite (Water)	gal	253	212	236	243	231	244	271	322	318	326	296		2951
Hydroflurosilic Acid	lbs	305	265	282	292	282	257	263	273	283	302	416		3221
Alum	gal	1056	1226	1376	1430	1414	1312	1302	1238	1328	1267	1181		14130
Thickening Polymer	gal	55	64	45	48	54	56	44	51	47	43	75		582
Dewatering Polymer	gal	129	160	88	103	118	81	88	63	87	67	71		1055
Chlorine (WWTP)	lbs	404	329	462	390	444	460	490	501	464	363	195		4502
Lime	lbs	5628	7059	4536	3990	4326	3570	3276	3654	4074	2855	2212		45180

Tank Inspection: Water and WWTP

A tank inspection schedule was developed and submitted to the Borough. The tank inspection reports will be maintained in the Project Managers office for review.

Nitrification Control Program

Currently there is no requirement or need for a nitrification control program at the facilities. Veolia will continue to monitor the system for the need of a program and initiate accordingly.

Facility Security

There were no security issues or events during the month.

Meter Testing

A summary of Meter testing is provided in the table below. Quarterly testing and calibrations were completed on water and wastewater process meters, pursuant to the Concession Agreement and Operating Standards. Testing and calibration reports will be attached with the Appendix to this report as they occur.

The small meter replacement program began in July 2023 utilized MeterTek as the contractor. Two hundred sixty-six small meters have been replaced through November. All small meters will be tested at the conclusion of the project. The Middletown project continues to replace small meters as needed and has replaced thirty-seven to date.

Meter Testing Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
WWTP Process	1	0	0	1	0	0	1	0	0	1	0		1	1	1	1	4
Water Process	16	0	0	16	0	0	15	0	0	12	0		16	16	15	12	59
Interconnect/Large	0	0	0	2	0	0	0	0	0	0	0		0	2	0	0	2
Small Meter	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
TOTAL	17	0	0	19	0	0	16	0	0	13	0	0	17	19	16	13	65

Upcoming Month Operational Priorities

- Continue utilization of the Llumin CMMS System to create and track work orders. and perform scheduled equipment maintenance.
- Continue to monitor and refine unaccounted Non-Revenue Water (NRW) losses.
- Continued focus on staff safe work practices and safety.
- Upgrades to Chemical Feed Systems.
- Continue Well # 4 chemical feed upgrade.
- Safety Upgrades to water and wastewater systems.
- Complete small meter replacement program.
- Continue management of underground infrastruction replacement capital construction projects.
- Complete annual CCTV requirement.
- Complete annual Royalton large meter testing.

Customer Service

Highlights

Veolia Middletown closed the the Customer Service Office and Administration building to customers and non essential visitors at the start of the COVID-19 pandemic. At this time the window will remain closed, but the telephone and drop box for payments remain open. Call volume increased in October with a total of 725 calls received. Call volume has remained high through October due to an increased number of customers making payments over the phone. All calls received by answering service or that were placed to the answering service after office hours were responded to. The JV submitted an application for the State's Low Income Housing Water Assistance Program (LIHWAP) in January 2022. The application was accepted and twenty-five customers were able to utilize the program before the LIHWAP program ended on October 28, 2022, due to lack of federal funding. The LIHWAP program was reopened on July 10, 2023 and concluded on August 18, 2023. Nineteen customers were able to utilitize the program while it was open in 2023.

The 2023 rate increase has been implemented in accordance with Middletown Water Annual Recovery Report and the surcharge was terminated in October when the threshold was reached.

The release of bill files for printing and mailing this month occurred in 1 day with bills for services provided in November being mailed to customers on November 29th, 2023. The average gross monthly collection rate for November was 103.18% and 101.66% for the last 12 month rolling average.

A focused effort continued this month to review idled meter accounts and identify locations where consumption was not zero. Based on this review and investigations at the service addresses the number of idle accounts was 20 accounts this month, which is the same as last month. There were no idle meters with consumption this month.

The number of Field Service Requests in November was 97.

In March of 2021, Veolia implemented a new customer bill design. The re-design is helping customers compare the current month's consumption to prior month's consumption. This re-designed format has resulted in an increased number of customers who have subscribed to Auto Pay. Prior to the re-design, we were averaging around 270 customers, now we are up to approximately 431 who have enrolled in the Auto Pay program.

Customer Service: Calls by Type

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2022	2021
General Acct. Info	12	4	8	8	8	3	7	6	22	7	10		95	123	131
Bill Inquiry	99	57	89	94	127	143	162	96	97	56	82		1102	1448	934
Finals	19	12	13	14	22	18	13	9	11	3	18		152	242	173
New Account	7	5	11	7	16	12	9	6	2	3	8		86	118	98
Meter Reading /Re-Reads	1	3	3	5	0	0	0	2	2	0	1		17	13	0
Payments	610	560	590	576	631	591	585	616	569	627	560		6515	6901	6127
Collection Letter	51	45	37	68	104	109	79	38	28	10	14		583	735	168
Rates	0	11	1	0	0	0	0	0	1	0	2		15	9	30
Complaints	0	0	0	0	0	0	0	2	1	0	1		4	0	1
Sewer	0	2	0	0	0	0	0	0	1	0	0		3	6	12
Leaks	3	2	1	3	2	0	4	2	4	5	1		27	15	11
No/Low Water Pressure	0	1	0	0	2	0	1	0	1	0	0		5	8	6
Copy Of Bill	3	4	3	3	4	0	2	3	1	5	4		32	101	2
Correct. Bills	0	0	0	0	0	0	0	0	0	0	0		0	0	0
Mtr Change Out	0	0	0	0	0	0	0	0	1	0	0		1	0	1
Customer Correspondance	61	29	48	56	57	71	57	74	55	40	56		604	763	922
Discolored/Water Quality	0	1	0	1	0	0	0	0	1	0	0		3	1	0
Calls Referred to SUEZ Hbg	33	17	24	23	30	29	23	28	29	16	24		276	414	439
Calls from City / Other Org	0	0	0	0	0	0	0	0	0	0	0		0	0	1
Compliments	0	0	0	0	0	0	0	0	0	0	0		0	1	18
2023 TOTALS	**899**	753	828	858	1003	976	942	882	826	772	781	0	**9520**		
2022 TOTALS	**1005**	920	966	915	972	955	902	905	818	933	814	794		**10899**	

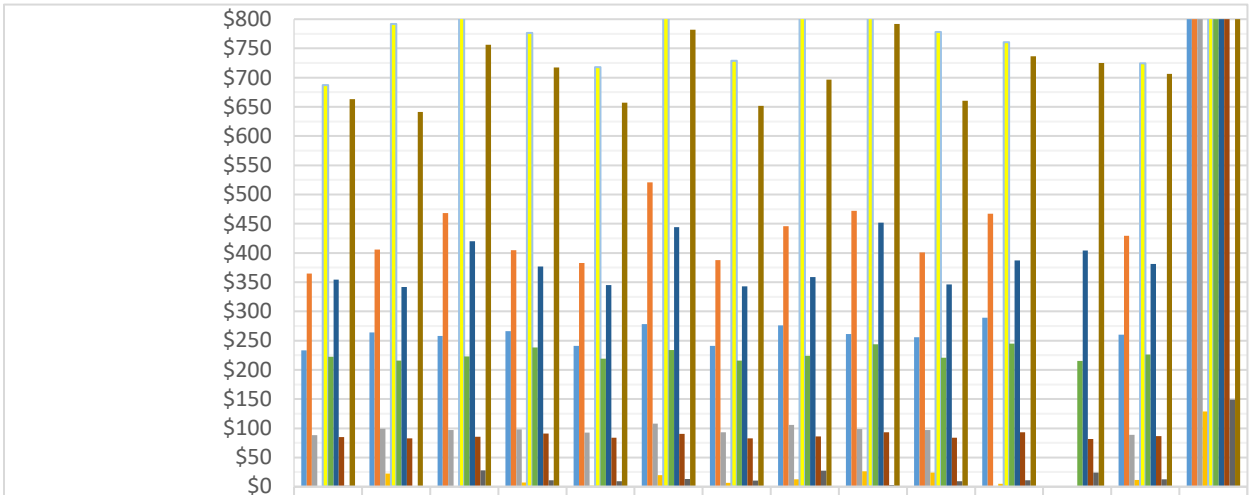
Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

Customer Service: Billing

All Neptune* meters continue to be read on the same day each month, if possible, and the organization of billing in 2 cycles with one group being all residential and the other group being all commercial/industrial accounts, was continued.

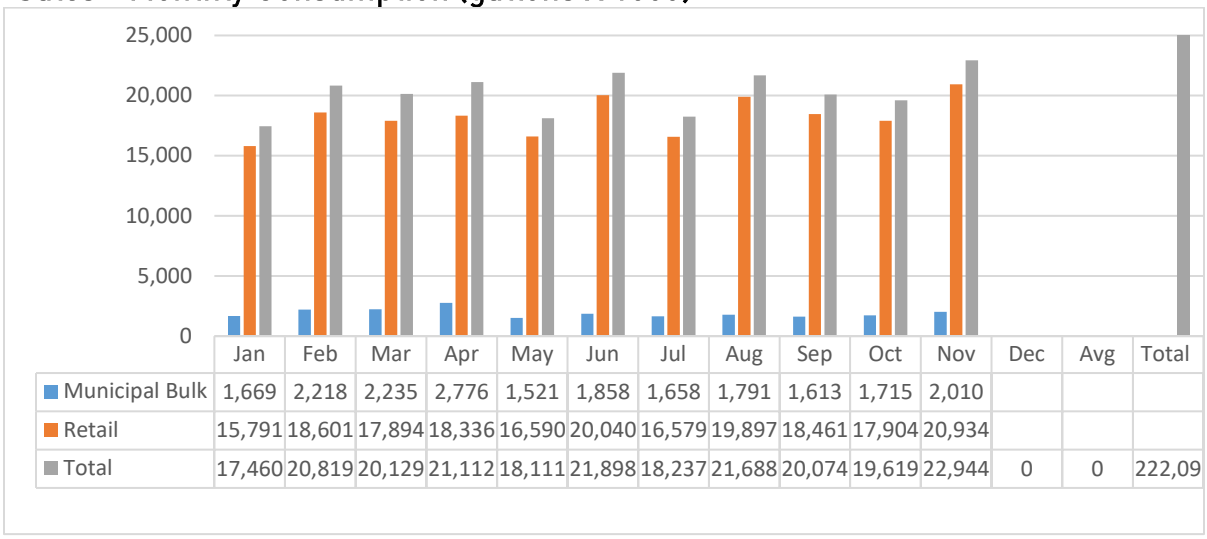
* Neptune is the meter manufacturer

Dollars Billed - Water and Sewer (dollars X1000)



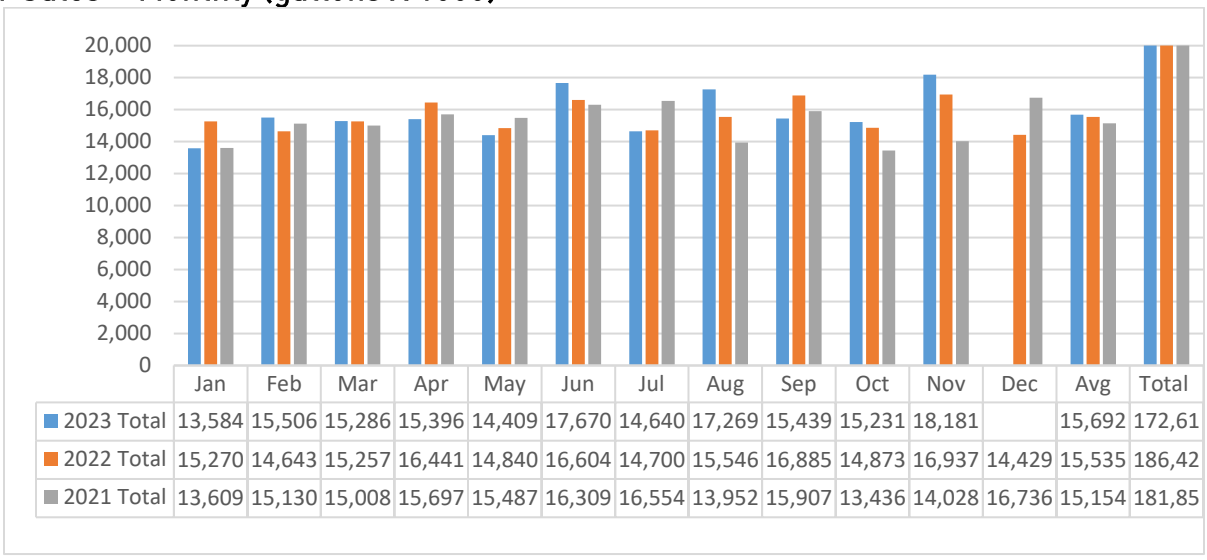
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	YTD
2023 Water Billed	233	264	258	266	241	278	241	276	261	256	289		260.3	2,863.
2023 Sewer Billed	365	406	468	405	383	521	388	446	472	401	467		429.2	4,721.
2023 Surcharge Billed	88.3	99	97	98	92.4	108	93.2	106	98.8	97.2	0		88.9	977.9
2023 Other Revenue	1	22.7	1.4	7.3	1.7	19.9	6.7	12.8	26.3	24	4.9		11.7	128.7
2023 Total Billed	687.1	791.7	824.4	776.3	718.1	926.9	728.9	840.8	858.1	778.2	760.9	0	724.3	8,691.
2022 Water Billed2	222.2	216.0	223.0	238.0	219.0	234.0	216.0	224.0	244.0	221.0	245.0	215.0	226.4	2,717.
2022 Sewer Billed3	354.3	342.0	420.0	377.0	345.0	444.0	343.0	359.0	452.0	346.0	387.0	404.0	381.1	4,573.
2022 Surcharge Billed4	85.2	82.7	85.4	91.1	83.7	90.4	82.5	86.2	93.2	84.1	93.4	81.7	86.6	1,039.
2022 Other Revenue5	1.7	0.4	28.1	11.1	9.3	13.4	10.3	27.2	2.7	9.5	11.1	24.1	12.4	148.9
2021 Total Billed6	663.3	641.1	756.5	717.2	657.0	781.8	651.8	696.4	791.9	660.6	736.5	724.8	706.6	8,478.

Water Sales - Monthly Consumption (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
Municipal Bulk	1,669	2,218	2,235	2,776	1,521	1,858	1,658	1,791	1,613	1,715	2,010			
Retail	15,791	18,601	17,894	18,336	16,590	20,040	16,579	19,897	18,461	17,904	20,934			
Total	17,460	20,819	20,129	21,112	18,111	21,898	18,237	21,688	20,074	19,619	22,944	0	0	222,09

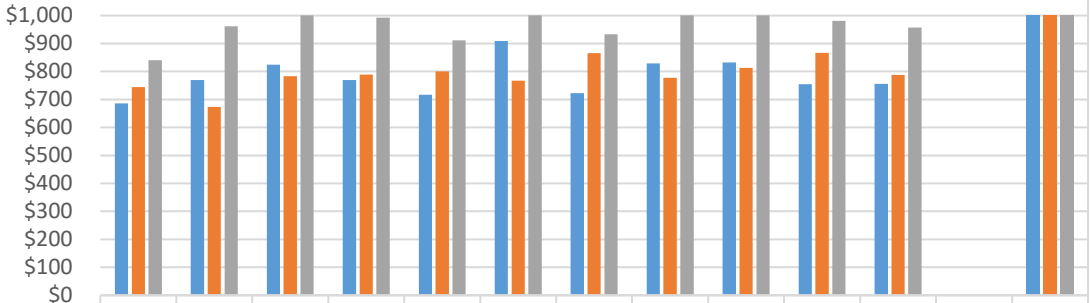
Sewer Sales – Monthly (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
2023 Total	13,584	15,506	15,286	15,396	14,409	17,670	14,640	17,269	15,439	15,231	18,181		15,692	172,61
2022 Total	15,270	14,643	15,257	16,441	14,840	16,604	14,700	15,546	16,885	14,873	16,937	14,429	15,535	186,42
2021 Total	13,609	15,130	15,008	15,697	15,487	16,309	16,554	13,952	15,907	13,436	14,028	16,736	15,154	181,85

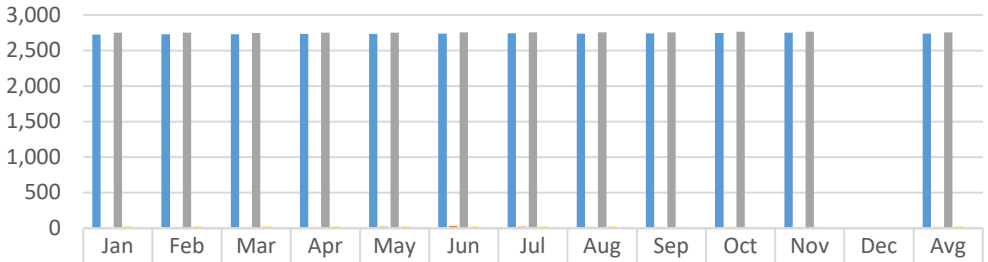
Collections (dollars X 1000)

Collections on payment for water and sewer services occurred during the current month and are displayed on the graph below.



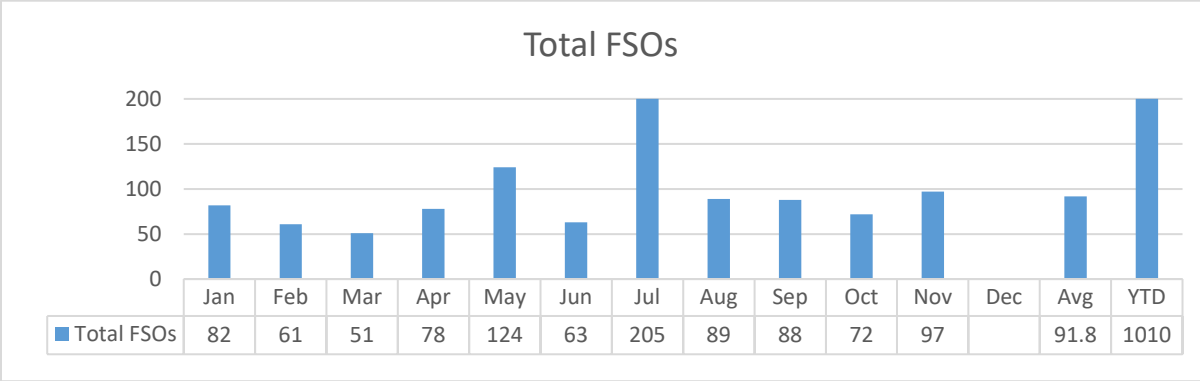
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Total Billed	686	770	824	769	717	909	723	829	832	755	756		8,570
Total Collected	744	674	783	789	801	767	866	777	813	867	788		8,669
AR	841	962	1,005	993	911	1,074	933	1,010	1,067	981	957		10,734

Accounts & Meters



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Active Accounts	2,723	2,730	2,730	2,731	2,734	2,739	2,741	2,737	2,742	2,748	2,751		2,737
Net New Accounts	9	11	10	18	22	30	21	17	19	19	16		17
Total MIUs	2,750	2,749	2,746	2,752	2,752	2,755	2,757	2,757	2,756	2,766	2,766		2,755
Inactive Meters	24	24	21	22	21	21	22	22	19	20	20		21
% Meter Re-reads	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%		1%

Field Service Requests



Service Disruptions

A summary of service disruptions is provided in the table below.

Service Disruptions Summary

Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Planned	0	0	0	0	0	0	0	0	0	1	0		0	0	0	1	1
Unplanned	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
2023 Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1

Water Quality

A summary of water quality complaints is provided in the table below.

Water Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Taste and Odor	0	0	0	0	0	0	0	0	1	0	0		0	0	1	0	1
Discolored	0	1	0	0	0	0	0	0	0	0	0		1	0	0	0	1
Boil Water Notices	0	0	0	0	0	0	0	0	0	1	0		0	0	0	1	1
2023	0	1	0	0	0	0	0	0	1	1	0	0	1	0	1	1	3

The discolored water call was in regard to the capital project.
The boil water advisory was issued when the contractor installing water mains in Woodland Hills connected a new main to an existing stick without a valve. The boil water advisory involved three houses.

Sewer and Collection Issues

A summary of complaints related the the sewer and collection system is provide in the table below.

Sewer Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Back-up / Blockage	0	1	0	0	0	0	0	1	1	0	0		1	0	2	0	3
Odor	0	0	0	0	0	0	0	0	1	0	0		1	0	1	0	1
2023 TOTAL	0	1	0	0	0	0	0	1	2	0	0	0	2	0	3	0	4
2022 TOTAL	0	0	0	0	0	0	0	4	2	1	2	1	0	0	6	4	10

Home Serve USA

Additional HomeServe data for the reporting period can be found in Appendix 3

Next Month Customer Service Priorities

Research and compare potential customer online bill payment options, customer portal and customer usage notifications.

Water Sales Test Period

Water Sales Test Period No. 3 1/1/2021 to 12/31/2023	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Avg
Total consumption for the month (gallons)	2021	16,984,200	19,701,800	19,964,700	20,521,000	20,409,700	20,950,100	20,557,500	17,545,400	20,495,500	17,656,500	18,017,900	21,191,200	233,995,500	19,499,625
	2022	19,111,100	18,317,500	19,119,800	20,815,300	18,711,600	20,471,200	18,402,600	19,375,800	21,509,300	18,966,600	21,567,400	18,383,200	234,751,400	19,562,617
	2023	17,461,300	20,818,600	20,129,700	21,111,400	18,112,100	21,898,200	18,237,100	21,688,400	20,073,100	19,618,800	22,944,600		222,093,300	20,190,300
Billing Period (days)	2021	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2022	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2023	31	28	31	30	31	30	31	31	30	31	30	31	365	30
Retail Sales - Total month (gallons)	2021	15,296,100	17,196,300	17,228,700	17,859,000	17,758,400	18,244,700	18,891,300	15,949,100	18,758,400	15,998,500	16,473,400	19,348,500	209,002,400	17,416,867
	2022	17,460,800	16,973,300	17,690,900	19,266,000	17,298,800	18,708,000	16,852,200	17,722,600	19,907,900	17,534,000	19,868,500	16,671,700	215,954,700	17,996,225
	2023	15,791,900	18,600,900	17,894,500	18,335,700	16,590,900	20,039,900	16,578,700	19,897,300	18,460,600	17,904,300	20,934,200		201,028,900	18,275,355
Retail Sales - Average Daily (gallons per day)	2021	493,423	614,154	555,765	595,300	572,852	608,157	609,397	514,487	625,280	516,081	549,113	624,145	6,878,152	573,179
	2022	563,252	606,189	570,674	642,200	558,026	623,600	543,619	571,697	663,597	565,613	662,283	537,797	7,108,547	592,379
	2023	509,416	664,318	577,242	611,190	535,190	667,997	534,797	641,848	615,353	577,558	697,807		6,632,716	602,974
Avg retail water sales (gal)		**522,030**	**628,220**	**567,894**	**616,230**	**555,356**	**633,251**	**562,604**	**576,011**	**634,743**	**553,084**	**636,401**	**580,971**	**6,873,138**	**589,511**
Bulk Municipal Sales - Total month (gallons)	2021	1,688,100	2,505,500	2,736,000	2,662,000	2,651,300	2,705,400	1,666,200	1,596,300	1,737,100	1,567,000	1,544,500	1,842,700	24,902,100	2,075,175
	2022	1,650,300	1,344,200	1,428,900	1,549,300	1,412,800	1,763,200	1,550,400	1,653,200	1,601,400	1,432,600	1,788,900	1,711,500	18,886,700	1,573,892
	2023	1,669,400	2,217,700	2,235,200	2,775,700	1,521,200	1,842,700	1,658,400	1,791,100	1,612,500	1,714,500	2,010,400		21,048,800	1,913,527
Bulk Municipal - Average Daily (gallons per day)	2021	54,455	89,482	88,258	88,733	85,526	90,180	53,748	51,494	57,903	50,548	51,483	59,442	821,253	68,438
	2022	53,235	48,007	46,094	51,643	45,574	58,773	50,013	53,329	53,380	46,213	59,630	55,210	621,102	51,758
	2023	53,852	79,204	72,103	92,523	49,071	61,423	53,497	57,777	53,750	55,306	67,013		695,520	63,229
Avg Bulk Customer sales (gal)		53,847	72,231	68,818	77,633	60,057	70,126	52,419	54,200	55,011	50,689	59,376	57,326	712,625	61,142

Contract Daily Bulk Water Sales Upper Limit (gal/day) = 62,970

Bulk Sales Surplus (gal/day) = No Surplus

Sum of Actual Average daily volume of Metered water sales to Retail Water Customers over Test period + Bulk Sales Surplus (gal/day) = 589,511

Contract Daily Water Sales Upper Limit (gal/day) = 639,340

Engineering and Capital Improvements

Capital improvement projects for the water and wastewater systems were developed for 2023 and presented in the draft Five-Year Capex Plan to the Concessionaire and Borough. The projects are divided into Base CAPEX projects and Major CAPEX projects. Careful consideration is given when awarding projects to ensure that experienced and responsible contractors that meet the Responsible Contractor Policy are selected.

Proposed Base Capex Projects

Capital Projects from the Base CAPEX are listed below:

- Water/Wastewater Performance Evaluation: As part of a contractual obligation, Veolia solicited HRG to provide professional engineering services to complete both the Water and Wastewater System Performance Evaluation.
- Well No. 3 Stripping Tower Rehabilitation Project: The project will entail the rehabilitation of the existing stripping tower, replacement of the media and the relocation of the blowers inside the building.
- ATAD & SNDR Reactors Instrumentation Replacement Project: The project will entail the procurement and installation of a new radar gauge, float switch with stainless steel bracket, and a new pressure transducer.
- Oxidation Ditch Instrumentation Replacement Project: The project will entail the procurement and installation of an ultrasonic level probe and a dissolved oxygen (D.O.) probe.
- Trench Opening Restoration Project: Project to perform roadway improvements based on the Borough's instructions and most recent roadway opening ordinance requirements.
- WWTP Electrical Upgrades: Project to perform improvements on the electrical system within the WWTP.
- Water and Wastewater Systems Miscellaneous Upgrades: Project to perform various water and wastewater systems upgrades based on condition assessment and routine inspections
- Safety Upgrades: Various environmental health and safety equipment replacement at the WWTP and well sites for safety compliance

Major CAPEX Projects

Major CAPEX projects will be planned and completed pursuant to the requirements of the Concession Agreement, and the AAA arbitration decision received in 2020. Note that in conjunction with the general requirements set forth in the Operating Standards (i.e. Schedule 4 of the Concession Agreement), the Concessionaire may implement Major Capex to meet emergency, health, safety and water quality requirements at its discretion, and in accordance with Good Engineering and Construction Practices. These projects, which the Concessionaire continues to study in conjunction with VEOLIA, include, but are not limited to, Storage tank repairs and maintenance, Outfall rehabilitation, Headwork's evaluation, Railroad interceptor modifications and maintenance cleaning, replacement of raw pumps, new disinfection system for wastewater effluent and any Supply/Distribution system improvements.

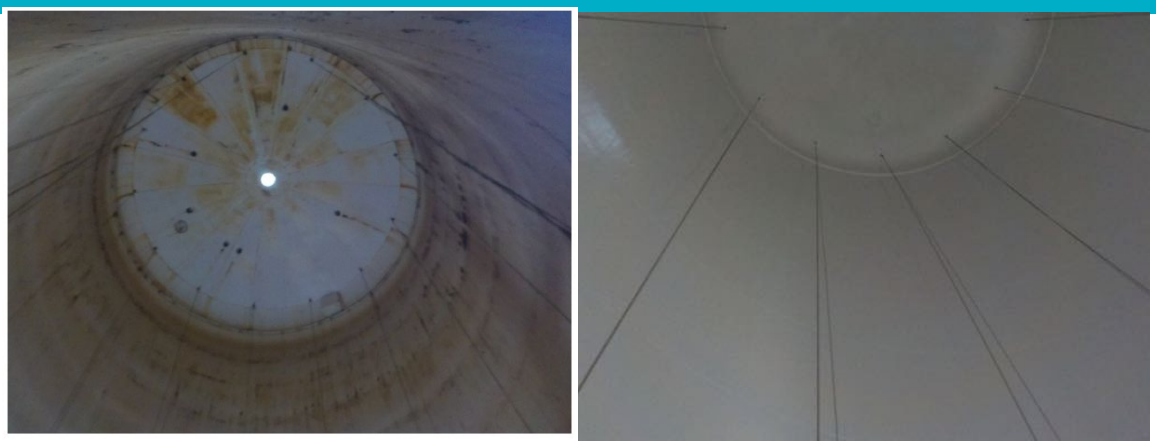
As previously included and pursuant to the dispute resolution process (and as addressed during the August 2020 Operations Committee meeting), the Concessionaire is planning on implementing CAPEX projects required for the overall system, including but not limited to replacement of water mains in accordance with a revised 5-year capital improvement plan. The "2019 Underground Infrastructure Upgrades" project is fully completed with approximately 2,800 LF of water main replaced as of May 2021 and the project has been closed out. The next project, "2017/2020 Underground Infrastructure Upgrades" involved the replacement of approximately 5,200 LF of critical water mains in the system in addition to the replacement of approximately 1,000 LF of sewer system and upgrades of deteriorating sewer manholes. All the PA DOT permitting was secured for this project. A pre-construction meeting was held with HRG and EK Services in May 2021. EK Services worked with the Borough to secure the local road opening permits for construction. Due to delays in manufacturing and shipping reported by EK Services and characterized as force majeure (in the context of the COVID-19 pandemic), the construction start date was in October 2021. Substantial completion of the project occurred in July 2022. Pictured below is a section of replaced main in the 2017/2020 project.

The current project scheduled is the "2018/2021 Underground Infrastructure Upgrades" which involves approximately 5,000 LF of water main replacement in addition to the replacement of 1,000 LF of sewer system and upgrades of deteriorating sewer manholes. Approximately, 4,000 LF of sewer mains were CCTV'ed for condition assessment and a presentation of the video footage and the analysis with recommendations were delivered at

the August 2021 Operating Committee meeting. The project design was completed in October 2021. The project was put out for bid and Wexcon was the apparent low bidder. Wexcon was awarded the project and HRG reviewed and approved the submittals. The project mobilized on January 26, 2023. The wastewater portion of the project was completed in May 2023, and remobilization for the water project occurred in September 2023. The remobilization consisted of the water main and service installation. Substantial completion is anticipated to occur in late 2023 weather dependent.

As previously discussed during the monthly operations meetings and included in the DRAFT Capital Improvement Plan submitted on March 12, 2020, The Concessionaire is planning the rehabilitation of the three (3) water storage tanks in the water system. The design documents were completed (by the Veolia Engineering Department) and the required PADEP Permitting application for the High Street Tank was secured as of July 2021 for the High Street Tank. The project was advertised for bid proposals in July 2021 and only 2 bid proposals were received. The project went out for rebid in October 2021 with a target start date in March 2022 and will be distributed to more potential vendors to receive competitive pricing. IK Stoltzfus was the apparent low bidder and awarded the project. The permits for the High Street tank, Union Street tank, and Turnpike Tank have been approved by PA DEP. The High Street tank project mobilized on September 12, 2022 was completed in December 2022, and the tank was returned to service in February 2023. The project involved blasting the interior and exterior of the tank and repainting. Photos of the project are included below which depict the interior and exterior before and after the High Street project. The Turnpike Tank rehabilitation mobilized on August 14, 2023. The blasting and painting concluded in October. The tank was filled, tested and returned to service authorized by PA DEP on November 14, 2023. Photos of the inside and outside of the Turnpike Tank are included below.

High Street tank exterior before and after blasting and painting.



High Street tank interior before and after interior blasting and painting.

Turnpike tank exterior before and after exterior blasting and painting.

Turnpike tank interior before and after interior blasting and painting.

Capital Improvement Plan

The following DRAFT Capital Improvement Plan was submitted on March 1, 2023.

SEWER COLLECTION, CONVEYANCE, & TREATMENT FACILITIES
DRAFT - 5 Year Capital Improvements Plan (2022-2027)
February 27, 2023

	2022 and 5 YEAR CAPITAL IMPROVEMENT PLAN					
BASE CAPITAL IMPROVEMENTS	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**
Headworks Wet Well Pump and Tank Rehabilitation Project			$ -			
Well No. 4 Rehabilitation Project	$ -	$ 45,000	$ -			$ -
Well No. 3 Stripping Tower Rehabilitation Project	$ -	$ -	$ -			
Well Upgrades (Pumps, controls, automation)	$ 122,000	$ 19,000	$ 35,000	$ 70,000	$ 70,000	
Ventilation of ATAD Building Project	$ -	$ 20,000	$ -			
Fire Alarm System Design Project	$ -	$ -	$ -			
Customer Service Upgrade Project	$ -	$ 10,000	$ -			
Blower Building Instrumentation Replacement Project			$ 10,000			
SCADA Upgrade Project	$ -	$ 35,000	$ 25,000			
WAS Storage Tank Instrumentation Replacement Project	$ -	$ -	$ 15,000			
Biofilter Instrumentation Replacement Project	$ -	$ -	$ -			
ATAD & SNDR Reactors Instrumentation Replacement Project	$ 14,500	$ 15,000	$ -			
Headworks Instrumentation Replacement Project	$ -	$ -	$ 27,000			
Biosolids Processing Instrumentation Replacement Project	$ -	$ -	$ -			
Oxidation Ditch Instrumentation Replacement Project	$ -	$ -	$ -			
Scum Pump Station Instrumentation Replacement Project	$ -	$ -	$ -			
WWTP Facilities Security Upgrades Project	$ -	$ 10,000	$ -	$ 30,000	$ 20,000	$ 20,000
Well Facilities Security Upgrades Project	$ -		$ -	$ -	$ 20,000	$ 20,000
Well Evaluation and Upgrades Project	$ -	$ -	$ -			
Trench Opening Restoration Project	$ 54,487	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000
Water and WWTP System Evaluations	$ 28,750	$ 28,750	$ 28,750	$ 30,000	$ 30,000	$ 30,000
WWTP Electrical Upgrades	$ -	$ -	$ 25,000	$ 25,000	$ 25,000	$ 25,000
WWTP Safety Compliance Project	$ -	$ -	$ 50,000			
Water and Wastewater Systems Miscellanous Upgrades	$ 170,000	$ 170,000	$ 150,000	$ 162,000	$ 160,000	$ 235,000
Safety Upgrades	$ -	$ -	$ -	$ 20,000	$ 20,000	$ 20,000
TOTAL BASE CAPITAL IMPROVEMENTS *	**$ 389,737**	**$ 402,750**	**$ 415,750**	**$ 387,000**	**$ 395,000**	**$ 400,000**
PROPOSED YEARLY BUDGET FOR BASE CAPITAL PROJECTS **	**$ 390,838**	**$ 414,679**	**$ 439,974**	**$ 466,813**	**$ 495,288**	**$ 525,501**

MAJOR CAPITAL IMPROVEMENTS	**2022 ***	**2023 ***	**2024 ***	**2025 ***	**2026 ***	**2027 ***
Underground Infrastructure Replacements (2024 - 2027)	$ -		$ 2,513,794	$ 2,513,794	$ 2,513,794	$ 2,513,794
Underground Infrastructure Replacements (2016)	$ -	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2017)	$ 938,241	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2018)	$ 205,019	$ 1,564,000	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2019) ***	$ -	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2020)	$ 938,241	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2021)	$ 205,019	$ 1,564,000	$ -	$ -	$ -	$ -
Spruce Street Sewer Relocation		$ 279,450				
Underground Infrastructure Replacements (2022)		$ 92,000	$ 2,195,000	$ -	$ -	$ -
Underground Infrastructure Replacements (2023)		$ 92,000	$ 2,302,090			
Water Storage Tank Rehabilitation - Union Street	$ -	$ 1,309,083		$ -	$ -	$ -
Water Storage Tank Rehabilitation - High Street	$ 912,742	$ -	$ -	$ -	$ -	$ -
Water Storage Tank Rehabilitation - Turnpike		$ 955,938				
Headworks Upgrade (bar screen, pump, wiring, etc.)		$ 876,300	$ -	$ -	$ -	$ -
Contingency (5%)		$ 174,973	$ 350,544	$ 125,690	$ 125,690	$ 125,690
TOTAL MAJOR PROJECTS	**$ 3,199,263**	**$ 6,907,743**	**$ 7,361,428**	**$ 2,639,484**	**$ 2,639,484**	**$ 2,639,484**

REGULATORY COMPLIANCE

WWTP Effluent Outfall Rehabilitation ****			$ 620,000			
TOTAL CAPEX	**$ 3,589,000**	**$ 7,322,422**	**$ 8,421,402**	**$ 3,106,296**	**$ 3,134,772**	**$ 3,164,985**

NOTES:
* All costs are in 2023
** Consumer Price Index rate of 6.1% (as of February 2023) is applied to the "Proposed Yearly Budget for Base Capital Projects" based on the Concessionaire Agreement
*** Final restoration related costs for project completion in 2021
**** Subject to PADEP direction and regulations (Cost estimate in 2023 dollars)

Environment, Health & Safety

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Environmental Incidents – Regulatory (PADEP/USEPA) notifications	0	0	0	0	0	0	0	0	0	1	0		1
Concessionaire Notifications	0	0	0	0	0	0	0	0	0	0	0		0
Incident Email Notifications	0	0	0	0	0	0	0	0	0	0	0		0
Environmental Incidents –Hotline notifications	0	0	0	0	0	0	0	0	0	0	0		0
Environmental Incidents –Hotline notifications/chemical spills	0	0	0	0	0	0	0	0	0	0	0		0
Non-compliance – violations	0	0	0	0	0	0	0	0	0	0	0		0
Reporting non-compliance	0	0	0	0	0	0	0	0	0	0	0		0
Safety related incidents – OSHA lost time	0	0	0	0	0	0	0	0	0	0	0		0
Total days lost	0	0	0	0	0	0	0	0	0	0	0		0
Safety related incidents – Preventable	0	0	0	0	0	0	0	0	0	0	0		0
Safety related – Near Miss	0	0	0	0	0	0	0	0	0	0	0		0
Employee lost-time – not job-related – total as sick hours	34	77	4	17	48	16	8	8	4	29	74		312

On Target	Caution	Meets/Exceeds Target

Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
717-948-3055

December 31, 2023

Mr. Kenneth Klinepeter
Borough of Middletown
kklinepeter@middletownborough.com

Mr. Dan Sugarman
Water Capital Partners LLC
dan.sugarman@wcpartnersllc.com

Mr. John Joyner
Water Capital Partners LLC
john.joyner@wcpartnersllc.com

Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Laboratory Supervisor Certification – November 2023

Pursuant to Section 6.3 - Quality Control Reporting of the Operating Standards:

"I hereby certify that the analytical results reported in this NPDES Discharge Monitoring Report were obtained from analyses performed in accordance with the methods approved under 40 CFR 136, and that the appropriate quality control measures contained in the approved Quality Manual were strictly followed."

Kodi Webb
Project Manager
Veolia Middletown

Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
717-948-3055

December 31, 2023

Mr. Kenneth Klinepeter
Borough of Middletown
kklinepeter@middletownborough.com

Mr. Dan Sugarman
Water Capital Partners LLC
dan.sugarman@wcpartnersllc.com

Mr. John Joyner
Water Capital Partners LLC
john.joyner@wcpartnersllc.com

Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Environmental Laws Certification- November 2023

Pursuant to Section 7.1(c) (iii) - Violations and Reports of the Operating and Maintenance Agreement:

"I hereby certify that, to the best of my knowledge, the Water and Wastewater systems were operated in accordance with existing permits and Local, State and Federal environmental laws."

Kodi Webb

Kodi Webb
Project Manager
Veolia Middletown

APPENDIX 1

WASTEWATER

MIDDLETOWN WWTP

MONTHLY DISCHARGE MONITORING REPORT (eDMR) SUBMISSION

SUPPLEMENTAL WWTP PROCESS CONTROL & OPERATIONAL DATA

&

SMARTCOVER® MONITORING SYSTEM REPORT

Webb, Kodi <kodi.webb@veolia.com>

Your eDMR Report Has Been Received For Permit No. PA0020664

1 message

depgreenporthelpdesk@state.pa.us <depgreenporthelpdesk@state.pa.us> Thu, Dec 21, 2023 at 4:53 PM
To: kodi.webb@veolia.com, mitchell.swartz@suez-na.com, jesse.randles@suez.com, michael.barger@veolia.com, glank@penntwp.com

This email is to confirm that the following report was received by DEP through the eDMR system:

Facility Name: MIDDLETOWN STP
Permit Number: PA0020664
Report Frequency: Monthly
Report Type: DMR
Reporting Period: 11/01/2023-11/30/2023
Report Due Date: 12/28/2023

Submitted By: Kodi Webb
Submission Id: 429893
Submission Status: Received
Submission Type: Original
To view the details of this report, access the eDMR system through DEP's GreenPort and select the link for View/Revise Submitted.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: **MIDDLETOWN WATER JT VENTURE LLC**
ADDRESS: **9W 57TH ST STE 4200, NEW YORK NY, 10019**
FACILITY: **MIDDLETOWN STP**
LOCATION: **453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132**
STAGE: **Final Effluent**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	**2023**	**11**	**01**	TO	**2023**	**11**	**30**

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2023**
DMR Effective To: **11/30/2023**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	7.95	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.5	***	7.8	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	< 19	24	lbs/day	***	< 2.0	3.0	mg/L	2/week	24-Hr Composite
	Permit Requirement	550 Avg Mo	826 Wkly Avg		***	30.0 Avg Mo	45.0 Wkly Avg		2/week	24-Hr Composite
Total Nitrogen (00600)	Sample Measurement	***	***	***	***	5.46	***	mg/L	1/month	Calculation
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	.68	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	1.21	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Nitrate-Nitrite as N (00630)	Sample Measurement	***	***	***	***	4.25	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	.90	***	lbs/day	***	.10	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	37 Avg Mo	***		***	2.0 Avg Mo	***		2/week	24-Hr Composite
Flow (50050)	Sample Measurement	1.036	2.476	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.2	.44	mg/L	1/day	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	1754.5	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	184.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	354.2	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	1400.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	27.4	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	< 8.0	440	No./100 ml	2/week	Grab
	Permit Requirement	***	***		***	2000 Geo Mean	10000 IMAX		2/week	Grab

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	< 23	< 39	lbs/day	***	< 2.0	< 3.0	mg/L	2/week	24-Hr Composite
	Permit Requirement	459 Avg Mo	734 Wkly Avg		***	25.0 Avg Mo	40.0 Wkly Avg		2/week	24-Hr Composite
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: **MIDDLETOWN WATER JT VENTURE LLC**
ADDRESS: **9W 57TH ST STE 4200, NEW YORK NY, 10019**
FACILITY: **MIDDLETOWN STP**
LOCATION: **453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132**
STAGE: **Effluent Net**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	**2023**	**11**	**01**	TO	**2023**	**11**	**30**

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2023**
DMR Effective To: **11/30/2023**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	1754.5	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	27.4	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: **MIDDLETOWN WATER JT VENTURE LLC**
ADDRESS: **9W 57TH ST STE 4200, NEW YORK NY, 10019**
FACILITY: **MIDDLETOWN STP**
LOCATION: **453 S LAWRENCE ST, MIDDLETOWN PA, 17057-1132**
STAGE: **Raw Sewage Influent**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	**2023**	**11**	**01**	TO	**2023**	**11**	**30**

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2023**
DMR Effective To: **11/30/2023**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	Sample Measurement	2057	6050	lbs/day	***	197	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Suspended Solids (00530)	Sample Measurement	1787	5493	lbs/day	***	167	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
2024 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2023-12-15T13:22:48-05:00	Nov Chesapeake bay
11-23 Influent Supplemental.xls	Influent and Process Control Form	2023-12-15T13:22:19-05:00	Nov influent supplemental
11-23 Biosolids.xls	Sewage Sludge / Biosolids Production and Disposal Form	2023-12-21T16:52:50-05:00	
11-23 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2023-12-15T13:21:30-05:00	Nov effluent supplemental

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Kodi Webb	23501	(717)-388-1759

SUBMISSION INFORMATION

*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	**Kodi Webb**	TELEPHONE		DATE		
		(717)	**209-2736**	**2023**	**12**	**21**
	SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

3800-FM-BCW0436 3/2012

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: **Middletown STP**
Municipality: **Middletown Borough** County: **Dauphin**
Watershed: **7-C**

Month: **July** Year: **2023**
NPDES Permit No.: **PA0020664**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **February 28, 2026**

	Influent					Process Control				
Day	Flow (MGD)	BOD_5 (mg/l)	BOD_5 (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	0.966					4,490.0		18,000.0		
2	0.961					4,720.0		18,000.0		
3	0.960					4,660.0		18,000.0		
4	0.935							18,000.0		
5	0.953							18,000.0		
6	0.943	212.0	1,667	168.0	1,321	4,696.0		18,000.0		
7	0.927	188.0	1,453	138.0	1,067	4,756.0		17,000.0		
8	0.954					4,755.0		16,000.0		
9	0.944					4,567.0		15,000.0		
10	0.921					4,811.0		17,000.0		
11	0.905							17,000.0		
12	0.942							17,000.0		
13	0.981	185.0	1,514	160.0	1,309	4,767.0		20,000.0		
14	0.891	193.0	1,434	160.0	1,189	4,503.0		20,000.0		
15	0.934					4,385.0		15,000.0		
16	0.910					4,264.0		16,500.0		
17	0.930					4,294.0		15,000.0		
18	0.864							15,000.0		
19	0.887							15,000.0		
20	0.928	247.0	1,912	172.0	1,331	4,514.0		15,000.0		
21	2.476	293.0	6,050	266.0	5,493	4,198.0		10,000.0		
22	1.485					2,591.0		12,000.0		
23	1.041							18,000.0		
24	0.954							18,000.0		
25	0.965							18,000.0		
26	1.156							18,000.0		
27	1.161	132.0	1,278	158.0	1,530	5,262.0		18,000.0		
28	1.093	126.0	1,149	116.0	1,057	5,266.0		19,000.0		
29	1.083					5,573.0		20,000.0		
30	1.017					5,400.0		22,000.0		
31										
Avg	**1.036**	**197**	**2,057**	**167**	**1,787**	**4,624**		**17,050**		
Max	**2.476**	**293**	**6,050**	**266**	**5,493**	**5,573**		**22,000**		

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **12/14/2023**

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

3800-FM-BCW0435 3/2012

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

Facility Name: **Middletown STP**
Municipality: **Middletown Borough** County: **Dauphin**
Watershed: **7-C**
Laboratories: **M. J. Reider/ Veolia Middletown**

Month: **11** (select number) Year: **2023**
Permit No.: **PA0020664** Outfall: **001**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **February 28, 2026**

		Parameter	Flow		pH		Dissolved Oxygen		TRC		NH3-N		CBOD5		Total Phosphorus		TSS		Fecal Coliform													
		Stage	1		1		1		1		1		1		1		1		1													
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	CFU/100 ml	Q		Q		Q		Q		Q		Q		Q	
1	Sun	10/29/23																														
	Mon	10/30/23																														
	Tue	10/31/23																														
	Wed	11/1/23	0.966		7.7		8.22		0.16										96.0													
	Thu	11/2/23	0.961		7.6		8.34		0.44																							
	Fri	11/3/23	0.96		7.7		8.38		0.14																							
	Sat	11/4/23	0.935		7.5		8.35		0.14																							
2	Sun	11/5/23	0.953		7.7		8.12		0.29																							
	Mon	11/6/23	0.943		7.6		8.21		0.27		0.64	<	2.0		0.13		5.0															
	Tue	11/7/23	0.927		7.6		7.97		0.36		0.39	<	2.0		0.1		1.0	<	2.0													
	Wed	11/8/23	0.954		7.7		8.29		0.24									<	2.0													
	Thu	11/9/23	0.944		7.6		8.01		0.3																							
	Fri	11/10/23	0.921		7.6		8.03		0.3																							
	Sat	11/11/23	0.905		7.6		8.41		0.21																							
3	Sun	11/12/23	0.942		7.7		8.55		0.19																							
	Mon	11/13/23	0.981		7.6		8.61		0.2		0.83	<	2.0		0.1		4.0															
	Tue	11/14/23	0.891		7.6		8.21		0.24		0.4		2.4		0.1	<	1.0	<	2.0													
	Wed	11/15/23	0.934		7.7		8.32		0.21									<	2.0													
	Thu	11/16/23	0.91		7.7		7.99		0.3																							
	Fri	11/17/23	0.93		7.7		8.34		0.19																							
	Sat	11/18/23	0.864		7.7		7.95		0.25																							
4	Sun	11/19/23	0.887		7.7		7.95		0.33																							
	Mon	11/20/23	0.928		7.7		8.38		0.1		0.12	<	2.0		0.1		2.0															
	Tue	11/21/23	2.476		7.6		8.85		0.1		0.21		3.0		0.09		1.0		60.0													
	Wed	11/22/23	1.485		7.6		8.85		0.1										440.0													
	Thu	11/23/23	1.041		7.6		8.73		0.11																							
	Fri	11/24/23	0.954		7.7		8.74		0.22																							
	Sat	11/25/23	0.965		7.8		9.02		0.14																							
5	Sun	11/26/23	1.156		7.7		8.75		0.36																							
	Mon	11/27/23	1.161		7.7		8.27		0.29		0.81	<	2.0		0.08	<	1.0															
	Tue	11/28/23	1.093		7.7		8.78		0.21		2.0	<	2.0		0.06		2.0	<	2.0													
	Wed	11/29/23	1.083		7.7		8.72		0.36									<	2.0													
	Thu	11/30/23	1.017		7.7		8.6		0.25																							
	Fri	12/1/23																														
	Sat	12/2/23																														
Statistics for DMR																																
Daily Minimum (Conc.):					**7.5**		**7.95**		**0.1**		**0.12**	<	**2**		**0.06**	<	**1**	<	**2**													
Daily Maximum (Conc):					**7.8**		**9.02**		**0.44**		**2**		**3**		**0.13**		**5**		**440**													
Max Avg Weekly (Conc.):							**8.65**		**0.3**		**1.41**	<	**3**		**0**		**3**															
Avg Monthly (Conc.):							**8.4**		**0.2**		**0.68**	<	**2**		**0.1**	<	**2**															
Geometric Mean (Conc.):																		<	**8**													
Max Avg Weekly (Load):			**1.248**				**91**		**3**		**13**	<	**39**		**1**		**24**															
Avg Monthly (Load):			**1.036**				**73**		**2**		**6**	<	**23**		**0.9**	<	**19**															
Total Monthly (Load):			**31.067**				**2186**		**58**		**184**	<	**677**		**27**	<	**567**															
Daily Minimum (Load):			**0.864**				**57**		**0.8**		**0.9**	<	**15**		**0.5**	<	**7**															
Daily Maximum (Load):			**2.476**				**183**		**4**		**18**		**62**		**2**		**39**															

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Kodi Webb License No.: **23501**
Title: Project Manager Date: **12/14/2023**

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT MONITORING

☑ Continuous Discharge

Facility Name: **Middletown STP**
Municipality: **Middletown Borough** County: **Dauphin**
Watershed: **7-C**
TN Cap Load (lbs): **40,182**
TN Delivery Ratio: **0.837**

◉ Sewage ○ Industrial Waste

Compliance Year: **2024** Outfall: **001**
NPDES Permit No.: **PA0020664**
This permit will expire on: **February 28, 2026**
TP Cap Load (lbs): **5,358**
TP Delivery Ratio: **0.503**

	FLOW	Total Phosporus (TP)				NH_3-N				TKN				NO_2+NO_3 as N				Total Nitrogen (TN)			
Sample Date	MGD	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day
10/1/23	0.980																				
10/2/23	0.527		1.1		4.8		2.73		12.0		3.36		14.8		1.55		6.8		4.91		21.6
10/3/23	0.851		0.34		2.4		1.6		11.4		2.04		14.5		6.73		47.8		8.77		62.2
10/4/23	1.502																				
10/5/23	0.945																				
10/6/23	0.981																				
10/7/23	1.091																				
10/8/23	1.006																				
10/9/23	0.999		0.1		0.8		1.8		15.0		2.3		19.2	<	1.38	<	11.5	<	3.68	<	30.7
10/10/23	1.002		0.09		0.8		1.24		10.4		1.55		13.0		1.78		14.9		3.33		27.8
10/11/23	0.972																				
10/12/23	0.951																				
10/13/23	0.893																				
10/14/23	1.782																				
10/15/23	1.322																				
10/16/23	1.088		0.41		3.7		0.66		6.0		1.16		10.5		5.31		48.2		6.47		58.7
10/17/23	1.021		0.09		0.8		0.32		2.7		0.75		6.4		2.31		19.7		3.06		26.1
10/18/23	1.010																				
10/19/23	1.042																				
10/20/23	1.067																				
10/21/23	0.982																				
10/22/23	0.995																				
10/23/23	0.979		0.08		0.7		0.61		5.0		0.56		4.6		1.63		13.3		2.24		18.3
10/24/23	0.994		0.07		0.6		0.09		0.7		0.65		5.4		3.34		27.7		3.99		33.1
10/25/23	0.969																				
10/26/23	0.939																				
10/27/23	0.953																				
10/28/23	0.886																				
10/29/23	1.022																				
10/30/23	1.154		0.08		0.8		0.52		5.0		1.12		10.8		3.04		29.3		4.16		40.0
10/31/23	0.966		0.06		0.5		0.04		0.3		0.64		5.2		3.49		28.1		4.13		33.3
11/1/23	0.966																				
11/2/23	0.961																				
11/3/23	0.960																				
11/4/23	0.935																				
11/5/23	0.953																				
11/6/23	0.943		0.13		1.0		0.64		5.0		1.1		8.5		2.0		15.9		3.10		24.4
11/7/23	0.927		0.10		0.8		0.39		3.0		0.7		5.2		2.9		22.3		3.56		27.5
11/8/23	0.954																				
11/9/23	0.944																				
11/10/23	0.921																				
11/11/23	0.905																				
11/12/23	0.942																				
11/13/23	0.981		0.10		0.8		0.83		6.8		1.2		9.8		4.2		34.5		5.42		44.3

11/14/23	0.891		0.10		0.7		0.40		3.0		1.2		8.5		4.1		30.4		5.24		38.9
11/15/23	0.934																				
11/16/23	0.910																				
11/17/23	0.930																				
11/18/23	0.864																				
11/19/23	0.887																				
11/20/23	0.928		0.10		0.8		0.12		0.9		0.5		4.0		5.5		42.7		6.04		46.7
11/21/23	2.476		0.09		1.9		0.21		4.3		1.0		20.0		7.6		156.1		8.53		176.1
11/22/23	1.485																				
11/23/23	1.041																				
11/24/23	0.954																				
11/25/23	0.965																				
11/26/23	1.156																				
11/27/23	1.161		0.08		0.8		0.81		7.8		1.6		15.1		2.8		27.5		4.40		42.6
11/28/23	1.093		0.06		0.5		2.00		18.2		2.6		23.2		4.8		43.9		7.37		67.2
11/29/23	1.083																				
11/30/23	1.017																				
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Avg	**1.032**		**0.18**		**1.3**		**0.83**		**6.5**		**1.32**		**11**	**<**	**3.58**	**<**	**34.5**	**<**	**4.91**	**<**	**45.5**
Annual Total Mass Loads (lbs):					**469**				**2385**				**4027**			**<**	**12584**			**<**	**16620**

P Credits Generated: **950** **N Credits Generated:** **1989**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **12/14/2023**

Monthly Statistics

Monthly Total Mass Loads (lbs)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	49	212.3	322.9	< 766.2	< 1090.4
November	27.4	184.3	354.2	1400.3	1754.5
December					

Average Monthly Concentrations (mg/L)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	0.24	0.96	1.41	< 3.06	< 4.47
November	0.1	0.68	1.21	4.25	5.46
December					
January					
February					
March					
April					
May					
June					
July					
August					
September					

3800-FM-BCW0438 3/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: **Middletown STP**
Municipality: **Middletown Borough** County: **Dauphin**
Watershed: **7-C**

Month: **November** Year: **2023**
NPDES Permit No.: **PA0020664**
Renewal application due **180 days** prior to expiration
This permit will expire on: **February 28, 2026**

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

☐ Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids Hauled Off-site			Dewatered Sewage Sludge/Biosolids Hauled Off-site			Sewage Sludge/Biosolids Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
11/3/23				8.31	32.14	**2.67**			
11/14/23				8.92	30.13	**2.69**			
11/16/23				10.30	28.73	**2.96**			
TOTAL:				**TOTAL:**		**8.318**	**TOTAL:**		

SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION
(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	**Marvin Weaver Cedar Rd Farm**			
Municipality	Conewago Township			
County	Dauphin			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	8.32			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

* See Instructions for explanation.

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **December 21, 2023**

VEOLIA Middletown WWTP

November, 2023

DATE	EFF FLOW MGD	M.J. Reider Composite Sample Test Results																				
		BOD		CBOD		%Remova	SUSPENDED SOLIDS				%Remova	TP		FEC.	NH3		NO2-NO3		TKN		TN	
		INFLUENT		EFFLUENT			INFLUENT		EFFLUENT			EFFLUENT		COLIF.	EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT	
		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	/100ml	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.
01	0.966													96								
02	0.961																					
03	0.960																					
04	0.935																					
05	0.953																					
06	0.943	212	1,668	<2.0	<15.73	99.1	168	1,322	5.0	39.33	97.0	0.13	1.02		0.64	5.03	2.0	15.89	1.1	8.50	3.10	24.4
07	0.927	188	1,454	<2.0	<15.47	98.9	138	1,067	1.0	7.73	99.3	0.10	0.77	<2	0.39	3.02	2.9	22.35	0.7	5.18	3.56	27.5
08	0.954													<2								
09	0.944																					
10	0.921																					
11	0.905																					
12	0.942																					
13	0.981	185	1,514	<2.0	<16.36	98.9	160	1,309	4.0	32.73	97.5	0.10	0.82		0.83	6.79	4.2	34.53	1.2	9.82	5.42	44.3
14	0.891	193	1,434	2.4	17.83	98.8	160	1,189	<1.0	7.43	99.4	0.10	0.74	<2	0.40	2.97	4.1	30.39	1.2	8.54	5.24	38.9
15	0.934													<2								
16	0.910																					
17	0.930																					
18	0.864																					
19	0.887																					
20	0.928	247	1,912	<2.0	<15.48	99.2	172	1,332	2.0	15.48	98.8	0.10	0.77		0.12	0.93	5.5	42.73	0.5	4.03	6.04	46.8
21	2.476	293	6,051	3.0	61.96	99.0	266	5,493	1.0	20.65	99.6	0.09	1.86	60	0.21	4.34	7.6	156.13	1.0	20.03	8.53	176.2
22	1.485													440								
23	1.041																					
24	0.954																					
25	0.965																					
26	1.156																					
27	1.161	132	1,278	<2.0	<19.37	98.5	158	1,530	<1.0	9.68	99.4	0.08	0.77		0.81	7.84	2.8	27.50	1.6	15.10	4.40	42.6
28	1.093	126	1,148	<2.0	<18.23	98.4	116	1,057	2.0	18.23	98.3	0.06	0.55	<2	2.00	18.23	4.8	43.93	2.6	23.24	7.37	67.2
29	1.083													<2								
30	1.018																					

EVISED 9/18/15 M

VEOLIA Middletown WWTP

Daily Effluent Grab Monitoring / Weather

November 2023

Date	Operator Initials	Effluent Grab Sample Time		pH		RPD	Dissolved Oxygen (mg/L)		RPD	Total Residual Chlorine (mg/L)		RPD	Temp.	Influent COD	Comments
		Start	Finish	#1	#2	%	#1	#2	%	#1	#2	%	C	mg/L	
01	MB	0853	0853	7.70	7.70	0.00	8.22	8.28	-0.73	0.16	.16	.00	18.9	586.00	
02	AB	0910	0910	7.60	7.60	0.00	8.34	8.31	0.36	0.44	.45	-2.25	19.5	595.00	
03	MB	0931	0931	7.70	7.70	0.00	8.38	8.41	-0.36	0.14	.19	-30.30	19.2	476.00	
04	AB	1400	1400	7.50	7.60	-1.32	8.35	8.40	-0.60	0.14	.14	.00	19.6		
05	TH	0920	0920	7.70	7.70	0.00	8.12	8.11	0.12	0.29	.31	-6.67	19.6		
06	MB	1003	1003	7.60	7.70	-1.31	8.21	8.20	0.12	0.27	.27	.00	19.6	691.00	
07	MB	0851	0851	7.60	7.70	-1.31	7.97	7.99	-0.25	0.36	.33	8.70	19.9	713.00	
08	MB	1002	1002	7.70	7.70	0.00	8.29	8.31	-0.24	0.24	.24	.00	19.8	618.00	
09	MB	1046	1046	7.60	7.70	-1.31	8.01	8.05	-0.50	0.30	.29	3.39	19.8	556.00	
10	MB	1011	1011	7.60	7.60	0.00	8.03	8.05	-0.25	0.30	.28	6.90	19.8	668.00	
11	AB	1300	1300	7.60	7.60	0.00	8.41	8.42	-0.12	0.21	.22	-4.65	20.1		
12	MB	1155	1155	7.70	7.60	1.31	8.55	8.53	0.23	0.19	.19	.00	19.1		
13	MB	1056	1056	7.60	7.70	-1.31	8.61	8.58	0.35	0.20	.24	-18.18	18.3	1048.00	
14	MB	1002	1002	7.60	7.60	0.00	8.21	8.19	0.24	0.24	.21	13.33	18.6	583.00	
15	MB	0939	0939	7.70	7.70	0.00	8.32	8.33	-0.12	0.21	.19	10.00	18.9	610.00	
16	MB	1006	1006	7.70	7.70	0.00	7.99	8.01	-0.25	0.30	.25	18.18	19.8	610.00	
17	MB	1023	1023	7.70	7.70	0.00	8.34	8.29	0.60	0.19	.18	5.41	18.8	659.00	
18	TH	0905	0905	7.70	7.70	0.00	7.95	7.90	0.63	0.25	.26	-3.92	19.0		
19	MB	0721	0721	7.70	7.70	0.00	7.95	7.94	0.13	0.33	.31	6.25	18.9		
20	MB	1011	1011	7.70	7.70	0.00	8.38	8.42	-0.48	0.10	.10	.00	18.2		
21	MB	0818	0818	7.60	7.60	0.00	8.85	8.84	0.11	0.10	.11	-9.52	16.8		
22	MB	0818	0818	7.60	7.60	0.00	8.85	8.84	0.11	0.10	.11	-9.52	16.8		
23	TH	0915	0915	7.60	7.60	0.00	8.73	8.71	0.23	0.11	.12	-8.70	16.8		
24	TH	0950	0950	7.70	7.70	0.00	8.74	8.74	0.00	0.22	.22	.00	17.8		
25	MB	1425	1425	7.80	7.80	0.00	9.02	9.03	-0.11	0.14	.14	.00	16.8		
26	MB	0823	0823	7.70	7.70	0.00	8.75	8.73	0.23	0.36	.37	-2.74	16.1		
27	MB	0811	0811	7.70	7.70	0.00	8.27	8.26	0.12	0.29	.31	-6.67	17.6	467.00	
28	MB	1006	1006	7.70	7.70	0.00	8.78	8.76	0.23	0.21	.23	-9.09	15.7	423.00	
29	MB	0903	0903	7.70	7.70	0.00	8.72	8.70	0.23	0.36	.37	-2.74	14.8	571.00	
30	MB	1117	1117	7.70	7.70	0.00	8.60	8.62	-0.23	0.25	.26	-3.92	16.4	383.00	

VEOLIA Middletown WWTP

Process Control

November 2023

DAY	DITCH				RAS	WASTE			RR	F/M	SETTLING TEST			BLANKETS	
	TS		VS		TS	Gallons	Lbs	SRT			MINUTES		SVI	C1	C2
	mg/L	lbs	mg/L	%	mg/L			Days			5	30		AM	AM
01	4,490	27,336	3,133	69.8	8,230	18,000	1,235	15.44	4.58	0.11	970	590	131	36	30
02	4,720	28,737	3,183	67.4	9,460	18,000	1,420	13.65	4.20	0.11	950	610	129	26	24
03	4,660	28,371	3,177	68.2	8,488	18,000	1,274	15.18	4.51	0.09	950	630	135	36	27
04						18,000								26	24
05						18,000									
06	4,696	28,592	3,197	68.1	9,319	18,000	1,399	13.92	5.29	0.14	920	590	126	40	12
07	4,756	28,955	3,309	69.6	8,578	17,000	1,216	16.56	5.19	0.13	940	600	126	48	24
08	4,755	28,947	3,338	70.2	8,336	16,000	1,112	18.27	5.27	0.11	940	630	132	48	24
09	4,567	27,806	3,114	68.2	9,130	15,000	1,142	16.60	4.97	0.10	940	640	140	30	22
10	4,811	29,292	3,421	71.1	8,627	17,000	1,223	17.03	4.77	0.11	930	620	129	48	24
11						17,000								34	50
12						17,000								24	36
13	4,767	29,024	3,347	70.2	9,082	20,000	1,515	13.45	4.68	0.18	940	610	128	52	36
14	4,503	27,418	3,081	68.4	8,310	20,000	1,386	18.05	4.97	0.11	930	610	135	50	36
15	4,385	26,697	3,059	69.8	8,113	15,000	1,015	18.35	4.55	0.11	940	620	141	40	30
16	4,264	25,957	3,045	71.4	7,133	16,500	982	18.89	5.02	0.12	920	580	136		
17	4,294	26,144	2,938	68.4	9,556	15,000	1,195	14.96	5.49	0.13	940	580	135	37	28
18						15,000									
19						15,000								54	42
20	4,514	27,485	3,110	68.9	7,793	15,000	975		5.38		940	600	133	49	40
21	4,198	25,556	2,878	68.6	8,082	10,000	674		4.90		940	560	133	72	38
22	2,591	15,777	1,762	68.0	9,610	12,000	962				450	240	93	84	36
23						18,000									
24						18,000									
25						18,000								24	36
26						18,000								26	26
27	5,262	32,053	3,761	71.5	8,747	18,000	1,313	17.44	4.74		960	770	146	37	26
28	5,266	32,062	3,862	73.3	9,558	19,000	1,515	15.52	4.38		960	770	146	36	24
29	5,573	33,932	4,150	74.5	9,068	20,000	1,513	16.71	4.02		980	790	142	36	38
30	5,400	32,878	3,812	70.6	8,958	22,000	1,644	14.12	4.44		990	800	148	36	30
AVG	4,624	28,151	3,234	69.8	8,709	17,050	1,236	16.1	4.81	0.12	922	622	133	41	31

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

November 2023

DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01								
02								
03	3.50	46,090	0.96	3,690	8,415	4.46	3,130	4
04								
05								
06								
07	4.00	57,002	0.99	4,706	10,098	3.56	2,998	5
08								
09	1.50	26,138	0.89	1,940	6,732	4.59	2,577	2
10								
11								
12								
13	7.50	76,908	0.98	6,286	13,464	3.79	4,256	5
14								
15								
16								
17	6.50	67,206	1.07	5,997	15,147	3.82	4,826	8
18								
19								
20	4.50	53,387	0.98	4,363	8,415	4.14	2,905	6
21								
22	5.00	71,287	0.93	5,529	10,098	3.56	2,998	13
23								
24								
25								
26								
27	4.00	37,016	0.96	2,964	6,732	4.64	2,605	5
28	6.00	60,436	0.82	4,133	10,098	4.89	4,118	14
29	6.00	75,573	0.89	5,609	8,415	4.48	3,144	13
30								
TOTAL	49	571,043	9.47	45,217	97,614	41.93	33,557	75

REVISED 7/17/14

Veolia Middletown WWTP

November 2023

ATAD TIME and TEMPERATURE

Date	Operator	Thickener					ATAD Level			ATAD Feed			ATAD				ATAD to SNDR			
		End of feed		Disch. (ATAD Feed)			After						End of feed		Minimum			Start		
		Temp.	Feed	TS	VS	VS	Start	Trans.	Feed	Gallons	TS	VS	Avg Temp. Since	Time	Till Transfer		Date	Time	Temp.	Gallons
		° F	Gals.	mg/L	mg/L	%	Ft	Ft	Ft		Lbs.	Lbs.	°F	24 HR	Hours	Date/Time			° F	
11/01/23																				
11/02/23							9.2	8.0	8.0								11/2/23	8:00	135.1	19,200
11/03/23	AB	131.7	46,090	44,595	33,446	75.0	8.0	8.0	8.5	8,415	3,130	2,347	131.7	11:00	21.2	11/4/23 8:09				
11/04/23																				
11/05/23							8.5	8.0	8.0								11/5/23	8:00	133.8	8,000
11/06/23																				
11/07/23	AB	129.5	57,002	35,578	26,659	74.9	8.0	8.0	8.6	10,098	2,996	2,245	129.5	11:30	31.4	11/8/23 18:51				
11/08/23																				
11/09/23	AB	131.0	26,138	45,855	37,345	81.4	8.6	8.6	9.0	6,732	2,575	2,097	131.0	10:30	24.0	11/10/23 10:28				
11/10/23																				
11/11/23																				
11/12/23																				
11/13/23	AB	127.2	76,908	37,867	28,400	75.0	9.0	9.0	9.8	13,464	4,252	3,189	127.2	14:00	47.4	11/15/23 13:21				
11/14/23																				
11/15/23																				
11/16/23							9.8	8.5	8.5								11/16/23	7:41	131.5	20,918
11/17/23	MB	126.0	67,206	38,233	29,151	76.2	8.5	8.5	9.4	15,147	4,830	3,683	126.0	14:00	58.7	11/20/23 0:42				
11/18/23																				
11/19/23							9.4	8.5	8.5								11/19/23	8:52	129.9	14,314
11/20/23	MB	127.3	53,387	41,450	31,032	74.9	8.5	8.5	9.0	8,415	2,909	2,178	127.3	12:00	46.5	11/22/23 10:30				
11/21/23																				
11/22/23	AB	125.3	71,287	35,587	26,690	75.0	9.0	9.0	9.6	10,098	2,997	2,248	125.3	12:30	66.5	11/25/23 7:02				
11/23/23																				
11/24/23																				
11/25/23																				
11/26/23							9.6	8.5	8.5								11/26/23	7:33	129.5	17,490
11/27/23	AB	126.6	37,106	46,401	35,039	75.5	8.5	8.5	8.9	6,732	2,605	1,967	126.6	11:30	52.7	11/29/23 16:13				
11/28/23	MB	125.2	60,436	48,902	36,372	74.4	8.8	8.8	9.4	10,098	4,118	3,063	125.2	11:30	67.7	12/1/23 7:14				
11/29/23	MB	123.9	75,573	44,798	32,590	72.7	9.4	9.4	9.9	8,415	3,144	2,287	123.9	11:30	85.5	12/3/23 1:00				
11/30/23																				

Veolia Middletown WWTP

November 2023

ATAD transfer to SNDR SRT							Centrifuge Data						
Date	Operator	ATAD				SRT	Operator	Centifuge Feed Gallons	SNDR				
		Total Solids	Transfer Gallons	ATAD Tank	Waste ATAD to SNDR				TS	VS	VS	Discharge	
												TS	VS
		mg/L	Gallons	Pounds	Pounds	Days			mg/L	mg/L	%	Lbs.	Lbs.
11/01/23									26,924	156,620	581.7	0	0
11/02/23		29,275	19,200	37,804	4,688	8.06							
11/03/23													
11/04/23													
11/05/23		29,592	8,000	35,306	1,974	17.88							
11/06/23													
11/07/23													
11/08/23							AB	23,795	27,147	14,754	54.3	5387	2928
11/09/23													
11/10/23													
11/11/23													
11/12/23													
11/13/23													
11/14/23													
11/15/23							CK	27,238	26,113	13,927	53.3	5932	3164
11/16/23	AB	28,760	20,918	39,561	5,017	7.88							
11/17/23													
11/18/23													
11/19/23	MB	29,286	14,314	38,640	3,496	11.05							
11/20/23													
11/21/23													
11/22/23													
11/23/23													
11/24/23													
11/25/23													
11/26/23	MB	29,527	17,490	39,787	4,307	9.24							
11/27/23													
11/28/23													
11/29/23													
11/30/23							MB	28,833	25,648	149,392	582.5	6168	35924

VEOLIA Middletown WWTP

Centrifuge Monthly Report

November 2023

Date	Run Time	Feed Sludge		Centrifuge Cake			Lime		Polymer	Alum	SNDR		Copper
	Hours	Gallons	% Solids	Pounds Dry Solids	Dry Tons	% Solids	Pounds Used	Pounds/ Ton	Total Gallons	Total Gallons	pH	Level	Conc. mg/l
01	4.50	23,775	2.69	5,334	2.67	32.1	283	106	19	71	5.9	8.0	
02													
03													
04													
05													
06													
07													
08	5.50	23,795	2.71	5,378	2.69	30.1	343	128	19	82	5.9	7.0	
09													
10													
11													
12													
13													
14													
15	5.75	27,238	2.61	5,929	2.96	28.7	326	110	24	86	5.5	9.0	
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30	6.50	28,833	2.56	6,156	3.08	31.2	1,260	409	9	78	5.9	9.0	

REVISED 7/17/14

PA MIDDLETOWN WWTP

November, 2023 **BIOSOLIDS INVENTORY**

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
11/01/23	2.67				2.67
11/02/23					
11/03/23		2.67	Amerigreen	Agriculture	0.00
11/04/23					
11/05/23					
11/06/23					
11/07/23					
11/08/23	2.69				2.69
11/09/23					
11/10/23					
11/11/23					
11/12/23					
11/13/23					
11/14/23		2.69	Amerigreen	Agriculture	0.00
11/15/23	2.96				2.93
11/16/23		2.96	Amerigreen	Agriculture	0.00
11/17/23					
11/18/23					
11/19/23					
11/20/23					
11/21/23					
11/22/23					
11/23/23					
11/24/23					
11/25/23					
11/26/23					
11/27/23					
11/28/23					
11/29/23					
11/30/23	3.08				3.08
Total Tons	11.40	8.32		Total Tons	11.37
Metric Tons	10.34	7.55		Metric Tons	10.31

2023

PA MIDDLETOWN WWTP

BIOSOLIDS INVENTORY

DATE	Dry Tons (US Short Tons)		Dry Tons (Meteric Tons)	
	PROCESSED	DELIVERED	PROCESSED	DELIVERED
Jan, 2023	16.48	16.48	14.95	14.95
Feb, 2023	16.91	16.91	15.34	15.34
Mar, 2023	13.73	12.98	12.46	11.78
Apr, 2023	12.08	11.77	10.96	10.68
May, 2023	12.75	13.81	11.57	12.53
Jun, 2023	10.14	10.14	9.20	9.20
Jul, 2023	10.83	10.83	9.82	9.82
Aug, 2023	10.35	10.35	9.39	9.39
Sep, 2023	11.81	11.81	10.71	10.71
Oct, 2023	8.97	8.97	8.14	8.14
Nov, 2023	11.40	8.32	10.34	7.55
Dec, 2023				
Total	135.45	132.37	122.88	120.08
Average	12.31	12.03	11.17	10.92
Maximum	16.91	16.91	17.91	18.91
Minimum	8.97	8.32	8.14	7.55

PA MIDDLETOWN WWTP

BIOSOLIDS VOLATILE REDUCTION

MONTH November YEAR 2023

DAY	THICKENER DISCHARGE			SNDR			%
	TS	TVS	VS	TS	TVS	VS	VOL.
	mg/L		%	mg/L		%	REDUCT.
01							
02							
03							
04							
05							
06							
07	40,000	30,400	76	26,300	14,300	54	53.0
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29	44,000	33,308	76	25,700	14,300	56	57.1
30							
AVG	42000.00	31854.00	75.85	26000.00	14300.00	55.01	

% SOLIDS REDUCTION	38.10	55.11	%

REVISED 7/17/14

Veolia Middletown WWTP

Biosolids Volatile Reduction
M.J. Reider Results
2022

Date	Thickener Discharge			SNDR			Volatile Reduction
	TS	TVS	VS	TS	TVS	VS	
	mg/L		%	mg/L		%	%
01/04/23	55,000	42,240	77.0	31,900	18,300	56.7	56.7
02/13/23	61,000	46,846	77.0	25,900	14,000	54.0	70.1
03/06/23	52,000	39,988	77.0	26,500	14,600	55.0	63.5
03/20/23	61,000	47,373	78.0	26,900	15,000	56.0	68.3
04/05/23	61,000	47,458	78.0	26,400	14,600	55.0	69.2
04/17/23	61,000	46,665	77.0	26,200	14,600	56.0	68.7
05/01/23	56,000	42,280	75.5	26,200	14,500	55.0	65.7
05/22/23	56,000	42,168	75.3	25,900	14,300	55.0	66.1
06/07/23	50,000	36,900	74.0	26,400	14,900	56.0	59.6
06/20/23	57,000	41,496	73.0	25,600	14,400	56.0	65.3
07/05/23	59,000	41,182	70.0	25,500	14,300	56.0	65.3
07/17/23	49,000	34,986	71.0	25,700	14,100	55.0	59.7
08/21/23	47,000	32,994	70.0	24,700	13,600	55.0	58.8
08/28/23	45,000	31,815	71.0	25,200	14,000	56.0	56.0
09/05/23	57,000	40,470	70.0	26,300	14,400	55.0	64.4
09/18/23	58,000	42,224	73.0	26,400	14,700	56.0	65.2
10/11/23	48,000	35,040	73.0	26,500	14,700	55.0	58.0
10/30/23	39,000	29,679	76.0	26,200	14,200	54.0	52.2
11/07/23	40,000	30,400	76.0	26,300	14,300	54.0	53.0
11/29/23	44,000	33,308	76.0	25,700	14,300	56.0	57.1
AVG	52,800	39,276	74.4	26,320	14,590	55.4	
Avg. % TS Reduction		50.2	Avg. Mass Balance % VS Reduction				62.9

PA MIDDLETOWN WWTP
2023 Annual Performance

	Flow Data						BOD / CBOD						Phosphorus, Total		Fecal Colif.
	Total MG	Average MG	Maximum		Minimum		Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	cfu/100mL
January	43.279	1.396	1/25/2023	2.105	1/18/2023	1.153	429	2	154,777	740	154,037	98.8	0.26	95	300
February	30.250	1.080	2/2/2023	1.317	2/15/2023	0.952	213	2	53,845	549	53,297	98.9	0.23	58	570
March	34.110	1.107	3/3/2023	2.352	3/13/2023	112.000	159	2	45,534	708	44,826	98.4	0.14	39	>20,000
April	42.004	1.400	4/30/2023	4.112	4/27/2023	0.840	123	2	43,063	832	42,231	98.0	0.19	65	200
May	32.718	1.055	5/1/2023	2.314	5/27/2023	0.758	100	2	27,169	546	26,624	97.6	0.31	83	8
June	28.085	0.936	6/12/2023	1.717	6/29/2023	0.491	140	2	32,742	468	32,274	98.4	0.25	59	8
July	30.661	0.989	7/9/2023	1.816	7/31/2023	0.788	104	2	26,551	551	26,040	97.9	0.50	128	26
August	27.888	0.900	8/17/2023	1.519	8/3/2023	0.354	112	2	26,011	465	25,546	98.0	0.91	212	20
September	31.832	1.061	9/24/2023	2.376	9/3/2023	0.771	90	2	24,009	531	23,478	97.5	0.62	165	54
October	31.871	1.028	10/14/2023	1.782	10/2/2023	0.527	124	2	33,068	548	32,521	98.1	0.24	64	18
November	31.067	1.036	11/21/2023	2.476	11/18/2023	0.864	197	2	51,043	564	50,480	98.8	0.10	25	440
December															
Total	**363.765**								**517,812**	**6,502**	**511,354**			**993**	
Average	33.070	1.090		2.171		10.863	163	2	47,074	591	46,487	98.2	0.34	90	
Maximum	43.279	1.400		4.112		112.000	429	2	154,777	832	154,037	98.9	0.91	212	
Minimum	27.888	0.900		1.317		0.354	90	2	24,009	465	23,478	97.5	0.10	25	

	TSS						Ammonia		TKN		Nitrate+Nitrite				Fecal Colif.
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Geo. Mean
January	475	3	171,377	1,119	170,258	98.0	0.12	39	0.9	311	7.27	2,625	8.14	2,936	43
February	176	2	44,475	460	44,014	98.3	0.04	10	1.0	253	8.25	2,081	9.25	2,334	122
March	106	2	30,404	608	29,796	97.6	0.06	18	1.1	323	6.79	1,943	7.92	2,266	>53
April	64	3	22,552	920	21,632	95.9	0.03	10	1.0	361	2.07	725	3.10	1,086	<6
May	99	2	27,096	409	26,686	98.1	0.03	7	0.6	175	2.00	545	2.64	720	<3
June	118	2	27,610	498	27,112	97.3	0.07	16	0.7	167	2.51	587	3.22	754	<3
July	57	3	14,576	852	13,723	92.5	0.04	10	0.6	164	2.18	556	2.82	710	<3
August	71	3	16,514	646	15,867	95.5	0.03	7	0.6	135	3.91	909	4.49	1,043	<4
September	67	2	17,721	465	17,256	95.7	0.16	43	0.6	158	5.68	1,508	6.28	1,666	<8
October	83	2	21,982	505	21,447	97.4	0.96	255	1.4	376	3.06	812	4.47	1,188	<3
November	167	2	43,335	551	42,784	98.7	0.68	175	1.2	314	4.25	1,100	5.46	1,414	<8
December															
Total			**437,642**	**7,033**	**430,575**			**590**	**10**	**2,737**		**13,391**		**16,117**	
Average	134.8	2.4	39,786	639	39,143	96.8	0.20	54	1	249	4.36	1,217	5.25	1,465	
Maximum	475.0	3.0	171,377	1,119	170,258	98.7	0.96	255	1	376	8.25	2,625	9.25	2,936	
Minimum	57.0	2.0	14,576	409	13,723	92.5	0.03	7	1	135	2.00	545	2.64	710	

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2336518
Report: 11/09/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2336518-01 **Collected By:** Client **Sampled:** 11/01/23 08:09 **Received:** 11/01/23 13:50
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	201	mg/l	2.0	SM 5210 B	11/02/23 12:09	B-01	KMS
Solids, Total Suspended	136	mg/l	1	SM 2540 D	11/02/23		ALD

Lab ID: 2336518-02 **Collected By:** Client **Sampled:** 11/01/23 08:53 **Received:** 11/01/23 13:50
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	11/01/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/02/23 10:47		KMS
Nitrate as N	3.37	mg/l	1.00	EPA 300.0 Rev 2.1	11/01/23 18:33		KCS
Nitrite as N	0.12	mg/l	0.10	EPA 300.0 Rev 2.1	11/01/23 18:33		KCS
Nitrate+Nitrite as N	3.49	mg/l	1.10	CALCULATED	11/01/23 18:33		KCS
Nitrogen, Total	4.13	mg/l	1.60	CALCULATED	11/06/23 14:59		JMW
Nitrogen, Total Kjeldahl (TKN)	0.64	mg/l	0.50	EPA 351.2 Rev 2.0	11/06/23		JMW
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	11/01/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	11/02/23		ALD

Lab ID: 2336518-03 **Collected By:** Client **Sampled:** 11/01/23 10:23 **Received:** 11/01/23 13:50
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	96	/100ml	2	SM 9222 D	11/1/23 14:17	11/2/23 13:26		MAC

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2336518-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K0050	11/01/2023	JMW

Notes and Definitions

B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2343668
Report: 11/14/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2343668-01 **Collected By:** Client **Sampled:** 11/07/23 07:51 **Received:** 11/07/23 13:00
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	212	mg/l	2.0	SM 5210 B	11/08/23 10:36		INW
Solids, Total Suspended	168	mg/l	1	SM 2540 D	11/08/23		ALD

Lab ID: 2343668-02 **Collected By:** Client **Sampled:** 11/07/23 08:51 **Received:** 11/07/23 13:00
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.64	mg/l	0.02	EPA 350.1 Rev 2.0	11/07/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/08/23 11:45		INW
Nitrate as N	1.62	mg/l	1.00	EPA 300.0 Rev 2.1	11/07/23 15:22		KCS
Nitrite as N	0.40	mg/l	0.10	EPA 300.0 Rev 2.1	11/07/23 15:22		KCS
Nitrate+Nitrite as N	2.02	mg/l	1.10	CALCULATED	11/07/23 15:22		KCS
Nitrogen, Total	3.10	mg/l	1.60	CALCULATED	11/10/23 14:51		SNF
Nitrogen, Total Kjeldahl (TKN)	1.08	mg/l	0.50	EPA 351.2 Rev 2.0	11/10/23		SNF
Phosphorus as P, Total	0.13	mg/l	0.01	SM 4500-P F	11/07/23		JMW
Solids, Total Suspended	5	mg/l	1	SM 2540 D	11/08/23		ALD

Lab ID: 2343668-03 **Collected By:** Client **Sampled:** 11/07/23 09:22 **Received:** 11/07/23 13:00
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/7/23 14:39	11/8/23 14:14		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2343668-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K0443	11/07/2023	JMW

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2342599
Report: 11/16/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2342599-01 **Collected By:** Client **Sampled:** 11/08/23 08:43 **Received:** 11/08/23 14:20
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	188	mg/l	2.0	SM 5210 B	11/09/23 9:40	B-03	KMS
Solids, Total Suspended	138	mg/l	1	SM 2540 D	11/10/23		BKM

Lab ID: 2342599-02 **Collected By:** Client **Sampled:** 11/08/23 10:02 **Received:** 11/08/23 14:20
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.39	mg/l	0.02	EPA 350.1 Rev 2.0	11/09/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/09/23 17:12	B-01, B-02	INW
Nitrate as N	2.55	mg/l	1.00	EPA 300.0 Rev 2.1	11/08/23 20:31		KCS
Nitrite as N	0.34	mg/l	0.10	EPA 300.0 Rev 2.1	11/08/23 20:31		KCS
Nitrate+Nitrite as N	2.89	mg/l	1.10	CALCULATED	11/08/23 20:31		KCS
Nitrogen, Total	3.56	mg/l	1.60	CALCULATED	11/10/23 17:00		SNF
Nitrogen, Total Kjeldahl (TKN)	0.67	mg/l	0.50	EPA 351.2 Rev 2.0	11/10/23		SNF
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	11/09/23		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	11/10/23		BKM

Lab ID: 2342599-03 **Collected By:** Client **Sampled:** 11/08/23 10:47 **Received:** 11/08/23 14:20
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/8/23 16:46	11/9/23 14:46		MAC

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2343393
Report: 11/21/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2343393-01 **Collected By:** Client **Sampled:** 11/14/23 08:13 **Received:** 11/14/23 14:35
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	185	mg/l	2.0	SM 5210 B	11/15/23 12:57		INW
Solids, Total Suspended	160	mg/l	1	SM 2540 D	11/15/23		ALD

Lab ID: 2343393-02 **Collected By:** Client **Sampled:** 11/14/23 10:02 **Received:** 11/14/23 14:35
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.83	mg/l	0.02	EPA 350.1 Rev 2.0	11/14/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/15/23 14:35		RXN
Nitrate as N	3.66	mg/l	1.00	EPA 300.0 Rev 2.1	11/14/23 21:02		KCS
Nitrite as N	0.56	mg/l	0.10	EPA 300.0 Rev 2.1	11/14/23 21:02		KCS
Nitrate+Nitrite as N	4.22	mg/l	1.10	CALCULATED	11/14/23 21:02		KCS
Nitrogen, Total	5.42	mg/l	1.60	CALCULATED	11/15/23 19:44		SNF
Nitrogen, Total Kjeldahl (TKN)	1.20	mg/l	0.50	EPA 351.2 Rev 2.0	11/15/23		SNF
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	11/14/23		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	11/15/23		ALD

Lab ID: 2343393-03 **Collected By:** Client **Sampled:** 11/14/23 10:02 **Received:** 11/14/23 14:35
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	coliforms/100ml	2	SM 9222 D	11/14/23 15:44	11/15/23 14:07		MAC

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2343393-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K0957	11/14/2023	JMW

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2345377
Report: 11/27/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2345377-01 **Collected By:** Client **Sampled:** 11/15/23 08:04 **Received:** 11/15/23 13:33
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	193	mg/l	2.0	SM 5210 B	11/16/23 15:48	B-01	KMD
Solids, Total Suspended	160	mg/l	1	SM 2540 D	11/17/23		ENM

Lab ID: 2345377-02 **Collected By:** Client **Sampled:** 11/15/23 09:39 **Received:** 11/15/23 13:33
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.40	mg/l	0.02	EPA 350.1 Rev 2.0	11/16/23		SNF
Carbonaceous Biochemical Oxygen Demand	2.4	mg/l	2.0	SM 5210 B	11/15/23 18:12		INW
Nitrate as N	3.67	mg/l	1.00	EPA 300.0 Rev 2.1	11/16/23 11:04		KCS
Nitrite as N	0.42	mg/l	0.10	EPA 300.0 Rev 2.1	11/16/23 11:04		KCS
Nitrate+Nitrite as N	4.09	mg/l	1.10	CALCULATED	11/16/23 11:04		KCS
Nitrogen, Total	5.24	mg/l	1.60	CALCULATED	11/17/23 15:20		KCS
Nitrogen, Total Kjeldahl (TKN)	1.15	mg/l	0.50	EPA 351.2 Rev 2.0	11/17/23		SNF
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	11/16/23		SNF
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	11/17/23		ENM

Lab ID: 2345377-03 **Collected By:** Client **Sampled:** 11/15/23 09:39 **Received:** 11/15/23 13:33
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	coliforms/100ml	2	SM 9222 D	11/15/23 14:16	11/16/23 13:33		RMB

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Additional accreditations by MD (261)

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2345377-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K1098	11/16/2023	SNF

Notes and Definitions

B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2345711
Report: 11/29/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2345711-01 **Collected By:** Client **Sampled:** 11/21/23 08:08 **Received:** 11/21/23 14:45
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	247	mg/l	2.0	SM 5210 B	11/22/23 15:37		INW
Solids, Total Suspended	172	mg/l	1	SM 2540 D	11/22/23		JLS

Lab ID: 2345711-02 **Collected By:** Client **Sampled:** 11/21/23 10:11 **Received:** 11/21/23 14:45
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.12	mg/l	0.02	EPA 350.1 Rev 2.0	11/22/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/22/23 12:46	B-03	INW
Nitrate as N	5.36	mg/l	1.00	EPA 300.0 Rev 2.1	11/21/23 21:56		KCS
Nitrite as N	0.16	mg/l	0.10	EPA 300.0 Rev 2.1	11/21/23 21:56		KCS
Nitrate+Nitrite as N	5.52	mg/l	1.10	CALCULATED	11/21/23 21:56		KCS
Nitrogen, Total	6.04	mg/l	1.60	CALCULATED	11/23/23 19:11		JMW
Nitrogen, Total Kjeldahl (TKN)	0.52	mg/l	0.50	EPA 351.2 Rev 2.0	11/23/23		JMW
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	11/22/23		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	11/22/23		JLS

Lab ID: 2345711-03 **Collected By:** Client **Sampled:** 11/21/23 10:11 **Received:** 11/21/23 14:45
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	60	coliforms/100ml	2	SM 9222 D	11/21/23 15:29	11/22/23 13:30		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2345711-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K1518	11/22/2023	JMW

Notes and Definitions

B-03 The Glucose-Glutamic Acid check was below the acceptable criteria of 198 ± 30.5 mg/L.

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2342599-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K0626	11/09/2023	JMW

Notes and Definitions

B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.

B-02 The Glucose-Glutamic Acid check was above the acceptable criteria of 198 ± 30.5 mg/L.

B-03 The Glucose-Glutamic Acid check was below the acceptable criteria of 198 ± 30.5 mg/L.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2346438
Report: 11/30/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2346438-01 **Collected By:** Client **Sampled:** 11/22/23 08:53 **Received:** 11/22/23 14:05
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	293	mg/l	2.0	SM 5210 B	11/22/23 17:12		INW
Solids, Total Suspended	266	mg/l	1	SM 2540 D	11/28/23		JAF

Lab ID: 2346438-02 **Collected By:** Client **Sampled:** 11/22/23 08:18 **Received:** 11/22/23 14:05
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.21	mg/l	0.02	EPA 350.1 Rev 2.0	11/22/23		JMW
Carbonaceous Biochemical Oxygen Demand	3.0	mg/l	2.0	SM 5210 B	11/22/23 16:56	B-04	EAK
Nitrate as N	7.46	mg/l	1.00	EPA 300.0 Rev 2.1	11/22/23 19:42		KCS
Nitrite as N	0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/22/23 19:42		KCS
Nitrate+Nitrite as N	7.56	mg/l	1.10	CALCULATED	11/22/23 19:42		KCS
Nitrogen, Total	8.53	mg/l	1.60	CALCULATED	11/29/23 14:03		JMW
Nitrogen, Total Kjeldahl (TKN)	0.97	mg/l	0.50	EPA 351.2 Rev 2.0	11/29/23		JMW
Phosphorus as P, Total	0.09	mg/l	0.01	SM 4500-P F	11/22/23		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	11/28/23		JAF

Lab ID: 2346438-03 **Collected By:** Client **Sampled:** 11/22/23 10:13 **Received:** 11/22/23 14:05
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	440	coliforms/100ml	2	SM 9222 D	11/22/23 16:20	11/23/23 14:55		MAC

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2346438-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K1542	11/22/2023	JMW

Notes and Definitions

B-04 The difference between the highest and lowest results were greater than 30%.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2346710
Report: 12/05/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2346710-01 **Collected By:** Client **Sampled:** 11/28/23 08:56 **Received:** 11/28/23 13:55
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	132	mg/l	2.0	SM 5210 B	11/29/23 12:32	B-01	EAK
Solids, Total Suspended	158	mg/l	1	SM 2540 D	11/29/23		ALD

Lab ID: 2346710-02 **Collected By:** Client **Sampled:** 11/28/23 10:06 **Received:** 11/28/23 13:55
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.81	mg/l	0.02	EPA 350.1 Rev 2.0	11/28/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/29/23 11:15		EAK
Nitrate as N	2.32	mg/l	1.00	EPA 300.0 Rev 2.1	11/28/23 15:51		KCS
Nitrite as N	0.52	mg/l	0.10	EPA 300.0 Rev 2.1	11/28/23 15:51		KCS
Nitrate+Nitrite as N	2.84	mg/l	1.10	CALCULATED	11/28/23 15:51		KCS
Nitrogen, Total	4.40	mg/l	1.60	CALCULATED	11/29/23 22:08		JMW
Nitrogen, Total Kjeldahl (TKN)	1.56	mg/l	0.50	EPA 351.2 Rev 2.0	11/29/23		JMW
Phosphorus as P, Total	0.08	mg/l	0.01	SM 4500-P F	11/29/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	11/29/23		ALD

Lab ID: 2346710-03 **Collected By:** Client **Sampled:** 11/28/23 10:06 **Received:** 11/28/23 13:55
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	CFU/100ml	2	SM 9222 D	11/28/23 16:20	11/29/23 14:28		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2346710-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K1753	11/28/2023	JMW

Notes and Definitions

B-01 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2347142
Report: 12/08/23
Lab Contact: Bradley T Griffiths

Attention: Michael Barger
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2347142-01 **Collected By:** Client **Sampled:** 11/29/23 08:37 **Received:** 11/29/23 13:30
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	126	mg/l	2.0	SM 5210 B	11/30/23 9:56		INW
Solids, Total Suspended	116	mg/l	1	SM 2540 D	11/30/23		ALD

Lab ID: 2347142-02 **Collected By:** Client **Sampled:** 11/29/23 09:03 **Received:** 11/29/23 13:30
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	2.00	mg/l	0.02	EPA 350.1 Rev 2.0	11/30/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/30/23 11:19		INW
Nitrate as N	4.53	mg/l	1.00	EPA 300.0 Rev 2.1	11/29/23 16:12		KCS
Nitrite as N	0.29	mg/l	0.10	EPA 300.0 Rev 2.1	11/29/23 16:12		KCS
Nitrate+Nitrite as N	4.82	mg/l	1.10	CALCULATED	11/29/23 16:12		KCS
Nitrogen, Total	7.37	mg/l	1.60	CALCULATED	12/01/23 16:53		JMW
Nitrogen, Total Kjeldahl (TKN)	2.55	mg/l	0.50	EPA 351.2 Rev 2.0	12/01/23		JMW
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	11/30/23		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	11/30/23		ALD

Lab ID: 2347142-03 **Collected By:** Client **Sampled:** 11/29/23 09:03 **Received:** 11/29/23 13:30
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	CFU/100ml	2	SM 9222 D	11/29/23 13:55	11/30/23 13:21		MAC

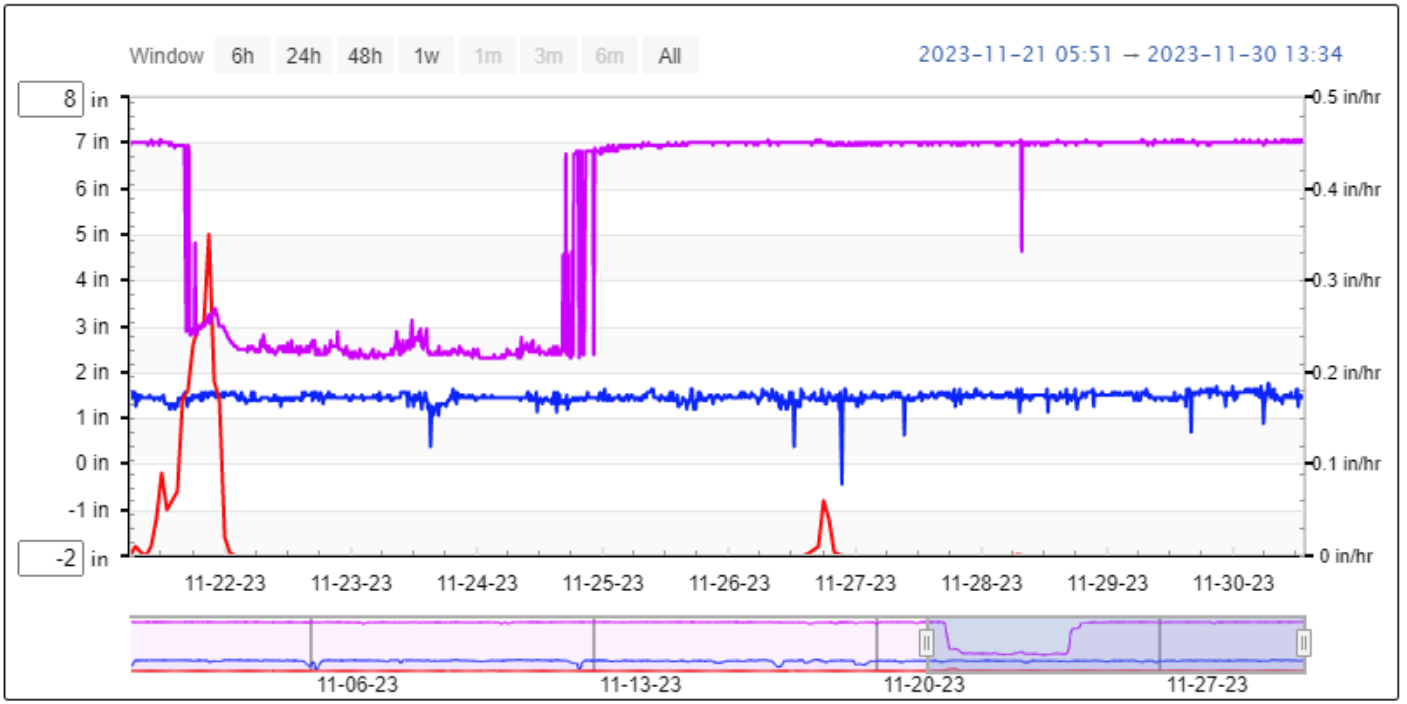
Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2347142-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3K1901	11/30/2023	JMW

Veolia North America Middletown

SMARTCOVER® SEWER INTELLIGENCE®

Static Charts



Time Period: Custom | Date Range: 2023-11-01 13:34 - 2023-11-30 13:34 | Long Filter: No Filter

Update Chart | Download Data

Locations

301-MH-332	Water Level above Bottom	
301-MH-475A	Water Level above Bottom	
MH-286	Water Level above Bottom	
MH-290	Water Level above Bottom	
[RAIN] Mill Street-Hoffer Park	Rain	Total: 2.27 in

Chart up to 5 data series by selecting additional locations & their data types.

APPENDIX 2

DRINKING WATER

MIDDLETOWN WATER SYSTEM
MONTHLY SAFE DRINKING WATER ACT
COMPLIANCE REPORT
AND CORRESPONDENCE WITH PADEP

&

SUSQUEHANNA RIVER BASIN COMMISSION
QUARTERLY WATER WITHDRAWAL REPORT AND
CORRESPONDENCE

Monthly Water Pumped

Middletown Borough Authority

November, 2023

	Maximum Day	1,199,173					Days pumped	30
	Minimum Day	793,790						
Date	**Well No.1**	**Well No.2**	**Well No.3**	**Well No.4**	**Well No.5**	**Well No.6**	**Total**	**Union Booster**
01	163,821	285,571			92,086	282,026	823,504	106,723
02	200,731	285,768			112,468	345,449	944,416	143,783
03	154,625	286,803			86,481	265,881	793,790	103,094
04	212,894	297,871			119,691	365,624	996,080	109,538
05	202,589	284,916			114,320	348,699	950,524	127,604
06	271,036	282,282			153,832	457,051	1,164,201	120,739
07	282,966	279,681			159,402	477,124	1,199,173	133,472
08	193,468	271,858			121,387	364,930	951,643	101,948
09	212,985	283,915			119,925	362,578	979,403	127,491
10	201,910	283,394			113,247	326,452	925,003	115,385
11	191,051	283,868			106,991	323,974	905,884	124,341
12	243,211	282,583			136,831	317,596	980,221	143,607
13	214,618	270,214			119,311	364,397	968,540	120,929
14	175,273	282,712			97,956	296,532	852,473	97,031
15	194,619	283,272			109,248	329,123	916,262	165,851
16	208,217	281,622			116,908	336,024	942,771	166,310
17	206,647	281,107			115,731	349,533	953,018	119,360
18	187,925	281,978			105,901	318,991	894,795	124,479
19	213,458	280,886			119,643	359,193	973,180	79,481
20	184,298	281,805			103,176	310,959	880,238	126,443
21	184,509	281,916			103,191	327,965	897,581	99,320
22	160,903	284,646			90,136	293,711	829,396	102,712
23	204,882	285,330			115,094	374,094	979,400	99,395
24	184,389	286,423			103,328	337,810	911,950	72,779
25	165,607	287,160			92,748	301,501	847,016	131,207
26	192,148	286,754			107,447	347,505	933,854	77,565
27	265,894	284,648			148,478	477,738	1,176,758	146,619
28	201,435	284,301			111,850	360,315	957,901	92,967
29	193,981	285,206			107,478	346,359	933,024	155,217
30	194,898	285,784			108,049	349,079	937,810	141,866
Totals:	6,064,988	8,504,274			3,412,334	10,418,213	28,399,809	3,577,256
Maximum	282,966	297,871			159,402	477,738	1,199,173	166,310
Minimum	154,625	270,214			86,481	265,881	793,790	72,779
Average	202,166	283,476			113,744	347,274	946,660	119,242

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1			03 Compliance Sampling Log	4.00 Distribution System Monitoring\DS-000 Generic Sample Location													
2				400000	400007	400008	400011	400012	400013	400014	400015	400016	400017	400018	400019	400020	
3				DS-000: Contractual Weekly Distribution	pH	Temperature	Hardness	Alkalinity (CaCO3)	Calcium	Phosphorus, Total	Silicates	Iron, Total	Manganese, Total	TDS	Specific Conductance	Langlier Index	
4				Date	SU	Deg C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umhos/Cm2	LSI	
5	Nov	1 Wed															
6		2 Thu															
7		3 Fri															
8		4 Sat															
9		5 Sun															
10		6 Mon															
11		7 Tue		11-7-23	7.10	18.0	347.0	195.00	108.00	0.09	22.10	<0.02	<0.00	271.00	745.00	7.10	
12		8 Wed															
13		9 Thu															
14		10 Fri															
15		11 Sat															
16		12 Sun															
17		13 Mon															
18		14 Tue		11-14-23	7.20	17.0	355.0	194.00	109.00	0.07	22.50	<0.02	<0.01	270.00	717.00	7.20	
19		15 Wed															
20		16 Thu															
21		17 Fri															
22		18 Sat															
23		19 Sun															
24		20 Mon															
25		21 Tue		11-21-23	7.20	16.0	364.0	193.00	113.00	0.06	23.00	<0.02	<0.01	277.00	714.00	7.20	
26		22 Wed															
27		23 Thu															
28		24 Fri															
29		25 Sat															
30		26 Sun															
31		27 Mon															
32		28 Tue		11-28-23	7.30	15.0	334.0	192.00	104.00	0.07	22.70	<0.02	<0.01	243.00	733.00	7.30	
33		29 Wed															
34		30 Thu															
36	MINIMUM			11-14-23	7.10	15.0	334.0	192.00	104.00	0.06	22.10	<0.02	<0.00	243.00	714.00	7.10	
37	MAXIMUM			11-7-23	7.30	18.0	364.0	195.00	113.00	0.09	23.00	<0.02	<0.01	277.00	745.00	7.20	
38	AVERAGE			1	7.20	16.5	350.0	193.50	108.50	0.07	22.58	<0.02	<0.01	265.25	727.25	2.95	
39	SUM			4	28.80	66.0	1,400.0	774.00	434.00	0.29	90.30	<0.08	<0.03	1,061.00	2,909.00	11.79	

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2343672
Reported: 11/10/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Jan,Mar,May,Jul,Sep,Nov. Week 1
7220038

Lab ID: 2343672-01 **Collected By:** Client **Sampled:** 11/07/23 08:01 **Received:** 11/07/23 13:00
Sample Desc: 701 Middletown WWTP **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/7/23 13:54	11/8/23 8:10		MAC	N/A	1

Lab ID: 2343672-02 **Collected By:** Client **Sampled:** 11/07/23 07:12 **Received:** 11/07/23 13:00
Sample Desc: 703 North Union Street Booster Station **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/7/23 13:54	11/8/23 8:10		MAC	N/A	1

Lab ID: 2343672-03 **Collected By:** Client **Sampled:** 11/07/23 07:26 **Received:** 11/07/23 13:00
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/7/23 13:54	11/8/23 8:10		MAC	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	101823	701		101723	D	0853	06003	2340794-01	KISTLERC_660
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	110823	701		110723	D	0801	06003	2343672-01	KISTLERC_2314
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	101823	703		101723	D	0821	06003	2340794-02	KISTLERC_661
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	110823	703		110723	D	0712	06003	2343672-02	KISTLERC_2315
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	101123	704		101023	D	0902	06003	2339845-01	KISTLERC_182
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	102523	704		102423	D	0829	06003	2341742-01	KISTLERC_1085
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	101123	705		101023	D	0850	06003	2339845-02	KISTLERC_183
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	102523	705		102423	D	0814	06003	2341742-02	KISTLERC_1086
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	101823	706		101723	D	0835	06003	2340794-03	KISTLERC_662
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	110823	707		110723	D	0726	06003	2343672-03	KISTLERC_2316

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2343671
Reported: 11/15/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2343671-01 **Collected By:** Client **Sampled:** 11/07/23 08:03 **Received:** 11/07/23 13:00
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	195	mg CaCO3/ L	20	SM 2320 B	11/07/23		ORL	N/A	N/A	
Total Hardness as CaCO3	347	mg/l	4.56	CALCULATED	11/09/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.09	mg/l	0.01	SM 4500-P F	11/08/23		JMW	N/A	N/A	
Silica as SiO2	22.1	mg/l	2.14	CALCULATED	11/13/23		JAF	N/A	N/A	
Conductivity	745	umhos/cm	10	SM 2510 B	11/07/23		ORL	N/A	N/A	
Total Metals										
Calcium	108	mg/l	1	EPA 200.7 Rev 4.4	11/09/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/08/23		HRG	N/A	0.3	PASS
Magnesium	18.7	mg/l	0.5	EPA 200.7 Rev 4.4	11/09/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/09/23		HRG	N/A	0.05	PASS
Silicon	10.3	mg/l	1.0	EPA 200.7 Rev 4.4	11/13/23		JAF	N/A	N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2343671-01			
SM 4500-P F	SM 4500-P B	11/07/2023	JMW

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2343670
Reported: 11/14/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Quarterly VOCS
7220038

Lab ID: 2343670-02 **Collected By:** Client
Sample Desc: 106 Entry Point Well #6
Notes:

Sampled: 11/07/23 07:39
PWSID: 7220038

Received: 11/07/23 13:00
PADEP Type: E-Entry Point
Loc ID: 106

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Volatiles									
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.2
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.007
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.07
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.6
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.075
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.1
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.07
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.7
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.1
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	1
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.1
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.005
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	0.002
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	11/08/23	V-06	WJS	N/A	10
Surrogates									
1,2-Dichlorobenzene-d4	*98.4%*		*70-130*	*EPA 524.2 Rev 4.1*	11/08/23	V-06	WJS		
4-Bromofluorobenzene	*97.0%*		*70-130*	*EPA 524.2 Rev 4.1*	11/08/23	V-06	WJS		

Notes and Definitions

V-06 The following primary contaminant(s) were identified but not requested: Dibromochloromethane, and Bromoform.

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_45
7220038	2380	CIS-1,2-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_52
7220038	2955	XYLENES - TOTAL (VOC)	221	0.0	0.00100		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_59
7220038	2964	DICHLOROMETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_66
7220038	2968	O-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_73
7220038	2969	P-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_80
7220038	2976	VINYL CHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_87
7220038	2977	1,1-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_94
7220038	2979	TRANS-1,2-DICHLOROETHENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_101
7220038	2980	1,2-DICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_108
7220038	2981	1,1,1-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_115
7220038	2982	CARBON TETRACHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_122
7220038	2983	1,2-DICHLOROPROPANE(VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_129
7220038	2984	TRICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_136
7220038	2985	1,1,2-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_143
7220038	2987	TETRACHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_150
7220038	2989	CHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_157
7220038	2990	BENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_164
7220038	2991	TOLUENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_171

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2992	ETHYLBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_178
7220038	2996	STYRENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_185

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2345202
Reported: 11/14/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Specials - Tank Testing VOC & TC
7220038

Lab ID: 2345202-01 **Collected By:**
Sample Desc: VOC - Turnpike Tank
Notes:

Sampled: 11/09/23 11:15 **Received:** 11/09/23 15:20
Sample Type: Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
Volatiles										
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.2	PASS
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.007	PASS
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.07	PASS
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.6	PASS
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.075	PASS
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.1	PASS
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.07	PASS
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.7	PASS
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.1	PASS
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	1	PASS
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.1	PASS
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.005	PASS
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	0.002	PASS
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	11/10/23	V-06	WJS	N/A	10	PASS
Surrogates										
1,2-Dichlorobenzene-d4	*101%*		*70-130*	*EPA 524.2 Rev 4.1*	11/10/23	V-06	WJS			
4-Bromofluorobenzene	*99.2%*		*70-130*	*EPA 524.2 Rev 4.1*	11/10/23	V-06	WJS			

Certificate of Analysis

M.J. Reider Associates, Inc.

Lab ID: 2345202-02 **Collected By:** **Sampled:** 11/09/23 11:15 **Received:** 11/09/23 15:20
Sample Desc: Coliform - Turnpike Tank **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
Microbiology											
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/9/23 16:52	11/10/23 11:02		MAC	N/A	1	PASS

Notes and Definitions

V-06 The following primary contaminant(s) were identified but not requested: Chloroform, Bromodichloromethane, Dibromochloromethane, and Bromoform.

Pass Result less than or equal to EPA maximum contaminant level.

Fail Result greater than EPA maximum contaminant level.

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2344665
Reported: 11/26/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Jan,Mar,May,Jul,Sep,Nov. Week 2
7220038

Lab ID: 2344665-01 **Collected By:** Client **Sampled:** 11/14/23 08:36 **Received:** 11/14/23 14:35
Sample Desc: 704 Village of Pineford Office **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/14/23 15:30	11/15/23 9:33		RMB	N/A	1

Lab ID: 2344665-02 **Collected By:** Client **Sampled:** 11/14/23 08:21 **Received:** 11/14/23 14:35
Sample Desc: 705 High Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/14/23 15:30	11/15/23 9:33		RMB	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	704		111423	D	0836	06003	2344665-01	KISTLERC_694
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	705		111423	D	0821	06003	2344665-02	KISTLERC_695

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_45
7220038	2380	CIS-1,2-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_52
7220038	2955	XYLENES - TOTAL (VOC)	221	0.0	0.00100		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_59
7220038	2964	DICHLOROMETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_66
7220038	2968	O-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_73
7220038	2969	P-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_80
7220038	2976	VINYL CHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_87
7220038	2977	1,1-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_94
7220038	2979	TRANS-1,2-DICHLOROETHENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_101
7220038	2980	1,2-DICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_108
7220038	2981	1,1,1-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_115
7220038	2982	CARBON TETRACHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_122
7220038	2983	1,2-DICHLOROPROPANE(VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_129

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2984	TRICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_136
7220038	2985	1,1,2-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_143
7220038	2987	TETRACHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_150
7220038	2989	CHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_157
7220038	2990	BENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_164
7220038	2991	TOLUENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_171
7220038	2992	ETHYLBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_178
7220038	2996	STYRENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_185

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2344664
Reported: 11/28/23
Lab Contact: Christina M Kistler

Attention: Kodi Webb
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2344664-01 **Collected By:** Client **Sampled:** 11/14/23 08:50 **Received:** 11/14/23 14:35
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	194	mg CaCO3/ L	20	SM 2320 B	11/16/23		ORL	N/A	N/A	
Total Hardness as CaCO3	355	mg/l	4.56	CALCULATED	11/15/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	11/15/23		JMW	N/A	N/A	
Silica as SiO2	22.5	mg/l	2.14	CALCULATED	11/21/23		HRG	N/A	N/A	
Conductivity	717	umhos/cm	10	SM 2510 B	11/17/23		ORL	N/A	N/A	
Total Metals										
Calcium	109	mg/l	1	EPA 200.7 Rev 4.4	11/15/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/16/23		HRG	N/A	0.3	PASS
Magnesium	19.9	mg/l	0.5	EPA 200.7 Rev 4.4	11/15/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/16/23		MPB	N/A	0.05	PASS
Silicon	10.5	mg/l	1.0	EPA 200.7 Rev 4.4	11/21/23		HRG	N/A	N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2344664-01			
SM 4500-P F	SM 4500-P B	11/14/2023	JMW

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2345713
Reported: 11/30/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: Jan,Mar,May,Jul,Sep,Nov. Week 3
7220038

Lab ID: 2345713-01 **Collected By:** Client **Sampled:** 11/21/23 09:05 **Received:** 11/21/23 14:45
Sample Desc: 701 Middletown WWTP **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/21/23 15:56	11/22/23 10:01		MAC	N/A	1

Lab ID: 2345713-02 **Collected By:** Client **Sampled:** 11/21/23 08:51 **Received:** 11/21/23 14:45
Sample Desc: 703 North Union Street Booster Station **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/21/23 15:56	11/22/23 10:01		MAC	N/A	1

Lab ID: 2345713-03 **Collected By:** Client **Sampled:** 11/21/23 07:21 **Received:** 11/21/23 14:45
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/21/23 15:56	11/22/23 10:01		MAC	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	701		112123	D	0905	06003	2345713-01	KISTLERC_967
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	703		112123	D	0851	06003	2345713-02	KISTLERC_968
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	704		111423	D	0836	06003	2344665-01	KISTLERC_694
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	705		111423	D	0821	06003	2344665-02	KISTLERC_695
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	707		112123	D	0721	06003	2345713-03	KISTLERC_969

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_45
7220038	2380	CIS-1,2-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_52
7220038	2955	XYLENES - TOTAL (VOC)	221	0.0	0.00100		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_59
7220038	2964	DICHLOROMETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_66
7220038	2968	O-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_73
7220038	2969	P-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_80
7220038	2976	VINYL CHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_87
7220038	2977	1,1-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_94
7220038	2979	TRANS-1,2-DICHLOROETHENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_101
7220038	2980	1,2-DICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_108

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2981	1,1,1-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_115
7220038	2982	CARBON TETRACHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_122
7220038	2983	1,2-DICHLOROPROPANE(VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_129
7220038	2984	TRICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_136
7220038	2985	1,1,2-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_143
7220038	2987	TETRACHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_150
7220038	2989	CHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_157
7220038	2990	BENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_164
7220038	2991	TOLUENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_171
7220038	2992	ETHYLBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_178
7220038	2996	STYRENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_185

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2345712
Reported: 12/04/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2345712-01 **Collected By:** Client **Sampled:** 11/21/23 09:07 **Received:** 11/21/23 14:45
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	193	mg CaCO3/ L	20	SM 2320 B	11/21/23		ORL	N/A	N/A	
Total Hardness as CaCO3	364	mg/l	4.56	CALCULATED	11/22/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	11/27/23		JMW	N/A	N/A	
Silica as SiO2	23.0	mg/l	2.14	CALCULATED	11/30/23		HRG	N/A	N/A	
Conductivity	714	umhos/cm	10	SM 2510 B	11/22/23		ORL	N/A	N/A	
Total Metals										
Calcium	113	mg/l	1	EPA 200.7 Rev 4.4	11/22/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/29/23		HRG	N/A	0.3	PASS
Magnesium	19.6	mg/l	0.5	EPA 200.7 Rev 4.4	11/22/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/23/23		MPB	N/A	0.05	PASS
Silicon	10.8	mg/l	1.0	EPA 200.7 Rev 4.4	11/30/23		HRG	N/A	N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2345712-01			
SM 4500-P F	SM 4500-P B	11/27/2023	JMW

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2346712
Report: 12/04/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Jan,Mar,May,Jul,Sep,Nov. Week 4
7220038

Lab ID: 2346712-01 **Collected By:** Client **Sampled:** 11/28/23 08:45 **Received:** 11/28/23 13:55
Sample Desc: 704 Village of Pineford Office **PADEP Type:** D-Distribution
PWSID: 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/28/23 16:10	11/29/23 10:14		MAC

Lab ID: 2346712-02 **Collected By:** Client **Sampled:** 11/28/23 07:26 **Received:** 11/28/23 13:55
Sample Desc: 705 High Street Standpipe **PADEP Type:** D-Distribution
PWSID: 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/28/23 16:10	11/29/23 10:14		MAC

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	701		112123	D	0905	06003	2345713-01	KISTLERC_967
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	703		112123	D	0851	06003	2345713-02	KISTLERC_968
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	704		111423	D	0836	06003	2344665-01	KISTLERC_694
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112923	704		112823	D	0845	06003	2346712-01	KISTLERC_2370
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	111523	705		111423	D	0821	06003	2344665-02	KISTLERC_695
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112923	705		112823	D	0726	06003	2346712-02	KISTLERC_2371
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	112223	707		112123	D	0721	06003	2345713-03	KISTLERC_969

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_45
7220038	2380	CIS-1,2-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_52
7220038	2955	XYLENES - TOTAL (VOC)	221	0.0	0.00100		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_59
7220038	2964	DICHLOROMETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_66
7220038	2968	O-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_73
7220038	2969	P-DICHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_80
7220038	2976	VINYL CHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_87
7220038	2977	1,1-DICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_94

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2979	TRANS-1,2-DICHLOROETHENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_101
7220038	2980	1,2-DICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_108
7220038	2981	1,1,1-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_115
7220038	2982	CARBON TETRACHLORIDE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_122
7220038	2983	1,2-DICHLOROPROPANE(VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_129
7220038	2984	TRICHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_136
7220038	2985	1,1,2-TRICHLOROETHANE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_143
7220038	2987	TETRACHLOROETHYLENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_150
7220038	2989	CHLOROBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_157
7220038	2990	BENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_164
7220038	2991	TOLUENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_171
7220038	2992	ETHYLBENZENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_178
7220038	2996	STYRENE (VOC)	221	0.0	0.00050		110823	106		110723	E	0739	06003	2343670-02	KISTLERC_185

Certificate of Analysis

M.J. Reider Associates, Inc.
ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Laboratory No.: 2346711
Reported: 12/04/23
Lab Contact: Christina M Kistler

Attention: Chris Hannan
Reported To: Veolia Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2346711-01 **Collected By:** Client **Sampled:** 11/28/23 08:03 **Received:** 11/28/23 13:55
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	192	mg CaCO3/ L	20	SM 2320 B	11/29/23		ORL	N/A	N/A	
Total Hardness as CaCO3	334	mg/l	4.56	CALCULATED	11/29/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	11/29/23		JMW	N/A	N/A	
Silica as SiO2	22.7	mg/l	2.14	CALCULATED	11/30/23		HRG	N/A	N/A	
Conductivity	733	umhos/cm	10	SM 2510 B	11/29/23		ORL	N/A	N/A	
Total Metals										
Calcium	104	mg/l	1	EPA 200.7 Rev 4.4	11/29/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/29/23		HRG	N/A	0.3	PASS
Magnesium	18.3	mg/l	0.5	EPA 200.7 Rev 4.4	11/29/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/29/23		MPB	N/A	0.05	PASS
Silicon	10.6	mg/l	1.0	EPA 200.7 Rev 4.4	11/30/23		HRG	N/A	N/A	

Notes and Definitions

Pass Result less than or equal to EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2346711-01			
SM 4500-P F	SM 4500-P B	11/28/2023	JMW

Webb, Kodi <kodi.webb@veolia.com>

Data Added Successfully by HANNANJ

1 message

ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:24 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ successfully added data to DWELR on 12/07/23 at 11:24 AM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_181	701	110723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_182	703	110723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_183	707	110723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_184	704	111423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_185	705	111423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_186	701	112123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_187	703	112123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_188	707	112123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_189	704	112823
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_190	705	112823

Until the 11th of each month, you may obtain a copy of record by accessing the "Printer Friendly Version" of the View and Edit Records screen in DWELR. On or after the 12th of the month, you may view the sample results the Department has on file by accessing the Drinking Water Reporting System at http://www.drinkingwater.state.pa.us/dwrs/HTM/Welcome.html . If you see errors in the results which you submitted and would like to repudiate any of the results or wish to request a copy of record, please contact the PADWIS Section at 717-772-4018.

Webb, Kodi <kodi.webb@veolia.com>

File Uploaded Successfully by HANNANJ

6 messages

ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:16 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 100 Well No 1 (20).xls	HANNANJ	HANNANJ_1 through HANNANJ_30

Until the 11th of each month, you may obtain a copy of record by accessing the "Printer Friendly Version" of the View and Edit Records screen in DWELR. On or after the 12th of the month, you may view the sample results the Department has on file by accessing the Drinking Water Reporting System at http://www.drinkingwater.state.pa.us/dwrs/HTM/Welcome.html . If you see errors in the results which you submitted and would like to repudiate any of the results or wish to request a copy of record, please contact the PADWIS Section at 717-772-4018.

---

ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:17 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 102 Well No 2 (20).xls	HANNANJ	HANNANJ_31 through HANNANJ_60

[Quoted text hidden]

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ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:17 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 103 Well No 3 (20).xls	HANNANJ	HANNANJ_61 through HANNANJ_90

[Quoted text hidden]

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ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:18 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 104 Well No 4 (20).xls	HANNANJ	HANNANJ_91 through HANNANJ_120

[Quoted text hidden]

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ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:18 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 105 Well No 5 (20).xls	HANNANJ	HANNANJ_121 through HANNANJ_150

[Quoted text hidden]

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ra-padwis@pa.gov <ra-padwis@pa.gov> Thu, Dec 7, 2023 at 11:19 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 106 Well No 6 (21).xls	HANNANJ	HANNANJ_151 through HANNANJ_180

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APPENDIX 3
CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

NOVEMBER 2023 CUSTOMER SERVICE CALLS

VEOLIA MIDDLETOWN

Date	How Contact Was Received			Customer Service Inquiries															Field Service Requests					Field Request Info
	Call direct to Middletown CS	Customer Corrspondance (Letters/E mails)	TOTALS	Calls for Other Ops	Calls from City / Other Org	AppleTree Hold Call	General Acct. Info	Copy Of Bill	Correct. Bills	Bill Inquiry	Rates	Payment	Collection Letter	New Account	Finals	Meter Reading/Re-Reads	Service Complaints	C.S. Thank Yous	Sewer Back up or SSO	Water Leaks	Broke, Froze, Leaking Meter	No Water/Low Pressure	Water Quality	
November 1st, 2023	43	2	45	2			1			6	2	31	1											
November 2nd, 2023	33	0	33				2			3		28												
November 3rd, 2023	53	3	56							4		46			2		1							
November 6th, 2023	30	0	30							2		23	3		1	1								
November 7th, 2023	20	2	22	1				1		2		15			1									
November 8th, 2023	17	2	19	1						4		12												
November 9th, 2023	32	1	33							4		28												
November 13th, 2023	70	4	74	1			1			5		60		1	2									
November 14th, 2023	46	4	50	2				1		9		31		2	1									
November 15th, 2023	44	1	45				1			3		40												
November 16th, 2023	68	7	75	1						2		65												
November 17th, 2023	55	2	57	2						3		48			2									
November 20th, 2023	28	7	35	1						4		21		1	1									
November 21st, 2023	26	8	34	2			1			5		18												
November 22nd, 2023	29	2	31	3						4		20		1	1									
November 27th, 2023	38	5	43	2			1			6		26	2		1									
November 28th, 2023	35	2	37	1				2		4		21	3		3					1				
November 29th, 2023	30	1	31	2			1			7		17	1	2										
November 30th, 2023	28	3	31	3			2			5		10	4	1	3									
GRAND TOTALS	*725*	*56*	*781*	*24*	*0*	*0*	*10*	*4*	*0*	*82*	*2*	*560*	*14*	*8*	*18*	*1*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	

2023 MIDDLETOWN COLLECTION INFORMATION

	Bill Due Date	Date 10 Day Notice Issued	Number of 10 Day Notices issued for Balances over $50.00	Date 3 Day Notices Posted	Number of 3 Day Notices for Balances over $100.00	Shut offs
January Bill Cycle	2/15/2023	2/21/2023	237	3/10/2023	53	NO SHUT OFF DUE TO WEATHER
February Bill Cycle	3/15/2023	3/21/2023	238	4/13/2023	55	6 SHUT OFFS (4 VACANT) 2 PROPERTIES TURNED BACK ON
March Bill Cycle	4/17/2023	4/19/2023	252	5/10/2023	64	5 SHUT OFFS (2 VACANT) 3 PROPERTIES TURNED BACK ON
April Bill Cycle	5/16/2023	5/18/2023	246	6/7/2023	69	3 SHUT OFFS (1 VACANT, 2 OCCUPIED 2 PROPERTIES TURNED BACK ON
May Bill Cycle	6/16/2023	6/22/2023	244	7/10/2023	56	2 SHUT OFFS (2 OCCUPIED) 2 PROPERTIES TURNED BACK ON
June Bill Cycle	7/17/2023	7/20/2023	238	8/7/2023	77	NO SHUT OFFS
July Bill Cycle	8/16/2023	8/21/2023	258	9/8/2023	72	5 SHUT OFFS (5 VACANT) 5 PROPERTIES TURNED BACK ON
August Bill Cycle	9/15/2023	9/20/2023	253	10/9/2023	90	4 SHUT OFFS (4 OCCUPIED) 3 PROPERTIES TURNED BACK ON
September Bill Cycle	10/16/2023	10/19/2023	256			NO 3 DAYS NOTICES SENT OUT DUE TO ON MEDICAL LEAVE
October Bill Cycle	11/16/2023	11/20/2023	273	12/11/2023		
November Bill Cycle						
December Bill Cycle						

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,685	18,181,200	18,181,200		$	467,061.45
SR	2,658	0	0			
SR2	2,730	0	0			
W	5,369	22,944,600	22,944,600		$	289,331.67

12/04/2023 8:34 AM
ZONE: ALL ZONES
SERVICE: 200-WATER

IDLE METER REPORT

**** REPORT TOTALS ****

Book	Services	Addresses
02 - BOOK 02	1	0
04 - BOOK 04	4	0
05 - BOOK 05	1	0
09 - BOOK 09	1	0
12 - BOOK 12	4	0
15 - BOOK 15	2	0
16 - BOOK 16	2	0
18 - BOOK 18	1	0
20 - BOOK 20	1	1
21 - BOOK 21	1	0
29 - BOOK 29	2	0
Grand Totals	20	1

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID
W 89769385	INVENTORY				1483434850
W 68321084	INVENTORY				1440302592 Duplica
W 68321092	INVENTORY				1460155946 Duplica
W 68321088	INVENTORY				1460082070 Duplica
W 68652385	INVENTORY				1460168502 Duplica
W 8652384	INVENTORY				1440127130 Duplica
W 60433874	INVENTORY				1547474280
W 68652383	INVENTORY				1460195730 Duplica
W 69632167	INVENTORY				1460195756 Duplica
W 70112613A	INVENTORY				1470321453 Duplica
W 70112613	INVENTORY				1470321452 Duplica
W 70323396	INVENTORY				1471966926 Duplica
W 70323396A	INVENTORY				1471966927 Duplica
W 70323397A	INVENTORY				1470157603 Duplica
W 70323397	INVENTORY				1470157602 Duplica
W 69632184	INVENTORY				1542361382
W 35670264	INVENTORY				1440131648 Duplica
W 35670270	INVENTORY				1542411182
W 35670271	INVENTORY				1440096730 Duplica
W 35670267	INVENTORY				1551255668
W 36512912	INVENTORY				1460079314 Duplica
W 36512915	INVENTORY				1568109238
W 36512901	INVENTORY				1440121830 Duplica
W 36512922	INVENTORY				1460197074 Duplica
W 36512921	INVENTORY				1440128082 Duplica
W 37016026	INVENTORY				1470153476
W 27016014	INVENTORY				1548612198
W 85441897	INVENTORY				1563419820
W 53388599	INVENTORY				1551754996
W 38982668	INVENTORY				1548613312
W 39759236	INVENTORY				1564217606
W 10659431	INVENTORY				1568103474
W 10871871	INVENTORY				1568031178
W 10871883	INVENTORY				1563387082
W 10871886	INVENTORY				1563522708
W 12164947	INVENTORY				1573617074

*** TOTAL METERS IN SERVICE 2766
*** TOTAL METERS IN INVENTORY 994

SERVICE ORDER STATISTICS REPORT

ACTION		ISSUED THIS PERIOD ISSUED	ISSUED THIS PERIOD COMPLETED	ISSUED THIS PERIOD VOIDED	ISSUED THIS PERIOD OUTSTANDING	PRIOR ORDERS COMPLETED	PRIOR ORDERS VOIDED	PRIOR ORDERS OUTSTANDING	TOTAL COMPLETED	TOTAL OUTSTANDING
C	CONNECT	4	4	0	0	198	4	0	202	0
D	DISCONNECT	0	0	0	0	46	4	0	46	0
F	CUTOFF	0	0	0	0	3	3	0	3	0
I	METER INFO	9	9	0	0	3,878	103	0	3,887	0
M	METER CHANGE	71	71	0	0	883	8	0	954	0
O	OCC CHANGE	11	11	0	0	1,540	3	0	1,551	0
R	REINSTATE	0	0	0	0	2	2	0	2	0
S	SERV CHANGE	0	0	0	0	34	0	0	34	0
X	MISC	1	1	0	0	843	25	0	844	0
	** GRAND TOTALS **	96	96	0	0	7,427	152	0	7,523	0

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE
ACTIVE ACCOUNTS:	2,751	195,851.36	755,748.56	951,599.92
DISCONNECTED ACCTS:	11	2,224.57	644.56	2,869.13
FINALED ACCOUNTS:	404	17,452.37		17,452.37
INACTIVE ACCOUNTS:	12,486	0.00		0.00
GRAND TOTALS	15,652	215,528.30	756,393.12	971,921.42

ACTIVE ACCOUNT RECONCILIATION	
NEW ACCOUNTS:	16
DISCONNECT--NO TRF:	11
DISCONNECT-TRANSFER:	0

CALCULATION SUMMARY	
TOTAL CHARGES:	756,393.12
DEPOSIT RETURNS:	0.00
TOTAL CURRENT:	756,393.12

===== SERVICE CATEGORY TOTALS =====

CATEGORY	NUMBER	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION
S SEWER	2685	467,061.45	0.00	0.00	0.00	18181,200.0000		18181,200.0000
SR SURCHARGE	1	0.00	0.00	0.00	0.00			
SR2 SURCHARGE 2	1	0.00	0.00	0.00	0.00			
W WATER	5370	289,331.67	0.00	0.00	0.00	22944,600.0000		22944,600.0000
TOTALS		756,393.12	0.00	0.00	0.00			

======== REVENUE CODE TOTALS ========

	R/C DESCRIPTION	G/L ACCOUNT#	AMOUNT
SERVICES:			
	200-WTR MDT	687-145900	94,219.05
	203-WTR MDT COMMERCIAL	687-145900	123,073.60
	206-CUSTOMER CHARGE	687-145900	12,524.82
	207-SERVICE CHG / METER	687-145900	49,333.80
	210-WTR ROYAL	687-145900	10,122.50
	220-WTR L SWT	687-145900	57.90
	230-SURCHARGE WATER/SEWER	687-145900	0.00
	231-SURCHARGE WATER/SEWER	687-145900	0.00
	300-SWR MDT	687-145800	401,729.40
	306-SW CUST CHARGE	687-145800	65,332.05
	310-SWR ROYAL	687-145800	0.00
	320-SWR L SWT	687-145800	0.00
	R/C TOTALS		756,393.12

========== RATE TABLE TOTALS ==========

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
S	300	LST	SEWER -LWR SW TWP	LST	1	0.00	0.00	0.00	0.00		
S	300	RB	SEWER -ROYALTON	RB	1	0.00	0.00	0.00	0.00		
S	300	SW	SEWER	SW	2683	467,061.45	0.00	0.00	0.00	18,181,200.0000	799

RATE TABLE TOTALS
** (CONTINUED) **

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
SR	230	SR2	SURCHARGE WATER/SEWE	SR2	1	0.00	0.00	0.00	0.00		
SR2	231	SR2	SURCHARGE WATER/SEWE	SR2	1	0.00	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	35	4,508.84	0.00	0.00	0.00	352,100.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	7,871.92	0.00	0.00	0.00	734,000.0000	
W	200	C20	COMM 2" MTR	C20	22	20,439.40	0.00	0.00	0.00	1,906,900.0000	
W	200	C30	COMM 3" MTR	C30	5	8,397.64	0.00	0.00	0.00	791,600.0000	
W	200	C40	COMM 4" MTR	C40	2	145.96	0.00	0.00	0.00	6,600.0000	
W	200	C58	COMM 5/8" MTR	C58	15	2,046.07	0.00	0.00	0.00	164,300.0000	
W	200	C60	COMM 6" MTR	C60	13	73,955.70	0.00	0.00	0.00	7,048,600.0000	
W	200	C75	COMM 3/4" MTR	C75	2	399.72	0.00	0.00	0.00	34,000.0000	
W	200	C80	COMM 8" MTR	C80	4	8,504.80	0.00	0.00	0.00	795,900.0000	
W	200	COM	COMPOUND WATER N/C	COM	12	0.00	0.00	0.00	0.00		
W	200	LS8	LOWER SWAT 8" MTR	LS8	1	57.90	0.00	0.00	0.00	100.0000	
W	200	NCW	NO CHG	NCW	25	0.00	0.00	0.00	0.00	53,100.0000	
W	200	R10	RESID 1" MTR	R10	40	1,982.00	0.00	0.00	0.00	97,500.0000	
W	200	R58	RESID - 5/8'" MTR	R58	2560	145,597.27	0.00	0.00	0.00	8,465,900.0000	
W	200	R60	RESID 6" MTR	R60	1	4,683.22	0.00	0.00	0.00	445,500.0000	
W	200	R75	RESID 3/4" MTR	R75	4	488.48	0.00	0.00	0.00	38,100.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	10,122.50	0.00	0.00	0.00	2,010,400.0000	
W	210	A1V	FLAT RATE WATER -VAR	A1V	2	130.25	0.00	0.00	0.00		
W	220	MC	WATER METER CHARGE -	MC	2616	0.00	0.00	0.00	0.00		
			TOTALS			756,393.12	0.00	0.00	0.00		

METER GROUP TOTALS

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	22,944,600.0000	0.000	22,944,600.0000	

REFUNDED DEPOSIT TOTALS

CODE	DESCRIPTION	NUMBER	AMOUNT
	DEPOSIT TOTALS	0	0.00

========== REPORT TOTALS ==========

==== REVENUE CODE TOTALS ====

REVENUE CODE:	--CURRENT--	+1 MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
081-NSF CK FEE	0.00	35.88	16.64	7.48	0.00	60.00
200-WTR MDT	92933.80	17024.58	8988.22	5269.36	4726.56	128942.52
201-WATER TURN ON	0.00	16.77	29.63	26.94	46.66	120.00
203-WTR MDT COMMERCIAL	122317.79	1417.02	1005.79	370.53	139.82	125250.95
206-CUSTOMER CHARGE	12207.90	2427.36	1177.26	669.54	2691.12	19173.18
207-SERVICE CHG / METER	47981.06	9499.21	4568.88	2601.47	10452.21	75102.83
210-WTR ROYAL	10122.50	0.00	0.00	0.00	0.00	10122.50
220-WTR L SWT	57.90	0.00	0.00	0.00	0.00	57.90
230-SURCHARGE WATER/SEWER	16.28	8.08	8.09	8.09	1240.31	1280.85
231-SURCHARGE WATER/SEWER	22.06	4493.37	2193.62	1229.39	2418.80	10357.24
275-WTR PEN	205.14CR	2243.49	999.11	520.29	1089.56	4647.31
300-SWR MDT	395938.19	39009.48	21089.40	11849.79	10575.49	478462.35
306-SW CUST CHARGE	63672.16	12940.78	6281.65	3616.56	27043.25	113554.40
375-SWR PEN	287.72CR	3784.05	1701.83	878.30	2402.49	8478.95
996-UNAPPLIED	16374.17CR	0.00	0.00	0.00	0.00	16374.17CR
999-REFUND	2199.14CR	0.00	0.00	0.00	0.00	2199.14CR
TOTALS	726203.47	92900.07	48060.12	27047.74	62826.27	957037.67

TOTAL REVENUE CODES: 957,037.67
TOTAL ACCOUNT BALANCE: 957,037.67
DIFFERENCE: 0.00

PERIOD: 11/01/2023 THRU 11/30/2023
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	01	2	56.17CR
	02	1	7.29CR
	09	3	28.32CR
	20	6	7.06CR
	21	3	150.00
	22	4	2,688.20CR
	28	137	0.00
	29	1	15.09CR
		ADJUSTMENT TOTAL	2,652.13CR
BILL	03	2	56.00
	20	6	350.31
	28	2,754	755,986.81
		BILL TOTAL	756,393.12
APPLIED DEPOSIT	28	1	0.00
		APPLIED TOTAL	0.00
LATE CHARGE	28	530	7,615.35
		LATE TOTAL	7,615.35
MEMO	20	4	0.00
		MEMO TOTAL	0.00
PAYMENT	01	56	10,592.17CR
	02	63	10,933.04CR
	03	69	14,053.74CR
	06	310	85,600.85CR
	07	138	30,472.66CR
	08	114	18,503.53CR
	09	96	43,904.95CR
	10	47	8,688.59CR
	13	263	220,038.92CR
	14	102	63,833.97CR
	15	68	12,821.86CR
	16	197	84,361.89CR
	17	72	12,501.37CR
	20	139	37,327.88CR
	21	38	8,793.15CR
	22	44	7,309.64CR
	24	11	1,950.44CR
	27	83	14,412.91CR
	28	28	5,491.36CR

Difference - adj total ± $ Billed - Other Revenue $4963.22

PERIOD: 11/01/2023 THRU 11/30/2023
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
	29	31	6,634.51CR
	30	19	5,333.36CR
	PAYMENT TOTAL		703,561.39CR
DRAFT	16	27	7,316.79CR
	20	403	77,455.56CR
	DRAFT TOTAL		84,772.35CR
REVERSE-PAY	20	2	135.05
	22	1	188.49
	REVERSE PAY TOTAL		323.54
	GRAND TOTAL FOR PERIOD		26,653.86CR

Total collected = $788,333.74

Partner Reporting Dashboard

Back to Partner Select Page

SUEZ (Middletown)

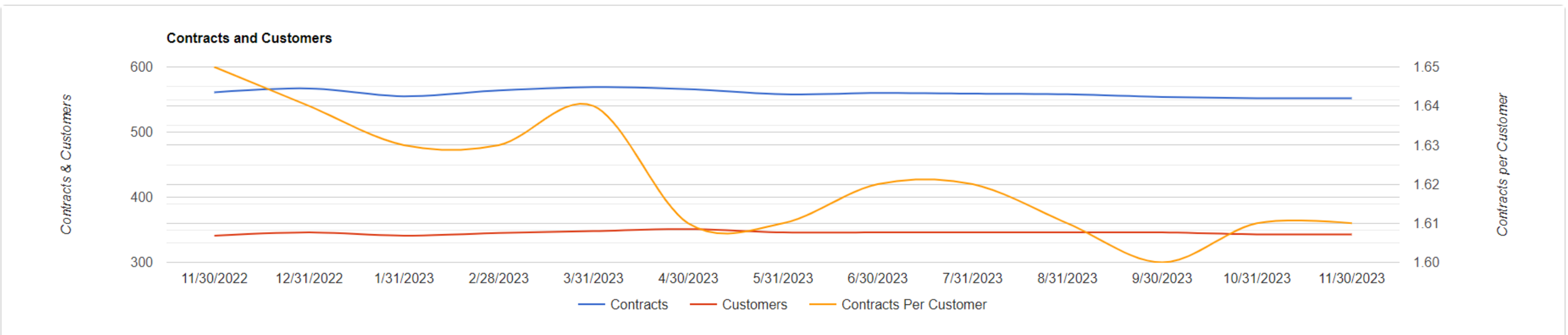
Date Start

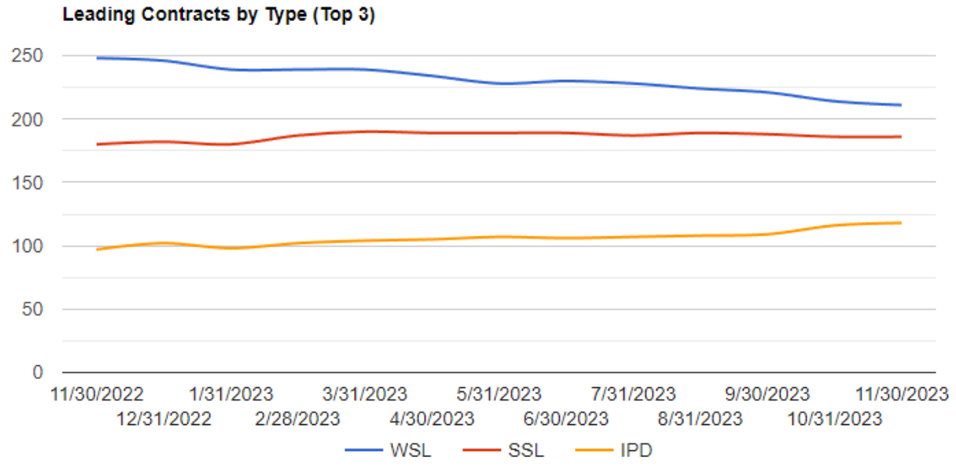
2022-11-30

Date End

2023-11-30

Filter




Leading Contracts by Type (Top 3)
250
200
150
100
50
0
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
6/30/2023
7/31/2023
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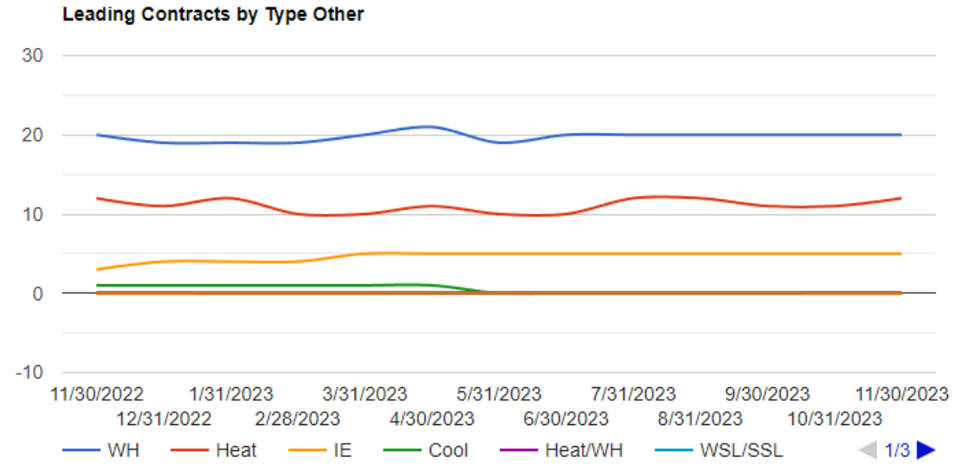
9/30/2023
10/31/2023
11/30/2023
WSL
SSL
IPD


Leading Contracts by Type Other
30
20
10
0
-10
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
6/30/2023
7/31/2023
8/31/2023
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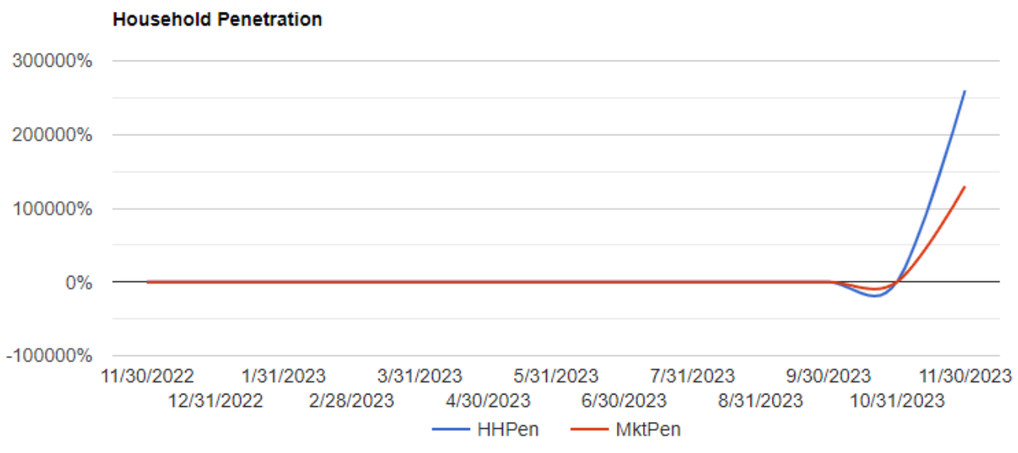
10/31/2023
11/30/2023
WH
Heat
IE
Cool
Heat/WH
WSL/SSL
1/3


Household Penetration
300000%
200000%
100000%
0%
-100000%
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
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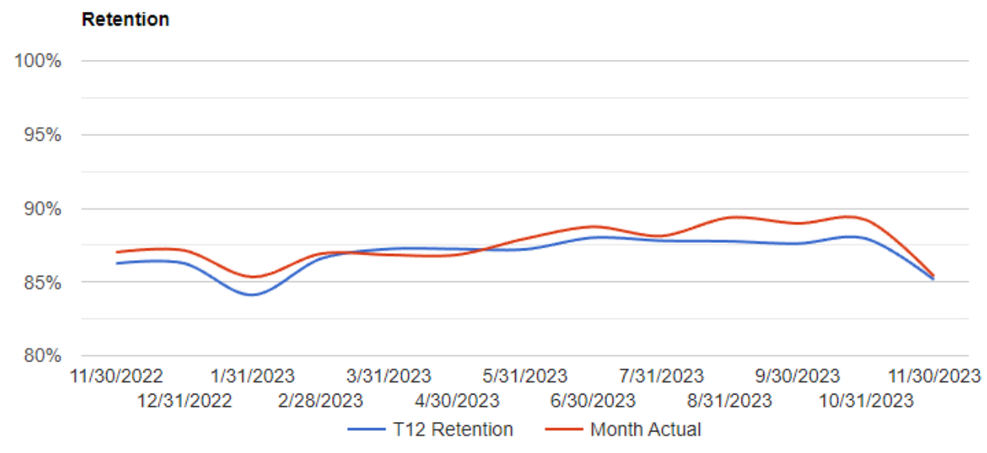
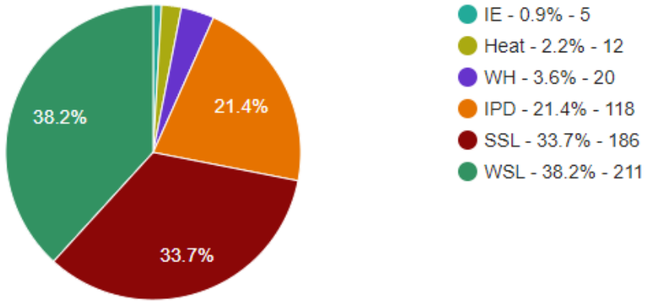
9/30/2023
10/31/2023
11/30/2023
HHPen
MktPen

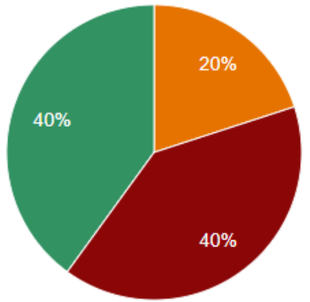

Retention
100%
95%
90%
85%
80%
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
6/30/2023
7/31/2023
8/31/2023
9/30/2023
10/31/2023
11/30/2023
T12 Retention
Month Actual

Contracts by Product Type



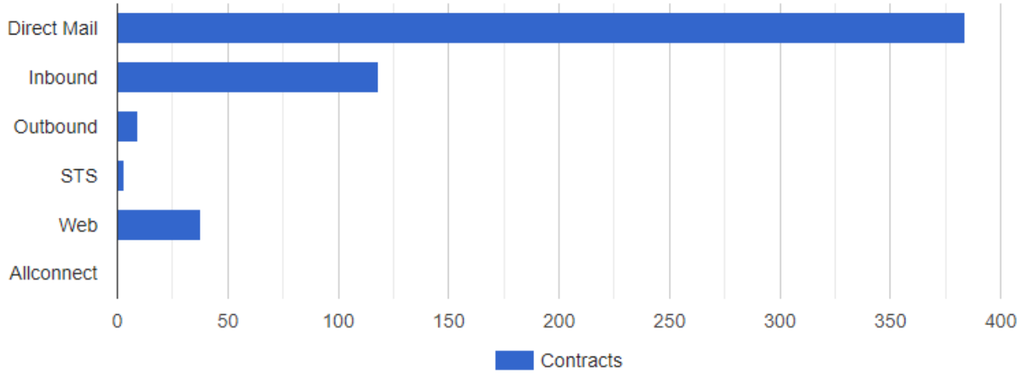
- IE - 0.9% - 5
- Heat - 2.2% - 12
- WH - 3.6% - 20
- IPD - 21.4% - 118
- SSL - 33.7% - 186
- WSL - 38.2% - 211

Contracts by Type - Last 30 Days

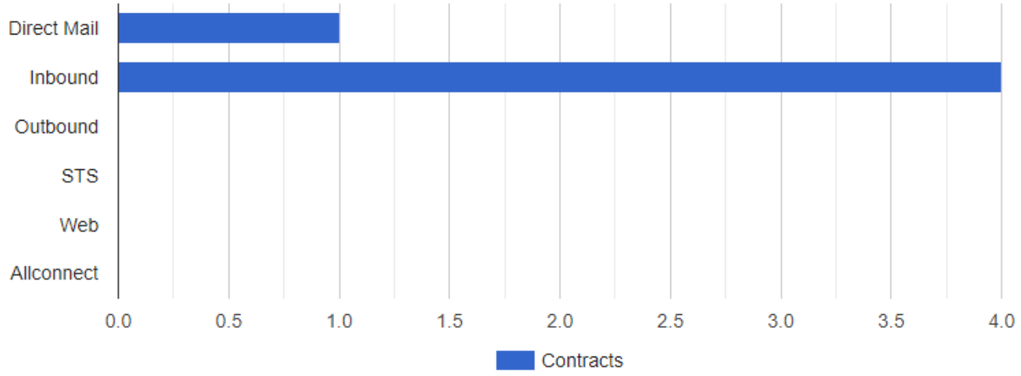


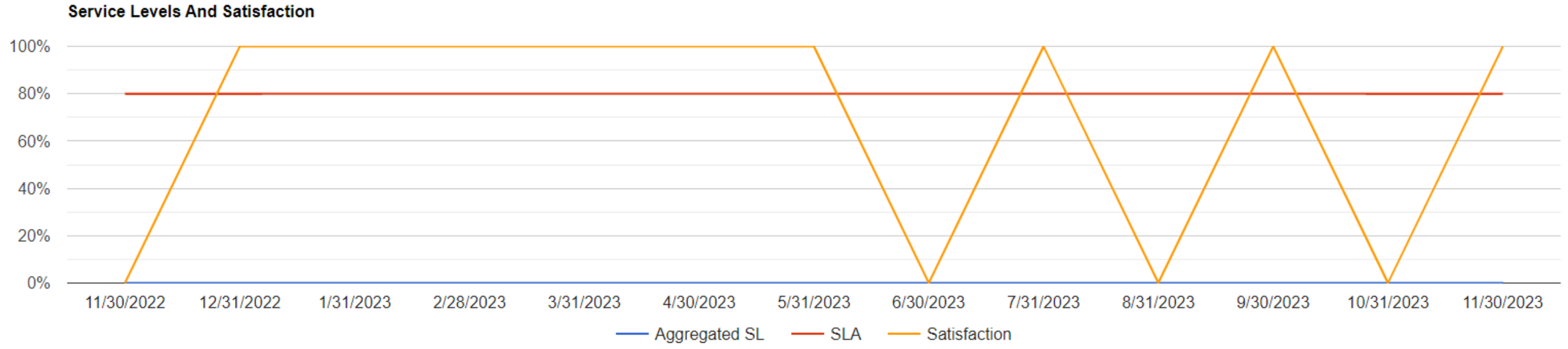
- SSL - 20.0% - 1
- Heat - 40.0% - 2
- IPD - 40.0% - 2

Contracts by Channel



Contracts by Channel - Last 30 Days




Service Levels And Satisfaction
100%
80%
60%
40%
20%
0%
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
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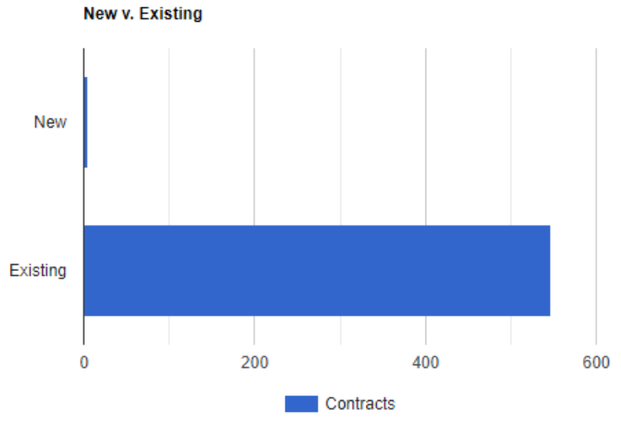
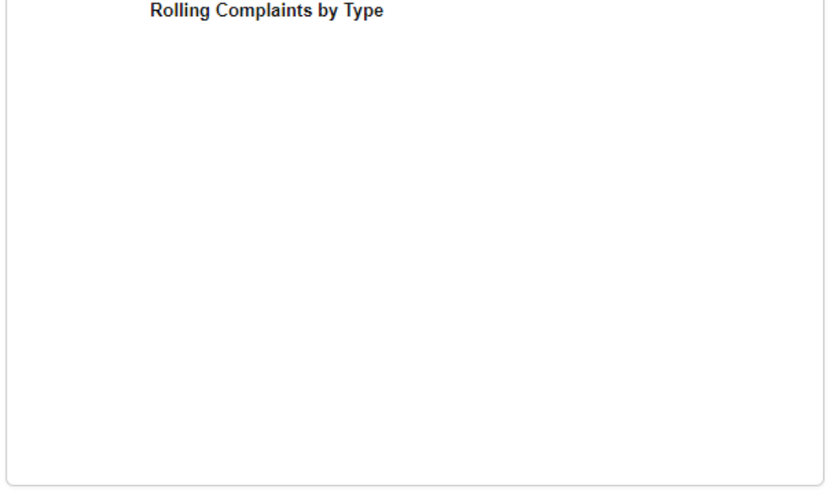
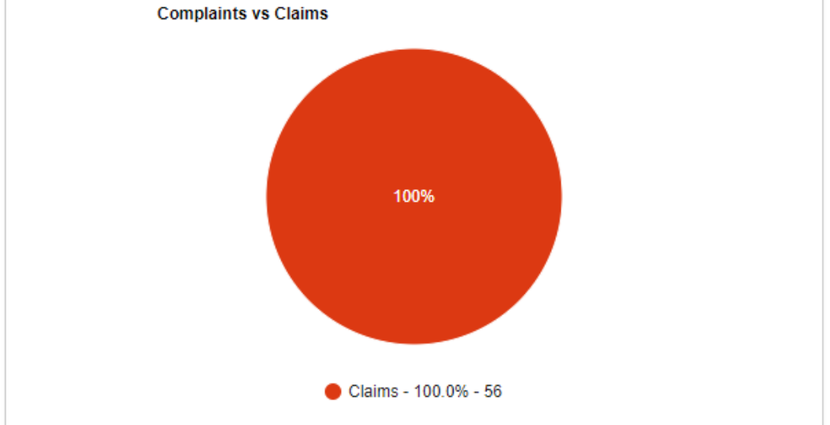
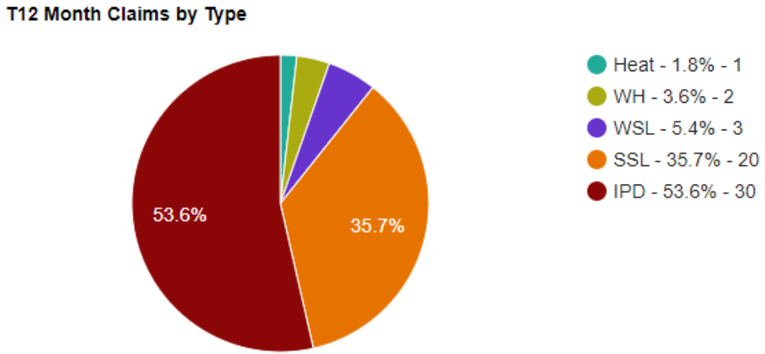
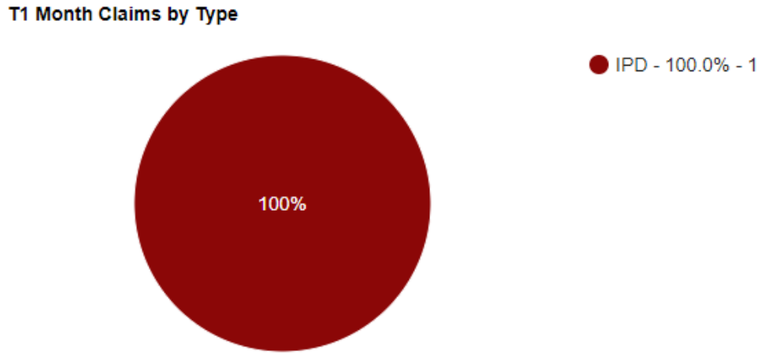
9/30/2023
10/31/2023
11/30/2023
Aggregated SL
SLA
Satisfaction

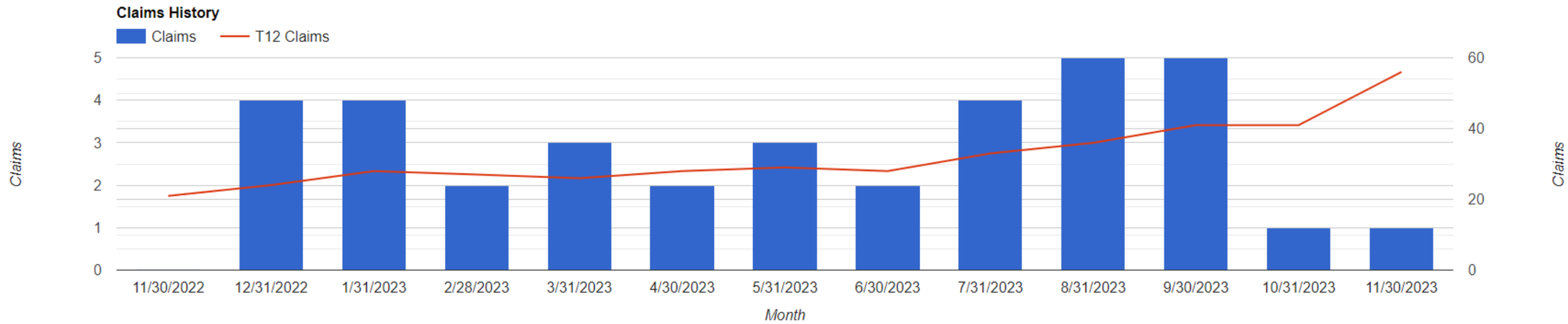

New v. Existing
New
Existing
0
200
400
600
Contracts


Rolling Complaints by Type


Complaints vs Claims
100%
Claims - 100.0% - 56


T12 Month Claims by Type
Heat - 1.8% - 1
WH - 3.6% - 2
WSL - 5.4% - 3
SSL - 35.7% - 20
IPD - 53.6% - 30
53.6%
35.7%


T1 Month Claims by Type
IPD - 100.0% - 1
100%


Claims History
Claims
T12 Claims
Claims
Month
Claims
0
1
2
3
4
5
0
20
40
60
11/30/2022
12/31/2022
1/31/2023
2/28/2023
3/31/2023
4/30/2023
5/31/2023
6/30/2023
7/31/2023
8/31/2023
9/30/2023
10/31/2023
11/30/2023

APPENDIX 4

WATER MAIN LEAK LOGS

APPENDIX 5

QUARTERLY METER TEST AND CALIBRATION REPORTS

APPENDIX 6