Veolia MIDDLETOWN
453 South Lawrence Street
Middletown, PA 17057
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January 13, 2023

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RE: Transmittal of Veolia Middletown Operations Report December 2022

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

DECEMBER 2022

EXECUTIVE SUMMARY

This report covers the monthly period ofDecvember 1, 2022 through December 31, 2022.

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.
- As COVID-19 Pandemic continues in the U.S., local operations have implemented Business Continuity Plans at the direction of Veolia-NA with guidance from the CDC and WHO.
- 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.
- Work with HRG, Tri-Star, and Kohl Bros. on modifications and upgrades to the groundwater elevation monitoring equipment.
- Continue with Well # 4 Pump Replacement, and integration of new chemical feed system.
- Installation of Safety Upgrades for Water and Wastewater systems.
- Remove stockpile of biosolids to new farm.
- Fixed leaks at Spruce and Beechwood and Witherspoon Ave.
- Continue sewer jetting.

Regulatory Compliance

NOV was issued on March 1st 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
    - Once replacement pump is selected a permit application will be filed with PA DEP by HRG.
    - After permit approval, new chemical feed system will be installed and integrated.
- Veolia working with HRG on permit amendments
  - Well 4 Permit Application –**Approval Received on 6/25/21**
    - Well 4 replacement pump application approved.
  - 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
- Chemical feed upgrade for Well 2 complete on November 3, 2022

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 December was successfully completed on December 27th, 2022. Restarted the Delinquent Notification and Shut-Off Program which was previously suspended due to COVID-19
  - Sent 211, 10 day shut-off notices to accounts that were $50 past due for the November 2022 billing period
  - Posted 38 properties with 3 day shut-off notices

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.

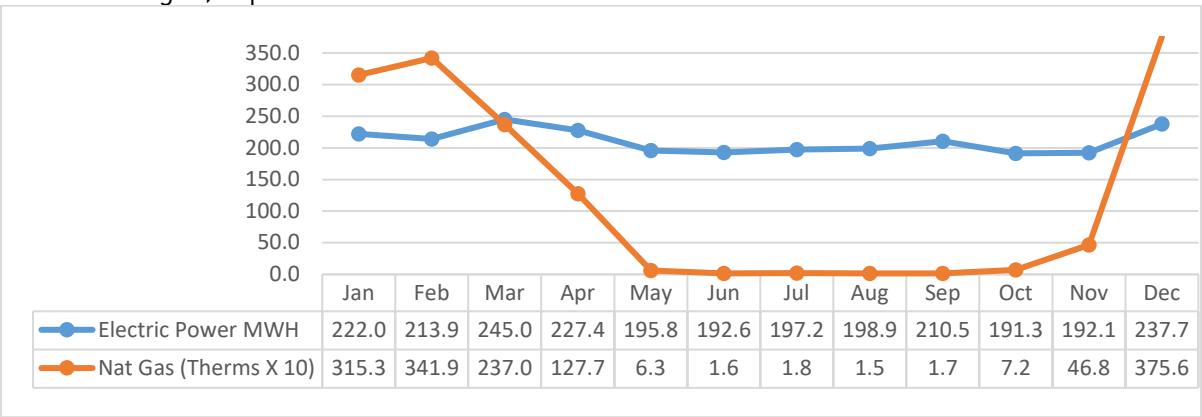
Quality Control Reporting

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	222.0	213.9	245.0	227.4	195.8	192.6	197.2	198.9	210.5	191.3	192.1	237.7
Nat Gas (Therms X 10)	315.3	341.9	237.0	127.7	6.3	1.6	1.8	1.5	1.7	7.2	46.8	375.6

*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

Objectives for sustainability will be developed in the coming months.

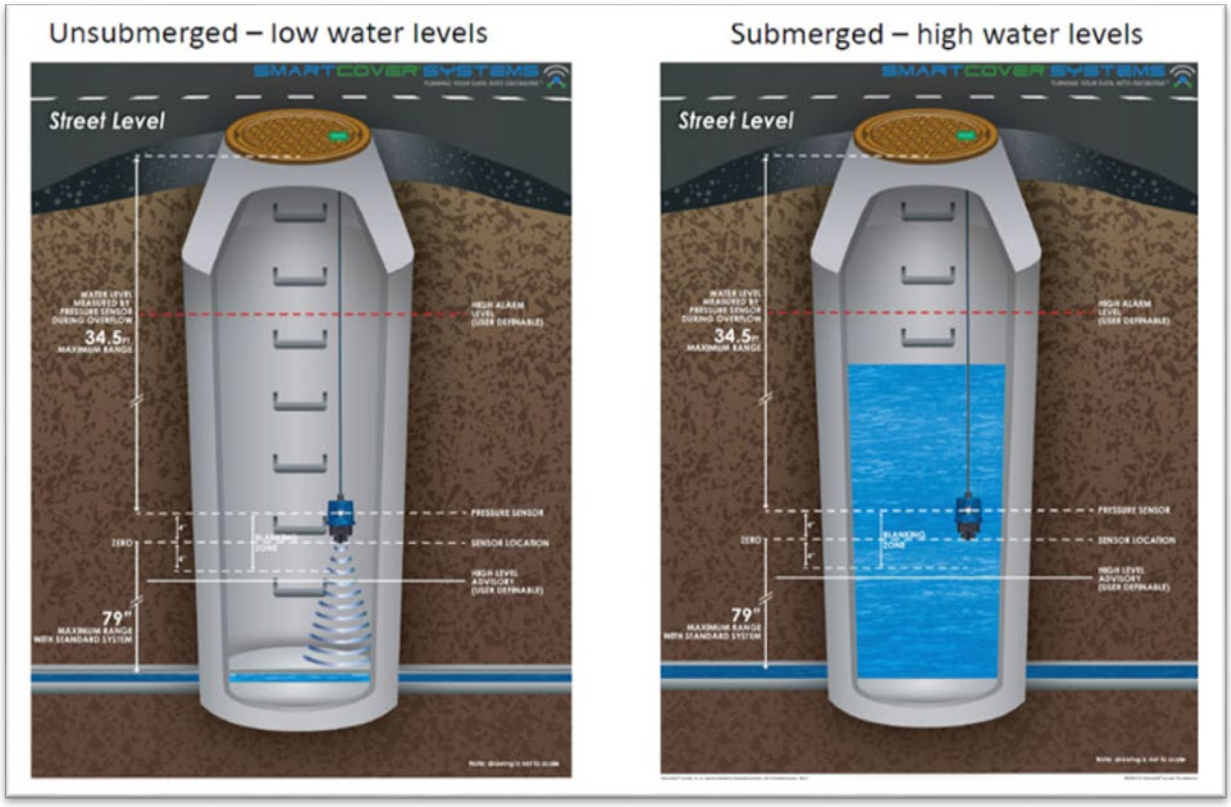
Water System and Wastewater Treatment Plant Maintenance

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	In Progress
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	Vac-Con	Vehicle	9/27/22	Motor Failure	12/30/22
WWTP	Mixer	Ox Ditch 2	11/17/22	Sensor Failure	In Progress

Sanitary Sewer System

SmartCover® Sewer Monitoring System



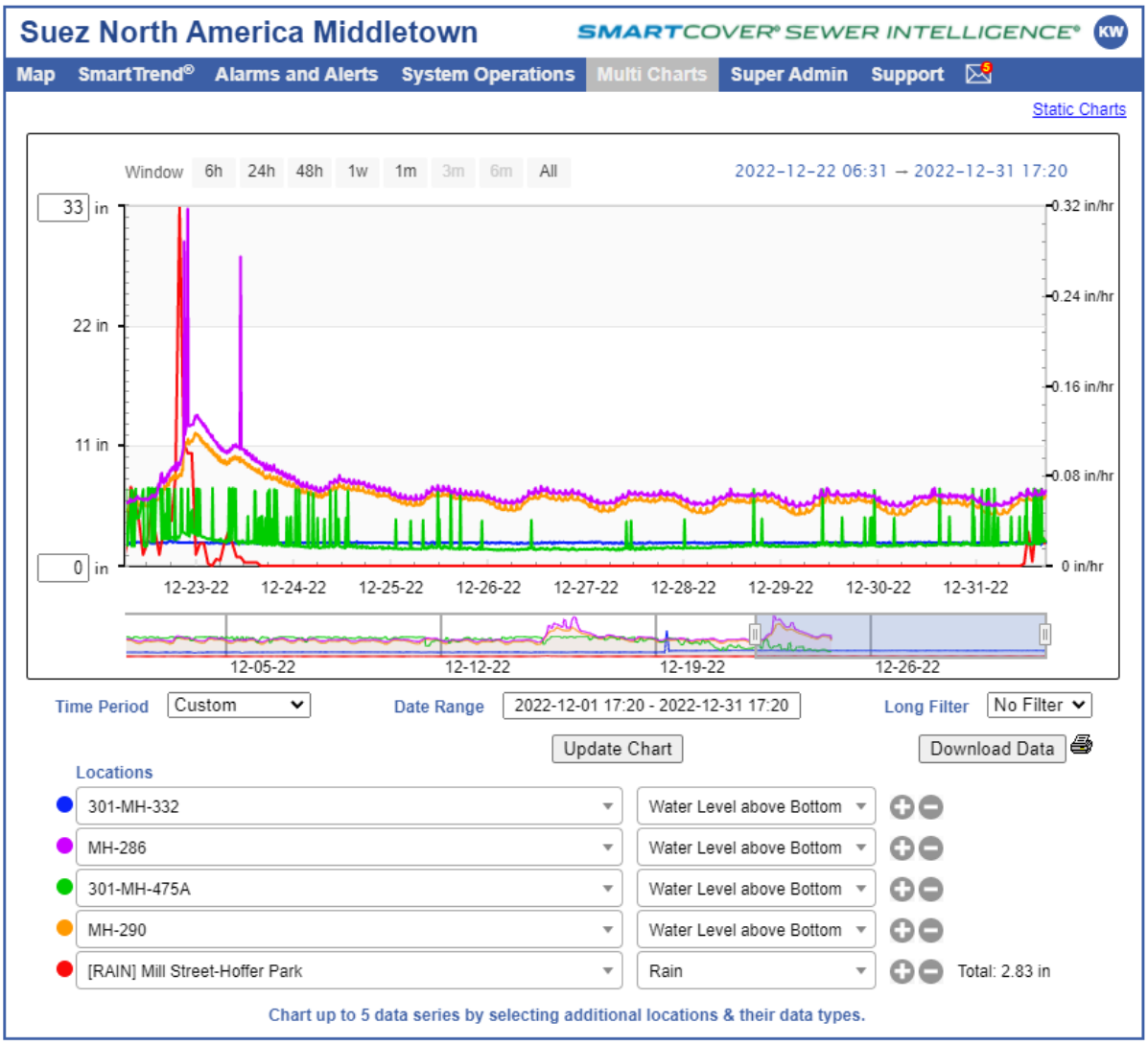
Ultrasonic level sensor (on the left) and pressure transducer (on the right). The covers use level sensing technology to analyze sewer elevations throughout the monitored area. This technology is used to monitor and reduce sanitary sewer overflows (SSO's) at problematic locations. The SmartCovers installed 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". This data was also included in the 2021 Annual Chapter 94 Report/CAP Update which was submitted to PA DEP in early 2021. The sensor at MH-332 malfunctioned, and maintenance was performed by the vendor to remedy the sensor.

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.



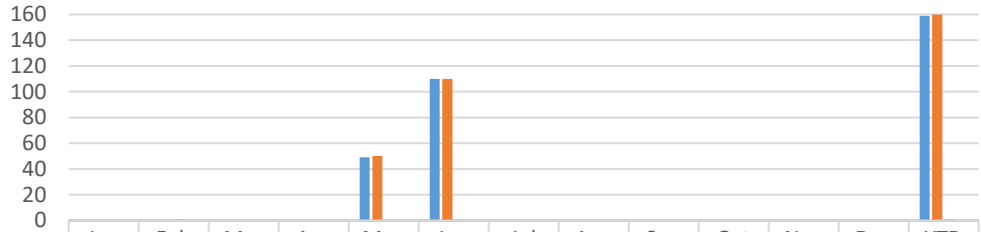
KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	1	0	0
Current	0	0	15002	0
YTD	159	112	17397	35

On Target – Good Work	Caution	Significantly Behind Goal

KPI Comments

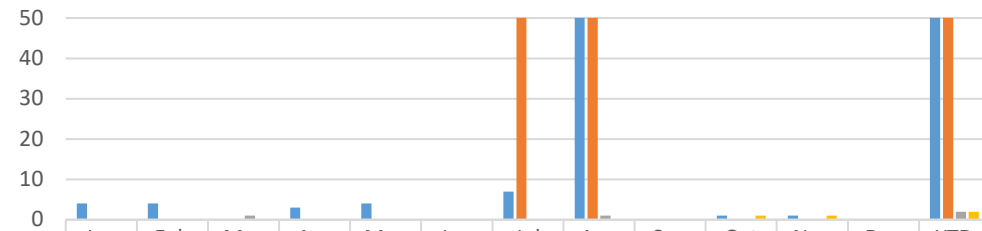
- Water Loss: Identifying and reducing the system water loss has been a key focus for Veolia. In an effort to identify and resolve the sources of water loss,
- continue to (1) verify the accuracy of the billing system reports, (2) verify the production meter accuracy at each well site based on review 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 2021 CCTV requirement was completed in January 2022. Sanitary main cleaning and CCTV inspections will continue to meet the 2022 requirement.

Hydrants Inspected, Tested and Flushed



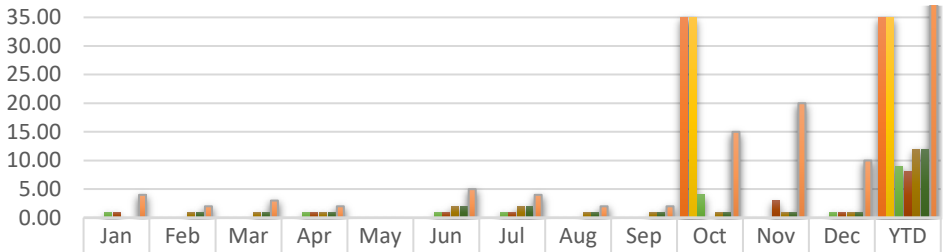
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Inspected	0	0	0	0	49	110	0	0	0	0	0	0	159
2022 Plan	0	0	0	0	50	110	0	0	0	0	0	0	160
No. Repaired	0	1	0	0	0	0	0	0	0	0	0	0	1
No. Replaced	0	0	0	0	0	0	0	0	0	0	0	0	0

Water Main Valves Exercised



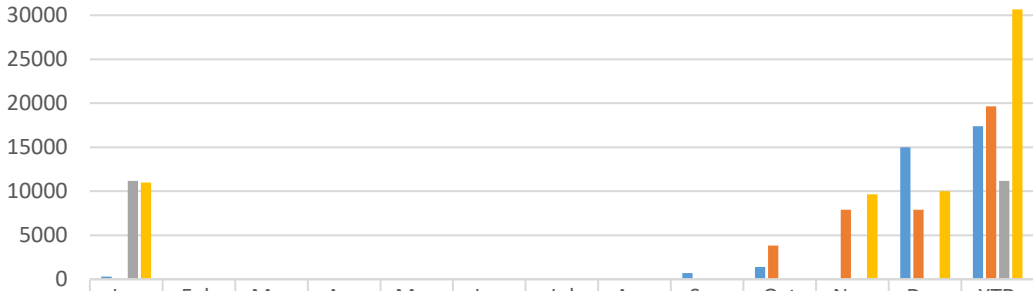
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Exercised	4	4	0	3	4	0	7	98	0	1	1	0	122
2022 Plan	0	0	0	0	0	0	60	60	0	0	0	0	120
No. Replaced	0	0	1	0	0	0	0	1	0	0	0	0	2
No. Repaired	0	0	0	0	0	0	0	0	0	1	1	0	2

Water System Leak Detection



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Miles Surveyed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	35.00
2022 Plan Survey	0	0	0	0	0	0	0	0	0	35	0	0	35
Main Leaks Located	1	0	0	1	0	1	1	0	0	4	0	1	9
Main Leaks Repaired	1	0	0	1	0	1	1	0	0	0	3	1	8
Service Leaks Located	0	1	1	1	0	2	2	1	1	1	1	1	12
Service Leaks Repaired	0	1	1	1	0	2	2	1	1	1	1	1	12
Estimated Leakage (Gallons/Day x 1000)	4	2	3	2	0	5	4	2	2	15	20	10	69

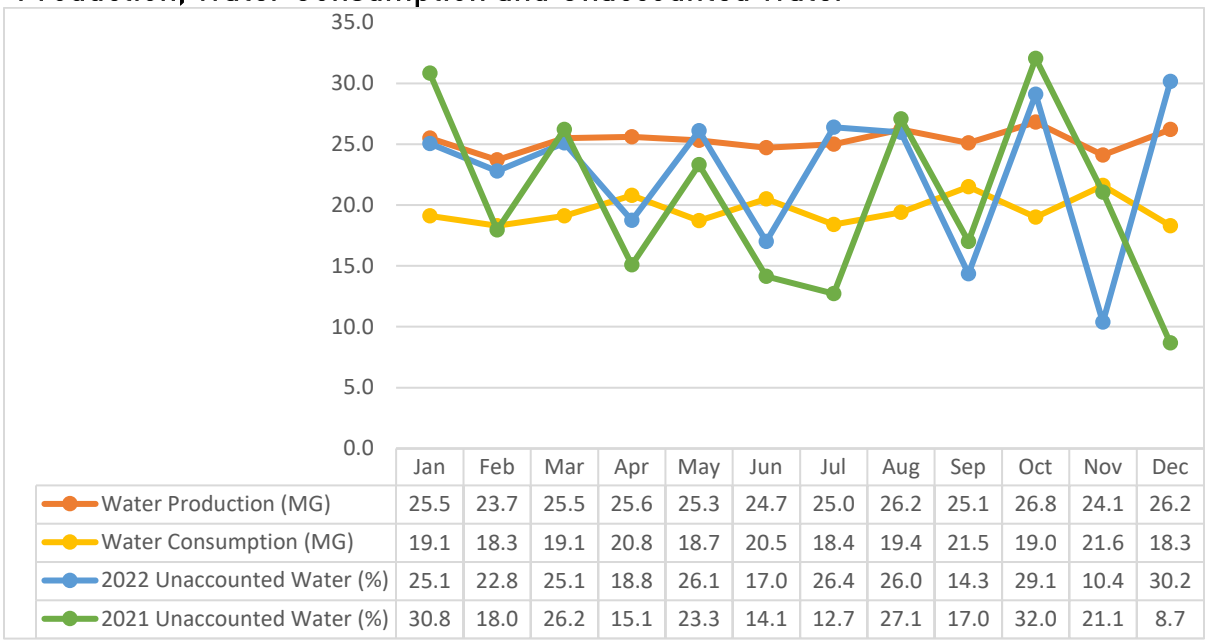
Wastewater Mains Cleaned/CCTV Inspected



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Linear Feet Flushed	297	0	0	0	0	0	0	0	693	1405	0	15002	17397
2022 Plan	0	0	0	0	0	0	0	0	0	3850	7900	7900	19650
Linear Feet CCTV	11170	0	0	0	0	0	0	0	0	0	0	0	11170
2022 Plan CCTV	11000	0	0	0	0	0	0	0	0	0	9650	10000	30650

Approximately 11,000 feet of CCTV remaining from 2021 was completed in January 2022.

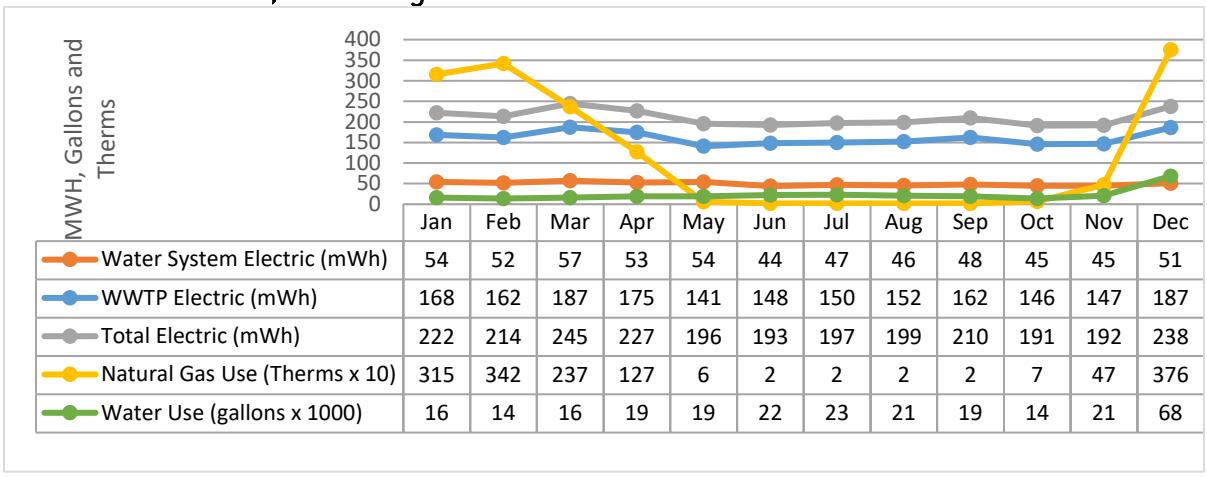
Water Production, Water Consumption and Unaccounted Water



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Production (MG)	25.5	23.7	25.5	25.6	25.3	24.7	25.0	26.2	25.1	26.8	24.1	26.2
Water Consumption (MG)	19.1	18.3	19.1	20.8	18.7	20.5	18.4	19.4	21.5	19.0	21.6	18.3
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
2021 Unaccounted Water (%)	30.8	18.0	26.2	15.1	23.3	14.1	12.7	27.1	17.0	32.0	21.1	8.7

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.
*Unaccounted for water increased in May due to hydrant flushing. Unaccounted for water increased in December due to sewer jetting.

Utilities: Electric Power, Natural gas & Potable Water Use



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water System Electric (mWh)	54	52	57	53	54	44	47	46	48	45	45	51
WWTP Electric (mWh)	168	162	187	175	141	148	150	152	162	146	147	187
Total Electric (mWh)	222	214	245	227	196	193	197	199	210	191	192	238
Natural Gas Use (Therms x 10)	315	342	237	127	6	2	2	2	2	7	47	376
Water Use (gallons x 1000)	16	14	16	19	19	22	23	21	19	14	21	68

Process Chemicals: Water and WWTP Treatment

Chemical	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hypochlorite (Water)	gal	237	201	216	239	219	231	266	327	306	293	235	261	3031
Hydroflurosilic Acid	lbs	251	267	305	311	380	416	312	310	311	238	176	296	3573
Alum	gal	1309	1274	1466	1382	1370	1418	1363	1152	1155	1114	1104	51	14158
Thickening Polymer	gal	45	65	64	64	74	54	60	60	45	37	49	58	675
Dewatering Polymer	gal	60	90	113	85	84	109	69	45	37	60	90	76	918
Chlorine (WWTP)	lbs	384	412	384	537	724	527	375	327	399	423	474	439	5405
Lime	lbs	3464	4692	5798	4425	5089	5620	3717	2877	2036	1428	2407	5531	47084

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.

National Meter was contracted with in 2021 to perform replacement and testing of approximately 270 of the oldest small meters within the distribution system each year. In 2021, 269 small meters were replaced. Small Meter Test Results have been added to the the table below. There was a 97% pass rate of the meters tested in 2021. In 2022, due to supply chain issues, small meters that had known issues were targeted for replacement. Currently, 64 small meters have been replaced with a 67.5% pass rate.

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	0	1	1	1	1	4
Water Process	17	0	0	15	0	0	15	0	0	15	0	0	17	15	15	15	62
Interconnect/Large	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Meter	0	0	1	0	0	0	0	0	20	0	0	20	1	0	20	20	41
TOTAL	18	0	1	16	0	0	16	0	20	16	0	20	19	16	36	36	107

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, especially concerning COVID-19.
- Univar Meter Replacement.
- Upgrades to Chemical Feed Systems.
- Continue Well # 4 Pump Replacement.
- Safety Upgrades to water and wastewater systems.
- Assist in coordinating the day-to-day needs of the Capital Improvement Project.
- Continue painting hydrants as weather allows.
- Complete annual sewer jetting.

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 is still closed, but the telephone and drop box for payments remain open. Call volume increased in December with a total of 746 calls received. Call volume has remained high 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 LIHWAP program ended on October 28, 2022, due to lack of federal funding. Twenty-five customers qualified and were able to utilize the program.

The release of bill files for printing and mailing this month occurred in 1 day with bills for services provided December being mailed to customers on December 28th.
The average gross monthly collection rate for December was 101.7% and 101.03% 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 33 accounts this month, which is down from last month. There were no idle meters with consumption this month.

The number of Field Service Requests in December was 52. Field Service Requests have resumed due to lower COVID threat level.

In March of 2021, Veolia implemented a new customer bill design. The re-design will help 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 383 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	2021	2020
General Acct. Info	9	12	16	18	17	13	10	8	5	4	8	3	123	131	179
Bill Inquiry	210	99	176	167	146	142	93	97	63	118	65	72	1448	934	764
Finals	14	9	20	26	32	27	25	20	17	20	16	16	242	173	182
New Account	12	7	11	12	19	10	11	5	8	7	8	8	118	98	91
Meter Reading /Re-Reads	0	0	2	2	1	0	2	1	1	3	0	1	13	0	5
Payments	562	597	584	557	570	569	590	578	575	604	574	541	6901	6127	5710
Collection Letter	9	47	56	52	85	84	53	78	64	75	68	64	735	168	56
Rates	0	5	2	0	0	1	1	0	0	0	0	0	9	30	14
Complaints	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11
Sewer	0	0	0	0	0	0	0	2	1	0	3	0	6	12	17
Leaks	0	0	0	0	0	2	6	1	4	0	0	2	15	11	12
No/Low Water Pressure	0	0	0	0	1	0	0	2	1	1	0	3	8	6	10
Copy Of Bill	77	0	0	3	0	3	2	4	2	1	4	5	101	2	3
Correct. Bills	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mtr Change Out	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Customer Correspondance	78	119	68	49	43	55	70	82	47	50	54	48	763	922	206
Discolored/Water Quality	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1
Calls Referred to SUEZ Hbg	34	25	30	29	58	48	39	27	30	50	14	30	414	439	659
Calls from City / Other Org	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Compliments	0	0	1	0	0	0	0	0	0	0	0	0	1	18	0
2022 TOTALS	**1005**	920	966	915	972	955	902	905	818	933	814	794	**10899**		
2021 TOTALS	**697**	**659**	**779**	**759**	**726**	**772**	**719**	**781**	**803**	**866**	**799**	**714**		**9074**	

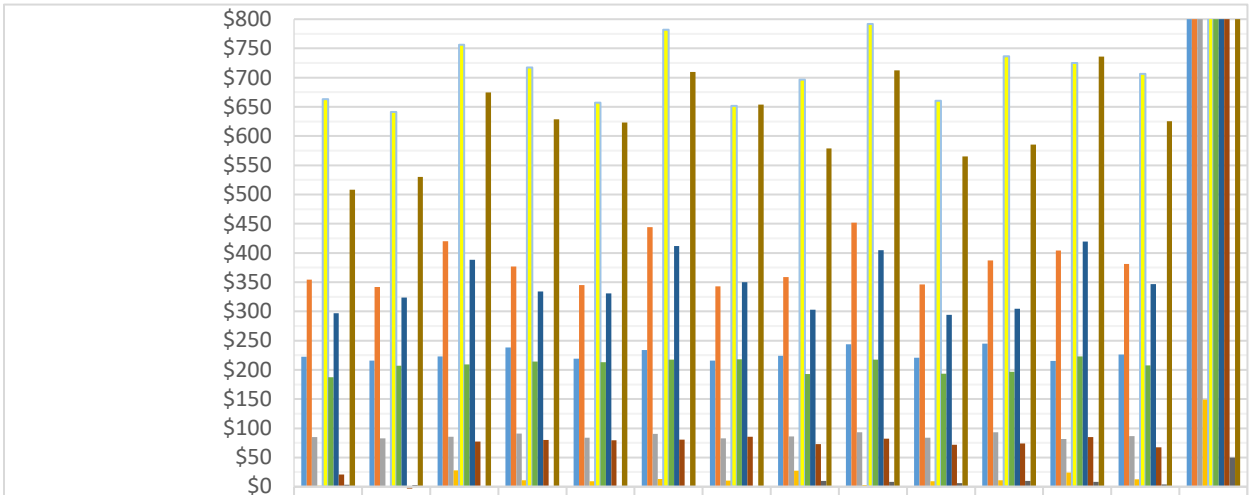
Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

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

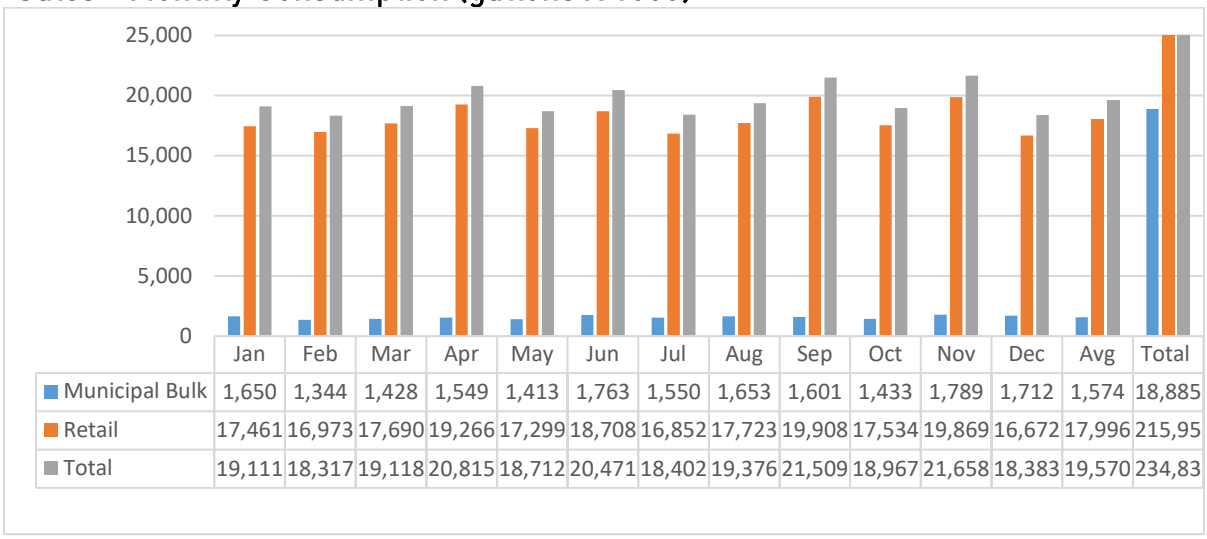
Dollars Billed - Water and Sewer (dollars X1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	YTD
2022 Water Billed	222	216	223	238	219	234	216	224	244	221	245	215	226.4	2,717.
2022 Sewer Billed	354	342	420	377	345	444	343	359	452	346	387	404	381.1	4,573.
2022 Surcharge Billed	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 Revenue	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 Billed	663.33	641.1	756.5	717.2	657	781.8	651.8	696.4	791.9	660.6	736.5	724.8	706.6	8,478.
2021 Water Billed2	187.2	207.1	209.0	214.0	213.0	217.5	218.0	192.8	217.4	193.2	196.9	223.0	207.4	2,489.
2021 Sewer Billed3	296.6	323.8	388.1	334.3	330.6	411.6	349.9	303.1	404.6	293.9	304.6	419.6	346.7	4,160.
2021 Surcharge Billed4	21.1	-3.4	77.2	80.2	79.5	80.7	85.5	73.1	82.0	71.8	74.0	85.0	67.2	806.7
2021 Other Revenue5	3.3	2.7	0.2	0.2	0.3	0.0	0.3	9.7	8.3	6.3	10.1	8.4	4.2	49.8
2021 Total Billed6	508.2	530.2	674.5	628.7	623.4	709.8	653.7	578.7	712.3	565.2	585.6	736.0	625.5	7,506.

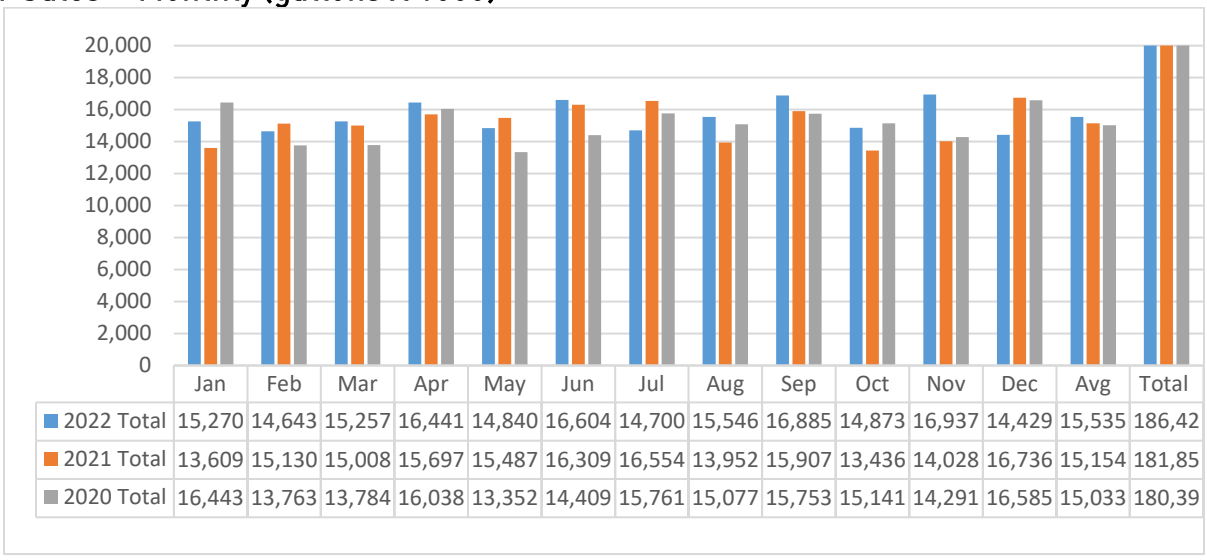
*Negative surcharge value was due to the prior surcharge collection period ending in February 2021.

Water Sales - Monthly Consumption (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
Municipal Bulk	1,650	1,344	1,428	1,549	1,413	1,763	1,550	1,653	1,601	1,433	1,789	1,712	1,574	18,885
Retail	17,461	16,973	17,690	19,266	17,299	18,708	16,852	17,723	19,908	17,534	19,869	16,672	17,996	215,95
Total	19,111	18,317	19,118	20,815	18,712	20,471	18,402	19,376	21,509	18,967	21,658	18,383	19,570	234,83

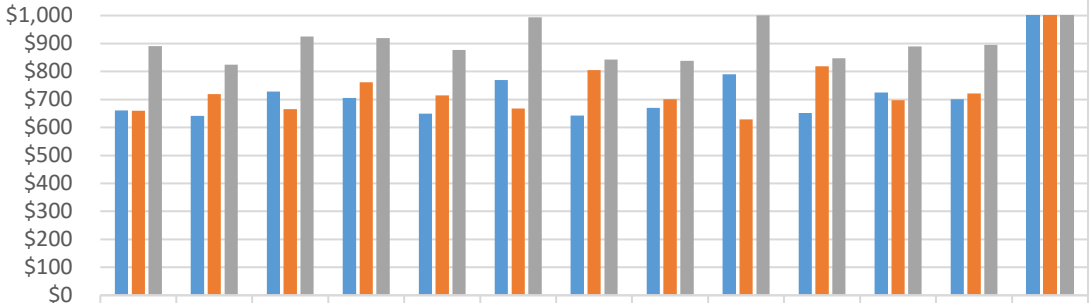
Sewer Sales – Monthly (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
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
2020 Total	16,443	13,763	13,784	16,038	13,352	14,409	15,761	15,077	15,753	15,141	14,291	16,585	15,033	180,39

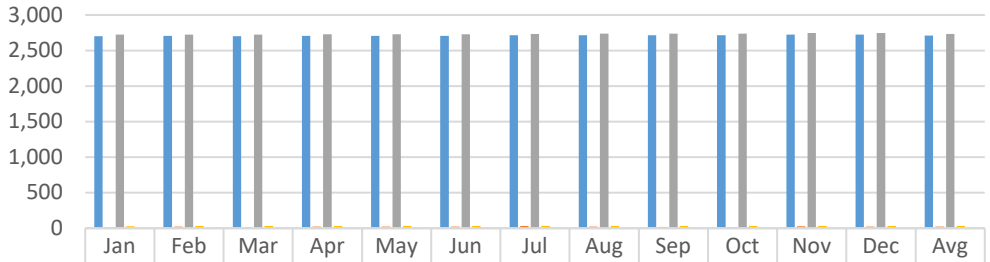
Collections (dollars X 1000)

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



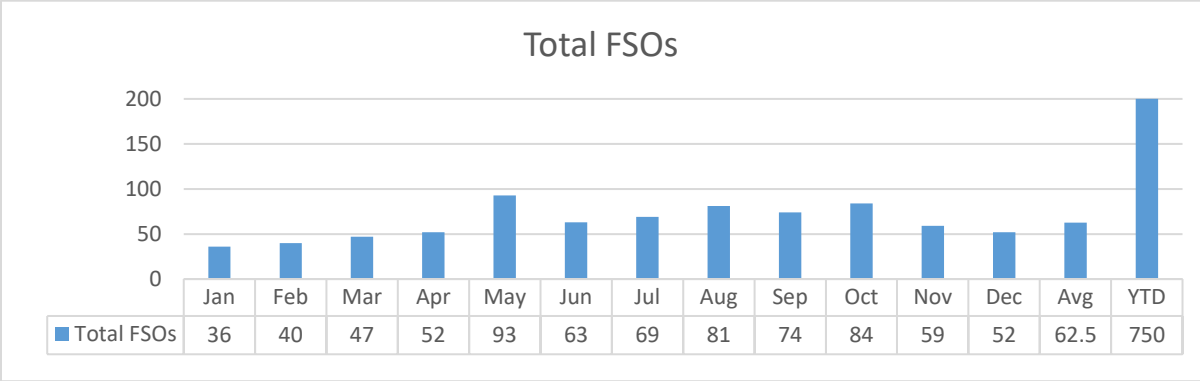
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Total Billed	661	641	728	706	649	769	642	670	790	652	725	701	8,334
Total Collected	660	719	665	762	715	668	805	701	629	819	697	721	8,561
AR	891	825	925	919	877	994	843	838	1,002	847	890	895	10,746

Accounts & Meters



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Active Accounts	2,702	2,705	2,703	2,705	2,706	2,708	2,713	2,716	2,714	2,715	2,722	2,725	2,711
Net New Accounts	10	21	14	24	25	22	30	24	18	15	28	23	21
Total MIUs	2,723	2,723	2,723	2,727	2,727	2,730	2,733	2,736	2,738	2,737	2,745	2,746	2,732
Inactive Meters	29	31	31	33	32	32	32	31	33	34	34	33	32
% Meter Re-reads	1%	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	0	0	0	0	0	0	0	0
Unplanned	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
2022 TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	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	0	0	0	0	0	0	0	0	0
Discolored	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Boil Water Notices	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2022 TOTAL	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1

The discolored water call was in regard to annual hydrant flushing.

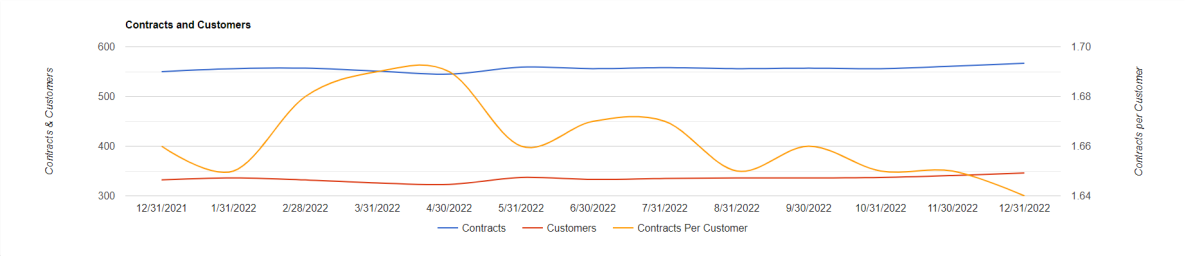
Sewer and Collection Issues

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	0	0	0	0	0	0	4	2	1	1	1	0	0	6	3	9
Odor	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1
2022 TOTAL	0	0	0	0	0	0	0	4	2	1	2	1	0	0	6	4	10
2021 TOTAl	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	2

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.


MIDDLETOWN

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														
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														
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														
Avg retail water sales (gal)		**528,337**	**610,171**	**563,219**	**618,750**	**565,439**	**615,878**	**576,508**	**543,092**	**644,438**	**540,847**	**605,698**	**580,971**	**6,993,349**	**582,779**
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														
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														
Avg Bulk Customer sales (gal)		53,845	68,745	67,176	70,188	65,550	74,477	51,881	52,411	55,642	48,381	55,557	57,326	721,177	60,098

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) = 582,779

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

Engineering and Capital Improvements

Capital improvement projects for the water and wastewater systems have been developed for 2022 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 next 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 is currently providing submittals to HRG for approval. An official construction schedule will be available shortly.

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. Due to the re-bid and weather conditions not allowing re-coating work in winter, the High Street Tank is anticipated to be rehabilitated in Q3 of 2022 followed with the Union St Tank in spring of 2023 and the Turnpike Tank in fall 2023. The permits for the High Street tank, Union Street tank, and Turnpike Tank have been approved by PA DEP. The project mobilized on September 12, 2022 and is anticipated to be completed in December 2022. 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 project. The painting portion of the project concluded in December 2022.


Capital Improvement Plan

The following DRAFT Capital Improvement Plan was submitted on February 28, 2022.

SEWER COLLECTION, CONVEYANCE, & TREATMENT FACILITIES
DRAFT - 5 Year Capital Improvements Plan (2022-2027)
February 28, 2022

	2022 and 5 YEAR CAPITAL IMPROVEMENT PLAN						
BASE CAPITAL IMPROVEMENTS	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**
Headworks Wet Well Pump and Tank Rehabilitation Project	-		$ 45,000	$ -			
Well No. 4 Rehabilitation Project	$ -	$ -	$ -	$ -	$ 70,000	$ 70,000	$ -
Well No. 3 Stripping Tower Rehabilitation Project	$ 15,000	$ -	$ -	$ -			
Well Upgrades (Pumps, controls, automation)		$ 122,000	$ 38,000				
Ventilation of ATAD Building Project	$ -	$ -	$ 50,000	$ -			
Fire Alarm System Design Project	$ -	$ -	$ -	$ -			
Chlorine Analyzer Replacement Project	$ -	$ -	$ -	$ -			
Blower Building Instrumentation Replacement Project	$ -			$ 10,000			
SCADA Upgrade Project	$ -	$ -	$ -	$ 25,000			
WAS Storage Tank Instrumentation Replacement Project	$ -	$ -	$ -	$ 15,000			
Biofilter Instrumentation Replacement Project	$ -	$ -	$ -	$ -			
ATAD & SNDR Reactors Instrumentation Replacement Project	$ 14,500	$ 14,500	$ 11,500	$ -			
Headworks Instrumentation Replacement Project	$ -	$ -	$ -	$ 27,000			
Biosolids Processing Instrumentation Replacement Project	-	$ -	$ -	$ -			
Oxidation Ditch Instrumentation Replacement Project	$ 40,000	$ -	$ -	$ -			
Scum Pump Station Instrumentation Replacement Project	-	$ -	$ -	$ -			
WWTP Facilities Security Upgrades Project	$ -	$ -		$ -	$ 30,000	$ 20,000	$ 20,000
Well Facilities Security Upgrades Project	$ -	$ -		$ -	$ -	$ 20,000	$ 20,000
Well Evaluation and Upgrades Project	$ -	$ -	$ -	$ -			
Trench Opening Restoration Project	$ 70,150	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000
Water and WWTP System Evaluations	$ 28,750	$ 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	$ 180,000	$ 170,000	$ 170,000	$ 150,000	$ 162,000	$ 160,000	$ 235,000
Safety Upgrades	$ 10,600	$ -	$ -	$ -	$ 20,000	$ 20,000	$ 20,000
TOTAL BASE CAPITAL IMPROVEMENTS *	**$ 359,000**	**$ 385,250**	**$ 393,250**	**$ 380,750**	**$ 387,000**	**$ 395,000**	**$ 400,000**
PROPOSED YEARLY BUDGET FOR BASE CAPITAL PROJECTS **	**$ 368,367**	**$ 385,312**	**$ 403,037**	**$ 421,576**	**$ 440,969**	**$ 461,253**	**$ 482,471**

MAJOR CAPITAL IMPROVEMENTS	**2021 ***	**2022 ***	**2023 ***	**2024 ***	**2025 ***	**2026 ***	**2027 ***
Underground Infrastructure Replacements (2023 - 2026)	$ -	$ -	$ 2,394,090	$ 2,394,090	$ 2,394,090	$ 2,394,090	$ 2,394,090
Underground Infrastructure Replacements (2016)		$ -	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2017)	$ 275,074	$ 1,157,425	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2018)	$ 49,500	$ 1,596,000	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2019) ***	$ 268,000	$ -	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2020)	$ 275,074	$ 1,157,425	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2021)	$ 49,500	$ 1,596,000	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2022)	$ -	$ 30,333	$ 2,287,000	$ -	$ -	$ -	$ -
Water Storage Tank Rehabilitation - Union Street	$ -	$ -	$ 1,309,083	$ -	$ -	$ -	$ -
Water Storage Tank Rehabilitation - High Street	$ -	$ 1,216,988	$ -	$ -	$ -	$ -	$ -
Water Storage Tank Rehabilitation - Turnpike	$ -	$ 955,938	$ -	$ -	$ -	$ -	$ -
Contingency (5%)	$ -	$ 276,859	$ 234,054	$ 119,704	$ 119,704	$ 119,704	$ 119,704
TOTAL MAJOR PROJECTS	**$ 917,148**	**$ 7,986,967**	**$ 6,224,227**	**$ 2,513,794**	**$ 2,513,794**	**$ 2,513,794**	**$ 2,513,794**

REGULATORY COMPLIANCE							
WWTP Effluent Outfall Rehabilitation ****			$ 356,500				
TOTAL CAPEX	**$ 1,285,515**	**$ 8,372,279**	**$ 6,983,764**	**$ 2,935,370**	**$ 2,954,763**	**$ 2,975,047**	**$ 2,996,265**

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	0	1	0	1
Concessionaire Notifications	0	0	0	0	0	0	0	0	0	0	1	0	1
Incident Email Notifications	0	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Incidents – Appletree Hotline notifications	0	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Incidents – Appletree Hotline notifications/chemical spills	0	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	0
Reporting non-compliance	0	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	0
Total days lost	0	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	0
Safety related – Near Miss	0	0	0	0	0	0	0	0	0	0	1	0	1
Employee lost-time – not job-related – total as sick hours	73.5	16	16	10	67.5	19	16	22.5	1	28	11	35	315.5

On Target	Caution	Meets/Exceeds Target

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

January 13, 2023

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RE: Laboratory Supervisor Certification – December 2022

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

January 13, 2022

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don.correll@wcpartnersllc.com

RE: Environmental Laws Certification- December 2022

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

VEOLIA

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> Fri, Jan 13, 2023 at 4:09 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: 12/01/2022-12/31/2022
Report Due Date: 01/28/2023

Submitted By: Kodi Webb
Submission Id: 370288
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.

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: **Final Effluent**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	**2022**	**12**	**01**	TO	**2022**	**12**	**31**

Reporting Frequency: **Monthly**
DMR Effective From: **12/01/2022**
DMR Effective To: **12/31/2022**
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	***	***	***	8.42	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.7	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	< 26	46	lbs/day	***	< 3.0	5.0	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	***	***	***	***	< 9.3	***	mg/L	1/month	Calculation
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	< .05	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	< .75	***	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	***	***	***	***	< 8.55	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	8	***	lbs/day	***	.76	***	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	1.431	3.025	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.3	.65	mg/L	1/day	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 2978.6	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	< 15	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	< 241.8	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	< 2736.8	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	243.1	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	< 7.0	164	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	< 22	< 26	lbs/day	***	< 2.0	< 2.0	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										

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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	2022	12	01	TO	2022	12	31

Reporting Frequency: **Monthly**
DMR Effective From: **12/01/2022**
DMR Effective To: **12/31/2022**
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	< 2978.6	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	243.1	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Sampling Point Comments										

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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: **Raw Sewage Influent**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	**2022**	**12**	**01**	TO	**2022**	**12**	**31**

Reporting Frequency: **Monthly**
DMR Effective From: **12/01/2022**
DMR Effective To: **12/31/2022**
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	2159	4285	lbs/day	***	214	***	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	1690	2749	lbs/day	***	163	***	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										

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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
12-22 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2023-01-13T15:52:26-05:00	
12-22 Influent Supplemental.xls	Influent and Process Control Form	2023-01-13T15:53:14-05:00	
12-22 Biosolids.xls	Sewage Sludge / Biosolids Production and Disposal Form	2023-01-13T16:08:00-05:00	
2023 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2023-01-13T15:53:43-05:00	

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

SUBMITTED BY GREENPORT USER	*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		
kwebb2			**(717)**	**209-2736**	**2023**	**01**	**13**
		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: **December** Year: **2022**
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	1.162					3,421.0		22,500.0		
2	1.040					3,516.0		25,000.0		
3	1.245							22,500.0		
4	1.128							23,300.0		
5	1.040	269.0	2,333	166.0	1,440	3,430.0		26,000.0		
6	1.206	426.0	4,285	188.0	1,891	3,395.0		20,000.0		
7	1.058					3,387.0		26,000.0		
8	1.024					3,579.0		25,000.0		
9	1.128					3,555.0		23,500.0		
10	1.016							23,500.0		
11	1.100							20,000.0		
12	1.115	229.0	2,129	264.0	2,455	3,418.0		23,000.0		
13	1.038	176.0	1,524	134.0	1,160	3,421.0		20,000.0		
14	1.052					3,554.0		20,000.0		
15	3.025					3,545.0		20,000.0		
16	2.393					3,862.0		24,000.0		
17	1.566							22,000.0		
18	1.369							22,000.0		
19	1.973	113.0	1,859	138.0	2,271	3,731.0		20,000.0		
20	1.177	342.0	3,357	280.0	2,749	4,499.0		25,000.0		
21	1.169					4,385.0		28,000.0		
22	2.968					4,642.0		28,000.0		
23	2.500					1,766.0		30,000.0		
24	1.737							30,000.0		
25	1.435							30,000.0		
26	1.364	74.4	846	72.0	819			30,000.0		
27	1.380	81.9	943	64.0	737	4,401.0		30,000.0		
28	1.237					4,573.0		27,500.0		
29	1.203					4,568.0		28,000.0		
30	1.175					4,444.0		27,000.0		
31	1.334							25,000.0		
Avg	**1.431**	**214**	**2,160**	**163**	**1,690**	**3,766**		**24,735**		
Max	**3.025**	**426**	**4,285**	**280**	**2,749**	**4,642**		**30,000**		

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: **1/11/2023**

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/Suez Middletown**

Month: **12** (select number) Year: **2022**
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		CBOD5		TSS		Fecal Coliform		NH3-N		Total Phosphorus															
		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	CFU/100 ml	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q		Q		Q		
	Thu	12/1/22	1.162		7.4		8.93		0.27																									
	Fri	12/2/22	1.040		7.4		8.94		0.55																									
	Sat	12/3/22	1.245		7.5		8.85		0.48																									
1	Sun	12/4/22	1.128		7.4		8.74		0.55																									
	Mon	12/5/22	1.040		7.5		8.89		0.19	<	2.0		6.0				0.14		1.03															
	Tue	12/6/22	1.206		7.5		8.75		0.11		2.4		4.0		164.0		0.1		1.0															
	Wed	12/7/22	1.058		7.5		9.05		0.29						8.0																			
	Thu	12/8/22	1.024		7.4		8.42		0.39																									
	Fri	12/9/22	1.128		7.4		8.65		0.19																									
	Sat	12/10/22	1.016		7.5		8.77		0.29																									
2	Sun	12/11/22	1.100		7.7		8.6		0.31																									
	Mon	12/12/22	1.115		7.5		9.1		0.21	<	2.0		2.0				< 0.02		1.43															
	Tue	12/13/22	1.038		7.4		8.44		0.25	<	2.0	<	1.0	<	2.0		0.02		1.12															
	Wed	12/14/22	1.052		7.5		9.28		0.23					<	2.0																			
	Thu	12/15/22	3.025		7.0		9.18		0.49																									
	Fri	12/16/22	2.393		7.5		9.55		0.08																									
	Sat	12/17/22	1.566		7.3		9.47		0.65																									
3	Sun	12/18/22	1.369		7.5		8.87		0.33																									
	Mon	12/19/22	1.973		7.4		8.94		0.11	<	2.0		3.0				< 0.02		0.86															
	Tue	12/20/22	1.177		7.6		9.2		0.29	<	2.0		2.0		11.0		< 0.02		0.44															
	Wed	12/21/22	1.169		7.6		9.43		0.3					<	2.0																			
	Thu	12/22/22	2.968		7.5		9.34		0.26																									
	Fri	12/23/22	2.500		6.9		9.12		0.07																									
	Sat	12/24/22	1.737		7.6		9.42		0.34																									
4	Sun	12/25/22	1.435		7.6		9.4		0.37																									
	Mon	12/26/22	1.364		7.6		9.5		0.36	<	2.0	<	1.0				0.04		0.12															
	Tue	12/27/22	1.380		7.5		9.4		0.33	<	2.0		1.0		11.0		< 0.02		0.08															
	Wed	12/28/22	1.237		7.5		9.2		0.35						3.0																			
	Thu	12/29/22	1.203		7.5		9.1		0.47																									
	Fri	12/30/22	1.175		7.5		9.11		0.47																									
	Sat	12/31/22	1.334		7.6		8.93		0.49																									
5																																		
Statistics for DMR																																		
Daily Minimum (Conc.):					**6.9**		**8.42**		**0.07**	<	**2**	<	**1**	<	**2**	<	**0.02**		**0.08**															
Daily Maximum (Conc):					**7.7**		**9.55**		**0.65**		**2.4**		**6**		**164**		**0.14**		**1.43**															
Max Avg Weekly (Conc.):							**9.23**		**0.4**	<	**2**		**5**				**0.12**		**1**															
Avg Monthly (Conc.):							**9.05**		**0.3**	<	**2**	<	**3**			<	**0.05**		**0.76**															
Geometric Mean (Conc.):														<	**7**																			
Max Avg Weekly (Load):	**1.842**						**141**		**4**	<	**26**		**46**				**1**		**11**															
Avg Monthly (Load):	**1.431**						**109**		**4**	<	**22**	<	**26**			<	**0.5**		**8**															
Total Monthly (Load):	**44.357**						**3367**		**117**	<	**681**	<	**819**			<	**15**		**243**															
Daily Minimum (Load):	**1.016**						**72**		**1**	<	**17**	<	**9**				**0.2**		**0.9**															
Daily Maximum (Load):	**3.025**						**232**		**12**	<	**33**		**52**				**1**		**14**															

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: **1/11/2023**

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Version 2.2, 10/15/2020

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: **2023** 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
10/1/22	1.238																				
10/2/22	1.528																				
10/3/22	1.181		0.52		5.1		0.02		0.2		1.0		9.8	<	2.2	<	21.7	<	3.20	<	31.5
10/4/22	1.941		0.61		9.9		0.07		1.1		1.1		17.8		4.2		68.0		5.30		85.8
10/5/22	1.323																				
10/6/22	1.099																				
10/7/22	0.970																				
10/8/22	1.000																				
10/9/22	1.000																				
10/10/22	1.031		0.53		4.6	<	0.02	<	0.2		1.0		8.6	<	2.4	<	20.6	<	3.40	<	29.2
10/11/22	0.925		0.31		2.4		0.03		0.2		0.7		5.4	<	2.3	<	17.7	<	3.00	<	23.1
10/12/22	0.922																				
10/13/22	1.230																				
10/14/22	1.063																				
10/15/22	0.924																				
10/16/22	0.960																				
10/17/22	1.019		0.39		3.3		0.05		0.4		0.9		7.6		2.2		18.7		3.10		26.3
10/18/22	1.000		0.24		2.0		0.04		0.3		1.1		9.2		2.4		20.0		3.50		29.2
10/19/22	0.962																				
10/20/22	0.969																				
10/21/22	0.931																				
10/22/22	0.870																				
10/23/22	1.300																				
10/24/22	1.204		0.3		3.0		0.05		0.5		1.0		10.0		2.4		24.1		3.40		34.1
10/25/22	1.023		0.33		2.8		0.02		0.2		0.8		6.8		2.4		20.5		3.20		27.3
10/26/22	1.029																				
10/27/22	0.953																				
10/28/22	0.944																				
10/29/22	0.907																				
10/30/22	0.969																				
10/31/22	1.111		0.6		5.6		0.04		0.4		0.9		8.3	<	2.4	<	22.2	<	3.30	<	30.6
11/1/22	1.068		0.49		4.4	<	0.02	<	0.2		0.9		8.2	<	2.5	<	22.0	<	3.39	<	30.2
11/2/22	0.929																				
11/3/22	0.883																				
11/4/22	0.923																				
11/5/22	0.870																				
11/6/22	0.948																				
11/7/22	0.917		0.47		3.6	<	0.02	<	0.2		0.7		5.3	<	2.6	<	19.7	<	3.27	<	25.0
11/8/22	0.866		0.48		3.5	<	0.02	<	0.1		0.7		5.1	<	2.5	<	18.3	<	3.24	<	23.4
11/9/22	0.910																				
11/10/22	0.936																				
11/11/22	1.876																				
11/12/22	1.317																				
11/13/22	1.107																				
11/14/22	1.110		0.39		3.6	<	0.02	<	0.2		0.6		5.5	<	2.9	<	26.9	<	3.50	<	32.4

11/15/22	1.739		0.30		4.4		0.08		1.2		0.5		7.5	<	3.3	<	47.3	<	3.78	<	54.8
11/16/22	1.575																			
11/17/22	1.275																			
11/18/22	1.116																			
11/19/22	1.073																			
11/20/22	1.080																			
11/21/22	1.028		1.06		9.1	<	0.02	<	0.2		0.6		5.0	<	10.0	<	85.6	<	10.57	<	90.6
11/22/22	1.014		1.00		8.5		0.19		1.6		1.1		9.6	<	10.3	<	87.1	<	11.43	<	96.7
11/23/22	1.001																			
11/24/22	0.904																			
11/25/22	0.890																			
11/26/22	0.895																			
11/27/22	1.199																			
11/28/22	1.099		0.65		6.0	<	0.02	<	0.2		1.0		9.3	<	9.3	<	85.1	<	10.29	<	94.3
11/29/22	0.987		0.67		5.5	<	0.02	<	0.2		0.5		4.3	<	10.0	<	82.6	<	10.56	<	86.9
11/30/22	1.386																			
12/1/22	1.162																			
12/2/22	1.040																			
12/3/22	1.245																			
12/4/22	1.128																			
12/5/22	1.040		1.03		8.9		0.14		1.2		1.2		10.1	<	9.4	<	81.4	<	10.55	<	91.5
12/6/22	1.206		1.00		10.1		0.10		1.0		0.8		8.3	<	10.4	<	104.6	<	11.23	<	113.0
12/7/22	1.058																			
12/8/22	1.024																			
12/9/22	1.128																			
12/10/22	1.016																			
12/11/22	1.100																			
12/12/22	1.115		1.43		13.3	<	0.02	<	0.2		1.2		11.3	<	10.8	<	100.4	<	12.02	<	111.8
12/13/22	1.038		1.12		9.7		0.02		0.2	<	0.5	<	4.3	<	10.5	<	90.9	<	11.00	<	95.2
12/14/22	1.052																			
12/15/22	3.025																			
12/16/22	2.393																			
12/17/22	1.566																			
12/18/22	1.369																			
12/19/22	1.973		0.86		14.2	<	0.02	<	0.3		0.6		10.2	<	6.1	<	99.7	<	6.68	<	109.9
12/20/22	1.177		0.44		4.3	<	0.02	<	0.2		0.7		6.6	<	8.4	<	82.8	<	9.11	<	89.4
12/21/22	1.169																			
12/22/22	2.986																			
12/23/22	2.500																			
12/24/22	1.737																			
12/25/22	1.435																			
12/26/22	1.364		0.12		1.4		0.04		0.5	<	0.5	<	5.7	<	5.8	<	66.4	<	6.34	<	72.1
12/27/22	1.380		0.08		0.9	<	0.02	<	0.2	<	0.5	<	5.8	<	7.0	<	80.0	<	7.45	<	85.7
12/28/22	1.237																			
12/29/22	1.203																			
12/30/22	1.175																			
12/31/22	1.334																			
1/1/23																				
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9/30/23																						
Avg	**1.205**		**0.59**		**5.8**	**<**	**0.04**	**<**	**0.4**	**<**	**0.81**	**<**	**7.9**	**<**	**5.56**	**<**	**54.4**	**<**	**6.38**	**<**	**62.3**
Annual Total Mass Loads (lbs):					**2103**			**<**	**158**			**<**	**2888**			**<**	**19858**			**<**	**22746**

P Credits Generated: **344**

No N Credits Generated

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: **1/11/2023**

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	133.1	< 12.2	288.2	< 804.5	< 1092.7
November	161.3	< 13.2	198.9	< 1582.3	< 1781.2
December	243.1	< 14.7	< 241.8	< 2736.8	< 2978.6
January					
February					
March					
April					
May					
June					
July					

August
September

Average Monthly Concentrations (mg/L)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	0.43	< 0.04	0.94	< 2.54	< 3.49
November	0.61	< 0.05	0.74	< 5.93	< 6.67
December	0.76	< 0.05	< 0.75	< 8.55	< 9.3
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: **December** Year: **2022**
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
12/7/23				5.68	37.70	**2.14**			
12/8/23				6.08	33.00	**2.01**			
12/14/22				9.20	36.20	**3.33**			
12/16/22				6.28	32.30	**2.03**			
12/21/22				8.38	30.70	**2.57**			
12/28/22				7.22	30.70	**2.22**			
TOTAL:				**TOTAL:**		**14.296**		**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	**Campbell Crops**			
Municipality	Conewago Township			
County	Dauphin County			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	14.30			
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: **January 13, 2023**

VEOLIA Middletown WWTP

December, 2022

DATE	EFF	M.J. Reider Composite Sample Test Results																			
	FLOW	BOD		CBOD		%Remova	SUSPENDED SOLIDS				%Remova	TP		FEC.	NH3		NO2-NO3		TKN		TN	
	MGD	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	1.162																					
02	1.040																					
03	1.245																					
04	1.128																					
05	1.040	269	2,333	<2.0	<17.34	99.3	166	1,440	6.0	52.03	96.4	1.03	8.93		0.14	1.21	<9.4	<81.34	1.2	10.15	<10.55	<91.5
06	1.206	426	4,283	2.4	24.13	99.4	188	1,890	4.0	40.22	97.9	1.00	10.05	164	0.10	1.01	<10.4	<104.56	0.8	8.34	<11.23	<112.9
07	1.058													8								
08	1.024																					
09	1.128																					
10	1.016																					
11	1.100																					
12	1.115	229	2,130	<2.0	<18.60	99.1	264	2,456	2.0	18.60	99.2	1.43	13.30		<0.02	<0.19	<10.8	<100.47	1.2	11.35	<12.02	<111.8
13	1.038	176	1,524	<2.0	<17.32	98.9	134	1,160	<1.0	8.66	99.3	1.12	9.70	<2	0.02	0.17	<10.5	<90.92	<0.5	<4.33	<11.00	<95.2
14	1.052													<2								
15	3.025																					
16	2.393																					
17	1.566																					
18	1.369																					
19	1.973	113	1,859	<2.0	<32.91	98.2	138	2,271	3.0	49.36	97.8	0.86	14.15		<0.02	<0.33	<6.1	<99.71	0.6	10.20	<6.68	<109.9
20	1.177	342	3,358	<2.0	<19.64	99.4	280	2,750	2.0	19.64	99.3	0.44	4.32	11	<0.02	<0.20	<8.4	<82.88	0.7	6.58	<9.11	<89.5
21	1.169													<2								
22	2.968																					
23	2.500																					
24	1.737																					
25	1.435																					
26	1.364	74	846	<2.0	<22.75	97.3	72	819	<1.0	11.37	98.6	0.12	1.36		0.04	0.45	<5.8	<66.42	<0.5	<5.69	<6.34	<72.1
27	1.380	82	943	<2.0	<23.02	97.6	64	737	1.0	11.51	98.4	0.08	0.92	11	<0.02	<0.23	<7.0	<79.98	<0.5	<5.75	<7.45	<85.7
28	1.237													3								
29	1.203																					
30	1.175																					
31	1.334																					

EVISED 9/18/15 M

VEOLIA Middletown WWTP

Daily Effluent Grab Monitoring / Weather

December 2022

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	1101	1101	7.40	7.40	0.00	8.93	8.94	-0.11	0.27	.27	.00	15.4	522.00	
02	MB	1050	1050	7.40	7.50	-1.34	8.94	8.96	-0.22	0.55	.55	.00	14.8	639.00	
03	MB	0620	0620	7.50	7.60	-1.32	8.85	8.84	0.11	0.48	.46	4.26	15.4		
04	MB	1032	1032	7.40	7.50	-1.34	8.74	8.73	0.11	0.55	.56	-1.80	15.3		
05	MB	0942	0942	7.50	7.60	-1.32	8.89	8.89	0.00	0.19	.18	5.41	15.3	407.00	
06	MB	0933	0933	7.50	7.50	0.00	8.75	8.73	0.23	0.11	.13	-16.67	15.7	625.00	
07	MB	0904	0904	7.50	7.50	0.00	9.05	8.75	3.37	0.29	.26	10.91	16.4	455.00	
08	MB	1135	1135	7.40	7.50	-1.34	8.42	8.45	-0.36	0.39	.36	8.00	17.8	601.00	
09	MB	0941	0941	7.40	7.50	-1.34	8.65	8.66	-0.12	0.19	.18	5.41	16.7	608.00	
10	CK	0935	0935	7.50	7.50	0.00	8.77	9.25	-5.33	0.29	.29	.00	18.9		
11	CH	0703	0703	7.70	7.60	1.31	8.60	8.60	0.00	0.31	.28	10.17	18.1		
12	MB	0906	0906	7.50	7.50	0.00	9.10	9.00	1.10	0.21	.18	15.38	16.1	381.00	
13	MB	0830	0830	7.40	7.50	-1.34	8.44	8.46	-0.24	0.25	.26	-3.92	15.4	448.00	
14	MB	0917	0917	7.50	7.50	0.00	9.28	9.12	1.74	0.23	.26	-12.24	16.3	476.00	
15	RCA	0818	0818	7.00	7.40	-5.56	9.18	9.02	1.76	0.49	.45	8.51	15.5	467.00	storm mode @ 12:20 hrs
16	MB	0820	0820	7.50	7.40	1.34	9.55	9.50	0.52	0.08	.06	28.57	16.0	273.00	STORM MODE
17	MB	0820	0820	7.30	7.40	-1.36	9.47	9.46	0.11	0.65	.68	-4.51	14.8		
18	MB	0938	0938	7.50	7.50	0.00	8.87	8.89	-0.23	0.33	.33	.00	14.4		
19	MB	0955	0955	7.40	7.50	-1.34	8.94	8.92	0.22	0.11	.11	.00	13.7	472.00	draining Ditch #2
20	MB	0847	0847	7.60	7.70	-1.31	9.20	9.20	0.00	0.29	.30	-3.39	13.5	430.00	DITCH #2 OUT OF SERVICE
21	MB	1016	1016	7.60	7.70	-1.31	9.43	9.45	-0.21	0.30	.30	.00	15.6	673.00	
22	MB	0933	0933	7.50	7.50	0.00	9.34	9.35	-0.11	0.26	.27	-3.77	14.0	390.00	SNOWY/WINTER WEATHER
23	MB	0849	0849	6.90	7.30	-5.63	9.12	9.22	-1.09	0.07	.05	33.33	15.5	238.00	
24	MB	0943	0943	7.60	7.70	-1.31	9.42	9.39	0.32	0.34	.33	2.99	10.7		NEGATIVE WIND CHILL
25	MB	1006	1006	7.60	7.60	0.00	9.40	9.30	1.07	0.37	.38	-2.67	11.6		
26	MB	1125	1125	7.60	7.70	-1.31	9.50	9.50	0.00	0.36	.37	-2.74	12.5		
27	MB/TH	0939	0939	7.50	7.60	-1.32	9.40	9.40	0.00	0.33	.35	-5.88	13.6	286.00	
28	MB/TH	0928	0928	7.50	7.60	-1.32	9.20	9.20	0.00	0.35	.41	-15.79	14.5	434.00	
29	MB/TH	0833	0833	7.50	7.60	-1.32	9.10	9.10	0.00	0.47	.44	6.59	14.7	517.00	
30	MB/TH	0901	0901	7.50	7.60	-1.32	9.11	9.17	-0.66	0.47	.47	.00	15.9	272.00	
2/31/202	MB	0919	0919	7.60	7.60	0.00	8.93	8.92	0.11	0.49	.53	-7.84	15.4		

VEOLIA Middletown WWTP

Process Control

	December													2022		
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	3,421	41,649	2,317	67.7	8,380	22,500	1,573	17.94	4.82	0.10	580	320	94	21	15
02	3,516	42,810	2,310	65.7	7,034	25,000	1,467	19.18	3.58	0.10	650	320	91	12	18
03						22,500								12	14
04						23,300								20	14
05	3,430	41,763	2,320	67.6	7,285	26,000	1,580	17.88	3.72	0.06	630	340	99	22	16
06	3,395	41,341	2,265	66.7	9,446	20,000	1,576	17.49	7.13	0.09	600	330	97	13	13
07	3,387	41,242	2,361	69.7	7,333	26,000	1,590	18.08	7.65	0.07	620	330	97	13	18
08	3,579	43,582	2,486	69.5	7,289	25,000	1,520	19.92	4.37	0.08	680	340	95	13	18
09	3,555	43,287	2,405	67.7	7,487	23,500	1,467	19.96	4.32	0.08	650	340	96	18	20
10						23,500								16	13
11						20,000								2	0
12	3,418	41,618	2,279	66.7	9,471	23,000	1,817	15.27	9.06	0.06	680	360	105	15	13
13	3,421	41,665	2,352	68.8	9,502	20,000	1,585	18.07	3.95	0.07	770	390	114	15	12
14	3,554	43,274	2,404	67.6	8,557	20,000	1,427	20.51	10.96	0.06	780	390	110	15	10
15	3,545	43,169	2,437	68.7	8,337	20,000	1,391	21.34	2.34	0.06	630	340	96	14	0
16	3,862	47,026	2,759	71.4	8,369	24,000	1,675	20.05	2.33	0.09	810	430	111	18	36
17						22,000								18	18
18						22,000								22	13
19	3,731	45,425	2,558	68.6	9,488	20,000	1,583	19.68	4.17	0.08	830	455	122	20	14
20	4,499	54,778	3,374	75.0	9,768	25,000	2,037	20.17	3.45	0.06	950	660	147	48	2
21	4,385	53,388	3,085	70.4	11,544	28,000	2,696	13.94	5.23	0.08	960	670	153	30	15
22	4,642	56,518	3,094	66.7	11,636	28,000	2,717	13.87	1.14	0.05	900	590	127	12	24
23	1,766	21,503	942	53.3	22,768	30,000	5,697	2.01	5.99	0.23	300	150	85	36	52
24						30,000								24	19
25						30,000								24	24
26						30,000								18	18
27	4,401	53,587	3,143	71.4	7,700	30,000	1,927	19.87	8.04	0.04	910	630	143	24	22
28	4,573	55,682	3,213	70.3	6,961	27,500	1,597	24.51	2.58	0.06	940	640	140	18	25
29	4,568	55,662	3,263	71.4	7,647	28,000	1,786	22.25	3.77	0.06	940	630	138	15	12
30	4,444	54,117	3,077	69.2	7,582	27,000	1,707	21.94	4.52	0.03	930	600	135	15	20
31						25,000								18	24
AVG	3,766	45,861	2,593	68.3	9,218	24,735	1,924	18.3	4.91	0.08	750	441	114	19	17

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

December 2022

DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01	7.00	93,893	0.88	6,891	13,464	5.48	6,153	7
02	5.50	61,742	0.83	4,274	6,732	5.63	3,161	5
03								
04								
05								
06	4.00	54,079	0.77	3,473	8,415	5.39	3,783	4
07								
08								
09	6.50	95,007	0.79	6,260	11,781	5.30	5,207	6
10								
11								
12	6.00	86,477	0.71	5,121	8,415	5.83	4,092	5
13								
14								
15	4.50	60,271			6,732			4
16								
17								
18								
19	6.50	93,529	0.74	5,772	11,781	4.88	4,795	6
20								
21								
22	5.50	71,380	0.98	5,834	13,464	4.68	5,255	6
23								
24								
25								
26								
27	7.00	94,638	1.06	8,366	16,830	5.40	7,580	8
28								
29								
30	5.50	75,264	1.05	6,591	16,830	4.69	6,583	7
31								
TOTAL	58	786,280	7.81	52,582	114,444	47.28	46,609	58

REVISED 7/17/14

SUEZ Middletown WWTP

December 2022

ATAD TIME and TEMPERATURE

Date	Operator	Thickener					ATAD Level			ATAD Feed			ATAD		Minimum		ATAD to SNDR			
		End of feed		Disch. (ATAD Feed)			After						End of feed		Till Transfer			Start		
		Temp.	Feed	TS	VS	VS	Start	Trans.	Feed	Gallons	TS	VS	Avg Temp. Since	Time			Date	Time	Temp.	Gallons
		° F	Gals.	mg/L	mg/L	%	Ft	Ft	Ft		Lbs.	Lbs.	°F	24 HR	Hours	Date/Time			° F	
12/01/22	MB	123.1	93,893	54,189	41,700	76.0	8.8	8.8	9.6	13,464	6,085	4,682	123.1	14:00	98.7	12/5/22 16:40				
12/02/22	MB	124.3	61,742	56,358	42,890	76.0	9.7	9.7	10.1	6,732	3,164	2,408	124.3	14:00	79.6	12/5/22 21:35				
12/03/22																				
12/04/22																				
12/05/22							10.1	8.3	8.3								12/5/22	7:30	132.4	33,603
12/06/22	MB	128.0	54,079	53,851	40,597	75.0	8.3	8.3	8.8	8,415	3,779	2,849	128.0	12:00	41.0	12/8/22 5:01				
12/07/22																				
12/08/22							8.8	8.1	8.1								12/8/22	7:25	132.8	10,967
12/09/22	MB	128.9	95,007	52,992	40,049	76.0	8.1	8.1	8.8	11,781	5,207	3,935	128.9	14:00	34.9	12/11/22 0:55				
12/10/22																				
12/11/22							8.8	8.1	8.1								12/11/22	16:00	133.6	12,974
12/12/22	MB	129.7	86,477	58,250	44,491	76.0	8.1	8.1	8.6	8,415	4,088	3,122	129.7	13:30	30.3	12/13/22 19:45				
12/13/22																				
12/14/22							8.6	8.0	8.0											
12/15/22	RA	130.2	60,271	69,905	54,261	78.0	8.0	8.0	8.4	6,732	3,925	3,046	130.2	12:06	27.7	12/16/22 15:46				
12/16/22																				
12/17/22																				
12/18/22							8.4	8.0	8.0								12/18/22	16:00	132.2	10,651
12/19/22	MB	126.6	93,529	48,797	37,205	76.0	8.0	8.0	8.7	11,781	4,794	3,656	126.6	14:00	52.7	12/21/22 18:43				
12/20/22																				
12/21/22																				
12/22/22	MB	126.0	71,380	46,816	34,667	74.0	8.6	8.6	9.4	13,464	5,257	3,893	126.0	14:30	58.7	12/25/22 1:12				
12/23/22																				
12/24/22																				
12/25/22																				
12/26/22							9.4	8.3	8.3								12/26/22	9:30	130.3	18,385
12/27/22	MB	122.6	94,638	54,038	41,583	77.0	8.3	8.3	9.3	16,830	7,585	5,837	122.6	14:30	107.9	1/1/23 2:25				
12/28/22																				
12/29/22																				
12/30/22	MB	122.1	75,264	46,862	36,165	77.0	9.3	9.3	10.3	16,830	6,578	5,076	122.1	13:00	118.0	1/4/23 11:02				
12/31/22																				

SUEZ Middletown WWTP

December 2022

ATAD transfer to SNDR SRT							Centrifuge Data						
		ATAD							SNDR				
												Discharge	
Date	Operator	Total Solids	Transfer Gallons	ATAD Tank	Waste ATAD to SNDR	SRT	Operator	Centifuge Feed Gallons	TS	VS	VS	TS	VS
		mg/L	Gallons	Pounds	Pounds	Days			mg/L	mg/L	%	Lbs.	Lbs.
12/01/22													
12/02/22													
12/03/22													
12/04/22													
12/05/22	MB	35,425	33,603	50,221	9,928	5.06							
12/06/22													
12/07/22							MB	14,744	34,297	19,550	57.0	4217	2404
12/08/22	MB	34,853	16,967	43,050	4,932	8.73	MB	14,000	34,770	19,858	57.1	4060	2319
12/09/22													
12/10/22													
12/11/22	MB	34,087	12,974	42,104	3,688	11.42							
12/12/22													
12/13/22													
12/14/22							MB	23,495	34,115	14,698	43.1	6685	2880
12/15/22													
12/16/22							MB	14,522	33,630	19,141	56.9	4073	2318
12/17/22													
12/18/22	MB	33,353	10,651	39,325	2,963	13.27							
12/19/22													
12/20/22													
12/21/22							MB	18,686	33,395	18,989	56.9	5204	2959
12/22/22													
12/23/22													
12/24/22													
12/25/22													
12/26/22	CH	32,978	18,385	43,511	5,057	8.60							
12/27/22													
12/28/22							MB	15,786	39,746	19,175	48.2	5233	2524
12/29/22													
12/30/22													
12/31/22													

VEOLIA Middletown WWTP

Centrifuge Monthly Report

December 2022

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													
02													
03													
04													
05													
06													
07	4.50	14,744	3.48	4,279	2.14	37.7	796	372	13	11	5.9		
08	4.50	14,000	3.44	4,017	2.01	33.0	797	397	12	11	6.1		
09													
10													
11													
12													
13													
14	6.50	23,495	3.40	6,662	3.33	36.2	1,151	346	18	15	6.0		
15													
16	5.00	14,522	3.35	4,057	2.03	32.3	885	436	12	11	5.9		
17													
18													
19													
20													
21	6.00	18,686	3.30	5,143	2.57	30.7	1,062	413	15	15	5.8		
22													
23													
24													
25													
26													
27													
28	5.00	15,786	3.37	4,437	2.22	30.7	840	379	6	7	6.0		
29													
30													
31													

REVISED 7/17/14

PA MIDDLETOWN WWTP

December, 2022 **BIOSOLIDS INVENTORY**

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
12/01/22					
12/02/22					
12/03/22					
12/04/22					
12/05/22					
12/06/22		2.56		Agriculture	2.56
12/07/22	2.14	1.98		Agriculture	1.98
12/08/22	1.54				3.68
12/09/22					
12/10/22					
12/11/22					
12/12/22		1.54		Agriculture	0.00
12/13/22					
12/14/22	3.33				3.33
12/15/22					
12/16/22	2.03				5.36
12/17/22					
12/18/22					
12/19/22					
12/20/22		5.36		Agriculture	0.00
12/21/22	2.12				2.12
12/22/22		2.12		Agriculture	0.00
12/23/22					
12/24/22					
12/25/22					
12/26/22					
12/27/22					
12/28/22	1.77				1.77
12/29/22		1.77		Agriculture	0.00
12/30/22					
12/31/22					
Total Tons	12.93	15.33		Total Tons	20.80
Metric Tons	11.73	13.91		Metric Tons	18.87

2022

PA MIDDLETOWN WWTP

BIOSOLIDS INVENTORY

DATE	Dry Tons (US Short Tons)		Dry Tons (Meteric Tons)	
	PROCESSED	DELIVERED	PROCESSED	DELIVERED
Jan, 2022	9.52	12.40	8.64	11.25
Feb, 2022	12.93	12.93	11.73	11.73
Mar, 2022	16.03	13.72	14.54	12.45
Apr, 2022	12.35	5.76	11.20	5.23
May, 2022	15.29		13.87	
Jun, 2022	17.77		16.12	
Jul, 2022	12.68		11.50	
Aug, 2022	9.11	18.99	8.26	17.23
Sep, 2022	7.25		6.58	
Oct, 2022	11.02	15.46	10.00	14.03
Nov, 2022	17.80	46.26	16.15	41.97
Dec, 2022	12.93	15.33	11.73	13.91
Total	154.68	140.85	140.32	127.78
Average	12.89	17.61	11.69	15.98
Maximum	17.80	46.26	16.15	41.97
Minimum	7.25	5.76	6.58	5.23

PA MIDDLETOWN WWTP

BIOSOLIDS VOLATILE REDUCTION

MONTH December YEAR 2022

DAY	THICKENER DISCHARGE			SNDR			%
	TS	TVS	VS	TS	TVS	VS	VOL.
	mg/L		%	mg/L		%	REDUCT.
01							
02							
03							
04							
05							
06	52,000	39,104	75	31,500	17,600	56	55.0
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19	54,000	41,256	76	30,900	17,500	57	57.6
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
AVG	53000.00	40180.00	75.80	31200.00	17550.00	56.25	

% SOLIDS REDUCTION	41.13	56.32	%

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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		%	%
01/03/22	51,000	37,842	74.2	26,400	13,500	51.1	64.3
01/17/22	54,000	41,040	76.0	25,000	12,800	51.2	68.8
02/01/22	53,000	40,969	77.3	24,700	13,000	52.6	68.3
02/14/22	53,000	41,075	77.5	24,800	13,000	52.4	68.4
03/08/22	55,000	42,570	77.4	23,800	12,800	53.8	69.9
03/21/22	54,000	41,526	76.9	23,500	12,800	54.5	69.2
04/04/22	47,000	36,190	77.0	23,100	12,600	54.5	65.2
04/18/22	43,000	32,465	75.5	23,400	13,200	56.4	59.3
05/02/22	63,000	47,061	74.7	24,000	13,300	55.4	71.7
05/16/22	62,000	46,190	74.5	25,300	14,600	57.7	68.4
06/06/22	44,000	31,460	71.5	26,500	15,200	57.4	51.7
06/21/22	52,000	36,920	71.0	27,500	16,000	58.2	56.7
07/05/22	50,000	34,500	69.0	28,100	16,200	57.7	53.0
07/18/22	51,000	35,751	70.1	28,400	16,000	56.3	55.2
08/01/22	55,000	37,950	69.0	31,000	17,800	57.4	53.1
09/26/22	43,000	30,358	71.0	31,900	18,000	56.4	40.7
10/01/22	47,000	34,780	74.0	31,900	17,800	55.8	48.8
10/14/22	49,000	36,260	74.0	31,600	16,600	52.5	54.2
11/01/22	47,000	34,686	74.0	31,900	17,800	55.8	48.7
11/14/22	49,000	36,260	74.0	31,600	16,600	52.5	54.2
12/06/22	52,000	39,104	75.0	31,500	17,600	55.9	55.0
12/19/22	54,000	41,256	76.0	30,900	17,500	56.6	57.6
AVG	51,273	38,010	74.1	27,582	15,214	55.2	
Avg. % TS Reduction		46.2	Avg. Mass Balance % VS Reduction				60.0

PA MIDDLETOWN WWTP
2022 Annual Performance

	Flow Data					
	Total MG	Average MG	Maximum		Minimum	
January	34.760	1.121	01/17/22	1.992	01/04/22	0.889
February	40.299	1.439	02/04/22	3.416	02/02/22	1.066
March	38.115	1.230	03/31/22	1.866	03/08/22	1.000
April	50.658	1.689	04/07/22	3.661	04/30/22	1.150
May	60.508	1.952	05/07/22	4.861	05/05/22	1.167
June	34.545	1.151	06/26/22	1.644	06/20/22	0.911
July	31.082	1.003	7/17/2022	1.883	7/23/2022	0.800
August	25.208	0.822	8/1/2022	1.030	8/13/2022	0.743
September	31.182	1.039	9/6/2022	1.948	9/4/2022	0.731
October	33.523	1.081	10/4/2022	1.941	10/22/2022	0.870
November	32.920	1.097	11/11/2022	1.876	11/8/2022	0.866
December	44,358.000	1.431	12/15/2022	3.025	12/10/2022	1.016
Total	**44,770.801**					
Average	3,730.900	1.255		2.429		0.934
Maximum	44,358.000	1.952		4.861		1.167
Minimum	25.208	0.822		1.030		0.731

	BOD / CBOD						Phosphorus, Total		Fecal Colif.
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	cfu/100mL
January	244	3	70,864	825	70,040	98.7	0.15	44	10
February	249	3	83,688	1,080	82,608	98.6	0.14	47	11
March	234	4	74,278	1,222	73,056	98.0	0.16	51	46
April	183	4	77,195	1,737	75,457	97.8	0.25	106	62
May	148	2	74,646	1,060	73,587	98.2	0.35	175	28
June	249	2	71,665	688	70,978	99.0	0.38	110	3
July	221	2	57,159	548	56,611	99.0	0.41	106	3
August	336	2	71,360	497	70,863	99.3	0.57	120	5
September	336	3	87,445	653	86,792	99.1	0.67	173	21
October	295	3	82,446	870	81,577	98.9	0.43	119	106
November	268	2	73,518	549	72,969	99.2	0.61	168	75
December	214	2	79,136	758	78,377	98.6	0.76	281	164
Total			**903,400**	**10,486**	**892,914**			**1,499**	
Average	248	3	75,283	874	74,409	98.7	0.41	125	
Maximum	336	4	87,445	1,737	86,792	99.3	0.76	281	
Minimum	148	2	57,159	497	56,611	97.8	0.14	44	

	TSS					
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal
January	243	6	70,381	1,836	68,545	97.3
February	230	8	77,176	2,647	74,529	96.3
March	226	6	71,876	1,872	70,004	97.1
April	158	8	66,542	3,327	63,215	94.1
May	150	3	75,494	1,615	73,879	97.3
June	203	3	58,485	756	57,728	98.7
July	250	4	64,741	907	63,834	98.1
August	371	3	78,904	574	78,330	99.2
September	321	5	83,480	1,203	82,277	98.3
October	335	3	93,723	901	92,822	99.0
November	196	4	53,873	1,007	52,866	97.9
December	163	3	60,394	925	59,469	98.4
Total			**855,070**	**17,570**	**837,500**	
Average	237.1	4.6	71,256	1,464	69,792	97.6
Maximum	371.0	7.9	93,723	3,327	92,822	99.2
Minimum	149.6	2.6	53,873	574	52,866	94.1

	Ammonia		TKN		Nitrate+Nitrite				Fecal Colif.
	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Geo. Mean
January	0.05	14	0.9	268	2.30	668	3.23	935	<2.0
February	0.06	18	1.0	320	2.24	754	3.20	1,074	<3.0
March	0.05	17	0.9	291	2.20	699	3.16	1,005	<3.0
April	0.13	55	1.0	421	1.86	785	2.85	1,206	<6.0
May	0.04	21	0.6	325	1.67	840	2.31	1,165	<5.0
June	0.04	12	0.8	218	1.84	529	2.59	747	<2.0
July	0.08	21	0.7	171	1.84	477	2.50	648	<2
August	0.05	10	0.8	176	2.13	453	2.96	628	<2
September	0.05	12	0.8	209	2.51	652	3.31	861	<4
October	0.04	11	0.9	262	2.53	708	3.47	969	<4
November	0.05	13	0.7	203	5.93	1,628	6.67	1,831	<5
December	0.05	18	0.8	278	8.55	3,162	9.30	3,440	<7
Total		**223**	**10**	**3,142**		**11,355**		**14,510**	
Average	0.06	19	1	262	2.97	946	3.80	1,209	
Maximum	0.13	55	1	421	8.55	3,162	9.30	3,440	
Minimum	0.04	10	1	171	1.67	453	2.31	628	

Certificate of Analysis

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

Laboratory No.: 2246301
Report: 12/13/22
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: 2246301-01 **Collected By:** Client **Sampled:** 12/06/22 09:23 **Received:** 12/06/22 14:03
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	269	mg/l	2.0	SM 5210 B	12/06/22 17:20		RXN
Solids, Total Suspended	166	mg/l	1	SM 2540 D	12/09/22		ENM

Lab ID: 2246301-02 **Collected By:** Client **Sampled:** 12/06/22 09:33 **Received:** 12/06/22 14:03
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.14	mg/l	0.02	EPA 350.1 Rev 2.0	12/07/22		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/06/22 17:40		RXN
Nitrate as N	9.28	mg/l	1.00	EPA 300.0 Rev 2.1	12/06/22 15:36		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/06/22 15:36		JAF
Nitrate+Nitrite as N	<9.38	mg/l	1.10	CALCULATED	12/06/22 15:36		JAF
Nitrogen, Total	<10.55	mg/l	1.60	CALCULATED	12/12/22 20:17		JMW
Nitrogen, Total Kjeldahl (TKN)	1.17	mg/l	0.50	EPA 351.2 Rev 2.0	12/12/22		JMW
Phosphorus as P, Total	1.03	mg/l	0.01	SM 4500-P F	12/07/22		JMW
Solids, Total Suspended	6	mg/l	1	SM 2540 D	12/09/22		ENM

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Additional accreditations by MD (261), NY(12094)

M.J. Reider Associates, Inc.

Lab ID: 2246301-03 **Collected By:** Client **Sampled:** 12/06/22 09:33 **Received:** 12/06/22 14:03
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	164	/100ml	2	SM 9222 D	12/6/22 16:31	12/7/22 15:39		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2246301-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L0381	12/07/2022	JMW

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Certificate of Analysis

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

Laboratory No.: 2247220
Report: 12/16/22
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: 2247220-01 **Collected By:** Client **Sampled:** 12/07/22 08:52 **Received:** 12/07/22 13:17
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	426	mg/l	2.0	SM 5210 B	12/07/22 19:25	C-37b, C-40	AMG
Solids, Total Suspended	188	mg/l	1	SM 2540 D	12/12/22		ASD

Lab ID: 2247220-02 **Collected By:** Client **Sampled:** 12/07/22 09:04 **Received:** 12/07/22 13:17
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.10	mg/l	0.02	EPA 350.1 Rev 2.0	12/08/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	2.4	mg/l	2.0	SM 5210 B	12/08/22 12:30		RXN
Nitrate as N	10.3	mg/l	1.00	EPA 300.0 Rev 2.1	12/08/22 1:00		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/08/22 1:00		JAF
Nitrate+Nitrite as N	<10.40	mg/l	1.10	CALCULATED	12/08/22 1:00		JAF
Nitrogen, Total	<11.23	mg/l	1.60	CALCULATED	12/12/22 22:47		JMW
Nitrogen, Total Kjeldahl (TKN)	0.83	mg/l	0.50	EPA 351.2 Rev 2.0	12/12/22		JMW
Phosphorus as P, Total	1.00	mg/l	0.01	SM 4500-P F	12/08/22		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	12/12/22		ASD

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M.J. Reider Associates, Inc.

Lab ID: 2247220-03 **Collected By:** Client **Sampled:** 12/07/22 10:52 **Received:** 12/07/22 13:17
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	8	/100ml	2	SM 9222 D	12/7/22 16:52	12/8/22 15:58		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2247220-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L0400	12/07/2022	JMW

Notes and Definitions

C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.7mg/L.

C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 235 mg/L.

C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.

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Certificate of Analysis

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

Laboratory No.: 2246519
Report: 01/04/23
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: 2246519-01 **Collected By:** Client **Sampled:** 12/13/22 07:48 **Received:** 12/13/22 13:13
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	229	mg/l	2.0	SM 5210 B	12/13/22 18:29		RXN
Solids, Total Suspended	264	mg/l	1	SM 2540 D	12/14/22		TMH

Lab ID: 2246519-02 **Collected By:** Client **Sampled:** 12/13/22 08:30 **Received:** 12/13/22 13:13
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/15/22		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/13/22 19:00		RXN
Nitrate as N	10.7	mg/l	1.00	EPA 300.0 Rev 2.1	12/13/22 14:56		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/13/22 14:56		JAF
Nitrate+Nitrite as N	<10.80	mg/l	1.10	CALCULATED	12/13/22 14:56		JAF
Nitrogen, Total	<12.02	mg/l	1.60	CALCULATED	12/21/22 15:20		EAK
Nitrogen, Total Kjeldahl (TKN)	1.22	mg/l	0.50	EPA 351.2 Rev 2.0	12/21/22		EAK
Phosphorus as P, Total	1.43	mg/l	0.01	SM 4500-P F	12/15/22		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	12/14/22		TMH

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M.J. Reider Associates, Inc.

Lab ID: 2246519-03 **Collected By:** Client **Sampled:** 12/13/22 10:07 **Received:** 12/13/22 13:13
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	12/13/22 16:39	12/14/22 15:45		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2246519-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L0809	12/14/2022	JMW

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Certificate of Analysis

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

Laboratory No.: 2247410
Report: 01/04/23
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: 2247410-01 **Collected By:** Client **Sampled:** 12/14/22 09:37 **Received:** 12/14/22 13:57
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	176	mg/l	2.0	SM 5210 B	12/15/22 16:20	C-37a, C-40	LAK
Solids, Total Suspended	134	mg/l	1	SM 2540 D	12/16/22		ALD

Lab ID: 2247410-02 **Collected By:** Client **Sampled:** 12/14/22 09:17 **Received:** 12/14/22 13:57
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/22/22	Q-10, C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/15/22 17:47	C-37	RXN
Nitrate as N	10.4	mg/l	1.00	EPA 300.0 Rev 2.1	12/15/22 0:29		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/15/22 0:29		JAF
Nitrate+Nitrite as N	<10.50	mg/l	1.10	CALCULATED	12/15/22 0:29		JAF
Nitrogen, Total	<11.00	mg/l	1.60	CALCULATED	12/22/22 10:42		JMW
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	12/22/22		JMW
Phosphorus as P, Total	1.12	mg/l	0.01	SM 4500-P F	12/22/22		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	12/16/22		ALD

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M.J. Reider Associates, Inc.

Lab ID: 2247410-03 **Collected By:** Client **Sampled:** 12/14/22 10:21 **Received:** 12/14/22 13:57
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	12/14/22 17:07	12/15/22 15:53		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2247410-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L1140	12/20/2022	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.3 mg/L.
C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.4 mg/L.
C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 250 mg/L.
C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.
Q-10 The matrix spike(s) were outside acceptable limits of 90-110% recovery at 88.6%.

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Certificate of Analysis

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

Laboratory No.: 2248400
Report: 01/04/23
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: 2248400-01 **Collected By:** Client **Sampled:** 12/20/22 08:29 **Received:** 12/20/22 12:23
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	113	mg/l	2.0	SM 5210 B	12/21/22 14:21	C-37c, C-54c	RXN
Solids, Total Suspended	138	mg/l	1	SM 2540 D	12/22/22		ALD

Lab ID: 2248400-02 **Collected By:** Client **Sampled:** 12/20/22 08:47 **Received:** 12/20/22 12:23
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/23/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/21/22 16:00	C-37	RXN
Nitrate as N	5.96	mg/l	1.00	EPA 300.0 Rev 2.1	12/20/22 13:37		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/20/22 13:37		JAF
Nitrate+Nitrite as N	<6.06	mg/l	1.10	CALCULATED	12/20/22 13:37		JAF
Nitrogen, Total	<6.68	mg/l	1.60	CALCULATED	12/28/22 3:30		JMW
Nitrogen, Total Kjeldahl (TKN)	0.62	mg/l	0.50	EPA 351.2 Rev 2.0	12/28/22		JMW
Phosphorus as P, Total	0.86	mg/l	0.01	SM 4500-P F	12/23/22		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	12/22/22		ALD

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Additional accreditations by MD (261), NY(12094)

M.J. Reider Associates, Inc.

Lab ID: 2248400-03 **Collected By:** Client **Sampled:** 12/20/22 08:47 **Received:** 12/20/22 12:23
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	11	/100ml	2	SM 9222 D	12/20/22 14:38	12/21/22 15:27		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2248400-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L1242	12/21/2022	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.3 mg/L.

C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.6 mg/L.

C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.

C-54c The difference between the highest and lowest results were greater than 30% at 37.4%.

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Additional accreditations by MD (261), NY(12094)

Certificate of Analysis

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

Laboratory No.: 2248174
Report: 01/04/23
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: 2248174-01 **Collected By:** Client **Sampled:** 12/21/22 09:21 **Received:** 12/21/22 13:44
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	342	mg/l	2.0	SM 5210 B	12/22/22 13:51	C-37b	RXN
Solids, Total Suspended	280	mg/l	1	SM 2540 D	12/29/22	Q-22	ALD

Lab ID: 2248174-02 **Collected By:** Client **Sampled:** 12/21/22 10:16 **Received:** 12/21/22 13:44
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/23/22		EAK
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/22/22 15:30	C-37	RXN
Nitrate as N	8.34	mg/l	1.00	EPA 300.0 Rev 2.1	12/21/22 18:22		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/21/22 18:22		JAF
Nitrate+Nitrite as N	<8.44	mg/l	1.10	CALCULATED	12/21/22 18:22		JAF
Nitrogen, Total	<9.11	mg/l	1.60	CALCULATED	12/27/22 21:38		JMW
Nitrogen, Total Kjeldahl (TKN)	0.67	mg/l	0.50	EPA 351.2 Rev 2.0	12/27/22		JMW
Phosphorus as P, Total	0.44	mg/l	0.01	SM 4500-P F	12/23/22		EAK
Solids, Total Suspended	2	mg/l	1	SM 2540 D	12/29/22	Q-22	ALD

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M.J. Reider Associates, Inc.

Lab ID: 2248174-03 **Collected By:** Client **Sampled:** 12/21/22 10:16 **Received:** 12/21/22 13:44
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	12/21/22 16:33	12/22/22 14:53		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2248174-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L1265	12/22/2022	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.4 mg/L.
C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.2 mg/L.
Q-22 The sample was analyzed beyond the required 7 day hold time by 1 Day.

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Certificate of Analysis

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

Laboratory No.: 2249408
Report: 01/05/23
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: 2249408-01 **Collected By:** Client **Sampled:** 12/27/22 09:49 **Received:** 12/27/22 13:00
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	74.4	mg/l	2.0	SM 5210 B	12/28/22 10:54	C-37c, C-40	RXN
Solids, Total Suspended	72	mg/l	1	SM 2540 D	12/29/22		ALD

Lab ID: 2249408-02 **Collected By:** Client **Sampled:** 12/27/22 09:39 **Received:** 12/27/22 13:00
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	12/30/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/28/22 11:42	C-37b	RXN
Nitrate as N	5.74	mg/l	1.00	EPA 300.0 Rev 2.1	12/27/22 13:49		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/27/22 13:49		JAF
Nitrate+Nitrite as N	<5.84	mg/l	1.10	CALCULATED	12/27/22 13:49		JAF
Nitrogen, Total	<6.34	mg/l	1.60	CALCULATED	01/02/23 18:34		EAK
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	01/02/23		EAK
Phosphorus as P, Total	0.12	mg/l	0.01	SM 4500-P F	12/30/22		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	12/30/22		ALD

Lab ID: 2249408-03 **Collected By:** Client **Sampled:** 12/27/22 09:39 **Received:** 12/27/22 13:00
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	11	/100ml	2	SM 9222 D	12/27/22 14:16	12/28/22 14:46		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2249408-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L1602	12/29/2022	JMW

Notes and Definitions

C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.5 mg/L.

C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.1 mg/L.

C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 230 mg/L.

C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.

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Certificate of Analysis

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

Laboratory No.: 2249074
Report: 01/09/23
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: 2249074-01 **Collected By:** Client **Sampled:** 12/28/22 09:22 **Received:** 12/28/22 14:15
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	81.9	mg/l	2.0	SM 5210 B	12/29/22 12:59	C-37a	LMW
Solids, Total Suspended	64	mg/l	1	SM 2540 D	12/30/22		ALD

Lab ID: 2249074-02 **Collected By:** Client **Sampled:** 12/28/22 09:28 **Received:** 12/28/22 14:15
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	12/29/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/29/22 15:30	C-37c, C-40d	AMG
Nitrate as N	6.85	mg/l	1.00	EPA 300.0 Rev 2.1	12/28/22 16:27		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	12/28/22 16:27		JAF
Nitrate+Nitrite as N	<6.95	mg/l	1.10	CALCULATED	12/28/22 16:27		JAF
Nitrogen, Total	<7.45	mg/l	1.60	CALCULATED	01/02/23 15:09		EAK
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	01/02/23		EAK
Phosphorus as P, Total	0.08	mg/l	0.01	SM 4500-P F	12/29/22		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	01/03/23		ALD

Lab ID: 2249074-03 **Collected By:** Client **Sampled:** 12/28/22 09:28 **Received:** 12/28/22 14:15
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	3	/100ml	2	SM 9222 D	12/28/22 16:20	12/29/22 15:40		RMB

107 Angelica Street ❍ Reading, PA 19611 ❍ www.mjreider.com ❍ (610) 374-5129 ❍ fax (610) 374-7234

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2249074-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2L1592	12/29/2022	NJG

Notes and Definitions

C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.5mg/L.

C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.7mg/L.

C-40d The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 254 mg/L.

C-52 The sample was received with detectable level of chlorine. Additional preservation was required in the laboratory.

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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

December, 2022

	Maximum Day	1,001,448					Days pumped	31
	Minimum Day	763,888						
Date	**Well No.1**	**Well No.2**	**Well No.3**	**Well No.4**	**Well No.5**	**Well No.6**	**Total**	**Union Booster**
01	171,275	295,070			95,942	273,430	835,717	69,402
02	162,790	295,702			91,403	255,402	805,297	121,558
03	164,944	295,821			92,622	263,767	817,154	64,313
04	221,226	294,576			124,634	345,336	985,772	131,360
05	161,331	295,093			90,591	253,639	800,654	68,015
06	159,919	296,043			89,366	250,380	795,708	63,110
07	166,834	295,740			93,944	267,536	824,054	126,028
08	155,143	296,131			87,610	258,679	797,563	66,006
09	154,411	296,407			86,954	256,408	794,180	65,250
10	184,092	295,514			103,304	301,034	883,944	123,313
11	177,252	291,625			100,145	286,243	855,265	68,400
12	175,511	295,308			98,361	280,910	850,090	64,893
13	169,033	294,832			94,686	266,646	825,197	125,573
14	157,374	295,174			88,145	247,350	788,043	67,531
15	183,446	294,754			102,370	288,737	869,307	81,579
16	166,873	295,763			94,128	265,539	822,303	102,867
17	157,841	297,702			89,079	251,033	795,655	68,135
18	169,541	298,222			95,201	270,155	833,119	60,841
19	165,945	298,723			93,468	266,301	824,437	80,362
20	162,726	298,435			91,094	260,793	813,048	103,233
21	149,665	299,018			84,061	239,974	772,718	59,739
22	146,934	299,101			82,351	235,502	763,888	65,366
23	171,507	299,892			96,626	277,003	845,028	60,461
24	177,725	301,221			98,190	308,537	885,673	67,304
25	156,047	302,784			86,737	269,887	815,455	59,340
26	212,314	301,999			118,054	369,081	1,001,448	120,210
27	182,401	302,110			101,500	317,273	903,284	60,355
28	184,924	302,115			103,672	323,155	913,866	58,215
29	186,259	301,498			104,487	325,181	917,425	66,229
30	166,057	301,787			93,719	290,627	852,190	58,936
31	175,617	297,676			98,665	307,743	879,701	65,792
Totals:	5,296,957	9,225,836			2,971,109	8,673,281	26,167,183	2,463,716
Maximum	221,226	302,784			124,634	369,081	1,001,448	131,360
Minimum	146,934	291,625			82,351	235,502	763,888	58,215
Average	170,870	297,608			95,842	279,783	844,103	79,475

	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		1 Thu															
6		2 Fri															
7		3 Sat															
8		4 Sun															
9		5 Mon															
10		6 Tue		12-6-22	8.20	19.0	353.0	192.00	108.00	0.07	20.10	<0.02	<0.01	279.00	720.00	8.20	
11		7 Wed															
12		8 Thu															
13		9 Fri															
14		10 Sat															
15		11 Sun															
16		12 Mon															
17		13 Tue		12-13-22	7.60	14.0	347.0	206.00	107.00	0.05	22.90	<0.02	<0.01	291.00	746.00	7.60	
18		14 Wed															
19		15 Thu															
20	Dec	16 Fri															
21		17 Sat															
22		18 Sun															
23		19 Mon															
24		20 Tue		12-20-22	7.70	15.0	343.0	194.00	106.00	0.05	22.50	<0.02	<0.01	261.00	776.00	7.70	
25		21 Wed															
26		22 Thu															
27		23 Fri															
28		24 Sat															
29		25 Sun															
30		26 Mon															
31		27 Tue		12-27-22	7.60	14.0	354.0	191.00	110.00	0.06	21.80	<0.02	<0.01	254.00	738.00	7.60	
32		28 Wed															
33		29 Thu															
34		30 Fri															
35		31 Sat															
37	MINIMUM			12-13-22	7.60	14.0	343.0	191.00	106.00	0.05	20.10	<0.02	<0.01	254.00	720.00	7.60	
38	MAXIMUM			12-6-22	8.20	19.0	354.0	206.00	110.00	0.07	22.90	<0.02	<0.01	291.00	776.00	8.20	
39	AVERAGE			1	7.78	15.5	349.3	195.75	107.75	0.06	21.83	<0.02	<0.01	271.25	745.00	3.59	
40	SUM			4	31.10	62.0	1,397.0	783.00	431.00	0.23	87.30	<0.08	<0.04	1,085.00	2,980.00	14.34	

Certificate of Analysis

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

Laboratory No.: 2246521
Reported: 12/10/22
Lab Contact: Christina M Kistler

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

Project: Feb,Apr,Jun,Aug,Oct,Dec Week 1
7220038

Lab ID: 2246521-01 **Collected By:** Client **Sampled:** 12/06/22 08:52 **Received:** 12/06/22 14:03
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	12/6/22 17:29	12/7/22 11:46		JMW	N/A	1

Lab ID: 2246521-02 **Collected By:** Client **Sampled:** 12/06/22 08:29 **Received:** 12/06/22 14:03
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	12/6/22 17:29	12/7/22 11:46		JMW	N/A	1

Lab ID: 2246521-03 **Collected By:** Client **Sampled:** 12/06/22 08:41 **Received:** 12/06/22 14:03
Sample Desc: 706 North Union Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/6/22 17:29	12/7/22 11:46		JMW	N/A	1

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Additional accreditations by MD (261), NY(12094)

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2246521

PWSID: 7220038

Client Code: 4085
Project Manager: Christina M Kistler
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown
Project: Feb,Apr,Jun,Aug,Oct,Dec Week 1

Collected By : (Full Name) Mike Barger

Comments:

2246521-01 701 Middletown WWTP
Matrix: Drinking Water **Type:** Grab Date/Time: 12-6-2022 / 0852
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 701 1.04

2246521-02 703 North Union Street Booster Station
Matrix: Drinking Water **Type:** Grab Date/Time: 12-6-2022 / 0879
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 703 0.89

2246521-03 706 North Union Street Standpipe
Matrix: Drinking Water **Type:** Grab Date/Time: 12-6-2022 / 0841
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 706 0.65

Fridge - 0.4°c

Mike Barger	12-6-2022/0857	Fridge	12-6-2022/0857	1002
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	DEC -6 2022 Date/Time	
Relinquished By	Date/Time	Received at Laboratory By	DEC -6 2022 Date/Time	1403

Sample Kit Prepared By: RW	Date/Time
Sample Temp (°C):	3.4
Samples on Ice?	Yes No NA
Approved By:	RW
Entered By:	KMD

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 11/29/2022 10:27:11AM

Report Template: wko WorkOrder COC ls

Certificate of Analysis

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

Laboratory No.: 2246520
Reported: 12/22/22
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: 2246520-01 **Collected By:** Client **Sampled:** 12/06/22 09:02 **Received:** 12/06/22 14:03
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	2	SM 2320 B	12/08/22		APR	N/A	N/A	
Total Hardness as CaCO3	353	mg/l	4.56	CALCULATED	12/08/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	12/16/22		SNF	N/A	N/A	
Silica as SiO2	20.1	mg/l	2.14	CALCULATED	12/08/22		HRG	N/A	N/A	
Conductivity	720	umhos/cm	1	SM 2510 B	12/20/22		LAK	N/A	N/A	
Total Metals										
Calcium	108	mg/l	1	EPA 200.7 Rev 4.4	12/08/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/07/22		HRG	N/A	0.3	PASS
Magnesium	20.4	mg/l	0.5	EPA 200.7 Rev 4.4	12/08/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/08/22		MPB	N/A	0.05	PASS
Silicon	9.4	mg/l	1.0	EPA 200.7 Rev 4.4	12/08/22		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
2246520-01			
SM 4500-P F	SM 4500-P B	12/15/2022	SNF

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WORK ORDER
Chain of Custody

2246520

Client Code: 4085
Project Manager: Christina M Kistler
Client: Veolia Middletown
Project: DW-Weekly WWTP Water Lab Sink
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Collected By : (Full Name) Mike Barager

Comments:

2246520-01 WWTP Lab Sink

Matrix: Drinking Water **Type:** Grab Date/Time: 12-6-2022 / 0902

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - Pl 500ml NP, minimal hdspc
B - Pl 500ml HNO3
C - Pl 500ml H2SO4

1.04

Fridge - 0.4°C

Mike Barager	12-6-2022 / 0905	Fridge	12-6-2022 / 0905	1002
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	DEC -6 2022 Date/Time	
Relinquished By	Date/Time	Received at Laboratory By	DEC -6 2022 Date/Time	1403

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	3.4
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	UMO

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 11/29/2022 10:27:09AM

Report Template: wko WorkOrder COC ls

Certificate of Analysis

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

Laboratory No.: 2247412
Reported: 12/20/22
Lab Contact: Christina M Kistler

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

Project: Feb,Apr,Jun,Aug,Oct,Dec Week 2
7220038

Lab ID: 2247412-01 **Collected By:** Client **Sampled:** 12/13/22 08:22 **Received:** 12/13/22 13:13
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	12/13/22 17:40	12/14/22 12:16		RMB	N/A	1

Lab ID: 2247412-02 **Collected By:** Client **Sampled:** 12/13/22 08:40 **Received:** 12/13/22 13:13
Sample Desc: 701 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	12/13/22 17:40	12/14/22 12:16		RMB	N/A	1

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610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2247412

PWSID: 7220038

Client Code: 4085
Project Manager: Christina M Kistler
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown
Project: Feb,Apr,Jun,Aug,Oct,Dec Week 2

Collected By : (Full Name) CHRIS HANNAN

Comments: 705 8/s

2247412-01 704 Village of Pineford Office

Matrix: Drinking Water **Type:** Grab Date/Time: 12-13-22 0822

TC (P/A) SM 9223B

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: 704 83

2247412-02 ~~705 High Street Standpipe~~ 8/s

Matrix: Drinking Water **Type:** Grab Date/Time: 12-13-22 0840

TC (P/A) SM 9223B 701 WWTP

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: ~~705~~ 701

100

FRIDGE -0.7

CHRIS HANNAN	12-13-22 0841	FRANCK	12-13-22 0841 1034
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	DEC 13 2022 Date/Time
Relinquished By	Date/Time	Received at Laboratory By	DEC 13 2022 1313 Date/Time

Sample Kit Prepared By: TCW	Date/Time
Sample Temp (°C): 2.7	
Samples on Ice? (Yes) No NA	
Approved By: RG	
Entered By:	

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/6/2022 12:50:42PM

Report Template

Certificate of Analysis

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

Laboratory No.: 2247411
Reported: 12/22/22
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: 2247411-01 **Collected By:** Client **Sampled:** 12/13/22 08:42 **Received:** 12/13/22 13:13
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	206	mg CaCO3/ L	2	SM 2320 B	12/20/22		APR	N/A	N/A	
Total Hardness as CaCO3	347	mg/l	4.56	CALCULATED	12/14/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/16/22		SNF	N/A	N/A	
Silica as SiO2	22.9	mg/l	2.14	CALCULATED	12/14/22		HRG	N/A	N/A	
Conductivity	746	umhos/cm	1	SM 2510 B	12/20/22		LAK	N/A	N/A	
Total Metals										
Calcium	107	mg/l	1	EPA 200.7 Rev 4.4	12/14/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/15/22		HRG	N/A	0.3	PASS
Magnesium	19.7	mg/l	0.5	EPA 200.7 Rev 4.4	12/14/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/20/22		MPB	N/A	0.05	PASS
Silicon	10.7	mg/l	1.0	EPA 200.7 Rev 4.4	12/14/22		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
2247411-01			
SM 4500-P F	SM 4500-P B	12/15/2022	SNF

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WORK ORDER
Chain of Custody

2247411

Client Code: 4085
Project Manager: Christina M Kistler
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Client: Veolia Middletown
Project: DW-Weekly WWTP Water Lab Sink

Collected By : (Full Name) CHRIS HANNAN

Comments:

2247411-01 WWTP Lab Sink

Matrix: Drinking Water **Type:** Grab Date/Time: 12-13-22 0845

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - Pl 500ml NP, minimal hdspc
B - Pl 500ml HNO3
C - Pl 500ml H2SO4

FRIDGE -0.7
pH 7.6
Temp 14
TDS 291
Chl 1.00

CHRIS HANNAN	12-13-22 0845	Fridge	12-13-22 0845	1074
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	DEC 13 2022 Date/Time	
Relinquished By	Date/Time	Received at Laboratory By	DEC 13 2022 Date/Time	1313

Sample Kit Prepared By:	Date/Time
TCW	
Sample Temp (°C):	2.7
Samples on Ice?	Yes No NA
Approved By:	RAB
Entered By:	

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/6/2022 12:50:41PM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2248402
Reported: 01/04/23
Lab Contact: Christina M Kistler

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

Project: Feb,Apr,Jun,Aug,Oct,Dec Week 3
7220038

Lab ID: 2248402-01 **Collected By:** Client **Sampled:** 12/20/22 08:57 **Received:** 12/20/22 12:23
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	12/20/22 16:33	12/21/22 10:51		NAK	N/A	1

Lab ID: 2248402-02 **Collected By:** Client **Sampled:** 12/20/22 08:21 **Received:** 12/20/22 12:23
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	12/20/22 16:33	12/21/22 10:51		NAK	N/A	1

Lab ID: 2248402-03 **Collected By:** Client **Sampled:** 12/20/22 08:33 **Received:** 12/20/22 12:23
Sample Desc: 706 North Union Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	12/20/22 15:54	12/21/22 10:51		NAK	N/A	1

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WORK ORDER
Chain of Custody

2248402

PWSID: 7220038

Client Code: 4085
Project Manager: Christina M Kistler
Client: Veolia Middletown
Project: Feb,Apr,Jun,Aug,Oct,Dec Week 3
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Collected By : (Full Name) CHRIS HANNAN

Comments:

2248402-01 701 Middletown WWTP

Matrix: Drinking Water **Type:** Grab Date/Time: 12-20-22 0857

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: 701 98

TC (P/A) SM 9223B

2248402-02 703 North Union Street Booster Station

Matrix: Drinking Water **Type:** Grab Date/Time: 12-20-22 0821

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: 703 1.06

TC (P/A) SM 9223B

2248402-03 706 North Union Street Standpipe

Matrix: Drinking Water **Type:** Grab Date/Time: 12-20-22 0833

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: 706 91

TC (P/A) SM 9223B

FRIDGE -0.1

CHRIS HANNAN	12-20-22 0857	FRIDGE	12-20-22 0857
Relinquished By	Date/Time	Received By	Date/Time
			DEC 20 2022 0922
Relinquished By	Date/Time	Received By	Date/Time
			DEC 20 2022 1223
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

Sample Kit Prepared By: RA	Date/Time
Sample Temp (°C): 0.4	
Samples on Ice? Yes No NA	
Approved By: RA	
Entered By:	

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/13/2022 11:07:59AM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2248401
Reported: 01/05/23
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: 2248401-01 **Collected By:** Client **Sampled:** 12/20/22 08:58 **Received:** 12/20/22 12:23
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	2	SM 2320 B	12/29/22		APR	N/A	N/A	
Total Hardness as CaCO3	343	mg/l	4.56	CALCULATED	12/21/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	12/29/22		JMW	N/A	N/A	
Silica as SiO2	22.5	mg/l	2.14	CALCULATED	12/22/22		HRG	N/A	N/A	
Conductivity	776	umhos/cm	1	SM 2510 B	12/27/22		AMG	N/A	N/A	
Total Metals										
Calcium	106	mg/l	1	EPA 200.7 Rev 4.4	12/21/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/22/22		HRG	N/A	0.3	PASS
Magnesium	18.9	mg/l	0.5	EPA 200.7 Rev 4.4	12/21/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/22/22		MPB	N/A	0.05	PASS
Silicon	10.5	mg/l	1.0	EPA 200.7 Rev 4.4	12/22/22		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
2248401-01			
SM 4500-P F	SM 4500-P B	12/28/2022	JMW

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WORK ORDER
Chain of Custody

2248401

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: DW-Weekly WWTP Water Lab Sink
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Collected By : (Full Name) CHRIS HANNAN

Comments:

Matrix: Drinking Water **Type:** Grab Date/Time: 12-20-22 0858

2248401-01 WWTP Lab Sink

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - Pl 500ml NP, minimal hdspc
B - Pl 500ml HNO3
C - Pl 500ml H2SO4

FRIDGE -0.1
PH 7.7
TEMP 15
TDS 241
Cl2 0.98

CHRIS HANNAN	12-20-22 0901	FRIDGE	12-20-22 0901
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	DEC 20 2022 0922 Date/Time
Relinquished By	Date/Time	Received at Laboratory By	DEC 20 2022 1223 Date/Time

Sample Kit Prepared By: RA	Date/Time
Sample Temp (°C):	0.4
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	RA

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/13/2022 11:07:57AM

Report Template: w

Certificate of Analysis

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

Laboratory No.: 2249410
Reported: 01/04/23
Lab Contact: Christina M Kistler

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

Project: Feb,Apr,Jun,Aug,Oct,Dec Week 4
7220038

Lab ID: 2249410-01 **Collected By:** Client **Sampled:** 12/27/22 08:27 **Received:** 12/27/22 13:00
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	12/27/22 15:16	12/28/22 15:16		RMB	N/A	1

Lab ID: 2249410-02 **Collected By:** Client **Sampled:** 12/27/22 08:53 **Received:** 12/27/22 13:00
Sample Desc: 701 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	12/27/22 15:16	12/28/22 15:16		RMB	N/A	1

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610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2249410

PWSID: 7220038

Client Code: 4085
Project Manager: Christina M Kistler
Client: Veolia Middletown
Project: Feb,Apr,Jun,Aug,Oct,Dec Week 4
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Collected By : (Full Name) CHRIS HANNAN

Comments: 705 O/S

2249410-01 704 Village of Pineford Office

Matrix: Drinking Water **Type:** Grab Date/Time: 12-27-22 0827

TC (P/A) SM 9223B

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: 704 41

2249410-02 ~~705 High Street Standpipe~~ 701 WWTP

Matrix: Drinking Water **Type:** Grab Date/Time: 12-27-22 0853

TC (P/A) SM 9223B

PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio

Loc ID: ~~705~~ 701 114

FRIDGE 6.2

CHRIS HANNAN	12-27-22 0854	FRIDGE	12-27-22 0854
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	12-27-22 1015 Date/Time
Relinquished By	Date/Time	Received at Laboratory By	12-27-22 1300 Date/Time

Sample Kit Prepared By: RCW	Date/Time
Sample Temp (°C): 0.8	
Samples on Ice? (Yes) No NA	
Approved By: RCW	
Entered By:	

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/20/2022 12:14:34PM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2249409
Reported: 01/10/23
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2249409-01 **Collected By:** Client **Sampled:** 12/27/22 08:55 **Received:** 12/27/22 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	191	mg CaCO3/ L	2	SM 2320 B	12/29/22		APR	N/A	N/A	
Total Hardness as CaCO3	354	mg/l	4.56	CALCULATED	12/30/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	12/31/22		JMW	N/A	N/A	
Silica as SiO2	21.8	mg/l	2.14	CALCULATED	12/28/22		HRG	N/A	N/A	
Conductivity	738	umhos/cm	1	SM 2510 B	01/05/23		LMW	N/A	N/A	
Total Metals										
Calcium	110	mg/l	1	EPA 200.7 Rev 4.4	12/30/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/29/22		HRG	N/A	0.3	PASS
Magnesium	19.2	mg/l	0.5	EPA 200.7 Rev 4.4	12/30/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	12/29/22		HRG	N/A	0.05	PASS
Silicon	10.2	mg/l	1.0	EPA 200.7 Rev 4.4	12/28/22		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
2249409-01			
SM 4500-P F	SM 4500-P B	12/30/2022	NJG

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Additional accreditations by MD (261), NY(12094)

M.J. Reider Associates, Inc.
107 Angelica St, Reading PA, 19611
610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2249409

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: DW-Weekly WWTP Water Lab Sink
Report To: Veolia Middletown - Chris Hannan - 453 S. Lawrence St., Middletown, PA 17057
Invoice To: Veolia Middletown - Kelly Peters - 453 S. Lawrence St., Middletown, PA 17057

Collected By : (Full Name) Chris Hannan

Comments:

Matrix: Drinking Water **Type:** Grab Date/Time: 12-27-22 0855

2249409-01 WWTP Lab Sink

Alk SM 2320B, Ca EPA 200.7, Fe EPA 200.7, Hardness EPA 200.7 CALC, Mg EPA 200.7, Mn EPA 200.8, PO4 SM 4500P-F, Si EPA 200.7, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B

A - Pl 500ml NP, minimal hdspc
B - Pl 500ml HNO3
C - Pl 500ml H2SO4

Fridge 6.2
PH 7.6
Temp 14
TDS 254
Chl 1.14

Chris Hannan	12-27-22 0857	Fridge	12-27-22 0857
Relinquished By	Date/Time	Received By	Date/Time
			12-27-22 1015
Relinquished By	Date/Time	Received By	Date/Time
			12-27-22 1300
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

Sample Kit Prepared By:	Date/Time
RW	
Sample Temp (°C):	0.8
Samples on Ice?	Yes No NA
Approved By:	RLeg
Entered By:	

The Client, by signing (or having the client's agent sign), agrees to MJRA's Terms and Conditions and to pay for the above requested services including any additional associated fees incurred.

Printed: 12/20/2022 12:14:30PM

Report Template:

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

SRBC Monitoring Data Website - Reports Complete for Middletown, Borough of-SUEZ/Middletown Water System

1 message

compliance@srbc.net <compliance@srbc.net> Wed, Jan 11, 2023 at 5:35 PM
To: James.Hannan@veolia.com, kodi.webb@veolia.com, michael.barger@veolia.com

Thank you for using the SRBC Monitoring Data Website.

SUEZ/Middletown Water System data has been received for the Reporting Period 10/01/2022 - 12/31/2022 for the following:

Source	Approval #
Well 5	19890701
Well 6	19970702
Well 2	20201207
Well 3	20201207
Well 4	20201207
Well 1	20201207
Passby Sources	
[PASSBYQUERY]	

If you have any questions regarding this email, please contact SRBC at 717-238-0423.

APPENDIX 3
CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE
ACTIVE ACCOUNTS:	2,725	190,006.60	701,230.59	891,237.19
DISCONNECTED ACCTS:	18	393.91	681.95	1,075.86
FINALED ACCOUNTS:	357	16,527.42		16,527.42
INACTIVE ACCOUNTS:	12,375	0.00		0.00
GRAND TOTALS	15,475	206,927.93	701,912.54	908,840.47

ACTIVE ACCOUNT RECONCILIATION	
NEW ACCOUNTS:	23
DISCONNECT--NO TRF:	18
DISCONNECT-TRANSFER:	0

CALCULATION SUMMARY		
TOTAL CHARGES:	701,912.54	
DEPOSIT RETURNS:	0.00	
TOTAL CURRENT:	701,912.54	

====== S E R V I C E C A T E G O R Y T O T A L S ======

CATEGORY	NUMBER	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION
S SEWER	2658	404,586.60	0.00	0.00	0.00	14429,500.0000		14429,500.0000
SR SURCHARGE	1	0.00	0.00	0.00	0.00			
SR2 SURCHARGE 2	2706	81,724.29	0.00	0.00	0.00			
W WATER	5352	215,601.65	0.00	0.00	0.00	18383,200.0000		18383,200.0000
TOTALS		701,912.54	0.00	0.00	0.00			

========== R E V E N U E C O D E T O T A L S ==========

R/C DESCRIPTION	G/L ACCOUNT#	AMOUNT
SERVICES:		
200-WTR MDT	687-145900	70,890.21
203-WTR MDT COMMERCIAL	687-145900	81,876.32
206-CUSTOMER CHARGE	687-145900	10,967.04
207-SERVICE CHG / METER	687-145900	43,184.33
210-WTR ROYAL	687-145900	8,628.00
220-WTR L SWT	687-145900	55.75
230-SURCHARGE WATER/SEWER	687-145900	0.00
231-SURCHARGE WATER/SEWER	687-145900	81,724.29
300-SWR MDT	687-145800	281,287.78
306-SW CUST CHARGE	687-145800	57,061.92
310-SWR ROYAL	687-145800	22,632.84
320-SWR L SWT	687-145800	43,604.06
R/C TOTALS		701,912.54

========== R A T E T A B L E T O T A L S ==========

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
S	300	LST	SEWER -LWR SW TWP	LST	1	43,604.06	0.00	0.00	0.00		
S	300	RB	SEWER -ROYALTON	RB	1	22,632.84	0.00	0.00	0.00		
S	300	SW	SEWER	SW	2656	338,349.70	0.00	0.00	0.00	14,429,500.0000	799

========== R A T E T A B L E T O T A L S ==========
** (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	2706	81,724.29	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	35	3,730.02	0.00	0.00	0.00	324,100.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	5,810.55	0.00	0.00	0.00	608,700.0000	
W	200	C20	COMM 2" MTR	C20	21	16,296.84	0.00	0.00	0.00	1,715,700.0000	
W	200	C30	COMM 3" MTR	C30	5	6,141.39	0.00	0.00	0.00	651,700.0000	
W	200	C40	COMM 4" MTR	C40	2	197.10	0.00	0.00	0.00	14,000.0000	
W	200	C58	COMM 5/8" MTR	C58	10	462.74	0.00	0.00	0.00	28,700.0000	
W	200	C60	COMM 6" MTR	C60	13	46,551.47	0.00	0.00	0.00	4,997,500.0000	
W	200	C75	COMM 3/4" MTR	C75	2	220.14	0.00	0.00	0.00	19,500.0000	
W	200	C80	COMM 8" MTR	C80	4	5,166.16	0.00	0.00	0.00	539,700.0000	
W	200	COM	COMPOUND WATER N/C	COM	14	0.00	0.00	0.00	0.00		
W	200	LS8	LOWER SWAT 8" MTR	LS8	1	55.75	0.00	0.00	0.00	600.0000	
W	200	NCW	NO CHG	NCW	27	0.00	0.00	0.00	0.00	80,200.0000	
W	200	R10	RESID 1" MTR	R10	22	657.12	0.00	0.00	0.00	20,300.0000	
W	200	R58	RESID - 5/8'" MTR	R58	2561	118,121.97	0.00	0.00	0.00	7,311,600.0000	
W	200	R60	RESID 6" MTR	R60	1	2,980.83	0.00	0.00	0.00	319,200.0000	
W	200	R75	RESID 3/4" MTR	R75	4	451.32	0.00	0.00	0.00	40,200.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	8,628.00	0.00	0.00	0.00	1,711,500.0000	
W	210	A1V	FLAT RATE WATER -VAR	A1V	2	130.25	0.00	0.00	0.00		
W	220	MC	WATER METER CHARGE -	MC	2617	0.00	0.00	0.00	0.00		
			TOTALS			701,912.54	0.00	0.00	0.00		

========== M E T E R G R O U P T O T A L S ==========

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	18,383,200.0000	0.000	18,383,200.0000	

====== R E F U N D E D D E P O S I T T O T A L S ====

CODE	DESCRIPTION	NUMBER	AMOUNT
	DEPOSIT TOTALS	0	0.00

PERIOD: 12/01/2022 THRU 12/31/2022
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	02	4	16,711.32
	05	33	345.16CR
	12	3	49.82
	19	3	90.00
	20	2	0.00
	22	1	0.00
	27	3	29.24CR
	28	129	0.00
	29	6	358.38CR
	30	1	16.50CR
	ADJUSTMENT TOTAL		16,101.86
BILL	01	4	102.32
	07	1	17.51
	12	2	72.61CR
	13	2	71.33
	14	4	219.63
	20	3	227.25
	27	3	146.23
	28	2,730	701,224.56
	29	2	23.68CR
	BILL TOTAL		701,912.54
LATE CHARGE	28	466	8,034.21
	LATE TOTAL		8,034.21
MEMO	19	12	0.00
	20	84	0.00
	28	1	0.00
	MEMO TOTAL		0.00
PAYMENT	01	22	4,537.63CR
	02	44	25,606.90CR
	05	155	23,771.49CR
	06	67	12,480.45CR
	07	61	11,136.91CR
	08	52	9,405.80CR
	09	323	54,806.70CR
	12	98	18,387.30CR
	13	322	223,160.51CR
	14	71	11,859.67CR
	15	160	40,337.17CR
	16	166	44,336.46CR
	19	188	72,152.28CR

Other Revenue $24,136.07

PERIOD: 12/01/2022 THRU 12/31/2022
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
	20	17	3,385.19CR
	21	30	4,222.04CR
	22	42	7,890.10CR
	27	122	62,659.33CR
	28	11	2,238.89CR
	29	27	4,991.82CR
	30	24	4,202.38CR
	PAYMENT TOTAL		641,569.02CR
REFUND CHECK	22	1	93.49
	REFUND TOTAL		93.49
DRAFT	16	359	57,594.99CR
	20	24	22,800.77CR
	DRAFT TOTAL		80,395.76CR
REVERSE-PAY	12	1	263.13
	19	2	360.58
	20	1	120.26
	21	1	229.17
	REVERSE PAY TOTAL		973.14
	GRAND TOTAL FOR PERIOD		5,150.46

Total Collected $721,964.78

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

==== REVENUE CODE TOTALS ====

REVENUE CODE:	--CURRENT--	+1 MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
081-NSF CK FEE	18.79	40.74	0.47	0.00	0.00	60.00
200-WTR MDT	71130.39	17062.98	5902.18	2725.44	5034.35	101855.34
201-WATER TURN ON	0.00	124.61	69.73	36.68	25.19	256.21
203-WTR MDT COMMERCIAL	81914.21	6149.24	1000.94	0.00	25.41	89089.80
206-CUSTOMER CHARGE	10710.86	2165.91	840.83	422.98	2380.09	16520.67
207-SERVICE CHG / METER	42107.07	8473.20	3264.32	1637.25	9244.85	64726.69
210-WTR ROYAL	8628.00	0.00	0.00	0.00	0.00	8628.00
220-WTR L SWT	55.75	0.00	0.00	0.00	0.00	55.75
230-SURCHARGE WATER/SEWER	16.28	15.65	15.66	15.66	1758.37	1821.62
231-SURCHARGE WATER/SEWER	79178.45	5574.89	1660.99	675.67	1771.68	88861.68
275-WTR PEN	197.99CR	2443.55	770.26	268.13	870.61	4154.56
300-SWR MDT	278849.63	51215.36	14354.46	5704.16	10449.14	360572.75
306-SW CUST CHARGE	55807.86	11440.56	4496.35	2340.79	25500.79	99586.35
310-SWR ROYAL	22632.84	0.00	0.00	0.00	0.00	22632.84
320-SWR L SWT	43604.06	0.00	0.00	0.00	0.00	43604.06
375-SWR PEN	286.47CR	4325.90	1310.79	438.52	2087.86	7876.60
996-UNAPPLIED	13509.30CR	0.00	0.00	0.00	0.00	13509.30CR
999-REFUND	1539.00CR	0.00	0.00	0.00	0.00	1539.00CR
TOTALS	679121.43	109032.59	33686.98	14265.28	59148.34	895254.62

TOTAL REVENUE CODES: 895,254.62
TOTAL ACCOUNT BALANCE: 895,254.62
DIFFERENCE: 0.00

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,663	14,429,500	14,429,500			$ 404,586.60
SR	2,660	0	0			
SR2	2,711	0	0			$ 81,724.29
W	5,359	18,383,200	18,383,200			$ 215,601.65

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID
W 89769376	INVENTORY				1483441396
W 89769377	INVENTORY				1483441392
W 89769378	INVENTORY				1483439978
W 89769379	INVENTORY				1483441800
W 89769380	INVENTORY				1483439974
W 89769381	INVENTORY				1483439982
W 89769382	INVENTORY				1483440690
W 89769383	INVENTORY				1483441674
W 89769384	INVENTORY				1483434890
W 89769385	INVENTORY				1483434850
W 68321084	INVENTORY				1440302592 Duplica
W 68321092	INVENTORY				1460155946 Duplica
W 68321088	INVENTORY				1460082070 Duplica
W 8652384	INVENTORY				1440127130 Duplica
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 37016026	INVENTORY				1470153476
W 27016014	INVENTORY				1548612198
W 85441897	INVENTORY				1563419820
W 53388599	INVENTORY				1551754996
W 10871871	INVENTORY				1568031178
W 10871883	INVENTORY				1563387082
W 10871886	INVENTORY				1563522708

*** TOTAL METERS IN SERVICE 2746
*** TOTAL METERS IN INVENTORY 722

ACTION		ISSUED THIS PERIOD ISSUED	COMPLETED	VOIDED	OUTSTANDING	PRIOR ORDERS COMPLETED	VOIDED	OUTSTANDING	TOTAL COMPLETED	TOTAL OUTSTANDING
C	CONNECT	2	2	0	0	160	4	0	162	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	25	25	0	0	3,351	87	0	3,376	0
M	METER CHANGE	8	8	0	0	660	7	0	668	0
O	OCC CHANGE	16	16	0	0	1,392	3	0	1,408	0
R	REINSTATE	0	0	0	0	2	2	0	2	0
S	SERV CHANGE	0	0	0	0	33	0	0	33	0
X	MISC	1	1	0	0	802	23	0	803	0
	** GRAND TOTALS **	52	52	0	0	6,449	133	0	6,501	0

12/28/2022 11:47 AM
ZONE: ALL ZONES
SERVICE: 200-WATER

IDLE METER REPORT

**** REPORT TOTALS ****

Book	Services	Addresses
02 - BOOK 02	2	1
04 - BOOK 04	3	0
08 - BOOK 08	6	6
09 - BOOK 09	1	1
12 - BOOK 12	5	3
13 - BOOK 13	1	1
15 - BOOK 15	2	0
16 - BOOK 16	3	0
18 - BOOK 18	2	0
20 - BOOK 20	1	1
21 - BOOK 21	3	2
28 - BOOK 28	1	1
29 - BOOK 29	2	1
32 - BOOK 32	1	1
Grand Totals	33	18

DECEMBER 2022 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/Emails)	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	
12/1/2022	22	1	23	2						4		10	6											
12/2/2022	34	3	37							6		23	5											
12/5/2022	36	5	41							4		30	1		1									
12/6/2022	43	1	44	1						3		37	2											
12/7/2022	26	0	26	1						6		16	2		1									
12/8/2022	31	1	32	2			1			5		23												
12/9/2022	49	2	51	1						3		40		2	3									
12/12/2022	34	1	35	2						4		25		2	1									
12/13/2022	51	6	57				1	1		2		42	5											
12/14/2022	40	1	41	1						3		30	6											
12/15/2022	63	6	69	2		1		2		2		41	15											
12/16/2022	92	2	94	2						2		78	10											
12/19/2022	42	4	46	1						3		35	2			1								
12/20/2022	16	4	20	2						4		6		2	2									
12/21/2022	28	0	28	1			1	1		2		22			1									
12/22/2022	28	1	29	2						3		21		1	1									
12/27/2022	56	5	61	3				1		7		37	3		3						2			
12/28/2022	17	2	19	2						2		7	4		1					1				
12/29/2022	22	2	24	3						5		7	3	1	1					1	1			
12/30/2022	16	1	17	2						2		11			1									
GRAND TOTALS	746	48	794	30	0	1	3	5	0	72	0	541	64	8	16	1	0	0	0	2	3	0	0	

2022 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	2/15/2022	1/20/2022	247	2/15/2022	81	NO SHUT OFF DUE TO WEATHER
February Bill Cycle	3/16/2022	2/17/2022	224	3/11/2022	53	4 SHUT OFFS(3 OCCUPIED, 1 VACANT) 3 PROPERTIES TURNED BACK ON
March Bill Cycle	4/18/2022	3/21/2022	193	4/7/2022	57	NO SHUT OFFS
April Bill Cycle	5/16/2022	4/22/2022	228	5/9/2022	54	3 SHUT OFFS (3 OCCUPIED) 3 PROPERTIES TURNED BACK ON
May Bill Cycle	6/15/2022	5/19/2022	232	6/6/2022	78	2 SHUT OFFS (2 VACANT)
June Bill Cycle	7/15/2022	7/20/2022	222	8/5/2022	65	6 SHUT OFFS (3 VACANT) 4 PROPERTIES TURNED BACK ON
July Bill Cycle	8/15/2022	8/22/2022	219	9/9/2022	52	5 SHUT OFFS (4 VACANT) 2 PROPERTIES TURNED BACK ON
August Bill Cycle	9/16/2022	9/21/2022	226	10/14/2022	50	6 SHUT OFFS (6 OCCUPIED) 3 PROPERTIES TURNED BACK ON
September Bill Cycle	10/17/2022	10/19/2022	239	11/7/2022	60	5 SHUT OFFS (5 OCCUPIED) 4 PROPERTIES TURNED BACK ON
October Bill Cycle	11/16/2022	11/18/2022	211	12/13/2022	38	NO SHUT OFF DUE TO WEATHER
November Bill Cycle						
December Bill Cycle						

Partner Reporting Dashboard

Back to Partner Select Page

SUEZ (Middletown)

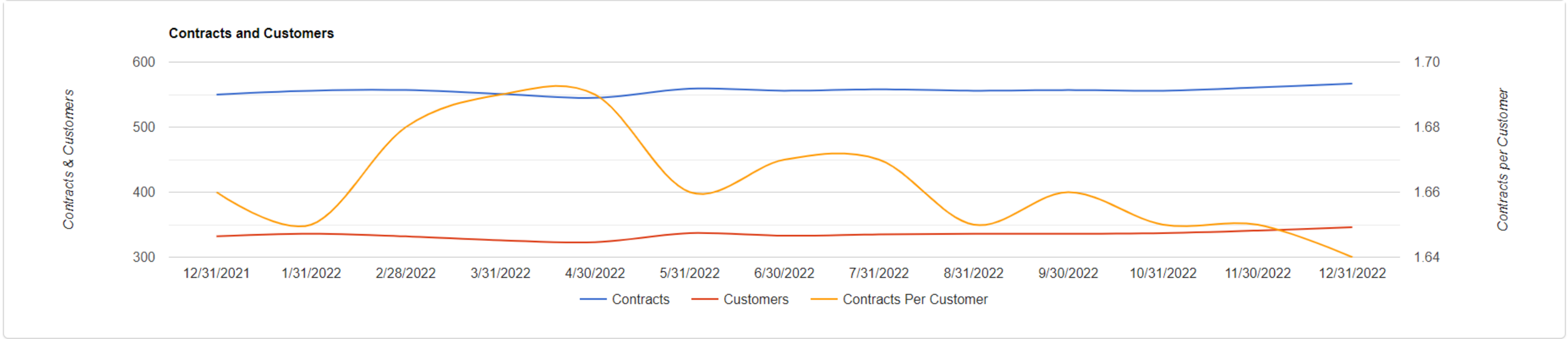
Date Start

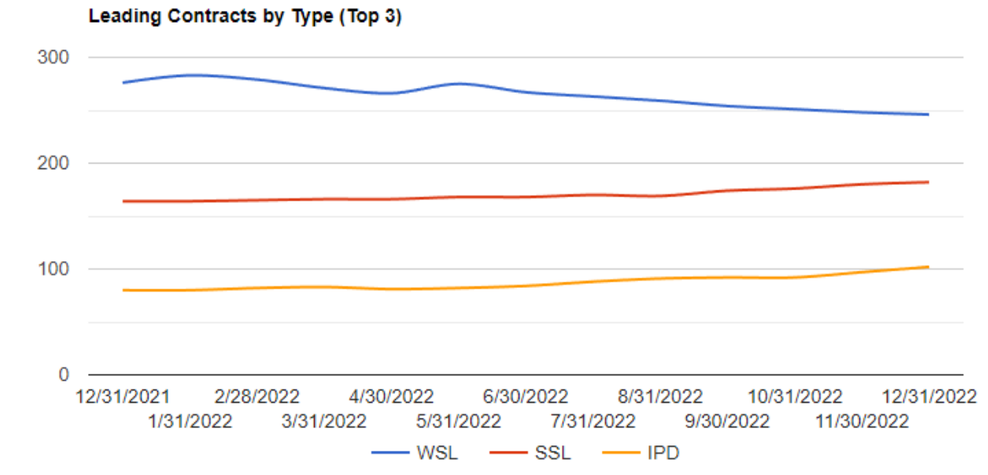
2021-12-31

Date End

2022-12-31

Filter




Leading Contracts by Type (Top 3)
300
200
100
0
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
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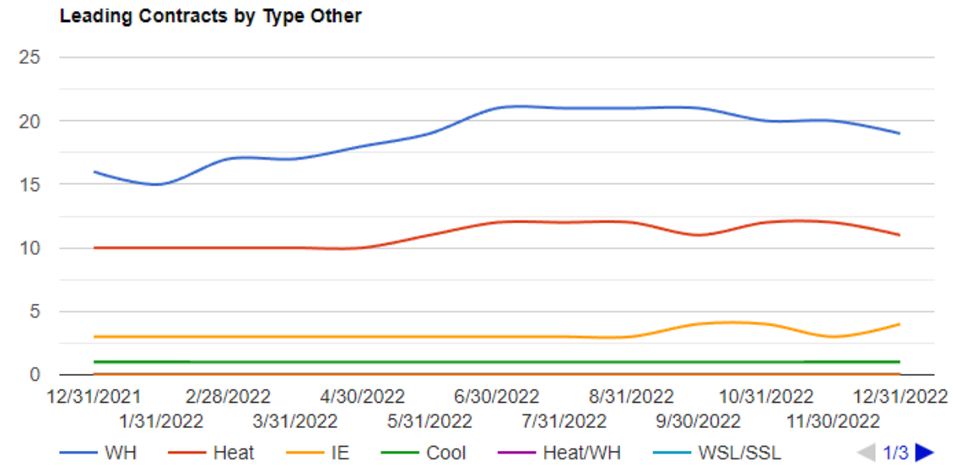
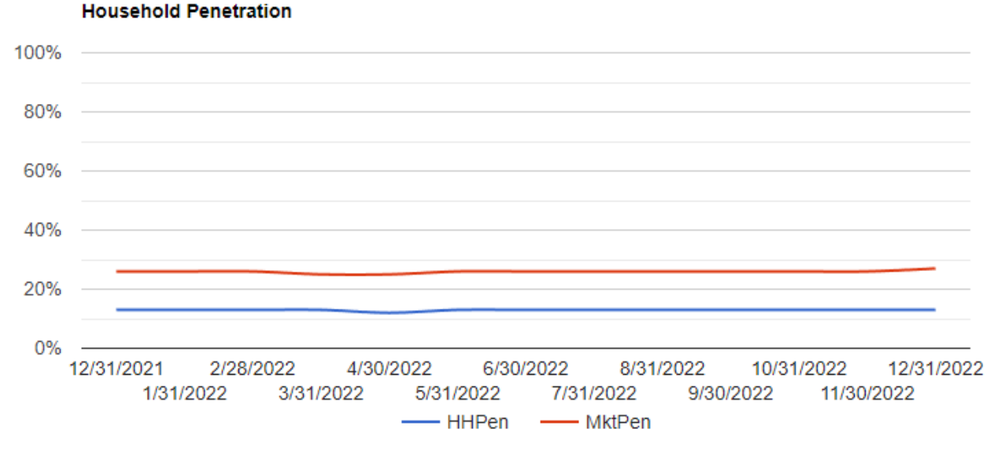
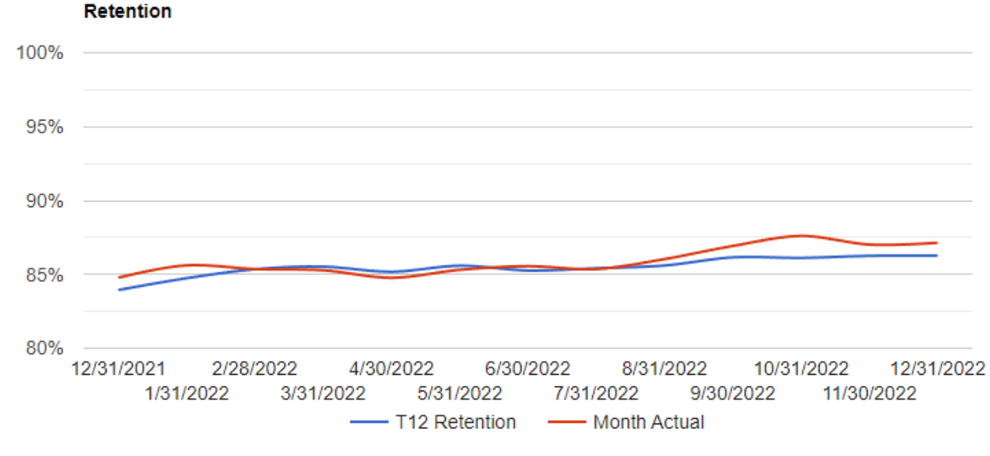
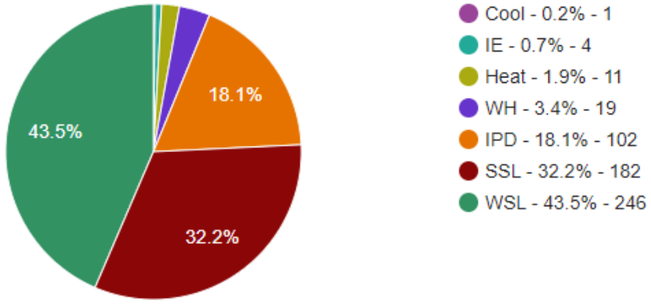
11/30/2022
12/31/2022
WSL
SSL
IPD


Leading Contracts by Type Other
25
20
15
10
5
0
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
WH
Heat
IE
Cool
Heat/WH
WSL/SSL
1/3


Household Penetration
100%
80%
60%
40%
20%
0%
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
HHPen
MktPen

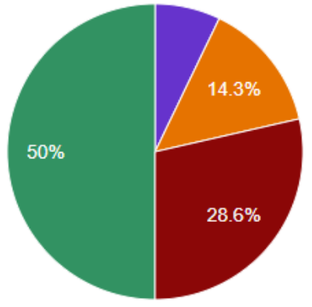

Retention
100%
95%
90%
85%
80%
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
T12 Retention
Month Actual

Contracts by Product Type



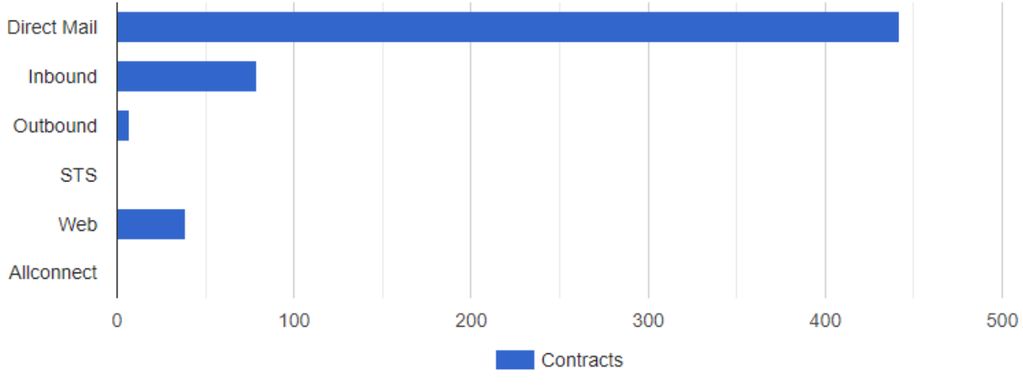
- Cool - 0.2% - 1
- IE - 0.7% - 4
- Heat - 1.9% - 11
- WH - 3.4% - 19
- IPD - 18.1% - 102
- SSL - 32.2% - 182
- WSL - 43.5% - 246

Contracts by Type - Last 30 Days

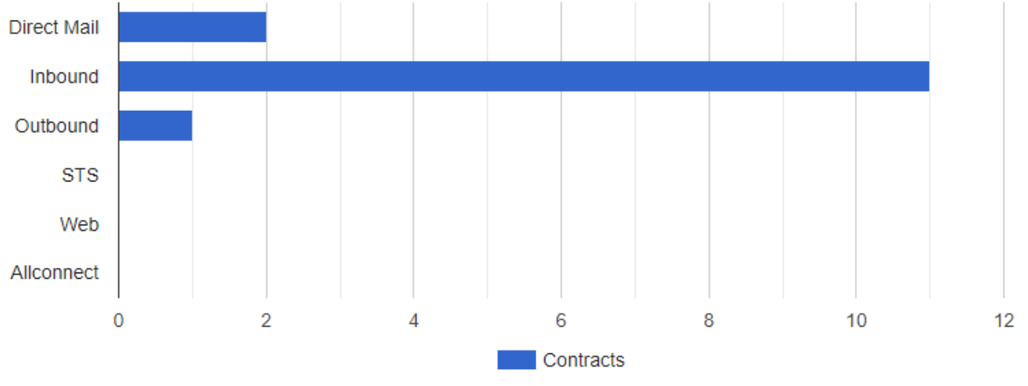


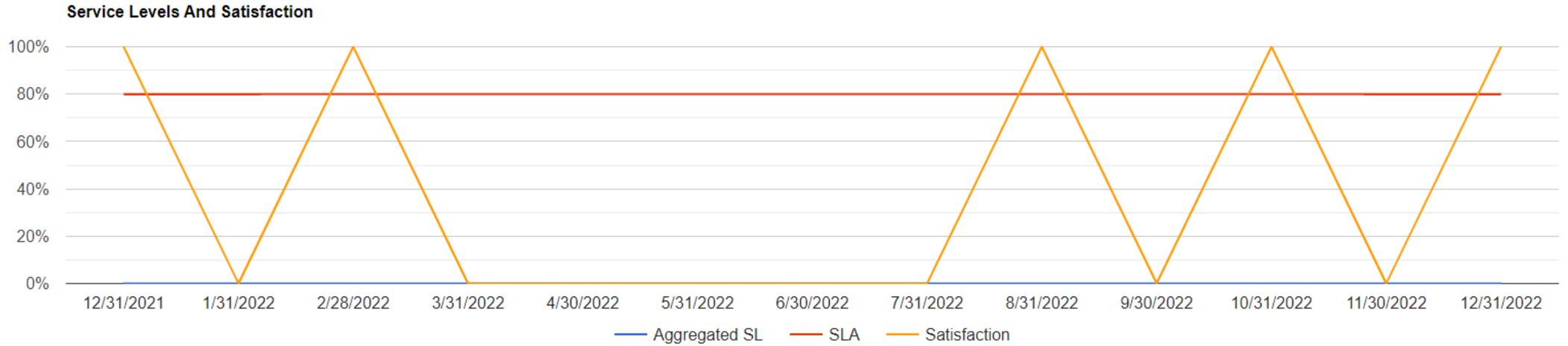
- IE - 7.1% - 1
- WH - 14.3% - 2
- SSL - 28.6% - 4
- IPD - 50.0% - 7

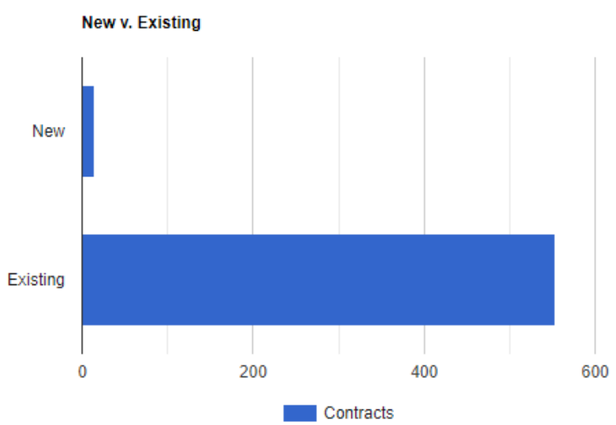
Contracts by Channel

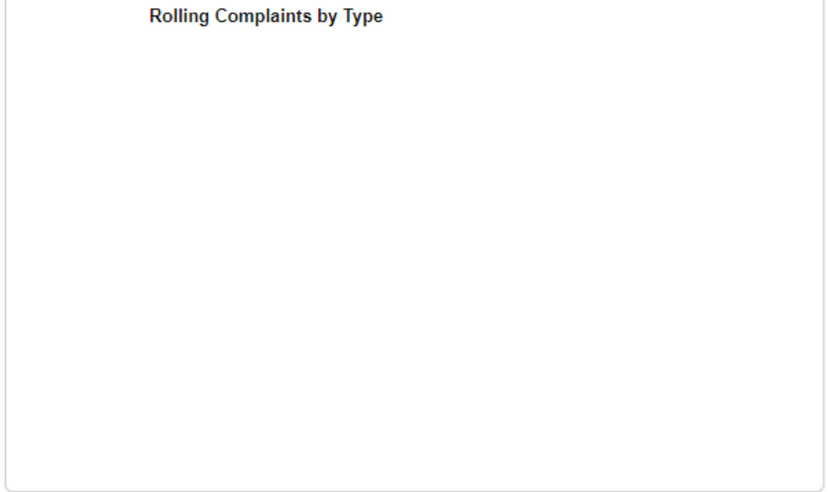


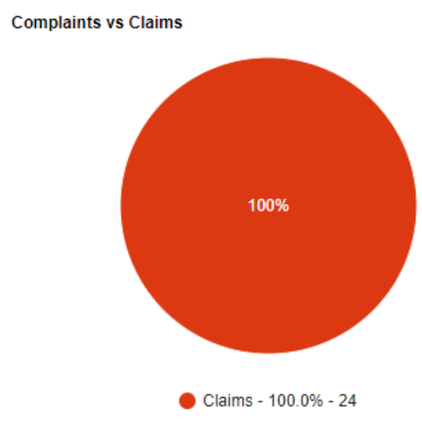
Contracts by Channel - Last 30 Days

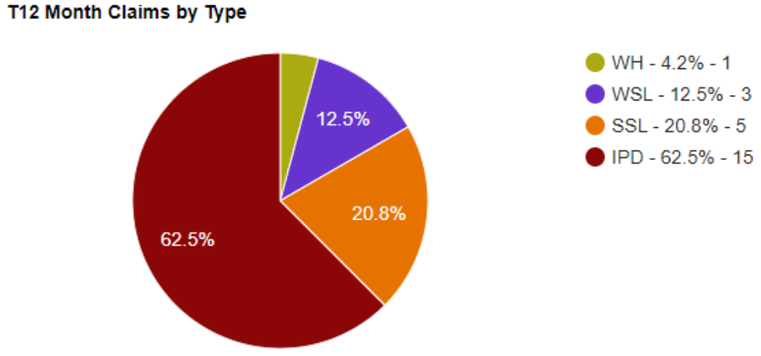


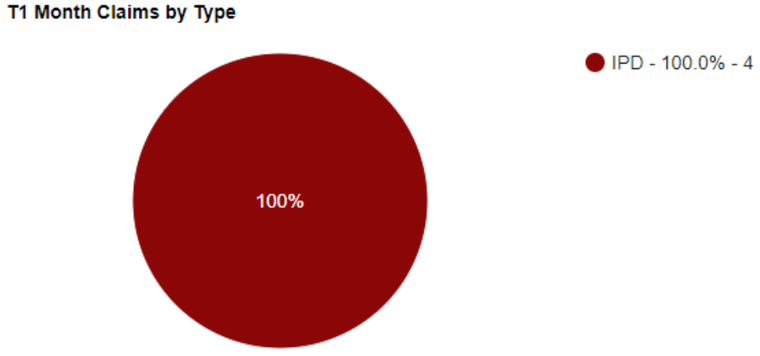

Service Levels And Satisfaction
100%
80%
60%
40%
20%
0%
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
Aggregated SL
SLA
Satisfaction

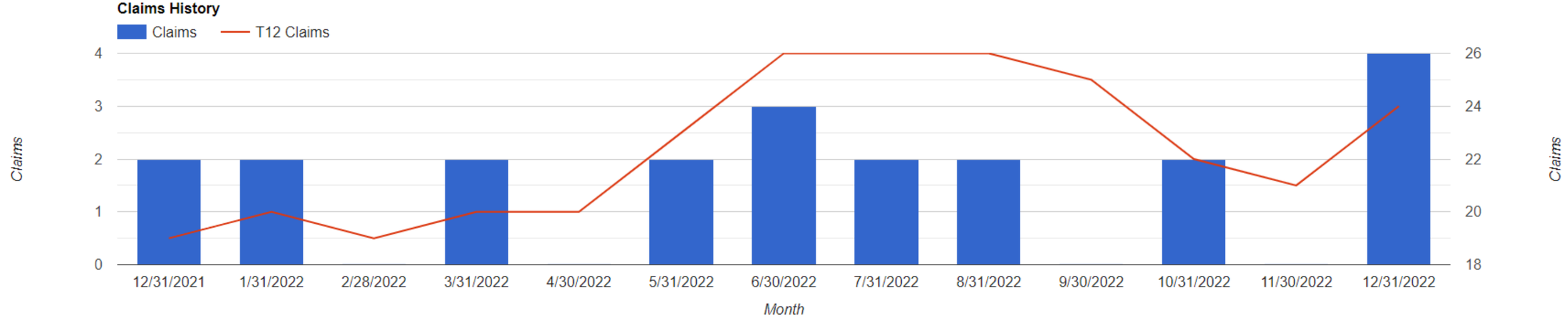

New v. Existing
New
Existing
0
200
400
600
Contracts


Rolling Complaints by Type


Complaints vs Claims
100%
Claims - 100.0% - 24


T12 Month Claims by Type
12.5%
20.8%
62.5%
WH - 4.2% - 1
WSL - 12.5% - 3
SSL - 20.8% - 5
IPD - 62.5% - 15


T1 Month Claims by Type
100%
IPD - 100.0% - 4


Claims History
Claims
T12 Claims
Claims
Month
0
1
2
3
4
18
20
22
24
26
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022

APPENDIX 4

WATER MAIN LEAK LOGS

APPENDIX 5

QUARTERLY METER TEST AND CALIBRATION REPORTS

APPENDIX 6