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

December 30, 2022

Mr. Kenneth Klinepeter
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RE: Transmittal of Veolia Middletown Operations Report November 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

NOVEMBER 2022

EXECUTIVE SUMMARY

This report covers the monthly period of November 1, 2022 through November 30, 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.
- Complete chemical feed upgrade at Well 2.
- Began removing stored biosolids to new farm for disposal.
- Fixed leaks at Grant and Market St, 53 Peters Ave, Hoffer and Conewago St, and Aspen and Cypress St.
- Perform maintenance on SmartCovers.

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

During rounds on November 24, 2022, the wastewater operator noticed a red substance in the influent wet well that had an oily smell. Remediation efforts began immediately which included adding additional booms at the effluent and contracting an environmental clean-up company to come and remove the oil from the wet well. Manholes were also inspected to

determine the source of the oil. Notifications to PA DEP, the JV, and the Borough were made and Borough staff notified Veolia staff that a home heating oil spill had occurred the previous day and was handled by Dauphin County Hazmat. The oil was removed from the wet well and did not make it out to the biological processes at the plant.

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 August was successfully completed on November 28th, 2022. Restarted the Delinquent Notification and Shut-Off Program which was previously suspended due to COVID-19
  - Sent 206, 10 day shut-off notices to accounts that were $50 past due for the September 2022 billing period
  - Posted 40 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.

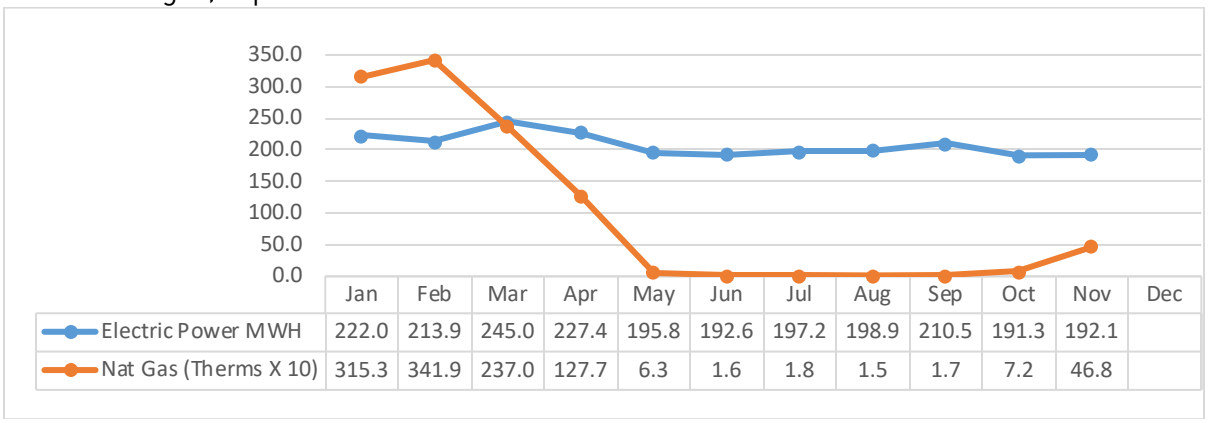
Quality Control Reporting

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	
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	

*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.

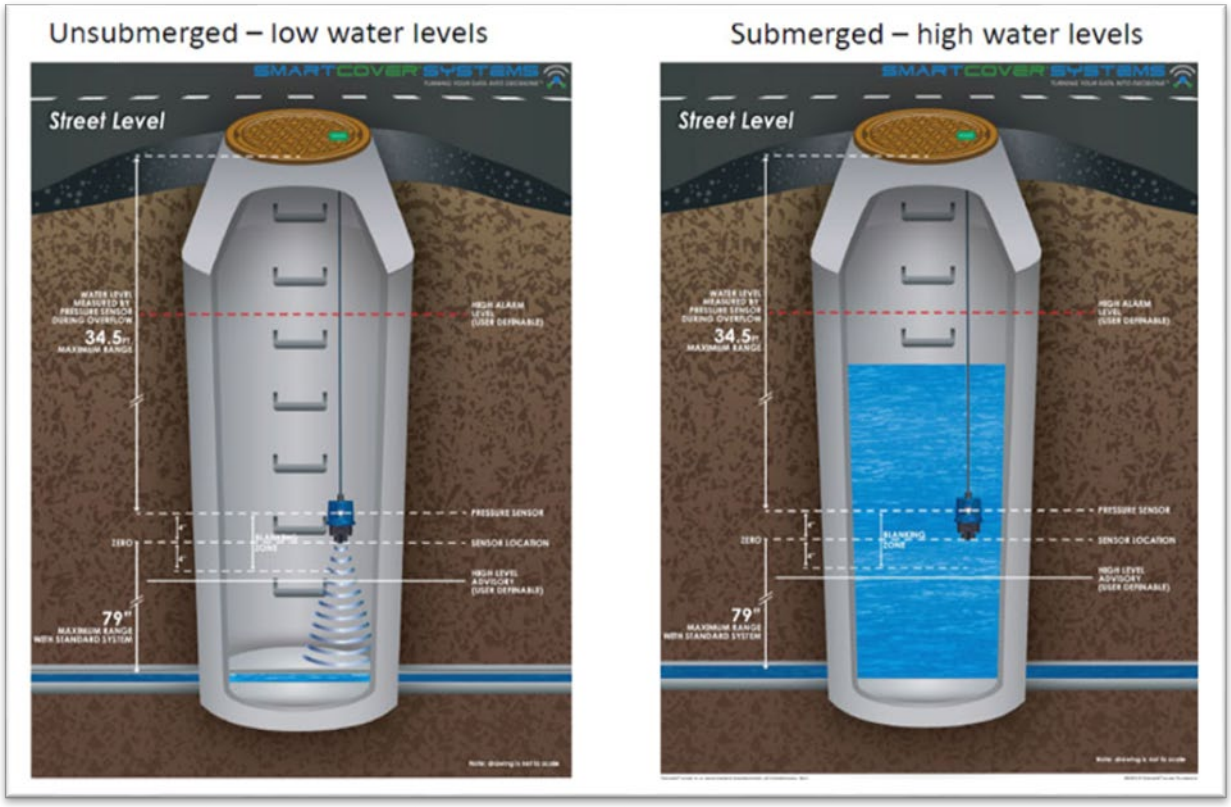
Water System and Wastewater Treatment Plant Maintenance

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	RAS 3	RAS	9/12/22	Motor Failure	11/15/22
WWTP	Vac-Con	Vehicle	9/27/22	Motor Failure	In Progress
WWTP	Mixer	Ox Ditch 2	11/17/22	Sensor Failure	In Progress

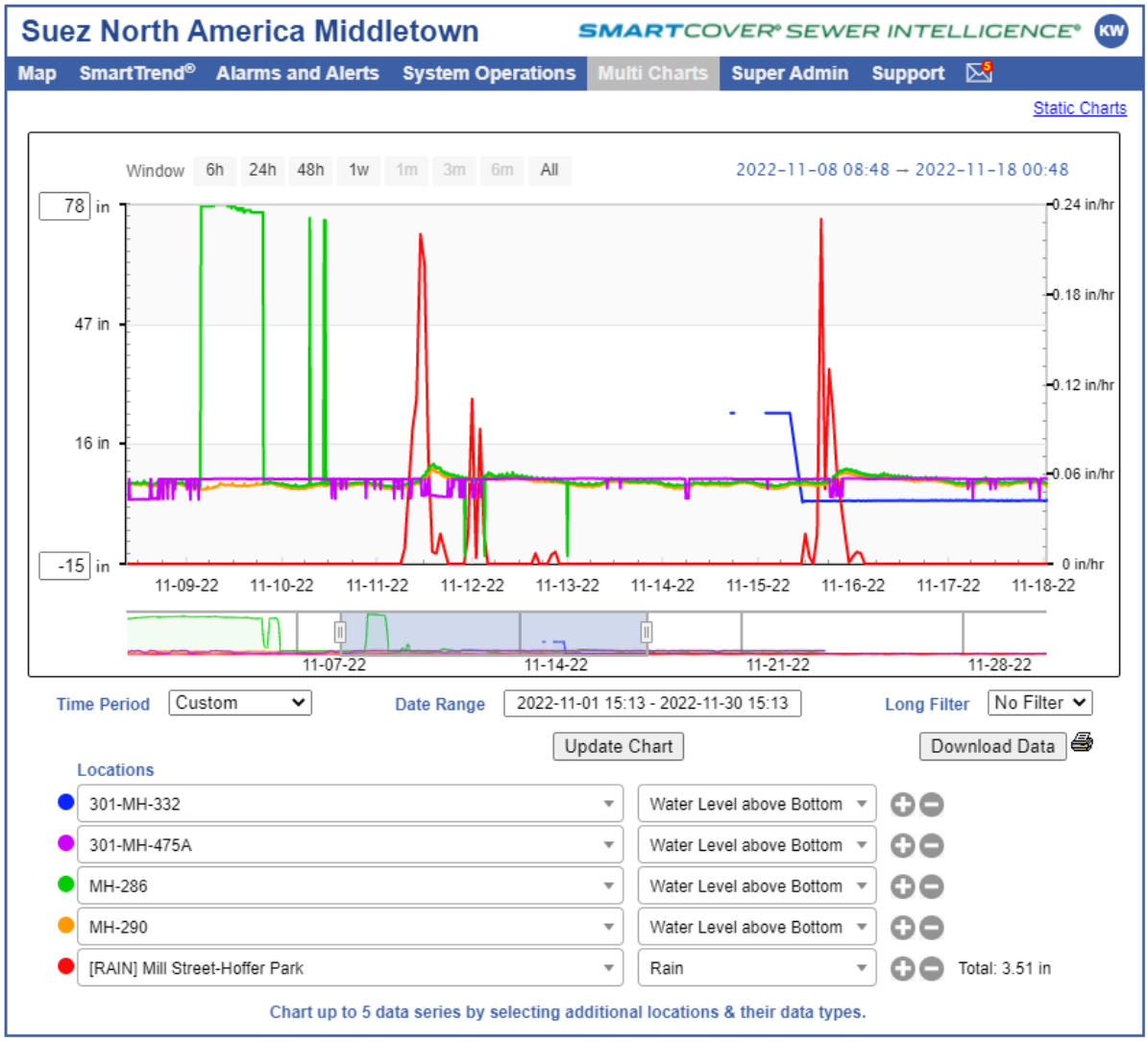
Sanitary Sewer System

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.

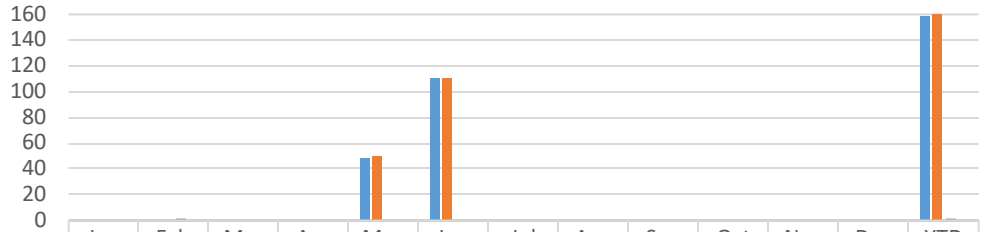
KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	1	1179	35
Current	0	1	0	0
YTD	159	112	12349	35

On Target – Good Work	Caution	Significantly Behind Goal

KPI Comments

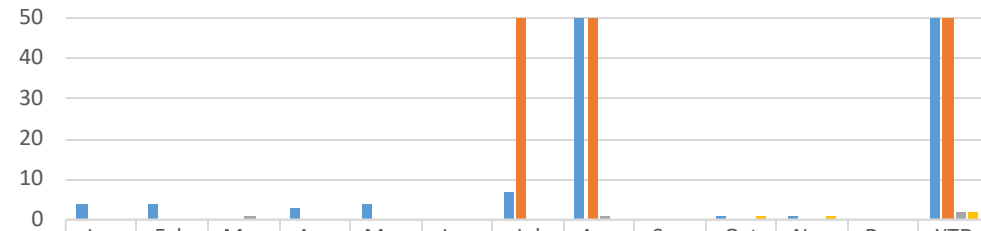
- Water Loss: Identifying and reducing the system water loss has been a key focus for Veolia. In an effort to identify and resolve the sources of water loss,
- continue to (1) verify the accuracy of the billing system reports, (2) verify the production meter accuracy at each well site based on review 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



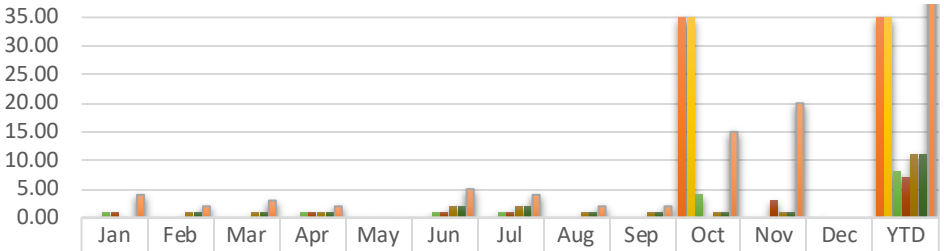
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Inspected	0	0	0	0	49	110	0	0	0	0	0		159
2022 Plan	0	0	0	0	50	110	0	0	0	0	0	0	160
No. Repaired	0	1	0	0	0	0	0	0	0	0	0		1
No. Replaced	0	0	0	0	0	0	0	0	0	0	0		0

Water Main Valves Exercised



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

Water System Leak Detection



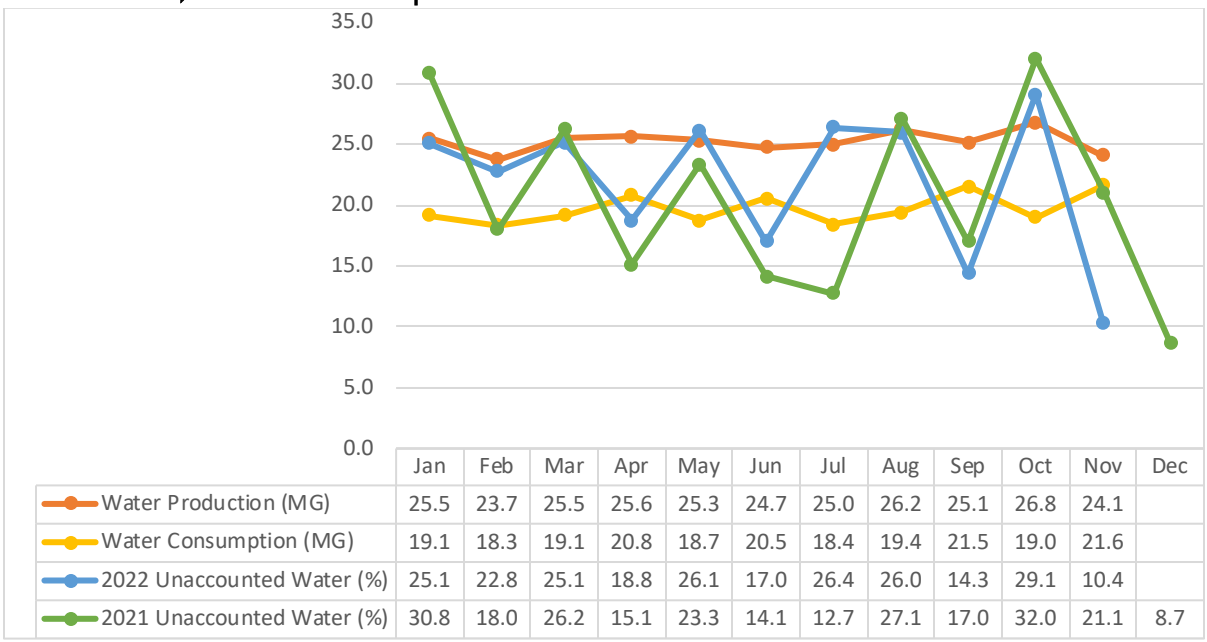
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Miles Surveyed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00		35.00
2022 Plan Survey	0	0	0	0	0	0	0	0	0	35	0	0	35
Main Leaks Located	1	0	0	1	0	1	1	0	0	4	0		8
Main Leaks Repaired	1	0	0	1	0	1	1	0	0	0	3		7
Service Leaks Located	0	1	1	1	0	2	2	1	1	1	1		11
Service Leaks Repaired	0	1	1	1	0	2	2	1	1	1	1		11
Estimated Leakage (Gallons/Day x 1000)	4	2	3	2	0	5	4	2	2	15	20		59

Wastewater Mains Cleaned/CCTV Inspected

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Linear Feet Flushed	0	0	0	0	0	0	0	0	300	1179	0		1479
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		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.

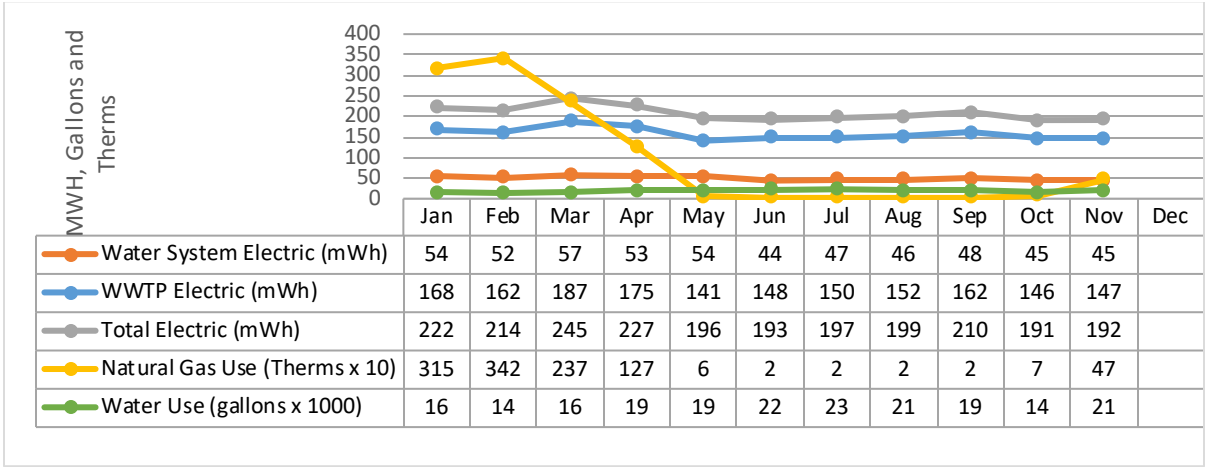
Water Production, Water Consumption and Unaccounted Water



	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	
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	
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	
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.

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	
WWTP Electric (mWh)	168	162	187	175	141	148	150	152	162	146	147	
Total Electric (mWh)	222	214	245	227	196	193	197	199	210	191	192	
Natural Gas Use (Therms x 10)	315	342	237	127	6	2	2	2	2	7	47	
Water Use (gallons x 1000)	16	14	16	19	19	22	23	21	19	14	21	

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		2770
Hydroflurosilic Acid	lbs	251	267	305	311	380	416	312	310	311	238	176		3277
Alum	gal	1309	1274	1466	1382	1370	1418	1363	1152	1155	1114	1104		14107
Thickening Polymer	gal	45	65	64	64	74	54	60	60	45	37	49		617
Dewatering Polymer	gal	60	90	113	85	84	109	69	45	37	60	90		842
Chlorine (WWTP)	lbs	384	412	384	537	724	527	375	327	399	423	474		4966
Lime	lbs	3464	4692	5798	4425	5089	5620	3717	2877	2036	1428	2407		41553

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 57% 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		1	1	1	1	4
Water Process	17	0	0	15	0	0	15	0	0	15	0		17	15	15	15	62
Interconnect/Large	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		1	0	20	0	21
TOTAL	18	0	1	16	0	0	16	0	20	16	0	0	19	16	36	16	87

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.
- Continue annual sewer jetting.
- Continue to transport stored biosolids to farm.

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 Novvember with a total of 760 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 November being mailed to customers on November 29th.
The average gross monthly collection rate for November was 99.28% and 100.85% 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 34 accounts this month, which is the same as last month. There were no idle meters with consumption this month.

The number of Field Service Requests in Novembber was 59. 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 385 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		120	131	179
Bill Inquiry	210	99	176	167	146	142	93	97	63	118	65		1376	934	764
Finals	14	9	20	26	32	27	25	20	17	20	16		226	173	182
New Account	12	7	11	12	19	10	11	5	8	7	8		110	98	91
Meter Reading /Re-Reads	0	0	2	2	1	0	2	1	1	3	0		12	0	5
Payments	562	597	584	557	570	569	590	578	575	604	574		6360	6127	5710
Collection Letter	9	47	56	52	85	84	53	78	64	75	68		671	168	56
Rates	0	5	2	0	0	1	1	0	0	0	0		9	30	14
Complaints	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		6	12	17
Leaks	0	0	0	0	0	2	6	1	4	0	0		13	11	12
No/Low Water Pressure	0	0	0	0	1	0	0	2	1	1	0		5	6	10
Copy Of Bill	77	0	0	3	0	3	2	4	2	1	4		96	2	3
Correct. Bills	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	1	0
Customer Correspondance	78	119	68	49	43	55	70	82	47	50	54		715	922	206
Discolored/Water Quality	0	0	0	0	0	1	0	0	0	0	0		1	0	1
Calls Referred to SUEZ Hbg	34	25	30	29	58	48	39	27	30	50	14		384	439	659
Calls from City / Other Org	0	0	0	0	0	0	0	0	0	0	0		0	1	0
Compliments	0	0	1	0	0	0	0	0	0	0	0		1	18	0
2022 TOTALS	**1005**	920	966	915	972	955	902	905	818	933	814	0	**####**		
2021 TOTALS	**697**	**659**	**779**	**759**	**726**	**772**	**719**	**781**	**803**	**866**	**799**	**714**		**9074**	

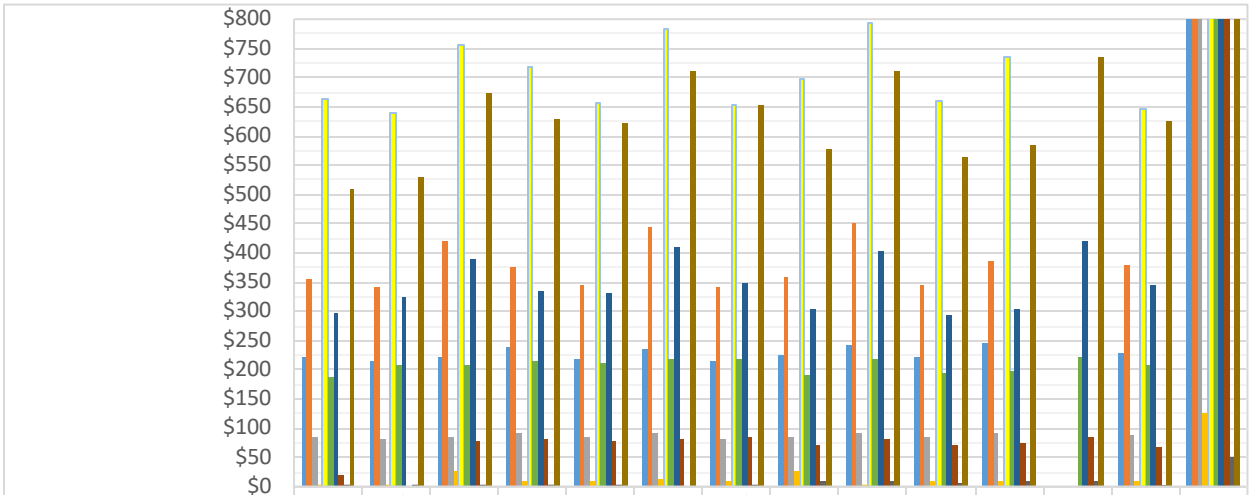
Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

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

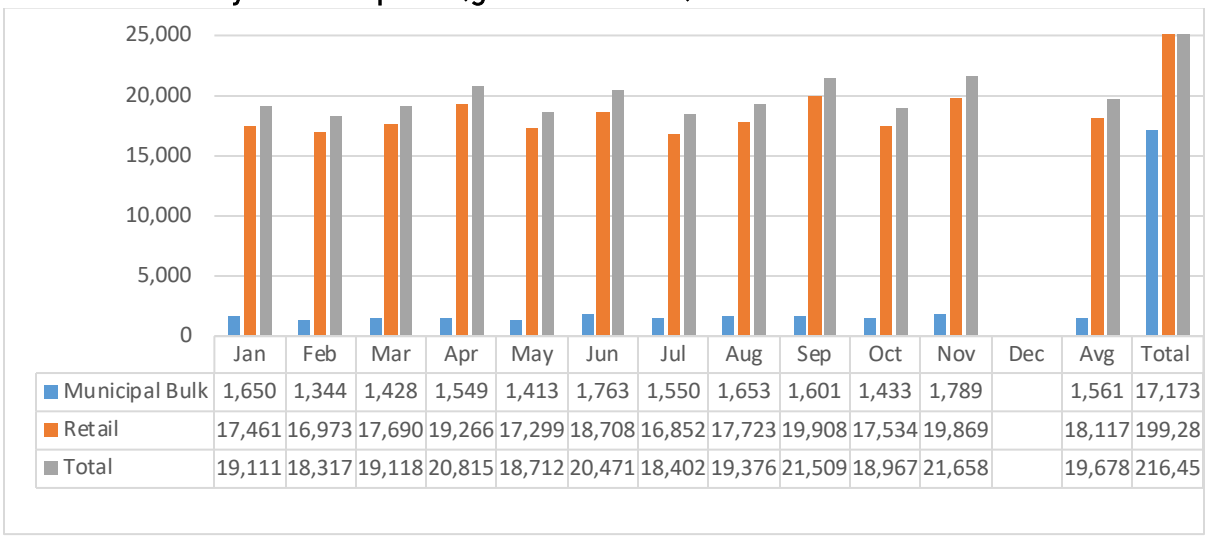
Dollars Billed - Water and Sewer (dollars X1000)



	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		227.5	2,502.
2022 Sewer Billed	354	342	420	377	345	444	343	359	452	346	387		379.0	4,169.
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		87.1	957.9
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		11.3	124.8
2021 Total Billed	663.33	641.1	756.5	717.2	657	781.8	651.8	696.4	791.9	660.6	736.5	0	646.2	7,754.
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.

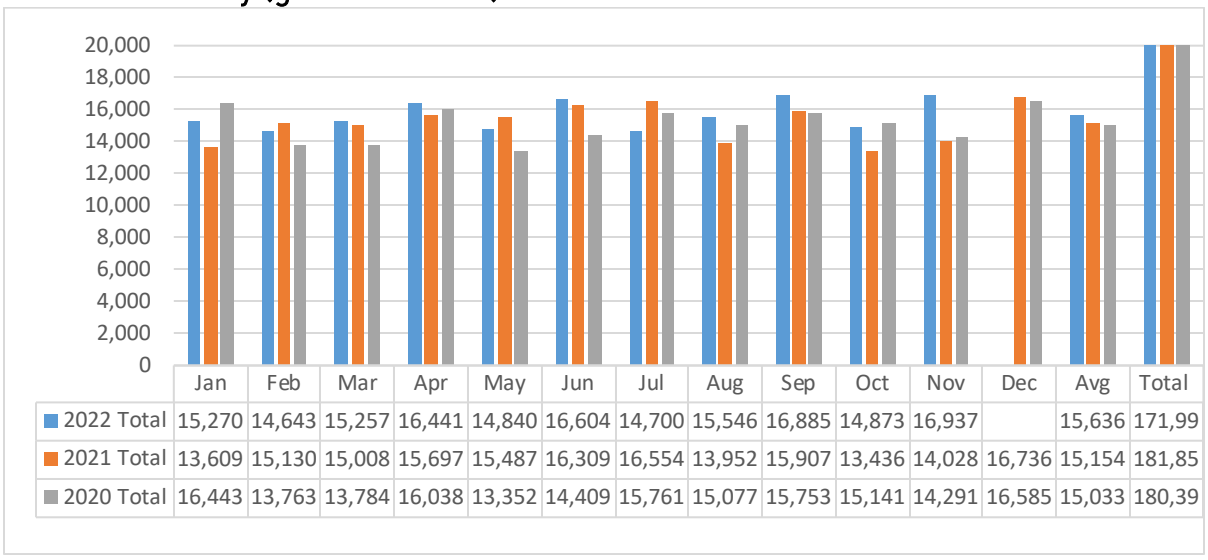
*Negative surcharge value was due to the prior surcharge collection period ending in February 2021.

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		1,561	17,173
Retail	17,461	16,973	17,690	19,266	17,299	18,708	16,852	17,723	19,908	17,534	19,869		18,117	199,28
Total	19,111	18,317	19,118	20,815	18,712	20,471	18,402	19,376	21,509	18,967	21,658		19,678	216,45

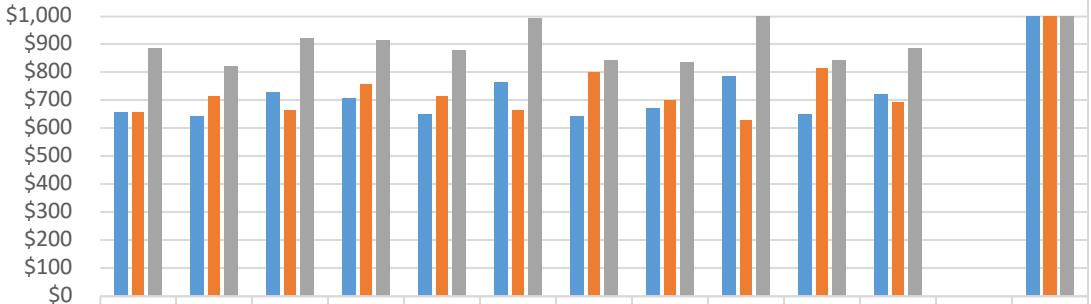
Sewer Sales – Monthly (gallons X 1000)



	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		15,636	171,99
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

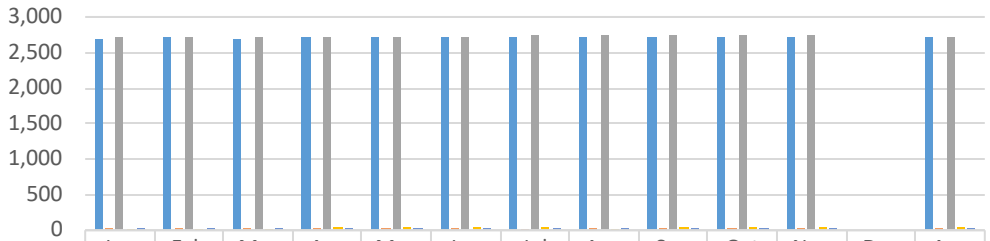
Collections (dollars X 1000)

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



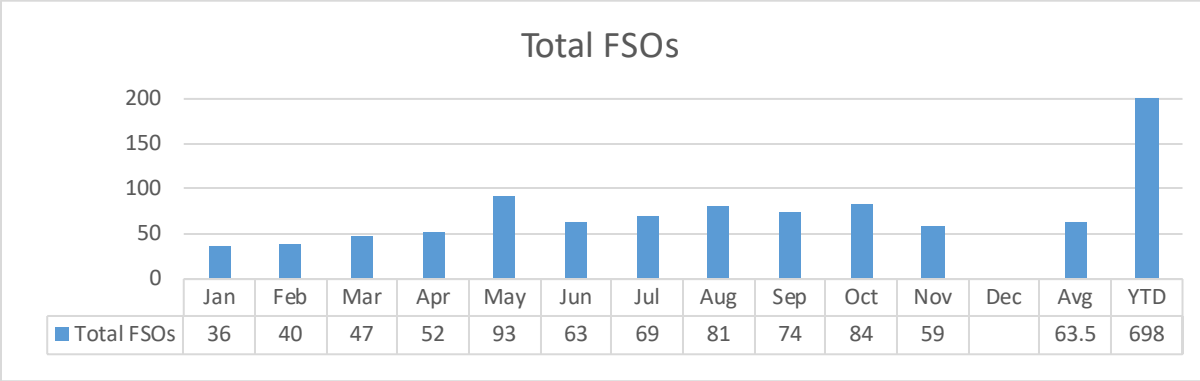
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Total Billed	661	641	728	706	649	769	642	670	790	652	725		7,633
Total Collected	660	719	665	762	715	668	805	701	629	819	697		7,840
AR	891	825	925	919	877	994	843	838	1,002	847	890		9,851

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		2,710
Net New Accounts	10	21	14	24	25	22	30	24	18	15	28		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		2,731
Inactive Meters	29	31	31	33	32	32	32	31	33	34	34		32
% Meter Re-reads	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%		1%

Field Service Requests



Service Disruptions

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

Service Disruptions Summary

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

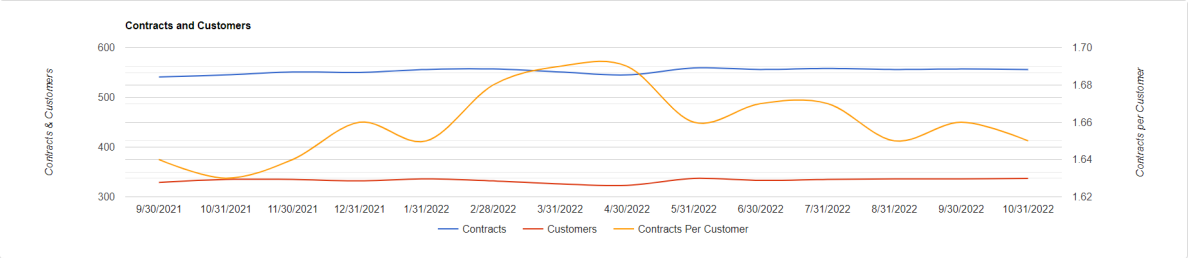
Sewer and Collection Issues

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		0	0	6	2	8
Odor	0	0	0	0	0	0	0	0	0	0	1		1	0	0	1	1
2022 TOTAL	0	0	0	0	0	0	0	4	2	1	2	0	0	0	6	3	9
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.

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		216,368,200	19,669,836
	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		199,283,000	18,116,636
	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		6,570,750	597,341
	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**	**624,145**	**6,724,451**	**585,260**
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		17,175,200	1,561,382
	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		565,892	51,445
	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	59,442	693,572	59,941

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) =	**585,260**
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.

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		1
Concessionaire Notifications	0	0	0	0	0	0	0	0	0	0	1		1
Incident Email Notifications	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
Environmental Incidents – Appletree Hotline notifications/chemical spills	0	0	0	0	0	0	0	0	0	0	0		0
Non-compliance – violations	0	0	0	0	0	0	0	0	0	0	0		0
Reporting non-compliance	0	0	0	0	0	0	0	0	0	0	0		0
Safety related incidents – OSHA lost time	0	0	0	0	0	0	0	0	0	0	0		0
Total days lost	0	0	0	0	0	0	0	0	0	0	0		0
Safety related incidents – Preventable	0	0	0	0	0	0	0	0	0	0	0		0
Safety related – Near Miss	0	0	0	0	0	0	0	0	0	0	1		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		280.5

On Target	Caution	Meets/Exceeds Target

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

December 30, 2022

Mr. Kenneth Klinepeter
Borough of Middletown
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Mr. Dan Sugarman
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Mr. John Joyner
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RE: Laboratory Supervisor Certification – November 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

December 30, 2022

Mr. Kenneth Klinepeter
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Mr. Don Correll
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RE: Environmental Laws Certification- November 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

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

Your eDMR Report Has Been Received For Permit No. PA0020664

2 messages

depgreenporthelpdesk@state.pa.us <depgreenporthelpdesk@state.pa.us> Fri, Dec 23, 2022 at 3:47 PM
To: kodi.webb@veolia.com, mitchell.swartz@suez-na.com, jesse.randles@suez.com, michael.barger@veolia.com, glank@penntwp.com

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

Facility Name: MIDDLETOWN STP
Permit Number: PA0020664
Report Frequency: Monthly
Report Type: DMR
Reporting Period: 11/01/2022-11/30/2022
Report Due Date: 12/28/2022

Submitted By: Kodi Webb
Submission Id: 365792
Submission Status: Received
Submission Type: Original
To view the details of this report, access the eDMR system through DEP's GreenPort and select the link for View/Revise Submitted.

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depgreenporthelpdesk@state.pa.us <depgreenporthelpdesk@state.pa.us> Fri, Dec 23, 2022 at 3:47 PM
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Facility Name: MIDDLETOWN STP
Permit Number: PA0020664
Report Frequency: Monthly
Report Type: DMR
Reporting Period: 11/01/2022-11/30/2022
Report Due Date: 12/28/2022

Submitted By: Kodi Webb
Submission Id: 365794
Submission Status: Received
[Quoted text hidden]

3800-FM-BCW0462 12/2016

pennsylvania
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	11	01	TO	2022	11	30

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2022**
DMR Effective To: **11/30/2022**
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	***	***	***	7.95	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.3	***	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	32	51	lbs/day	***	4.0	6.0	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	***	***	***	***	< 6.67	***	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	***	***	***	***	.74	***	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	***	***	***	***	< 5.93	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	5	***	lbs/day	***	.61	***	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	1.097	1.876	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.4	.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	< 1781.2	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	< 13.2	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	198.9	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	< 1582.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	161.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	< 5.0	38.0	No./100 ml	2/week	Grab
	Permit Requirement	***	***		***	2000 Geo Mean	10000 IMAX		2/week	Grab

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	< 18	< 24	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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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	11	01	TO	2022	11	30

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2022**
DMR Effective To: **11/30/2022**
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	< 1781.2	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	161.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Sampling Point Comments										

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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**	**11**	**01**	TO	**2022**	**11**	**30**

Reporting Frequency: **Monthly**
DMR Effective From: **11/01/2022**
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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	2376	3120	lbs/day	***	268	***	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	1691	2574	lbs/day	***	196	***	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
11-22 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2022-12-23T14:21:51-05:00	
11-22 Influent Supplemental.xls	Influent and Process Control Form	2022-12-23T14:43:46-05:00	
2023 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2022-12-23T14:44:40-05:00	
11-22 Biosolids pg1.xls	Sewage Sludge / Biosolids Production and Disposal Form	2022-12-23T15:46:08-05:00	
11-22 Biosolids 2.xls	Sewage Sludge / Biosolids Production and Disposal Form	2022-12-23T15:46:33-05:00	

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		
			(717)	**209-2736**	**2022**	**12**	**23**
kwebb2		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: **November** 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	1.068	341.0	3,037	234.0	2,084	3,691.0		30,000.0		
2	0.929					3,590.0		25,000.0		
3	0.883					3,800.0		28,000.0		
4	0.923					3,406.0		28,000.0		
5	0.870							25,000.0		
6	0.948							25,000.0		
7	0.917	202.0	1,545	228.0	1,744	3,559.0		28,000.0		
8	0.866	432.0	3,120	220.0	1,589	3,650.0		26,000.0		
9	0.910					3,375.0		22,000.0		
10	0.936					3,614.0		28,000.0		
11	1.876					3,586.0		28,000.0		
12	1.317							22,000.0		
13	1.107							22,000.0		
14	1.110	206.0	1,907	278.0	2,574	3,556.0		27,000.0		
15	1.739	205.0	2,973	50.0	725	2,580.0		25,000.0		
16	1.575					3,439.0		0.0		
17	1.275					3,826.0		25,000.0		
18	1.116					3,714.0		25,000.0		
19	1.073							25,000.0		
20	1.080							25,000.0		
21	1.028	333.0	2,855	212.0	1,818	3,514.0		25,000.0		
22	1.014	184.0	1,556	220.0	1,860	3,731.0		23,000.0		
23	1.001					3,667.0		20,005.0		
24	0.904							27,000.0		
25	0.890							25,000.0		
26	0.895							25,000.0		
27	1.199							25,000.0		
28	1.099	234.0	2,145	170.0	1,558	3,521.0		22,500.0		
29	0.987	273.0	2,247	154.0	1,268	3,642.0		26,000.0		
30	1.386					3,747.0		20,000.0		
31										
Avg	**1.097**	**268**	**2,376**	**196**	**1,691**	**3,560**		**24,250**		
Max	**1.876**	**432**	**3,120**	**278**	**2,574**	**3,826**		**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: **12/19/2022**

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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: **11** (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		
1	Sun	10/30/22																																
	Mon	10/31/22																																
	Tue	11/1/22	1.068		7.6		8.31		0.16	<	2.0		4.0		38.0	<	0.02		0.49															
	Wed	11/2/22	0.929		7.6		8.31		0.29						11.0																			
	Thu	11/3/22	0.883		7.5		7.95		0.24																									
	Fri	11/4/22	0.923		7.6		8.32		0.2																									
	Sat	11/5/22	0.870		7.7		8.13		0.21																									
2	Sun	11/6/22	0.948		7.6		8.18		0.2																									
	Mon	11/7/22	0.917		7.7		7.99		0.14	<	2.0		4.0			<	0.02		0.47															
	Tue	11/8/22	0.866		7.7		8.31		0.16	<	2.0		3.0		3.0	<	0.02		0.48															
	Wed	11/9/22	0.910		7.7		8.39		0.2					<	2.0																			
	Thu	11/10/22	0.936		7.5		8.43		0.27																									
	Fri	11/11/22	1.876		7.6		8.07		0.4																									
	Sat	11/12/22	1.317		7.6		8.18		0.61																									
3	Sun	11/13/22	1.107		7.6		8.44		0.55																									
	Mon	11/14/22	1.110		7.6		8.54		0.41	<	2.0		1.0			<	0.02		0.39															
	Tue	11/15/22	1.739		7.5		8.58		0.36	<	2.0		2.0		23.0		0.08		0.3															
	Wed	11/16/22	1.575		7.5		8.74		0.34					<	2.0																			
	Thu	11/17/22	1.275		7.5		8.69		0.47																									
	Fri	11/18/22	1.116		7.5		8.81		0.47																									
	Sat	11/19/22	1.073		7.4		8.38		0.62																									
4	Sun	11/20/22	1.080		7.5		8.83		0.65																									
	Mon	11/21/22	1.028		7.5		8.85		0.37	<	2.0		6.0			<	0.02		1.06															
	Tue	11/22/22	1.014		7.5		8.66		0.42	<	2.0		6.0	<	2.0		0.19		1.0															
	Wed	11/23/22	1.001		7.3		8.53		0.56					<	2.0																			
	Thu	11/24/22	0.904		7.5		8.87		0.12																									
	Fri	11/25/22	0.890		7.5		8.73		0.35																									
	Sat	11/26/22	0.895		7.5		8.57		0.47																									
5	Sun	11/27/22	1.199		7.6		8.58		0.46																									
	Mon	11/28/22	1.099		7.6		8.51		0.13	<	2.0		4.0			<	0.02		0.65															
	Tue	11/29/22	0.987		7.6		8.78		0.34	<	2.0		3.0	<	2.0	<	0.02		0.67															
	Wed	11/30/22	1.386		7.5		8.55		0.35						7.0																			
	Thu	12/1/22																																
	Fri	12/2/22																																
	Sat	12/3/22																																
Statistics for DMR																																		
Daily Minimum (Conc.):					**7.3**		**7.95**		**0.12**	<	**2**		**1**	<	**2**	<	**0.02**		**0.3**															
Daily Maximum (Conc):					**7.7**		**8.87**		**0.65**	<	**2**		**6**		**38**		**0.19**		**1.06**															
Max Avg Weekly (Conc.):							**8.72**		**0.5**	<	**2**		**6**			<	**0.11**		**1**															
Avg Monthly (Conc.):							**8.47**		**0.4**	<	**2**		**4**			<	**0.05**		**0.61**															
Geometric Mean (Conc.):														<	**5**																			
Max Avg Weekly (Load):			**1.285**				**92**		**5**	<	**24**		**51**			<	**0.9**		**9**															
Avg Monthly (Load):			**1.097**				**78**		**3**	<	**18**		**32**			<	**0.4**		**5**															
Total Monthly (Load):			**32.921**				**2327**		**99**	<	**546**		**966**			<	**13**		**161**															
Daily Minimum (Load):			**0.866**				**59**		**0.9**	<	**14**		**9**			<	**0.1**		**3**															
Daily Maximum (Load):			**1.876**				**126**		**7**	<	**29**		**51**				**2**		**9**															

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

Prepared By: Kodi Webb License No.: **23501**
Title: Project Manager Date: **12/19/2022**

3800-FM-BCW0438 3/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

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

Month: **November** Year: **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
11/7/22				8.06	30.78	**2.48**			
11/8/22				8.20	30.78	**2.52**			
11/8/22				8.05	30.78	**2.48**			
11/8/22				6.95	30.78	**2.14**			
11/8/22				7.59	30.78	**2.34**			
11/10/22				9.99	29.80	**2.98**			
11/15/22				7.04	30.78	**2.17**			
11/15/22				8.55	30.78	**2.63**			
11/15/22				6.91	30.78	**2.13**			
11/15/22				5.98	30.78	**1.84**			
11/15/22				6.02	30.78	**1.85**			
11/15/22				4.99	30.78	**1.54**			
11/17/22				7.04	29.90	**2.10**			
11/17/22				6.69	30.78	**2.06**			
11/22/22				5.62	30.78	**1.73**			
	TOTAL:				**TOTAL:**	**32.984**		**TOTAL:**	

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

Site Name	Marvin Weaver Cedar Rd Farm			
Municipality	Conewago Township			
County	Dauphin County			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	32.98			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

* See Instructions for explanation.

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

Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **December 19, 2022**

3800-FM-BCW0438 3/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

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

Month: **November** Year: **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
11/22/22				5.50	30.78	**1.69**			
11/22/22				9.02	30.78	**2.78**			
11/29/22				8.55	30.78	**2.63**			
11/29/22				8.51	30.78	**2.62**			
11/29/22				6.04	30.78	**1.86**			
11/29/22				5.57	30.78	**1.71**			
	TOTAL:				**TOTAL:**	**13.294**		**TOTAL:**	

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

Site Name	**Marvin Weaver Cedar Rd Farm**			
Municipality	Conewago Township			
County	Dauphin County			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	13.29			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

* See Instructions for explanation.

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

Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **December 19, 2022**

pennsylvania
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																			
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Avg	**1.089**		**0.52**		**4.8**	**<**	**0.04**	**<**	**0.4**		**0.84**		**8**	**<**	**4.24**	**<**	**39.3**	**<**	**5.08**	**<**	**47.3**
Annual Total Mass Loads (lbs):					**1765**			**<**	**152**				**2907**			**<**	**14362**			**<**	**17269**

P Credits Generated: **442** **N Credits Generated:** **2480**

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: **11/23/2022**

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					
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					
January					
February					
March					
April					
May					
June					
July					
August					
September					

VEOLIA Middletown WWTP

November, 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	1.068	341	3,038	<2.0	<17.82	99.4	234	2,085	4.0	35.64	98.3	0.49	4.37	38	<0.02	<0.18	<2.5	<22.01	0.9	8.20	<3.39	<30.2
02	0.929													11								
03	0.883																					
04	0.923																					
05	0.870																					
06	0.948																					
07	0.917	202	1,545	<2.0	<15.29	99.0	228	1,743	4.0	30.59	98.2	0.47	3.59		<0.02	<0.15	<2.6	<19.73	0.7	5.28	<3.27	<25.0
08	0.866	432	3,122	<2.0	<14.45	99.5	220	1,590	3.0	21.68	98.6	0.48	3.47	3	<0.02	<0.14	<2.5	<18.28	0.7	5.13	<3.24	<23.4
09	0.910													<2								
10	0.936																					
11	1.876																					
12	1.317																					
13	1.107																					
14	1.110	206	1,907	<2.0	<18.51	99.0	278	2,573	1.0	9.26	99.6	0.39	3.61		<0.02	<0.19	<2.9	<26.94	0.6	5.46	<3.50	<32.4
15	1.739	205	2,972	<2.0	<29.00	99.0	50	725	2.0	29.00	96.0	0.30	4.35	23	0.08	1.16	<3.3	<47.27	0.5	7.54	<3.78	<54.8
16	1.575													<2								
17	1.275																					
18	1.116																					
19	1.073																					
20	1.080																					
21	1.028	333	2,854	<2.0	<17.14	99.4	212	1,817	6.0	51.42	97.2	1.06	9.08		<0.02	<0.17	<10.0	<85.61	0.6	4.97	<10.57	<90.6
22	1.014	184	1,556	<2.0	<16.91	98.9	220	1,860	6.0	50.73	97.3	1.00	8.46	<2	0.19	1.61	<10.3	<87.09	1.1	9.55	<11.43	<96.6
23	1.001													<2								
24	0.904																					
25	0.890																					
26	0.895																					
27	1.199																					
28	1.099	234	2,145	<2.0	<18.33	99.1	170	1,558	4.0	36.66	97.6	0.65	5.96		<0.02	<0.18	<9.3	<85.06	1.0	9.26	<10.29	<94.3
29	0.987	273	2,247	<2.0	<16.46	99.3	154	1,268	3.0	24.70	98.1	0.67	5.52	<2	<0.02	<0.16	<10.0	<82.65	0.5	4.28	<10.56	<86.9
30	1.386													7								

EVISED 9/18/15 M

VEOLIA Middletown WWTP

Daily Effluent Grab Monitoring / Weather

November															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	0906	0906	7.60	7.70	-1.31	8.31	8.31	0.00	0.16	0.15	6.45	19.2	539	
02	MB	0849	0849	7.60	7.70	-1.31	8.31	8.28	0.36	0.29	0.30	-3.39	19.3	452	
03	MB	0831	0831	7.50	7.60	-1.32	7.95	8.00	-0.63	0.24	0.23	4.26	19.2	724	
04	MB	0949	0949	7.60	7.60	0.00	8.32	8.29	0.36	0.20	0.19	5.13	19.6	520	
05	MB	1046	1046	7.70	7.70	0.00	8.13	8.12	0.12	0.21	0.21	0.00	20.7		
06	MB	0718	0718	7.60	7.70	-1.31	8.18	8.19	-0.12	0.20	0.19	5.13	20.4		
07	MB	0918	0918	7.70	7.80	-1.29	7.99	8.01	-0.25	0.14	0.14	0.00	21.3	638	
08	MB	0846	0846	7.70	7.70	0.00	8.31	8.32	-0.12	0.16	0.16	0.00	19.3	587	
09	MB	0937	0937	7.70	7.70	0.00	8.39	8.40	-0.12	0.20	0.20	0.00	18.4	483	
10	MB	0926	0926	7.50	7.60	-1.32	8.43	8.43	0.00	0.27	0.26	3.77	18.5	774	
11	MB	0917	0917	7.60	7.60	0.00	8.07	8.07	0.00	0.40	0.39	2.53	19.2	507	STORM MODE @1250
12	MB	0906	0906	7.60	7.60	0.00	8.18	8.19	-0.12	0.61	0.58	5.04	19.6		STILL IN STORM MODE
13	MB	0932	0932	7.60	7.60	0.00	8.44	8.43	0.12	0.55	0.50	9.52	18.2		
14	MB	0927	0927	7.60	7.70	-1.31	8.54	8.56	-0.23	0.41	0.40	2.47	17.9	588	
15	MB	0849	0849	7.50	7.50	0.00	8.58	8.58	0.00	0.36	0.36	0.00	17.2	399	DITCH #2 MIXER NOT RUNNING
16	MB	0943	0943	7.50	7.60	-1.32	8.74	8.78	-0.46	0.34	0.33	2.99	17.2	503	STORM MODE
17	MB	1112	1112	7.50	7.50	0.00	8.69	8.68	0.12	0.47	0.46	2.15	17.1	282	
18	MB	1111	1111	7.50	7.60	-1.32	8.81	8.84	-0.34	0.47	0.49	-4.17	17.0	372	
19	MB	0830	0830	7.40	7.40	0.00	8.38	8.38	0.00	0.62	0.64	-3.17	15.8		
20	MB	0637	0637	7.50	7.50	0.00	8.83	8.81	0.23	0.65	0.63	3.13	15.9		
21	MB	1039	1039	7.50	7.60	-1.32	8.85	8.86	-0.11	0.37	0.36	2.74	14.9	530	
22	MB	0950	0950	7.50	7.50	0.00	8.66	8.72	-0.69	0.42	0.41	2.41	15.8	510	
23	MB	0835	0835	7.30	7.40	-1.36	8.53	8.53	0.00	0.56	0.55	1.80	15.6	316	
24	MB	0938	0938	7.50	7.50	0.00	8.87	8.86	0.11	0.12	0.12	0.00	15.4		
25	MB	1023	1023	7.50	7.50	0.00	8.73	8.73	0.00	0.35	0.35	0.00	16.1		
26	MB	1023	1023	7.50	7.50	0.00	8.57	8.57	0.00	0.47	0.46	2.15	16.1		
27	MB	0943	0943	7.60	7.60	0.00	8.58	8.47	1.29	0.46	0.45	2.20	16.9		
28	MB	1022	1022	7.60	7.60	0.00	8.51	8.56	-0.59	0.13	0.11	16.67	16.5	615	
29	MB	0915	0915	7.60	7.60	0.00	8.78	8.78	0.00	0.34	0.35	-2.90	16.5	704	
30	MB	0957	0957	7.50	7.50	0.00	8.55	8.56	-0.12	0.35	0.34	2.90	16.2	556	

VEOLIA Middletown WWTP

Process Control

	NOVEMBER													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	3,691	44,945	2,358	63.9	6,486	30,000	1,623	17.69	4.58	0.08	410	260	70	12	12	
02	3,590	43,717	2,323	64.7	7,675	25,000	1,600	17.68	9.81	0.06	420	260	72	10	12	
03	3,800	46,275	2,500	65.8	8,030	28,000	1,875	16.24	5.71	0.08	430	260	68	12	12	
04	3,406	41,474	2,204	64.7	9,117	28,000	2,129	17.65	6.48	0.06	390	240	70	15	12	
05						25,000								12	12	
06						25,000								13	10	
07	3,559	43,337	2,265	63.6	7,782	28,000	1,817	15.18	8.61	0.08	400	250	70	13	13	
08	3,650	44,439	2,433	66.7	8,192	26,000	1,776	16.68	4.59	0.07	420	260	71	12	12	
09	3,375	41,099	2,025	60.0	8,340	22,000	1,530	16.12	9.10	0.06	440	260	77	14	12	
10	3,614	44,004	2,168	60.0	9,052	28,000	2,114	12.49	8.61	0.10	420	250	69	12	12	
11	3,586	43,668	2,314	64.5	7,482	28,000	1,747	16.13	5.71	0.06	410	250	70	13	12	
12						22,000								0	6	
13						22,000								14	16	
14	3,556	43,297	2,438	68.6	8,867	27,000	1,997	14.87	4.65	0.08	460	270	76	14	10	
15	2,580	31,412	1,651	64.0	6,578	25,000	1,372	14.66	5.96	0.08	300	190	74	13	12	
16	3,439	41,869	2,397	69.7	1,159	0	0		5.46	0.11	460	370	108	1	12	
17	3,826	46,584	2,649	69.2	8,558	25,000	1,784	18.07	4.01	0.05	530	300	78	12	12	
18	3,714	45,226	2,444	65.8	9,149	25,000	1,908	15.60	5.40	0.06	530	300	81	18	14	
19						25,000								18	13	
20						25,000								18	18	
21	3,514	42,793	2,375	67.6	9,140	25,000	1,906	15.17	3.87	0.07	440	280	80	14	12	
22	3,731	45,434	2,553	68.4	9,056	23,000	1,737	17.90	4.91	0.06	510	290	78	12	12	
23	3,667	44,646	2,477	67.5	6,908	20,005	1,153	18.06	3.44	0.04	510	280	76	14	19	
24						27,000								15	10	
25						25,000								14	13	
26						25,000								18	13	
27						25,000								18	12	
28	3,521	42,870	2,382	67.7	8,582	22,500	1,610	18.01	7.15	0.10	590	320	91	15	15	
29	3,642	44,343	2,362	64.9	5,917	26,000	1,283	22.42	4.04	0.10	540	310	85	8	19	
30	3,747	45,622	2,465	65.8	8,904	20,000	1,485	20.21	7.52	0.07	530	320	85	14	18	
AVG	3,560	43,353	2,339	65.7	7,749	23,979	1,622	16.9	5.98	0.07	457	276	78	13	13	

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

November							2022	
DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01	6.50	89,524	0.79	5,898	11,781	4.61	4,529	6
02								
03								
04	3.25	46,019	0.79	3,032	6,732	5.40	3,032	3
05								
06								
07	6.25	91,593	0.78	5,958	11,781	4.79	4,706	6
08								
09								
10	6.25	87,781	0.72	5,271	11,781	5.61	5,512	6
11	3.00	43,136	0.72	2,590	3,366	5.39	1,513	3
12								
13								
14	4.00	59,037	0.68	3,348	6,732	5.55	3,116	4
15								
16								
17	5.25	75,838	0.69	4,364	10,098	7.32	6,165	6
18								
19								
20								
21								
22	5.50	63,045	0.73	3,838	6,732	4.82	2,706	6
23	3.50	37,308	0.73	2,271	5,049	6.63	2,792	3
24								
25								
26								
27								
28	7.00	78,970	0.76	5,005	10,098	5.78	4,868	6
29								
30								
TOTAL	51	672,251	7.39	41,575	84,150	55.90	38,939	49
							REVISED 7/17/14	

Veolia Middletown WWTP

November 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	
11/01/22	MB	122.8	89,524	46,126	33,678	73.0	9.0	9.7	9.7	11,781	4,532	3,309	127.0	13:45	49.1	11/3/22 14:49				
11/02/22																				
11/03/22																				
11/04/22	MB	126.7	46,019	53,966	40,610	75.3	8.8	9.2	9.2	6,732	3,030	2,280	128.3	13:45	38.9	11/6/22 4:38	11/4/22	7:37	128.7	16,158
11/05/22																				
11/06/22							9.2	8.3	8.3								11/6/22	8:14	128.3	13,488
11/07/22	MB	125.4	91,593	47,941	35,367	73.8	8.3	9.0	9.0	11,781	4,710	3,475	127.7	13:30	43.3	11/9/22 8:47				
11/08/22																				
11/09/22							9.0	8.3	8.3								11/9/22	16:18	128.3	9,525
11/10/22	MB	123.8	87,781	56,098	44,336	79.0	8.3	9.0	9.0	11,781	5,512	4,356	127.4	13:30	45.7	11/12/22 11:11				
11/11/22	MB	125.1	43,136	53,894	39,987	74.2	9.0	9.2	9.2	3,366	1,513	1,123	125.5	10:15	64.2	11/14/22 2:27				
11/12/22																				
11/13/22																				
11/14/22																	11/14/22	6:53	127.4	14,602
11/15/22																				
11/16/22																				
11/17/22	CK	121.6	75,838	73,220	60,932	83.2	8.3	8.9	8.9	10,098	6,166	5,132	125.5	13:45	64.2	11/20/22 5:57	11/22/22	6:40	123.5	9,222
11/18/22																				
11/19/22																				
11/20/22																				
11/21/22							8.9	8.4	8.4											
11/22/22	MB	121.2	63,045	48,220	35,838	74.3	8.4	8.8	8.8	6,732	2,707	2,012	125.5	14:30	64.2	11/25/22 6:42	11/27/22	7:30	126.7	16,371
11/23/22	MB	122.2	37,308	66,300	52,365	79.0	8.8	9.1	9.1	5,049	2,792	2,205	125.5	13:30	64.2	11/26/22 5:42	11/27/22	7:30	126.7	16,371
11/24/22																				
11/25/22																				
11/26/22																				
11/27/22							9.1	8.2	8.2											
11/28/22	MB	123.6	78,970	66,300	52,365	79.0	8.2	8.8	8.8	10,098	5,584	4,410	128.4	14:30	38.2	11/30/22 4:41	12/5/22	7:30	132.4	33,603
11/29/22																				
11/30/22																				

Veolia Middletown WWTP

November 2022

ATAD transfer to SNDR SRT							Centrifuge Data						
Date	Operator	ATAD				SRT	Operator	Centifuge Feed Gallons	SNDR				
		Total Solids	Transfer Gallons	ATAD Tank	Waste ATAD to SNDR				TS	VS	VS	Discharge	
												TS	VS
		mg/L	Gallons	Pounds	Pounds	Days			mg/L	mg/L	%	Lbs.	Lbs.
11/01/22													
11/02/22							CK	23,714	35,200	19,838	56.4	6962	3923
11/03/22													
11/04/22	MB	35,762	16,158	44,173	4,819	9.17							
11/05/22													
11/06/22	MB	36,291	13,488	46,864	4,082	11.48							
11/07/22													
11/08/22													
11/09/22	MB	35,462	9,525	44,798	2,817	15.90	CK	27,578	34,907	19,703	56.4	8029	4532
11/10/22													
11/11/22													
11/12/22													
11/13/22													
11/14/22													
11/15/22													
11/16/22							CK	28,855	35,557	20,537	57.8	8557	4942
11/17/22	CK	35,377	5,978	41,214	1,764	23.37							
11/18/22							MB	20,572	34,412	19,757	57.4	5904	3390
11/19/22													
11/20/22													
11/21/22													
11/22/22	MB	35,063	9,222	41,341	2,697	15.33							
11/23/22													
11/24/22													
11/25/22													
11/26/22													
11/27/22	MB	35,008	16,371	44,716	4,780	9.36							
11/28/22													
11/29/22													
11/30/22							MB	21,537	34,361	19,425	56.5	6172	3489

VEOLIA Middletown WWTP

Centrifuge Monthly Report

November 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	5.00	23,714	3.52	6,962	3.48	29.5	254	73	18	15	5.9		
03													
04													
05													
06													
07													
08													
09	6.50	27,578	3.49	8,027	4.01	29.8	287	72	19	19	5.6		
10													
11													
12													
13													
14													
15													
16	6.50	28,855	3.56	8,567	4.28	29.9	267	62	19	11	8.8		
17													
18	6.00	20,572	3.44	5,902	2.95	33.1	360	122	16	11	5.8		
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30	7.00	21,537	3.43	6,161	3.08	35.9	1,239	402	18	22	5.9		

REVISED 7/17/14

PA MIDDLETOWN WWTP

November, 2022 BIOSOLIDS INVENTORY

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
11/01/22					
11/02/22	3.48				45.07
11/03/22					
11/04/22					
11/05/22					
11/06/22					
11/07/22		2.48	Amerigreen	Agriculture	42.59
11/08/22		9.48	Amerigreen	Agriculture	33.11
11/09/22	4.01				37.12
11/10/22		2.98	Amerigreen	Agriculture	34.14
11/11/22					
11/12/22					
11/13/22					
11/14/22					
11/15/22		12.16	Amerigreen	Agriculture	21.98
11/16/22	4.28				
11/17/22		12.26	Amerigreen	Agriculture	
11/18/22	2.95				
11/19/22					
11/20/22					
11/21/22					
11/22/22		6.20	Amerigreen	Agriculture	15.78
11/23/22					
11/24/22					
11/25/22					
11/26/22					
11/27/22					
11/28/22					
11/29/22		11.30	Amerigreen	Agriculture	4.48
11/30/22	3.08	0.00			7.56
Total Tons	17.80	56.86		Total Tons	234.27
Metric Tons	16.15	51.57		Metric Tons	212.48

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	56.86	16.15	51.58
Dec, 2022				
Total	141.75	136.12	128.59	123.49
Average	12.89	19.45	11.69	17.64
Maximum	17.80	56.86	16.15	51.58
Minimum	7.25	5.76	6.58	5.23

PA MIDDLETOWN WWTP

BIOSOLIDS VOLATILE REDUCTION

MONTH November YEAR 2022

DAY	THICKENER DISCHARGE			SNDR			%
	TS	TVS	VS	TS	TVS	VS	VOL.
	mg/L		%	mg/L		%	REDUCT.
01	47,000	34,686	74	31,900	17,800	56	48.7
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14	49,000	36,309	74	31,600	16,600	53	54.3
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
AVG	48000.00	35497.50	73.95	31750.00	17200.00	54.17	

% SOLIDS REDUCTION	33.85	51.55	%

REVISED 7/17/14

Veolia Middletown WWTP

Biosolids Volatile Reduction
M.J. Reider Results
2022

Date	Thickener Discharge			SNDR			Volatile Reduction
	TS	TVS	VS	TS	TVS	VS	
	mg/L		%	mg/L		%	%
01/03/22	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
AVG	51,100	37,793	74.0	27,220	14,980	55.0	
Avg. % TS Reduction		46.7	Avg. Mass Balance % VS Reduction				60.4

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						
Total	**412.801**					
Average	37.527	1.239		2.374		0.927
Maximum	60.508	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									
Total			**824,264**	**9,728**	**814,537**			**1,218**	
Average	251	3	74,933	884	74,049	98.7	0.37	111	
Maximum	336	4	87,445	1,737	86,792	99.3	0.67	175	
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						
Total			**794,676**	**16,645**	**778,031**	
Average	243.8	4.8	72,243	1,513	70,730	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									
Total		**205**	**9**	**2,864**		**8,193**		**11,070**	
Average	0.06	19	1	260	2.46	745	3.30	1,006	
Maximum	0.13	55	1	421	5.93	1,628	6.67	1,831	
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.: 2241946
Report: 11/16/22
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: 2241946-01 **Collected By:** Client **Sampled:** 11/02/22 08:33 **Received:** 11/02/22 13:49
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	341	mg/l	2.0	SM 5210 B	11/02/22 17:26		RXN
Solids, Total Suspended	234	mg/l	1	SM 2540 D	11/07/22		ALD

Lab ID: 2241946-02 **Collected By:** Client **Sampled:** 11/02/22 08:49 **Received:** 11/02/22 13:49
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	11/15/22		EAK
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/02/22 17:43		RXN
Nitrate as N	2.37	mg/l	1.00	EPA 300.0 Rev 2.1	11/03/22 3:48		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/03/22 3:48		JAF
Nitrate+Nitrite as N	<2.47	mg/l	1.10	CALCULATED	11/03/22 3:48		JAF
Nitrogen, Total	<3.39	mg/l	1.60	CALCULATED	11/07/22 23:17		JMW
Nitrogen, Total Kjeldahl (TKN)	0.92	mg/l	0.50	EPA 351.2 Rev 2.0	11/07/22		JMW
Phosphorus as P, Total	0.49	mg/l	0.01	SM 4500-P F	11/15/22		EAK
Solids, Total Suspended	4	mg/l	1	SM 2540 D	11/07/22		ALD

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

M.J. Reider Associates, Inc.

Lab ID: 2241946-03 **Collected By:** Client **Sampled:** 11/02/22 08:41 **Received:** 11/02/22 13:49
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	11/2/22 15:34	11/3/22 15:30		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2241946-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K0843	11/15/2022	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.: 2242956
Report: 11/18/22
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: 2242956-01 **Collected By:** Client **Sampled:** 11/08/22 07:57 **Received:** 11/08/22 13:52
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	202	mg/l	2.0	SM 5210 B	11/09/22 10:30	C-37, C-54	ASD
Solids, Total Suspended	228	mg/l	1	SM 2540 D	11/10/22		ALD

Lab ID: 2242956-02 **Collected By:** Client **Sampled:** 11/08/22 08:46 **Received:** 11/08/22 13:52
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	11/16/22	C-52	EAK
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/09/22 11:40	C-37a	ASD
Nitrate as N	2.48	mg/l	1.00	EPA 300.0 Rev 2.1	11/08/22 16:56		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/08/22 16:56		JAF
Nitrate+Nitrite as N	<2.58	mg/l	1.10	CALCULATED	11/08/22 16:56		JAF
Nitrogen, Total	<3.27	mg/l	1.60	CALCULATED	11/14/22 23:57		JMW
Nitrogen, Total Kjeldahl (TKN)	0.69	mg/l	0.50	EPA 351.2 Rev 2.0	11/14/22		JMW
Phosphorus as P, Total	0.47	mg/l	0.01	SM 4500-P F	11/16/22		EAK
Solids, Total Suspended	4	mg/l	1	SM 2540 D	11/10/22		ALD

Lab ID: 2242956-03 **Collected By:** Client **Sampled:** 11/08/22 09:48 **Received:** 11/08/22 13:52
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	11/8/22 14:50	11/9/22 14:12		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2242956-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K0885	11/15/2022	SNF

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.20mg/L at 0.26mg/L.

C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.20mg/L at 0.5mg/L.

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

C-54 The difference between the highest and lowest results were greater than 30% at 39.2%.

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Certificate of Analysis

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

Laboratory No.: 2242756
Report: 11/18/22
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: 2242756-01 **Collected By:** Client **Sampled:** 11/09/22 08:33 **Received:** 11/09/22 13:35
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	432	mg/l	2.0	SM 5210 B	11/09/22 18:10	C-54	RXN
Solids, Total Suspended	220	mg/l	1	SM 2540 D	11/11/22		ALD

Lab ID: 2242756-02 **Collected By:** Client **Sampled:** 11/09/22 09:37 **Received:** 11/09/22 13:35
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	11/17/22		EAK
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/09/22 18:10	C-37a	MLW
Nitrate as N	2.43	mg/l	1.00	EPA 300.0 Rev 2.1	11/09/22 19:05		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/09/22 19:05		JAF
Nitrate+Nitrite as N	<2.53	mg/l	1.10	CALCULATED	11/09/22 19:05		JAF
Nitrogen, Total	<3.24	mg/l	1.60	CALCULATED	11/15/22 6:24		JMW
Nitrogen, Total Kjeldahl (TKN)	0.71	mg/l	0.50	EPA 351.2 Rev 2.0	11/15/22		JMW
Phosphorus as P, Total	0.48	mg/l	0.01	SM 4500-P F	11/17/22		EAK
Solids, Total Suspended	3	mg/l	1	SM 2540 D	11/11/22		ALD

Lab ID: 2242756-03 **Collected By:** Client **Sampled:** 11/09/22 09:37 **Received:** 11/09/22 13:35
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/9/22 15:11	11/10/22 15:12		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2242756-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K0889	11/15/2022	SNF

Notes and Definitions

C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.20mg/L at 0.3mg/L.

C-54 The difference between the highest and lowest results were greater than 30% at 52.8%.

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Certificate of Analysis

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

Laboratory No.: 2243723
Report: 11/23/22
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: 2243723-01 **Collected By:** Client **Sampled:** 11/15/22 08:04 **Received:** 11/15/22 14:10
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	206	mg/l	2.0	SM 5210 B	11/16/22 9:55		RXN
Solids, Total Suspended	278	mg/l	1	SM 2540 D	11/16/22		ALD

Lab ID: 2243723-02 **Collected By:** Client **Sampled:** 11/15/22 08:49 **Received:** 11/15/22 14:10
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	11/21/22		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/16/22 11:29	C-40	RXN
Nitrate as N	2.81	mg/l	1.00	EPA 300.0 Rev 2.1	11/15/22 21:01		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/15/22 21:01		JAF
Nitrate+Nitrite as N	<2.91	mg/l	1.10	CALCULATED	11/15/22 21:01		JAF
Nitrogen, Total	<3.50	mg/l	1.60	CALCULATED	11/18/22 4:03		JMW
Nitrogen, Total Kjeldahl (TKN)	0.59	mg/l	0.50	EPA 351.2 Rev 2.0	11/18/22		JMW
Phosphorus as P, Total	0.39	mg/l	0.01	SM 4500-P F	11/21/22		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	11/16/22		ALD

Lab ID: 2243723-03 **Collected By:** Client **Sampled:** 11/15/22 12:36 **Received:** 11/15/22 14:10
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	23	/100ml	2	SM 9222 D	11/15/22 16:23	11/16/22 14:29		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2243723-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1162	11/19/2022	SNF

Notes and Definitions

C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 58.9mg/L mg/L.

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Certificate of Analysis

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

Laboratory No.: 2243952
Report: 11/29/22
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: 2243952-01 **Collected By:** Client **Sampled:** 11/16/22 08:25 **Received:** 11/16/22 14:20
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	205	mg/l	2.0	SM 5210 B	11/16/22 18:22	C-54d	RXN
Solids, Total Suspended	50	mg/l	1	SM 2540 D	11/17/22		ALD

Lab ID: 2243952-02 **Collected By:** Client **Sampled:** 11/16/22 09:43 **Received:** 11/16/22 14:20
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.08	mg/l	0.02	EPA 350.1 Rev 2.0	11/21/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/16/22 19:34		RXN
Nitrate as N	3.16	mg/l	1.00	EPA 300.0 Rev 2.1	11/16/22 21:38		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/16/22 21:38		JAF
Nitrate+Nitrite as N	<3.26	mg/l	1.10	CALCULATED	11/16/22 21:38		JAF
Nitrogen, Total	<3.78	mg/l	1.60	CALCULATED	11/26/22 16:40		JMW
Nitrogen, Total Kjeldahl (TKN)	0.52	mg/l	0.50	EPA 351.2 Rev 2.0	11/26/22		JMW
Phosphorus as P, Total	0.30	mg/l	0.01	SM 4500-P F	11/21/22		JMW
Solids, Total Suspended	2	mg/l	1	SM 2540 D	11/17/22		ALD

Lab ID: 2243952-03 **Collected By:** Client **Sampled:** 11/16/22 09:59 **Received:** 11/16/22 14:20
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/16/22 15:53	11/17/22 14:43		RMB

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

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2243952-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1210	11/21/2022	JMW

Notes and Definitions

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

C-54d The difference between the highest and lowest results were greater than 30% at 49.8%.

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Certificate of Analysis

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

Laboratory No.: 2244830
Report: 12/02/22
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: 2244830-01 **Collected By:** Client **Sampled:** 11/22/22 09:36 **Received:** 11/22/22 14:17
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	333	mg/l	2.0	SM 5210 B	11/22/22 17:30	C-37	RXN
Solids, Total Suspended	212	mg/l	1	SM 2540 D	11/23/22		ASD

Lab ID: 2244830-02 **Collected By:** Client **Sampled:** 11/22/22 09:50 **Received:** 11/22/22 14:17
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	11/23/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/22/22 17:40		RXN
Nitrate as N	9.89	mg/l	1.00	EPA 300.0 Rev 2.1	11/23/22 0:59		HRG
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/23/22 0:59		HRG
Nitrate+Nitrite as N	<9.99	mg/l	1.10	CALCULATED	11/23/22 0:59		HRG
Nitrogen, Total	<10.57	mg/l	1.60	CALCULATED	11/27/22 3:51		JMW
Nitrogen, Total Kjeldahl (TKN)	0.58	mg/l	0.50	EPA 351.2 Rev 2.0	11/27/22		JMW
Phosphorus as P, Total	1.06	mg/l	0.01	SM 4500-P F	11/23/22		JMW
Solids, Total Suspended	6	mg/l	1	SM 2540 D	11/23/22		ASD

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

Certificate of Analysis

M.J. Reider Associates, Inc.

Lab ID: 2244830-03 **Collected By:** Client **Sampled:** 11/22/22 09:50 **Received:** 11/22/22 14:17
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/22/22 16:08	11/23/22 14:45		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2244830-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1373	11/23/2022	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.3mg/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.: 2244608
Report: 12/05/22
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: 2244608-01 **Collected By:** Client **Sampled:** 11/23/22 08:07 **Received:** 11/23/22 13:24
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	184	mg/l	2.0	SM 5210 B	11/23/22 14:04		RXN
Solids, Total Suspended	220	mg/l	1	SM 2540 D	11/25/22		ALD

Lab ID: 2244608-02 **Collected By:** Client **Sampled:** 11/23/22 08:35 **Received:** 11/23/22 13:24
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.19	mg/l	0.02	EPA 350.1 Rev 2.0	11/24/22		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/23/22 14:10		RXN
Nitrate as N	10.2	mg/l	1.00	EPA 300.0 Rev 2.1	11/23/22 15:16		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/23/22 15:16		JAF
Nitrate+Nitrite as N	<10.30	mg/l	1.10	CALCULATED	11/23/22 15:16		JAF
Nitrogen, Total	<11.43	mg/l	1.60	CALCULATED	12/01/22 22:06		JMW
Nitrogen, Total Kjeldahl (TKN)	1.13	mg/l	0.50	EPA 351.2 Rev 2.0	12/01/22		JMW
Phosphorus as P, Total	1.00	mg/l	0.01	SM 4500-P F	11/24/22		JMW
Solids, Total Suspended	6	mg/l	1	SM 2540 D	11/25/22		ALD

Lab ID: 2244608-03 **Collected By:** Client **Sampled:** 11/23/22 10:47 **Received:** 11/23/22 13:24
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/23/22 16:06	11/24/22 14:47		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2244608-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1391	11/23/2022	SNF

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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.: 2245730
Report: 12/06/22
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: 2245730-01 **Collected By:** Client **Sampled:** 11/29/22 08:26 **Received:** 11/29/22 12:15
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	234	mg/l	2.0	SM 5210 B	11/29/22 15:30		RXN
Solids, Total Suspended	170	mg/l	1	SM 2540 D	11/30/22		ALD

Lab ID: 2245730-02 **Collected By:** Client **Sampled:** 11/29/22 09:15 **Received:** 11/29/22 12:15
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	11/29/22	C-52	JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	11/29/22 15:36		RXN
Nitrate as N	9.18	mg/l	1.00	EPA 300.0 Rev 2.1	11/29/22 16:52		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/29/22 16:52		JAF
Nitrate+Nitrite as N	<9.28	mg/l	1.10	CALCULATED	11/29/22 16:52		JAF
Nitrogen, Total	<10.29	mg/l	1.60	CALCULATED	12/02/22 2:55		JMW
Nitrogen, Total Kjeldahl (TKN)	1.01	mg/l	0.50	EPA 351.2 Rev 2.0	12/02/22		JMW
Phosphorus as P, Total	0.65	mg/l	0.01	SM 4500-P F	11/29/22		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	11/30/22		ALD

Lab ID: 2245730-03 **Collected By:** Client **Sampled:** 11/29/22 09:15 **Received:** 11/29/22 12:15
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	11/29/22 15:17	11/30/22 14:39		RMB

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Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2245730-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1539	11/29/2022	JMW

Notes and Definitions

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.: 2245974
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: 2245974-01 **Collected By:** Client **Sampled:** 11/30/22 08:56 **Received:** 11/30/22 13:00
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	273	mg/l	2.0	SM 5210 B	12/01/22 10:10	C-37b	AMG
Solids, Total Suspended	154	mg/l	1	SM 2540 D	12/01/22		ALD

Lab ID: 2245974-02 **Collected By:** Client **Sampled:** 11/30/22 09:57 **Received:** 11/30/22 13:00
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	<0.02	mg/l	0.02	EPA 350.1 Rev 2.0	11/30/22		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	12/01/22 11:05	C-37c	RXN
Nitrate as N	9.94	mg/l	1.00	EPA 300.0 Rev 2.1	11/30/22 15:09		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	11/30/22 15:09		JAF
Nitrate+Nitrite as N	<10.04	mg/l	1.10	CALCULATED	11/30/22 15:09		JAF
Nitrogen, Total	<10.56	mg/l	1.60	CALCULATED	12/02/22 5:38		JMW
Nitrogen, Total Kjeldahl (TKN)	0.52	mg/l	0.50	EPA 351.2 Rev 2.0	12/02/22		JMW
Phosphorus as P, Total	0.67	mg/l	0.01	SM 4500-P F	11/30/22		JMW
Solids, Total Suspended	3	mg/l	1	SM 2540 D	12/01/22		ALD

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

M.J. Reider Associates, Inc.

Lab ID: 2245974-03 **Collected By:** Client **Sampled:** 11/30/22 09:57 **Received:** 11/30/22 13:00
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	7	/100ml	2	SM 9222 D	11/30/22 16:27	12/1/22 14:51		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2245974-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2K1625	11/30/2022	JMW

Notes and Definitions

C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.7 mg/L.
C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.8mg/L.

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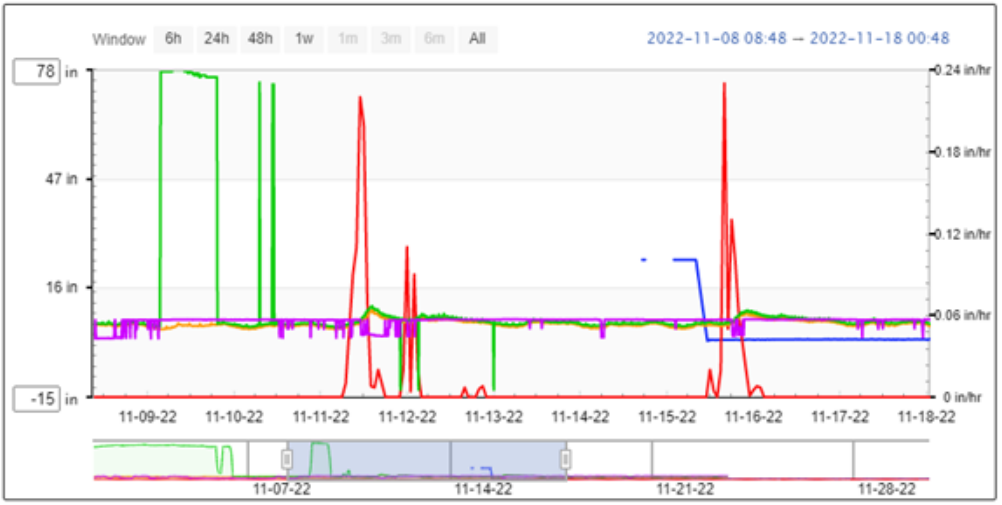
Suez North America Middletown

SMARTCOVER® SEWER INTELLIGENCE®

Static Charts



Time Period: Custom | Date Range: 2022-11-01 15:13 - 2022-11-30 15:13 | Long Filter: No Filter

Update Chart | Download Data

Locations

301-MH-332	Water Level above Bottom	
301-MH-475A	Water Level above Bottom	
MH-286	Water Level above Bottom	
MH-290	Water Level above Bottom	
[RAIN] Mill Street-Hoffer Park	Rain	Total: 3.51 in

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

APPENDIX 2

DRINKING WATER

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

&

SUSQUEHANNA RIVER BASIN COMMISSION
QUARTERLY WATER WITHDRAWAL REPORT AND
CORRESPONDENCE

Monthly Water Pumped

Middletown Borough Authority

November, 2022

	Maximum Day	960,255					Days pumped	30
	Minimum Day	642,677						

Date	Well No.1	Well No.2	Well No.3	Well No.4	Well No.5	Well No.6	Total	Union Booster
01	154,793	290,416			87,714	273,031	805,954	68,567
02	162,533	290,339			92,545	287,311	832,728	125,222
03	225,728	36,097			129,247	398,409	789,481	62,180
04	160,227	255,057			90,662	281,159	787,105	128,871
05	146,942	304,419			83,889	259,229	794,479	65,191
06	168,716	291,072			96,304	299,925	856,017	64,246
07	155,389	290,848			88,860	272,465	807,562	125,872
08	153,072	292,052			87,567	270,899	803,590	68,189
09	153,877	291,962			86,938	271,129	803,906	73,492
10	147,797	291,291			83,656	261,803	784,547	122,332
11	143,993	290,933			81,612	255,910	772,448	70,543
12	173,054	291,486			98,957	308,659	872,156	100,634
13	155,916	292,164			89,072	275,528	812,680	80,789
14	162,829	295,345			83,960	280,296	822,430	71,443
15	124,047	236,201			70,176	212,253	642,677	85,006
16	170,183	297,940			96,577	269,730	834,430	128,036
17	211,838	296,467			119,788	332,162	960,255	61,579
18	154,751	298,330			87,328	242,783	783,192	73,416
19	160,656	298,328			90,384	261,848	811,216	115,685
20	166,037	298,214			93,049	270,547	827,847	60,179
21	147,438	280,086			82,614	239,970	750,108	63,512
22	139,424	298,926			78,237	227,595	744,182	62,009
23	152,010	298,222			85,584	248,110	783,926	63,621
24	142,471	297,916			80,327	232,387	753,101	59,821
25	140,371	297,966			79,337	229,930	747,604	81,321
26	154,510	296,519			87,388	253,700	792,117	95,137
27	162,256	296,157			91,732	267,495	817,640	60,942
28	175,397	291,924			94,279	283,395	844,995	66,398
29	167,237	294,848			94,173	272,011	828,269	120,365
30	162,054	295,169			91,544	270,286	819,053	61,003
Totals:	4,795,546	8,476,694			2,703,500	8,109,955	24,085,695	2,485,601
Maximum	225,728	304,419			129,247	398,409	960,255	128,871
Minimum	124,047	36,097			70,176	212,253	642,677	59,821
Average	159,852	282,556			90,117	270,332	802,857	82,853

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1			03 Compliance Sampling Log	4.00 Distribution System Monitoring\DS-000 Generic Sample Location													
2				400000	400007	400008	400011	400012	400013	400014	400015	400016	400017	400018	400019	400020	
3				DS-000: Contractual Weekly Distribution	pH	Temperature	Hardness	Alkalinity (CaCO3)	Calcium	Phosphorus, Total	Silicates	Iron, Total	Manganese, Total	TDS	Specific Conductance	Langlier Index	
4				Date	SU	Deg C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umhos/Cm2	LSI	
5	Nov	1 Tue		11-1-22	7.70	18.0	348.0	205.00	103.00	0.06	24.00	<0.02	<0.01	286.00	726.00	7.70	
6		2 Wed															
7		3 Thu															
8		4 Fri															
9		5 Sat															
10		6 Sun															
11		7 Mon															
12		8 Tue		11-8-22	7.80	19.0	363.0	201.00	112.00	0.07	22.50	<0.00	<0.01	278.00	736.00	7.80	
13		9 Wed															
14		10 Thu															
15		11 Fri															
16		12 Sat															
17		13 Sun															
18		14 Mon															
19		15 Tue		11-15-22	7.60	17.0	366.0	209.00	111.00	0.08	21.90	<0.02	<0.01	280.00	721.00	7.60	
20		16 Wed															
21		17 Thu															
22		18 Fri															
23		19 Sat															
24		20 Sun															
25		21 Mon															
26		22 Tue		11-22-22	7.60	16.0	303.0	207.00	90.00	0.06	20.70	<0.02	<0.01	280.00	757.00	7.60	
27		23 Wed															
28		24 Thu															
29		25 Fri															
30		26 Sat															
31		27 Sun															
32		28 Mon															
33		29 Tue		11-29-22	7.60	16.0	335.0	199.00	103.00	0.07	21.90	<0.02	<0.01	274.00	754.00	7.60	
34		30 Wed															
36	MINIMUM			11-1-22	7.60	16.0	303.0	199.00	90.00	0.06	20.70	<0.00	<0.01	274.00	721.00	7.60	
37	MAXIMUM			11-8-22	7.80	19.0	366.0	209.00	112.00	0.08	24.00	<0.02	<0.01	286.00	757.00	7.80	
38	AVERAGE			1	7.66	17.2	343.0	204.20	103.80	0.07	22.20	<0.02	<0.01	279.60	738.80	3.56	
39	SUM			5	38.30	86.0	1,715.0	1,021.00	519.00	0.34	111.00	<0.08	<0.05	1,398.00	3,694.00	17.81	

Certificate of Analysis

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

Laboratory No.: 2241950
Reported: 11/06/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2241950-01 **Collected By:** Client **Sampled:** 11/01/22 08:40 **Received:** 11/01/22 12:58
Sample Desc: 701 Middletown WWTP **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/1/22 16:53	11/2/22 11:02		JMW	N/A	1

Lab ID: 2241950-02 **Collected By:** Client **Sampled:** 11/01/22 07:54 **Received:** 11/01/22 12:58
Sample Desc: 703 North Union Street Booster Station **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/1/22 16:53	11/2/22 11:02		JMW	N/A	1

Lab ID: 2241950-03 **Collected By:** Client **Sampled:** 11/01/22 08:28 **Received:** 11/01/22 12:58
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/1/22 16:53	11/2/22 11:02		JMW	N/A	1

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610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2241950

PWSID: 7220038

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: Jan,Mar,May,Jul,Sep,Nov. Week 1
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:

2241950-01 701 Middletown WWTP
Matrix: Drinking Water **Type:** Grab Date/Time: 11-1-22 0840
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 701 90

2241950-02 703 North Union Street Booster Station
Matrix: Drinking Water **Type:** Grab Date/Time: 11-1-22 0754
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 703 102

2241950-03 707 Main St & Cathererine St. Hydrant
Matrix: Drinking Water **Type:** Grab Date/Time: 11-1-22 0828
TC (P/A) SM 9223B
PA DEP Sample Type: D-Distribution
A - Sterile Pl 125ml NaThio
Loc ID: 707 97

FRIDGE 0.9

CHRIS HANNAN	11-1-22 0841	FRIDGE	11-1-22 0841	1006
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	NOV 1 2022 Date/Time	
Relinquished By	Date/Time	~~OCT 31 2022~~ Received at Laboratory By	NOV 1 2022 Date/Time	1255

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	1.7
Samples on Ice?	Yes No NA
Approved By:	
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: 10/25/2022 10:51:51AM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2241949
Reported: 11/15/22
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: 2241949-01 **Collected By:** Client **Sampled:** 11/01/22 08:42 **Received:** 11/01/22 12:58
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	205	mg CaCO3/ L	2	SM 2320 B	11/08/22		APR	N/A	N/A	
Total Hardness as CaCO3	348	mg/l	4.56	CALCULATED	11/02/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	11/09/22		JMW	N/A	N/A	
Silica as SiO2	24.0	mg/l	2.14	CALCULATED	11/03/22		HRG	N/A	N/A	
Conductivity	726	umhos/cm	1	SM 2510 B	11/02/22		RXN	N/A	N/A	
Total Metals										
Calcium	103	mg/l	1	EPA 200.7 Rev 4.4	11/02/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/03/22		HRG	N/A	0.3	PASS
Magnesium	21.8	mg/l	0.5	EPA 200.7 Rev 4.4	11/02/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/02/22		HRG	N/A	0.05	PASS
Silicon	11.2	mg/l	1.0	EPA 200.7 Rev 4.4	11/03/22		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
2241949-01			
SM 4500-P F	SM 4500-P B	11/08/2022	JMW

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WORK ORDER
Chain of Custody

2241949

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: 11-1-22 0842

2241949-01 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 0.9
PH 7.7
TEMP 18
TDS 284
Cl2 0.90

CHRIS HANNAN	11-1-22 0845	FRIDGE	11-1-22 0845	1005
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	NOV 1 2022 Date/Time	
Relinquished By	Date/Time	Received at Laboratory By	~~OCT 31 2022~~ 1258 Date/Time	
			NOV 1 2022	

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	1.7
Samples on Ice?	Yes No NA
Approved By:	
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: 10/25/2022 10:51:49AM

Report Template

Certificate of Analysis

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

Laboratory No.: 2242958
Reported: 11/14/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2242958-01 **Collected By:** Client **Sampled:** 11/08/22 08:18 **Received:** 11/08/22 13:52
Sample Desc: 704 Village of Pineford Office **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/8/22 17:00	11/9/22 11:07		JMW	N/A	1

Lab ID: 2242958-02 **Collected By:** Client **Sampled:** 11/08/22 09:17 **Received:** 11/08/22 13:52
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	11/8/22 17:00	11/9/22 11:07		JMW	N/A	1

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WORK ORDER
Chain of Custody

2242958

PWSID: 7220038

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: Jan,Mar,May,Jul,Sep,Nov. Week 2
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

2242958-01 704 Village of Pineford Office

Matrix: Drinking Water **Type:** Grab Date/Time: 11-8-22 0818

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

Loc ID: 704 1.12

TC (P/A) SM 9223B

2242958-02 ~~705 High Street Standpipe~~ o/s
701 W.W.T.P

Matrix: Drinking Water **Type:** Grab Date/Time: 11-8-22 0917

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

Loc ID: ~~705~~ 701 75

TC (P/A) SM 9223B

FRIDGE 0.9

CHRIS HANNAN	11-8-22 0918	FRIDGE	11-8-22 0918
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received at Laboratory By	NOV 8 2022 1352 Date/Time

Sample Kit Prepared By: TCW	Date/Time
Sample Temp (°C):	1.0
Samples on Ice?	Yes No NA
Approved By:	
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: 11/1/2022 3:00:04PM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2242957
Reported: 11/15/22
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: 2242957-01 **Collected By:** Client **Sampled:** 11/08/22 09:19 **Received:** 11/08/22 13:52
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	201	mg CaCO3/ L	2	SM 2320 B	11/11/22		APR	N/A	N/A	
Total Hardness as CaCO3	363	mg/l	4.56	CALCULATED	11/10/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	11/10/22		EAK	N/A	N/A	
Silica as SiO2	22.5	mg/l	2.14	CALCULATED	11/10/22		HRG	N/A	N/A	
Conductivity	736	umhos/cm	1	SM 2510 B	11/09/22		AMG	N/A	N/A	
Total Metals										
Calcium	112	mg/l	1	EPA 200.7 Rev 4.4	11/10/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/10/22		HRG	N/A	0.3	PASS
Magnesium	20.1	mg/l	0.5	EPA 200.7 Rev 4.4	11/10/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/09/22		MPB	N/A	0.05	PASS
Silicon	10.5	mg/l	1.0	EPA 200.7 Rev 4.4	11/10/22		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
2242957-01			
SM 4500-P F	SM 4500-P B	11/10/2022	JMW

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WORK ORDER
Chain of Custody

2242957

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: 11-8-22 919

2242957-01 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 0.9
PH 7.8
TEMP 19
TDS 278
Cl2 0.75

CHRIS HANNAN	11-8-22 0921	FRIDGE	11-8-22 0921
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received at Laboratory By	Date/Time NOV 8 2022 1352

Sample Kit Prepared By: RCG	Date/Time
Sample Temp (°C):	1.0
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	

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Printed: 11/1/2022 3:00:02PM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2243954
Reported: 11/17/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2243954-01 **Collected By:** Client **Sampled:** 11/15/22 08:55 **Received:** 11/15/22 14:10
Sample Desc: 701 Middletown WWTP **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 701

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/15/22 17:22	11/16/22 11:29		RMB	N/A	1

Lab ID: 2243954-02 **Collected By:** Client **Sampled:** 11/15/22 08:27 **Received:** 11/15/22 14:10
Sample Desc: 703 North Union Street Booster Station **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/15/22 17:22	11/16/22 11:29		RMB	N/A	1

Lab ID: 2243954-03 **Collected By:** Client **Sampled:** 11/15/22 08:40 **Received:** 11/15/22 14:10
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/15/22 17:22	11/16/22 11:29		RMB	N/A	1

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WORK ORDER
Chain of Custody

2243954

PWSID: 7220038

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: Jan,Mar,May,Jul,Sep,Nov. 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:

2243954-01 701 Middletown WWTP

Matrix: Drinking Water **Type:** Grab Date/Time: 11-15-22 0855

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

Loc ID: 701 71

TC (P/A) SM 9223B

2243954-02 703 North Union Street Booster Station

Matrix: Drinking Water **Type:** Grab Date/Time: 11-15-22 0827

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

Loc ID: 703 93

TC (P/A) SM 9223B

2243954-03 707 Main St & Cathererine St. Hydrant

Matrix: Drinking Water **Type:** Grab Date/Time: 11-15-22 0840

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

Loc ID: 707 102

TC (P/A) SM 9223B

FRIDGE -0.4

Chris Hannan	11-15-22 0859	Fridge	11-15-22 0859
Relinquished By	Date/Time	Received By	Date/Time
		1250	
Relinquished By	Date/Time	Received By	Date/Time
		NOV 15 2022 1410	
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

Sample Kit Prepared By: TCC	Date/Time
Sample Temp (°C):	0.5
Samples on Ice?	Yes No NA
Approved By:	
Entered By:	

Report Template:

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Printed: 11/8/2022 12:55:58PM

Certificate of Analysis

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

Laboratory No.: 2243953
Reported: 11/30/22
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: 2243953-01 **Collected By:** Client **Sampled:** 11/15/22 08:57 **Received:** 11/15/22 14:10
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	209	mg CaCO3/ L	2	SM 2320 B	11/23/22		APR	N/A	N/A	
Total Hardness as CaCO3	366	mg/l	4.56	CALCULATED	11/17/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.08	mg/l	0.01	SM 4500-P F	11/20/22		SNF	N/A	N/A	
Silica as SiO2	21.9	mg/l	2.14	CALCULATED	11/17/22		HRG	N/A	N/A	
Conductivity	721	umhos/cm	1	SM 2510 B	11/22/22		RXN	N/A	N/A	
Total Metals										
Calcium	111	mg/l	1	EPA 200.7 Rev 4.4	11/17/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/16/22		HRG	N/A	0.3	PASS
Magnesium	21.6	mg/l	0.5	EPA 200.7 Rev 4.4	11/17/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/16/22		MPB	N/A	0.05	PASS
Silicon	10.3	mg/l	1.0	EPA 200.7 Rev 4.4	11/17/22		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
2243953-01			
SM 4500-P F	SM 4500-P B	11/19/2022	SNF

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WORK ORDER
Chain of Custody

2243953

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: 11-15-22 0857

2243953-01 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 -0.4
PH 7.6
TEMP 17
TDS 280
Cl2 0.71

CHRIS HANNAN	11-15-22 0859	FRIDGE	11-15-22 0859
Relinquished By	Date/Time	Received By	Date/Time
			11-15-22 1250
Relinquished By	Date/Time	Received By	Date/Time
			NOV 15 2022 1410
Relinquished By	Date/Time	Received at Laboratory By	Date/Time

Sample Kit Prepared By:	Date/Time
RLW	
Sample Temp (°C):	0.5
Samples on Ice?	Yes / No / NA
Approved By:	RLW
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: 11/8/2022 12:55:56PM

Report Template:

Certificate of Analysis

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

Laboratory No.: 2244832
Reported: 12/01/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2244832-01 **Collected By:** Client **Sampled:** 11/22/22 08:51 **Received:** 11/22/22 14:17
Sample Desc: 704 Village of Pineford Office **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 704

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/22/22 15:35	11/23/22 11:12		JMW	N/A	1

Lab ID: 2244832-02 **Collected By:** Client **Sampled:** 11/22/22 09:28 **Received:** 11/22/22 14:17
Sample Desc: 703 Booster Station **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 703

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	11/22/22 15:35	11/23/22 11:12		JMW	N/A	1

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WORK ORDER
Chain of Custody

2244832

PWSID: 7220038

Client Code: 4085
Client: Veolia Middletown
Project Manager: Christina M Kistler
Project: Jan,Mar,May,Jul,Sep,Nov. 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

2244832-01 704 Village of Pineford Office

Matrix: Drinking Water **Type:** Grab Date/Time: 11-22-22 0851

TC (P/A) SM 9223B

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

Loc ID: 704 130

2244832-02 ~~705 High Street Standpipe~~ 703 BOOSTER STATION

Matrix: Drinking Water **Type:** Grab Date/Time: 11-22-22 0928

TC (P/A) SM 9223B

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

Loc ID: ~~705~~ 703 93

FRIDGE -0.5

CHRIS HANNAN	11-22-22 0940	FRIDGE	11-22-22 0940	1012
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time NOV 22 2022	
Relinquished By	Date/Time	Received at Laboratory By	Date/Time NOV 22 2022	1417

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	0.8
Samples on Ice?	Yes No NA
Approved By:	
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: 11/15/2022 12:47:10PM

Report Template: v

Certificate of Analysis

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

Laboratory No.: 2244831
Reported: 12/05/22
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: 2244831-01 **Collected By:** Client **Sampled:** 11/22/22 09:42 **Received:** 11/22/22 14:17
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	207	mg CaCO3/ L	2	SM 2320 B	11/23/22		APR	N/A	N/A	
Total Hardness as CaCO3	303	mg/l	4.56	CALCULATED	11/30/22		JAF	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	12/01/22		JMW	N/A	N/A	
Silica as SiO2	20.7	mg/l	2.14	CALCULATED	12/01/22		HRG	N/A	N/A	
Conductivity	757	umhos/cm	1	SM 2510 B	11/29/22		AMG	N/A	N/A	
Total Metals										
Calcium	90	mg/l	1	EPA 200.7 Rev 4.4	11/30/22		JAF	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	11/24/22		HRG	N/A	0.3	PASS
Magnesium	18.7	mg/l	0.5	EPA 200.7 Rev 4.4	11/30/22		JAF	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/24/22		MPB	N/A	0.05	PASS
Silicon	9.7	mg/l	1.0	EPA 200.7 Rev 4.4	12/01/22		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
2244831-01			
SM 4500-P F	SM 4500-P B	11/30/2022	SNF

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NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.
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

2244831

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:

2244831-01 WWTP Lab Sink

Matrix: Drinking Water **Type:** Grab Date/Time: 11-22-22 0942

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, Silica as SiO2 EPA 200.7 CALC, Sp Cond SM 2510B, Si EPA 200.7

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

FRIDGE ~0.5
PH 7.6
TEMP 16
TDS 280
Cl2 0.72

CHRIS HANNAN	11-22-22 0945	FRIDGE	11-22-22 0945	1012
Relinquished By	Date/Time	Received By	Date/Time	
			NOV 22 2022	
Relinquished By	Date/Time	Received By	Date/Time	
			NOV 22 2022	1417
Relinquished By	Date/Time	Received at Laboratory By	Date/Time	

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	0.8
Samples on Ice?	Yes No NA
Approved By:	
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: 11/15/2022 12:47:08PM

Report Template: wko WorkOrder COC ls

Certificate of Analysis

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

Laboratory No.: 2245975
Reported: 12/05/22
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: 2245975-01 **Collected By:** Client **Sampled:** 11/29/22 08:46 **Received:** 11/29/22 12:15
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	199	mg CaCO3/ L	2	SM 2320 B	12/01/22		SNF	N/A	N/A	
Total Hardness as CaCO3	335	mg/l	4.56	CALCULATED	11/30/22		JAF	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	12/01/22		JMW	N/A	N/A	
Silica as SiO2	21.9	mg/l	2.14	CALCULATED	12/01/22		HRG	N/A	N/A	
Conductivity	754	umhos/cm	1	SM 2510 B	11/30/22		ASD	N/A	N/A	
Total Metals										
Calcium	103	mg/l	1	EPA 200.7 Rev 4.4	11/30/22		JAF	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	12/01/22		HRG	N/A	0.3	PASS
Magnesium	19.2	mg/l	0.5	EPA 200.7 Rev 4.4	11/30/22		JAF	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	11/30/22		MPB	N/A	0.05	PASS
Silicon	10.2	mg/l	1.0	EPA 200.7 Rev 4.4	12/01/22		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
2245975-01			
SM 4500-P F	SM 4500-P B	11/30/2022	SNF

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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

2245975

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: 11-29-22 0840

2245975-01 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 -0.2
PH 7.4
TEMP 16
TDS 274
CL 0.80

Chris Hannan	11.29.22 0842	FRIDGE	11-29-22 0842
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	11/29/22 0935 Date/Time
Relinquished By	Date/Time	Received at Laboratory By	11/29/22 1215 Date/Time

Sample Kit Prepared By:	Date/Time
RCW	
Sample Temp (°C):	1.2
Samples on Ice?	(Yes) No NA
Approved By:	CMK
Entered By:	JSV

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: 11/22/2022 12:21:48PM

Report Template: wko WorkOrder COC ls

Certificate of Analysis

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

Laboratory No.: 2241948
Reported: 11/10/22
Lab Contact: Christina M Kistler

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

Project: DW-Quarterly VOCS
7220038

Lab ID: 2241948-02 **Collected By:** Client **Sampled:** 11/01/22 07:21 **Received:** 11/01/22 12:58
Sample Desc: 106 Entry Point Well #6 **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
Volatiles										
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.2	PASS
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.007	PASS
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.07	PASS
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.6	PASS
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.075	PASS
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.1	PASS
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.07	PASS
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.7	PASS
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.1	PASS
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	1	PASS
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.1	PASS
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.005	PASS
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	0.002	PASS
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	11/03/22	V-06	WJS	N/A	10	PASS
Surrogates										
1,2-Dichlorobenzene-d4	*98.4%*		*70-130*	*EPA 524.2 Rev 4.1*	11/03/22	V-06	WJS			
4-Bromofluorobenzene	*104%*		*70-130*	*EPA 524.2 Rev 4.1*	11/03/22	V-06	WJS			

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

Notes and Definitions

V-06	The following primary contaminant(s) were identified but not requested: Dibromochloromethane, and Bromoform.
Pass	Result less than or equal to EPA maximum contaminant level.
Fail	Result greater than EPA maximum contaminant level.

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610-374-5129 www.mjreider.com

WORK ORDER
Chain of Custody

2241948

Client Code: 4085
Project Manager: Christina M Kistler
Client: Veolia Middletown
Project: DW-Quarterly VOCS
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

Comments: WELL 3 O/S

Collected By : (Full Name) CHRIS HANNAN

Matrix: Drinking Water **Type:** Grab Date/Time:

2241948-01 103 Entry Point Well #3
VOA-21 EPA 524.2

O/S

A - Vial 40ml Asc & HCL (pH<2), zero hdspc
B - Vial 40ml Asc & HCL (pH<2), zero hdspc
C - Vial 40ml Asc & HCL (pH<2), zero hdspc
D - Vial 40ml Asc & HCL (pH<2), zero hdspc
E - Vial TRIP BLANK 40ml Asc & HCl (pH<2), zero hdspc
F - Vial TRIP BLANK 40ml Asc & HCl (pH<2), zero hdspc

O/S

Matrix: Drinking Water **Type:** Grab Date/Time: 11-1-22 0721

2241948-02 106 Entry Point Well #6
VOA-21 EPA 524.2

A - Vial 40ml Asc & HCL (pH<2), zero hdspc
B - Vial 40ml Asc & HCL (pH<2), zero hdspc
C - Vial 40ml Asc & HCL (pH<2), zero hdspc
D - Vial 40ml Asc & HCL (pH<2), zero hdspc
E - Vial TRIP BLANK 40ml Asc & HCl (pH<2), zero hdspc
F - Vial TRIP BLANK 40ml Asc & HCl (pH<2), zero hdspc

FRIDGE 0.9

logged by ECC

CHRIS HANNAN	11-1-22 0838	FRIDGE	11-1-22 0838	1008
Relinquished By	Date/Time	Received By	Date/Time	
			NOV 1 2022	
Relinquished By	Date/Time	Received By	Date/Time	1258
			~~OCT 31 2022~~	
Relinquished By	Date/Time	Received at Laboratory By	Date/Time	
			NOV 1 2022	

Sample Kit Prepared By:	Date/Time
Sample Temp (°C):	1.7
Samples on Ice?	(Yes) No
Approved By:	RW
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: 10/25/2022 10:51:47AM

VEOLIA

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

File Uploaded Successfully by HANNANJ

6 messages

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:57 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 100 Well No 1 (8).xls	HANNANJ	HANNANJ_1 through HANNANJ_30

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

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:57 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 102 Well No 2 (8).xls	HANNANJ	HANNANJ_31 through HANNANJ_60

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:58 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 103 Well No 3 (8).xls	HANNANJ	HANNANJ_61 through HANNANJ_90

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:58 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 104 Well No 4 (8).xls	HANNANJ	HANNANJ_91 through HANNANJ_120

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:59 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 105 Well No 5 (8).xls	HANNANJ	HANNANJ_121 through HANNANJ_150

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 9:59 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 106 Well No 6 (9).xls	HANNANJ	HANNANJ_151 through HANNANJ_180

[Quoted text hidden]

VEOLIA

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

Data Added Successfully by HANNANJ

1 message

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Wed, Dec 7, 2022 at 10:05 AM
To: kodi.webb@veolia.com, james.hannan@suez.com, michael.barger@veolia.com

HANNANJ successfully added data to DWELR on 12/07/22 at 10:11 AM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_181	701	110122
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_182	703	110122
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_183	707	110122
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_184	704	110822
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_185	701	110822
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_186	701	111522
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_187	703	111522
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_188	707	111522
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_189	704	112222
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_190	703	112222
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_191	707	112922

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

APPENDIX 3
CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

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	3	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	34	18

SERVICE ORDER STATISTICS REPORT

ACTION		ISSUED THIS PERIOD ISSUED	ISSUED THIS PERIOD COMPLETED	ISSUED THIS PERIOD VOIDED	ISSUED THIS PERIOD OUTSTANDING	PRIOR ORDERS COMPLETED	PRIOR ORDERS VOIDED	PRIOR ORDERS OUTSTANDING	TOTAL COMPLETED	TOTAL OUTSTANDING
C	CONNECT	8	8	0	0	152	4	0	160	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	19	16	3	0	3,335	84	0	3,351	0
M	METER CHANGE	12	12	0	0	648	7	0	660	0
O	OCC CHANGE	16	16	0	0	1,374	3	0	1,390	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	7	7	0	0	795	23	0	802	0
**	GRAND TOTALS **	62	59	3	0	6,388	130	0	6,447	0

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID	
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 2745
*** TOTAL METERS IN INVENTORY 720

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE
ACTIVE ACCOUNTS:	2,722	157,073.79	725,190.31	882,264.10
DISCONNECTED ACCTS:	15	2,170.63	616.00	2,786.63
FINALED ACCOUNTS:	352	16,947.07		16,947.07
INACTIVE ACCOUNTS:	12,365	0.00		0.00
GRAND TOTALS	15,454	176,191.49	725,806.31	901,997.80

ACTIVE ACCOUNT RECONCILIATION	
NEW ACCOUNTS:	28
DISCONNECT--NO TRF:	15
DISCONNECT-TRANSFER:	0

CALCULATION SUMMARY	
TOTAL CHARGES:	725,806.31
DEPOSIT RETURNS:	0.00
TOTAL CURRENT:	725,806.31

===== 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	2657	387,163.82	0.00	0.00	0.00	16937,700.0000		16937,700.0000
SR SURCHARGE	5	0.00	0.00	0.00	0.00			
SR2 SURCHARGE 2	2705	93,421.06	0.00	0.00	0.00			
W WATER	5356	245,221.43	0.00	0.00	0.00	21657,400.0000	100	21657,500.0000
TOTALS		725,806.31	0.00	0.00	0.00			

Fireline is set up on Flat Rate that doesn't consider consumption

======== 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	82,507.05
	203-WTR MDT COMMERCIAL	687-145900	99,623.12
	206-CUSTOMER CHARGE	687-145900	10,946.64
	207-SERVICE CHG / METER	687-145900	43,060.07
	210-WTR ROYAL	687-145900	9,015.00
	220-WTR L SWT	687-145900	69.55
	230-SURCHARGE WATER/SEWER	687-145900	0.00
	231-SURCHARGE WATER/SEWER	687-145900	93,421.06
	300-SWR MDT	687-145800	330,179.54
	306-SW CUST CHARGE	687-145800	56,984.28
	310-SWR ROYAL	687-145800	0.00
	320-SWR L SWT	687-145800	0.00
	R/C TOTALS		725,806.31

========== 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	0.00	0.00	0.00	0.00		
S	300	RB	SEWER -ROYALTON	RB	1	0.00	0.00	0.00	0.00		
S	300	SW	SEWER	SW	2655	387,163.82	0.00	0.00	0.00	16,937,700.0000	800

RATE TABLE TOTALS
** (CONTINUED) **

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
SR	230	SR2	SURCHARGE WATER/SEWE	SR2	5	0.00	0.00	0.00	0.00		
SR2	231	SR2	SURCHARGE WATER/SEWE	SR2	2705	93,421.06	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	35	4,807.34	0.00	0.00	0.00	441,200.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	6,873.15	0.00	0.00	0.00	724,200.0000	
W	200	C20	COMM 2" MTR	C20	21	18,067.84	0.00	0.00	0.00	1,908,200.0000	
W	200	C30	COMM 3" MTR	C30	5	6,530.55	0.00	0.00	0.00	694,000.0000	
W	200	C40	COMM 4" MTR	C40	2	256.90	0.00	0.00	0.00	20,500.0000	
W	200	C58	COMM 5/8" MTR	C58	10	515.18	0.00	0.00	0.00	34,400.0000	
W	200	C60	COMM 6" MTR	C60	13	57,997.19	0.00	0.00	0.00	6,241,600.0000	
W	200	C75	COMM 3/4" MTR	C75	2	256.94	0.00	0.00	0.00	23,500.0000	
W	200	C80	COMM 8" MTR	C80	4	7,018.12	0.00	0.00	0.00	741,000.0000	
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	69.55	0.00	0.00	0.00	2,100.0000	
W	200	NCW	NO CHG	NCW	27	0.00	0.00	0.00	0.00	83,700.0000	
W	200	R10	RESID 1" MTR	R10	16	550.00	0.00	0.00	0.00	22,600.0000	
W	200	R58	RESID - 5/8'" MTR	R58	2565	129,451.95	0.00	0.00	0.00	8,545,000.0000	
W	200	R60	RESID 6" MTR	R60	1	3,286.27	0.00	0.00	0.00	352,400.0000	
W	200	R75	RESID 3/4" MTR	R75	4	395.20	0.00	0.00	0.00	34,100.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	9,015.00	0.00	0.00	0.00	1,788,900.0000	
W	210	A1V	FLAT RATE WATER -VAR	A1V	2	130.25	0.00	0.00	0.00		
W	220	MC	WATER METER CHARGE -	MC	2623	0.00	0.00	0.00	0.00		
			TOTALS			725,806.31	0.00	0.00	0.00		

METER GROUP TOTALS

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	21,657,400.0000	100.000	21,657,500.0000	

REFUNDED DEPOSIT TOTALS

CODE	DESCRIPTION	NUMBER	AMOUNT
	DEPOSIT TOTALS	0	0.00

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

==== REVENUE CODE TOTALS ====

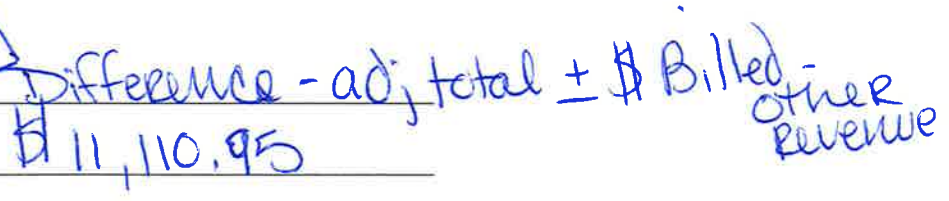
REVENUE CODE:	--CURRENT--	+1 MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
081-NSF CK FEE	0.00	14.00	26.00	0.00	0.00	40.00
200-WTR MDT	82133.48	12341.96	5979.40	2075.06	4758.55	107288.45
201-WATER TURN ON	0.00	217.36	114.10	62.73	26.41	420.60
203-WTR MDT COMMERCIAL	97954.00	7398.24	1488.56	0.00	25.41	106866.21
206-CUSTOMER CHARGE	10678.04	1942.67	873.26	338.54	2281.91	16114.42
207-SERVICE CHG / METER	41929.42	7671.66	3389.11	1310.10	8864.94	63165.23
210-WTR ROYAL	9015.00	0.00	0.00	0.00	0.00	9015.00
220-WTR L SWT	69.55	0.00	0.00	0.00	0.00	69.55
230-SURCHARGE WATER/SEWER	16.28	15.88	15.89	19.27	1754.30	1821.62
231-SURCHARGE WATER/SEWER	90280.91	3373.89	1400.97	530.89	1538.46	97125.12
275-WTR PEN	187.44CR	1990.13	736.64	200.99	808.74	3549.06
300-SWR MDT	326877.92	39328.65	15775.75	4349.40	9878.57	396210.29
306-SW CUST CHARGE	55551.54	10399.20	4701.88	1990.61	24734.99	97378.22
375-SWR PEN	266.17CR	3445.84	1264.09	331.57	1978.57	6753.90
996-UNAPPLIED	14081.02CR	0.00	0.00	0.00	0.00	14081.02CR
999-REFUND	1632.49CR	0.00	0.00	0.00	0.00	1632.49CR
TOTALS	698339.02	88139.48	35765.65	11209.16	56650.85	890104.16

TOTAL REVENUE CODES: 890,104.16
TOTAL ACCOUNT BALANCE: 890,104.16
DIFFERENCE: 0.00

PERIOD: 11/01/2022 THRU 11/30/2022
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	01	1	12.76CR
	03	3	21.39CR
	04	1	14.48CR
	10	2	80.00
	11	1	40.00
	14	4	5,650.00
	17	6	1,272.76CR
	23	1	50.00
	28	144	0.00
	29	5	56.36CR
		ADJUSTMENT TOTAL	4,442.25
BILL	01	4	6.13CR
	03	12	22.50CR
	04	2	12.40
	10	1	86.16
	14	3	61.29
	15	2	94.30
	16	2	76.08
	17	4	13.22CR
	18	3	35.05
	28	2,726	725,506.53
	29	2	0.00
	30	4	23.65CR
		BILL TOTAL	725,806.31
APPLIED DEPOSIT	15	1	0.00
	16	1	0.00
	18	1	0.00
	28	1	0.00
		APPLIED TOTAL	0.00
LATE CHARGE	28	464	6,668.70
		LATE TOTAL	6,668.70
MEMO	18	32	0.00
	21	17	0.00
	22	33	0.00
		MEMO TOTAL	0.00
PAYMENT	01	78	11,859.23CR
	02	66	9,074.16CR
	03	156	20,129.15CR



PERIOD: 11/01/2022 THRU 11/30/2022
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
	04	146	21,978.18CR
	07	206	68,166.04CR
	08	44	10,065.23CR
	09	138	36,787.24CR
	10	212	59,861.20CR
	11	56	19,825.97CR
	14	106	24,492.85CR
	15	239	176,232.58CR
	16	147	57,221.06CR
	17	82	35,718.60CR
	18	64	12,583.32CR
	21	28	18,989.56CR
	22	67	10,725.53CR
	23	41	7,365.08CR
	25	20	3,833.52CR
	28	79	14,196.59CR
	29	25	5,147.32CR
	30	17	3,056.34CR
	PAYMENT TOTAL		627,308.75CR
DRAFT	16	359	50,833.11CR
	25	26	19,330.58CR
	DRAFT TOTAL		70,163.69CR
REVERSE-PAY	03	1	67.45
	10	1	87.25
	14	1	250.00
	15	1	429.34
	22	16	2,491.97
	REVERSE PAY TOTAL		3,326.01
	GRAND TOTAL FOR PERIOD		42,770.83

Total collected = $697,472.44

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,657	16,937,700	16,937,700			$ 387,163.82
SR	2,663	0	0			
SR2	2,705	0	0			$ 93,421.06
W	5,355	21,657,400	21,657,400			$ 245,221.43

NOVEMBER 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	
TUESDAY, NOVEMBER 1, 2022	57	4	61							3		48	5						1					
WEDNESDAY, NOVEMBER 2, 2022	30	3	33							5		23	2											
THURSDAY, NOVEMBER 3, 2022	36	5	41							7		24	3	1	1									
FRIDAY, NOVEMBER 4, 2022	48	4	52	2			1			9		36												
MONDAY, NOVEMBER 7, 2022	46	1	47	1						1		29	15											
TUESDAY, NOVEMBER 8, 2022	33	2	35							4		18	8	1	2									
WEDNESDAY, NOVEMBER 9, 2022	52	3	55	2			2			3		30	12		3									
THURSDAY, NOVEMBER 10, 2022	47	2	49							2		38	7											
FRIDAY, NOVEMBER 11, 2022	42	4	46	2				1				34		2	2				1					
MONDAY, NOVEMBER 14 2022	39	3	42	2						2		33		1	1									
TUESDAY, NOVEMBER 15, 2022	44	4	48				1			3		40												
WEDNESDAY, NOVEMBER 16, 2022	53	1	54	1								51			1									
THURSDAY, NOVEMBER 17, 2022	38	4	42	1			1	1		3		30			2									
FRIDAY, NOVEMBER 18, 2022	40	2	42	1						4		31		2	2									
TUESDAY, NOVEMBER 22, 2022	30	3	33	2						3		22		1	2									
WEDNESDAY, NOVEMBER 23, 2022	23	1	24				1			3		19												
MONDAY, NOVEMBER 28, 2022	55	1	56					2		7		39	6						1					
TUESDAY, NOVEMBER 29, 2022	28	2	30							2		18	8											
WEDNESDAY, NOVEMBER 30, 2022	19	5	24				2			4		11	2											
GRAND TOTALS	760	54	814	14	0	0	8	4	0	65	0	574	68	8	16	0	0	0	3	0	0	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	39	NO SHUT OFFS FOR WINTER
November Bill Cycle						
December Bill Cycle						

Partner Reporting Dashboard

Back to Partner Select Page

SUEZ (Middletown)

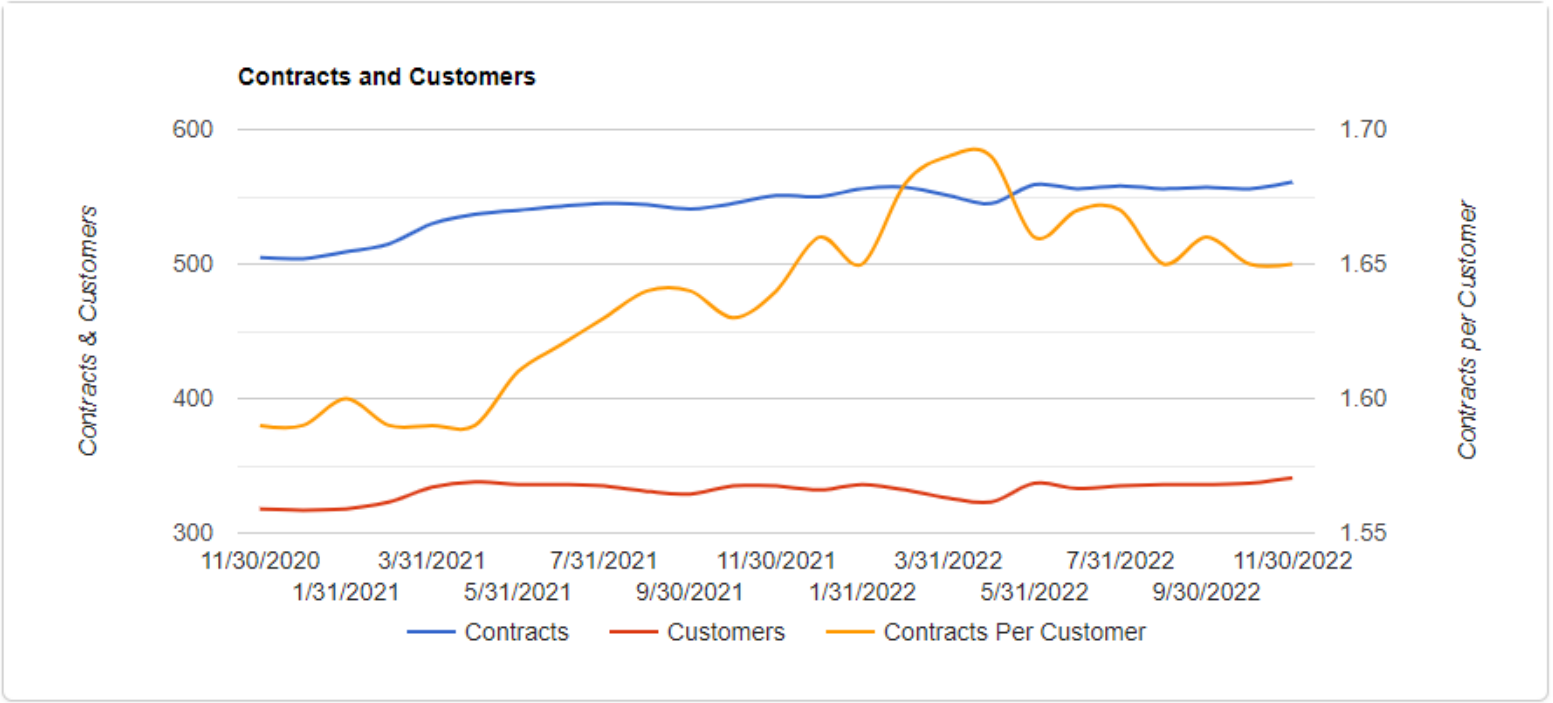
Date Start

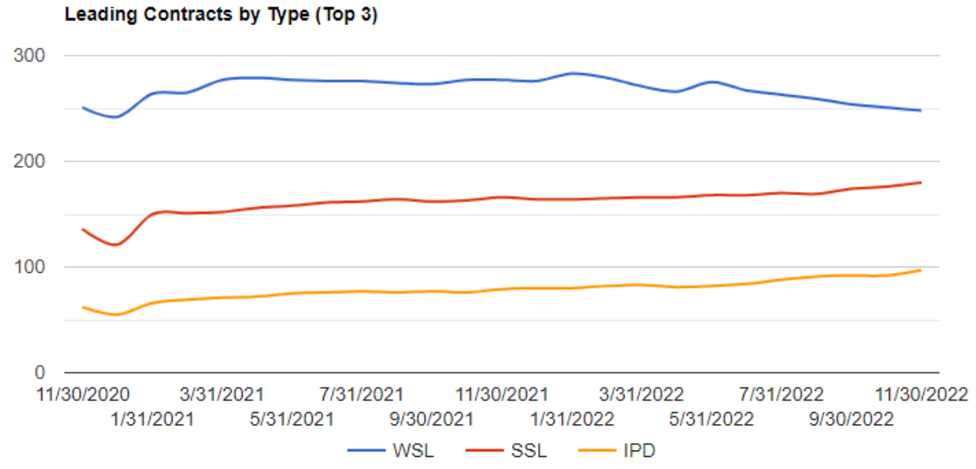
2020-11-30

Date End

2022-11-30

Filter




Leading Contracts by Type (Top 3)
300
200
100
0
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
3/31/2022
5/31/2022
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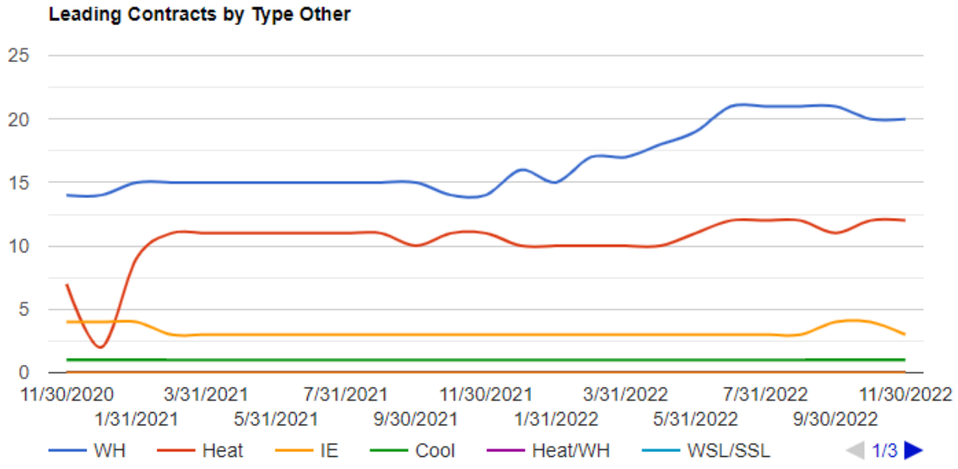
9/30/2022
11/30/2022
WSL
SSL
IPD


Leading Contracts by Type Other
25
20
15
10
5
0
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
3/31/2022
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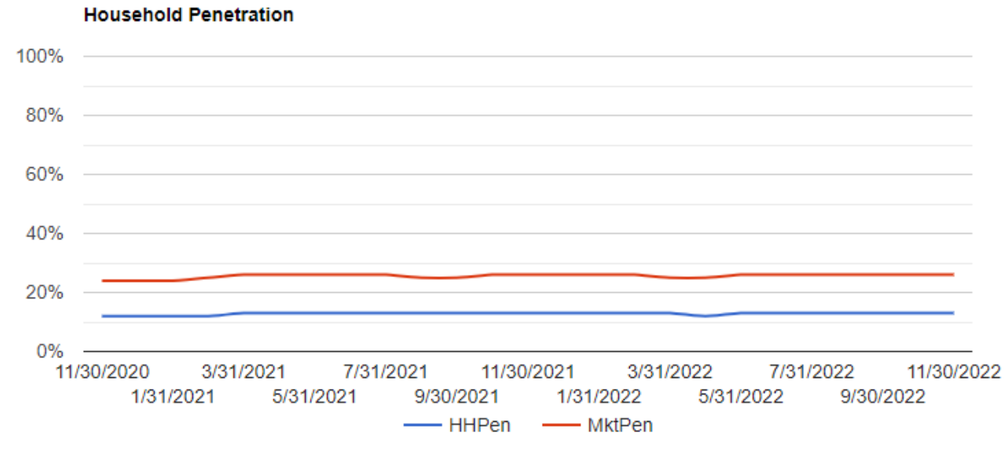
11/30/2022
WH
Heat
IE
Cool
Heat/WH
WSL/SSL
1/3


Household Penetration
100%
80%
60%
40%
20%
0%
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
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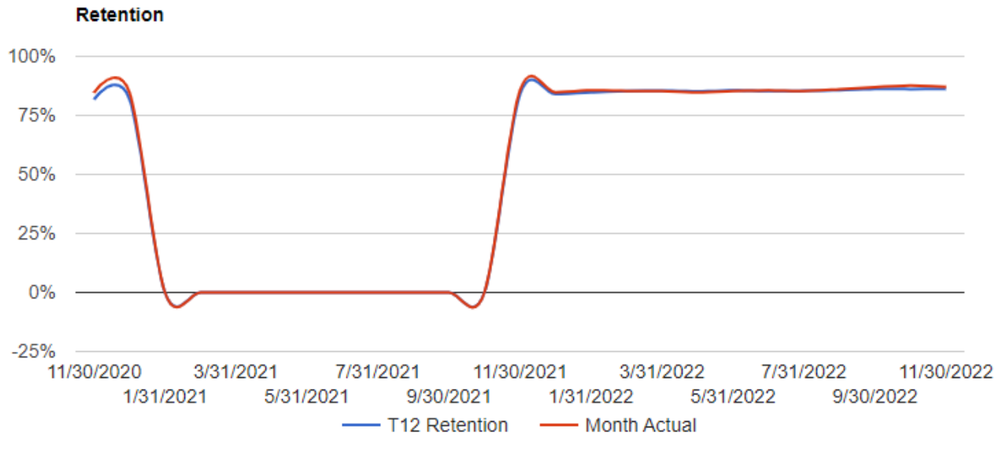
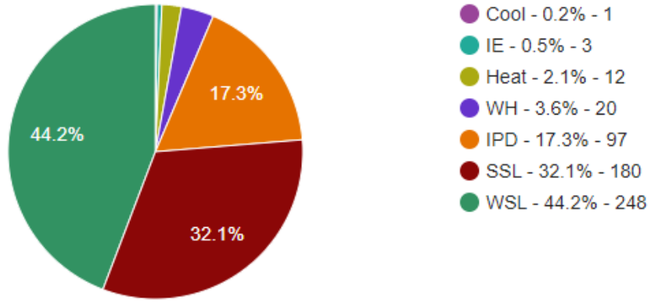
7/31/2022
9/30/2022
11/30/2022
HHPen
MktPen

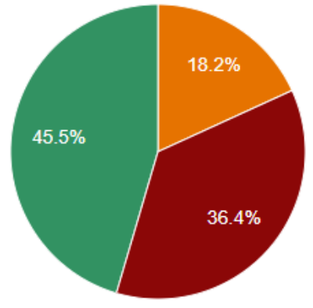

Retention
100%
75%
50%
25%
0%
-25%
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
3/31/2022
5/31/2022
7/31/2022
9/30/2022
11/30/2022
T12 Retention
Month Actual

Contracts by Product Type



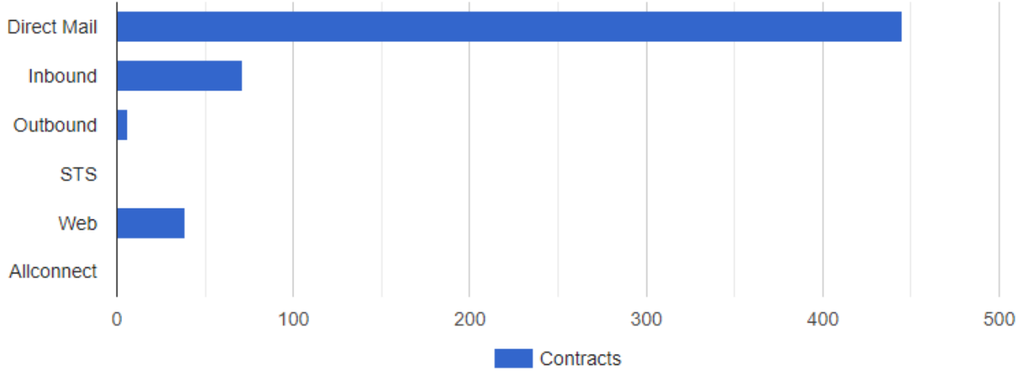
- Cool - 0.2% - 1
- IE - 0.5% - 3
- Heat - 2.1% - 12
- WH - 3.6% - 20
- IPD - 17.3% - 97
- SSL - 32.1% - 180
- WSL - 44.2% - 248

Contracts by Type - Last 30 Days

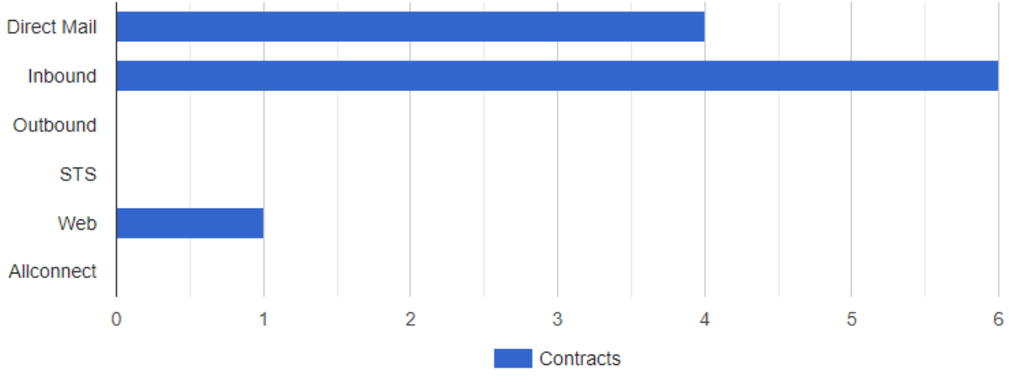


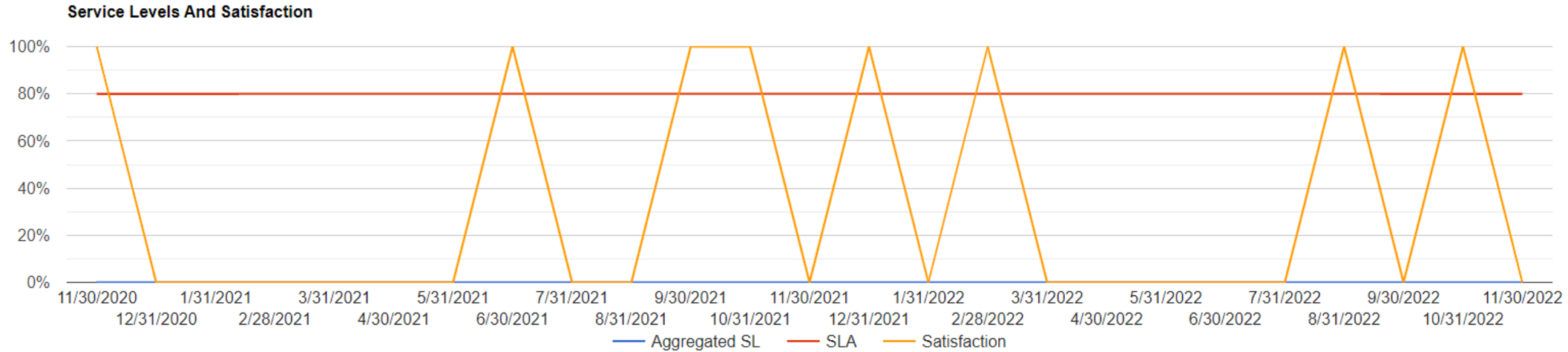
- WSL - 18.2% - 2
- SSL - 36.4% - 4
- IPD - 45.5% - 5

Contracts by Channel



Contracts by Channel - Last 30 Days




Service Levels And Satisfaction
100%
80%
60%
40%
20%
0%
11/30/2020
12/31/2020
1/31/2021
2/28/2021
3/31/2021
4/30/2021
5/31/2021
6/30/2021
7/31/2021
8/31/2021
9/30/2021
10/31/2021
11/30/2021
12/31/2021
1/31/2022
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
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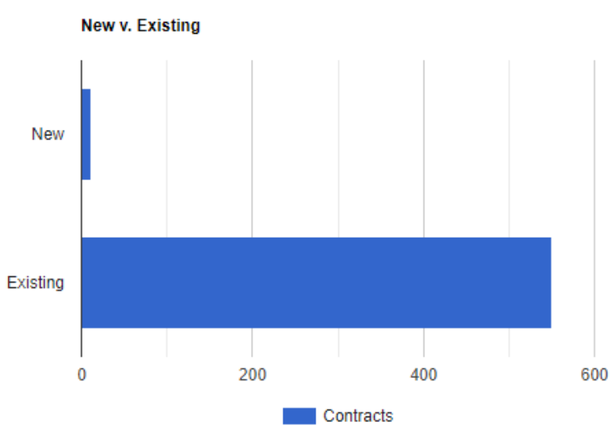
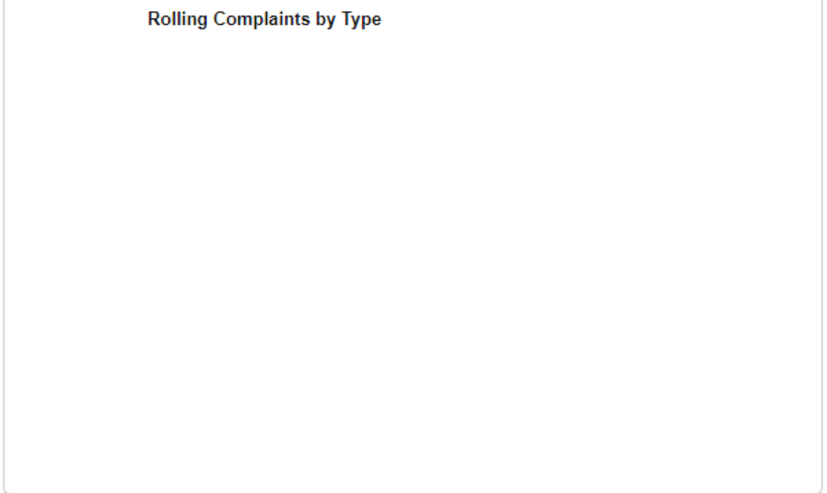
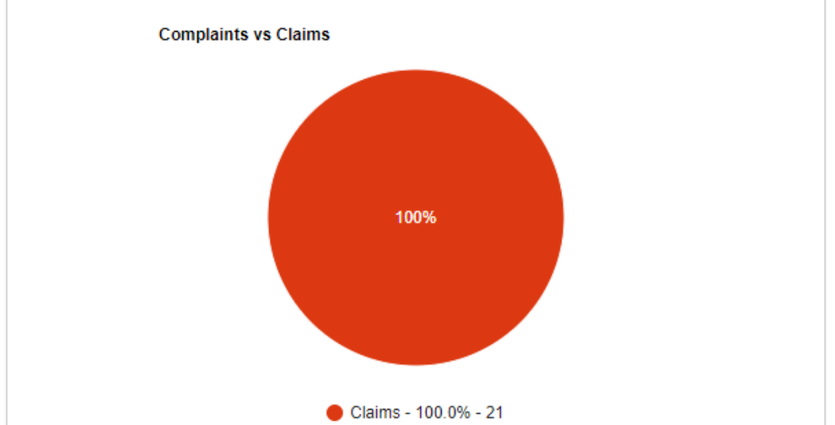
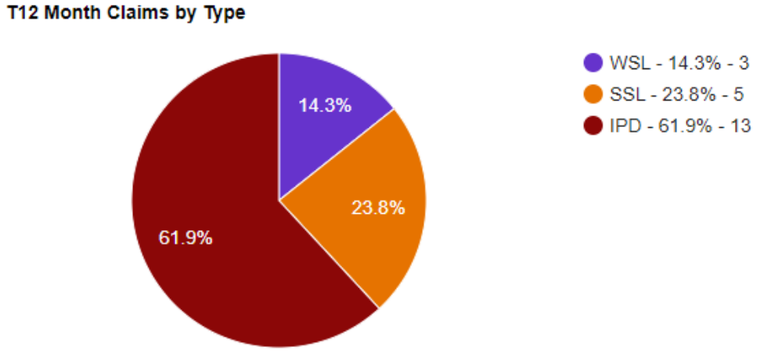
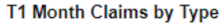
9/30/2022
10/31/2022
11/30/2022
Aggregated SL
SLA
Satisfaction

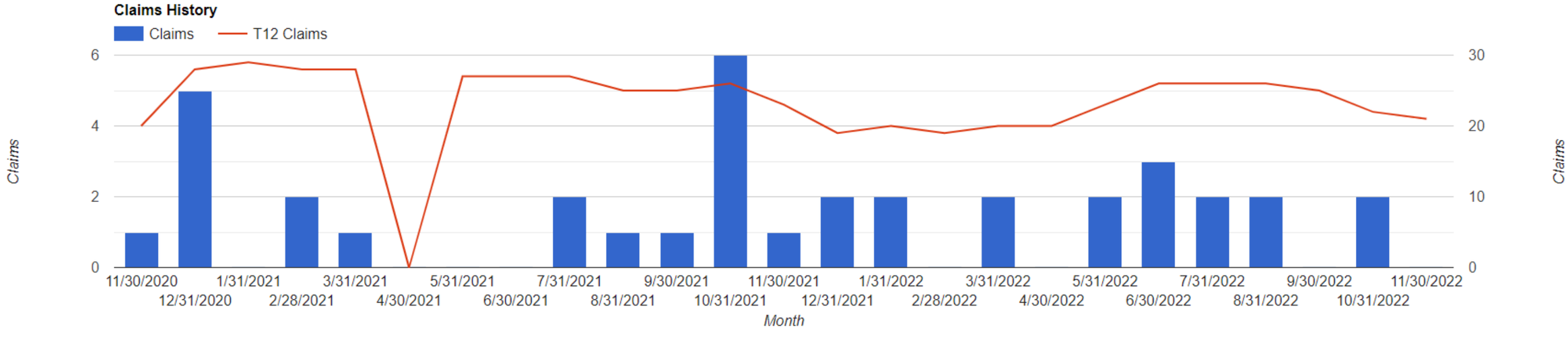

New v. Existing
New
Existing
0
200
400
600
Contracts


Rolling Complaints by Type


Complaints vs Claims
100%
Claims - 100.0% - 21


T12 Month Claims by Type
14.3%
23.8%
61.9%
WSL - 14.3% - 3
SSL - 23.8% - 5
IPD - 61.9% - 13


T1 Month Claims by Type


Claims History
Claims
T12 Claims
Claims
Claims
0
2
4
6
0
10
20
30
11/30/2020
12/31/2020
1/31/2021
2/28/2021
3/31/2021
4/30/2021
5/31/2021
6/30/2021
7/31/2021
8/31/2021
9/30/2021
10/31/2021
11/30/2021
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
Month

APPENDIX 4

WATER MAIN LEAK LOGS

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: VEOLIA Application Date: 11-2-22

Phone Number: 717-948-3055 Date of Opening: 11-2-22

Date of Completion: 11-2-22 Emergency: ___Yes X No

STREET OPENING PERMIT issued to: VEOLIA 453 S. LAWRENCE ST MIDDLETOWN PA 17057
NAME ADDRESS

for permission to excavate Borough streets abutting LINCOLN - HAMLIN in order to
STREET ADDRESS

make the following connection(s): WATER LEAK

Length 5' 7" ft Width 3 1/4 ft Depth 3 1/2 ft Total Square Feet_____

Distance from nearest Intersection 10 ft N(S)E/W Nearest Street Intersection HAMLIN

Provide Condition of Street GOOD Existing Paving Type MACADAM

Type of Material Disturbed: X Macadam; ___Concrete: X Gravel: _____Soil

Pavement less than five (5) years old _____Yes _____No Existing paving depth 3 in

Provide GPS coordinates for the shape of the proposed road cut on the following page. Photographs of completed work shall be provided to Middletown in JPEG format.

This permit is issued with the understanding that the provisions of Ordinance 1358 regulating openings and excavations in or under Borough Highways passed March 5, 2019 will be adhered to.

In consideration of the issuance of the permit applied for above, the undersigned, intending to be legally bound, agrees as follows:

1. To do all work authorized by the permit in accordance with all applicable ordinances, laws, rules, regulations, and orders, and to complete the work on or before the date set forth above, and to guarantee the work for a period of two (2) years from completion; to immediately repair same should the work become unsatisfactory within such two (2) year period

2. To well and truly save, defend and keep harmless, Middletown, its elected officials, other officers and employees from and indemnify it against any and all actions, suits, demands, payments, costs and charges (including reasonable attorneys and expert fees) for damages or injury occurring to any person or property through or in consequence of any act or omission of the undersigned, or the undersigned's, agent, servant, contractor, engaged in, about or upon said work by or at the instance of the undersigned from the failure of same to comply with the maintenance requirements of Middletown Streets and Sidewalks Ordinance.

Date: _____ Permittee: _____

_____

Date Application Approved by the Borough of Middletown _____

By: _____ Title: _____

Provide GPS coordinates for beginning point, point(s) of deflection, and end point

FOR BOROUGH USE ONLY
STREET OPENING INSPECTION REPORT

Inspection Report Information: _____

_____

_____

___Routine Visit ___Called by Contractor

Follow-up Action Report: _____

_____

_____

Comments: _____

_____

_____

Additional Charges (provide details): _____

_____

_____

Date and Time Opened: _____

Date and Time Closed: _____

Date of Inspection: _____ Time: _____

SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line _____Main _____Other

Population Affected: _____0_____

Address of leak: _____

Date and time department notified of leak: _____/_____/_____ _____ am / pm

Date / Time of arrival on scene: _____/_____/_____ _____ am / pm

Time pipe leak is exposed: _____ am / pm

Time repair started: _____ am / pm

Time repair finished: _____ am / pm

Method used for repair: _____

_____

Was there a loss of pressure or was line dewatered? _____ **Yes** __X__ **No**
Was this loss of pressure cause by a situation other than a main break? (Power outage, pump failure, etc.) _____**Yes** __X__ **No**
(If yes to both above questions, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)
Was there a loss of pressure due to a main break or repair that has a high risk of contamination or shows evidence of contamination? _____ **Yes** __X__ **No**
*(If **yes**, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)*
*(If **no**,, repairs must be made according to DEP C-651-05 Standards. If leak cannot be repaired by these standards and within 8 hours, notify DEP within (1) hour and issue Tier 1 PN within (24) hours)*

Bacteriological Sampling

Location_____ Time_____ am / pm

Laboratory _____ Time of submission _____am / pm

Chlorine Residual: _____mg/l

Coliform: negative ____ Positive ____ (If result is coliform positive, then repeat sampling and attach new log)

Date of results: _____/_____/_____

Date and time disinfectant residuals were detected: _____/_____/_____ _____ am / pm

---

Name _____ **Date** _____

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: _____

Location Segment number: _____

Pipe Material: _____

Pipe Size: 4"

Pipe Age: _____

Pipe Depth: 3 1/2

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: Water Leak

WORK PERFORMED: Fixed on 11-2-22 Nothing Found

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
11-2-22	M Tu (W) Th F	CH	2 1/2	RR	2 1/2	CK	3/4
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						

Vendor	Scheduled On-Site Start	Scope of Work	Invoiced?

Part Description	**Part #**	**Qty.**	Inventory (I)or Purchased (P)

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: Veolia Application Date: _____

Phone Number: 717 948-3055 Date of Opening: 11-01-22

Date of Completion: 11-01-22 Emergency: ___Yes X No

STREET OPENING PERMIT issued to: Sy Veolia 453 S. Lawrence St Middletown Pa 17057
NAME ADDRESS

for permission to excavate Borough streets abutting Ground - Market in order to
STREET ADDRESS

make the following connection(s): Water Leak

Length 7 ft Width 4 ft Depth 5 ft Total Square Feet _____

Distance from nearest Intersection 23 ft N/S/E/W Nearest Street Intersection Market ST

Provide Condition of Street Fair Existing Paving Type Black Top

Type of Material Disturbed: X Macadam; X Concrete: X Gravel: X Soil

Pavement less than five (5) years old X Yes _____No Existing paving depth 3 in

Provide GPS coordinates for the shape of the proposed road cut on the following page. Photographs of completed work shall be provided to Middletown in JPEG format.

This permit is issued with the understanding that the provisions of Ordinance 1358 regulating openings and excavations in or under Borough Highways passed March 5, 2019 will be adhered to.

In consideration of the issuance of the permit applied for above, the undersigned, intending to be legally bound, agrees as follows:

1. To do all work authorized by the permit in accordance with all applicable ordinances, laws, rules, regulations, and orders, and to complete the work on or before the date set forth above, and to guarantee the work for a period of two (2) years from completion; to immediately repair same should the work become unsatisfactory within such two (2) year period

2. To well and truly save, defend and keep harmless, Middletown, its elected officials, other officers and employees from and indemnify it against any and all actions, suits, demands, payments, costs and charges (including reasonable attorneys and expert fees) for damages or injury occurring to any person or property through or in consequence of any act or omission of the undersigned, or the undersigned's, agent, servant, contractor, engaged in, about or upon said work by or at the instance of the undersigned from the failure of same to comply with the maintenance requirements of Middletown Streets and Sidewalks Ordinance.

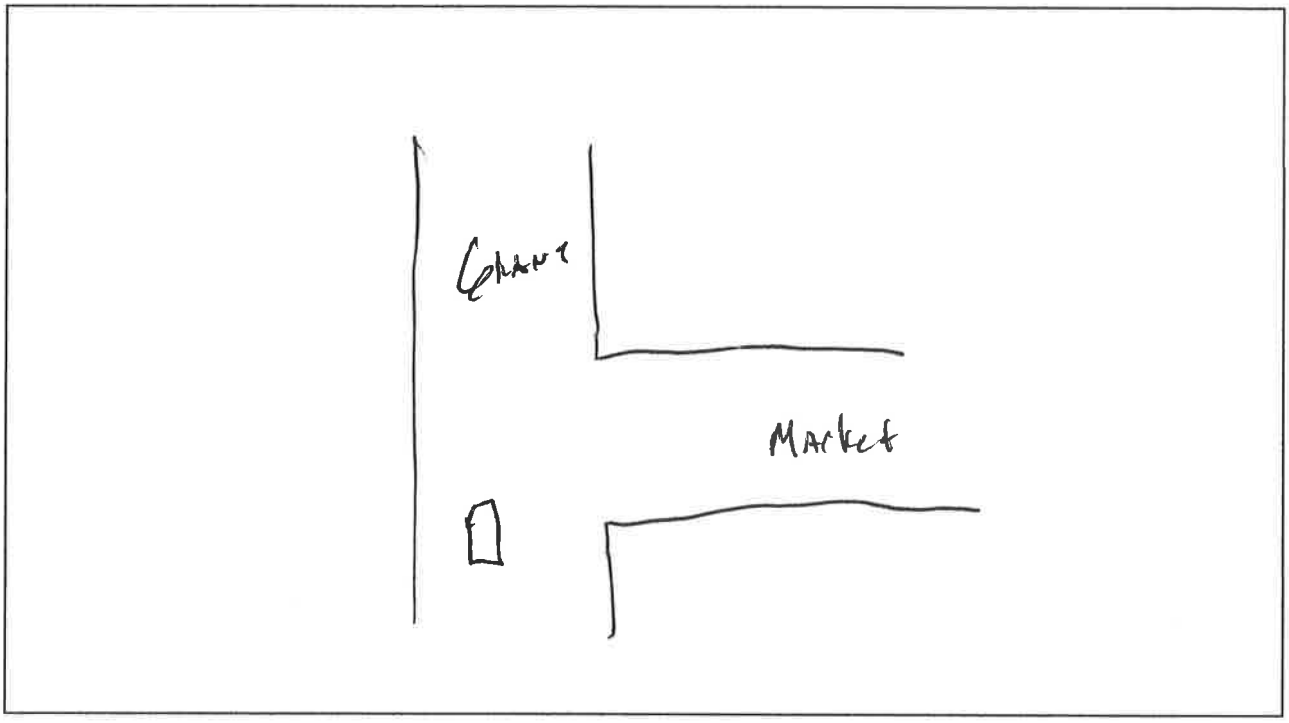
Date: _____ Permittee: _____

_____

Date Application Approved by the Borough of Middletown _____

By: _____ Title: _____

Provide GPS coordinates for beginning point, point(s) of deflection, and end point



FOR BOROUGH USE ONLY
STREET OPENING INSPECTION REPORT

Inspection Report Information: _____

_____

_____

___Routine Visit ___Called by Contractor

Follow-up Action Report: _____

_____

_____

Comments: _____

_____

_____

Additional Charges (provide details): _____

_____

_____

Date and Time Opened: _____

Date and Time Closed: _____

Date of Inspection: _____ Time: _____

9/27/2017

SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line __X__Main _____Other

Population Affected: ____0____

Address of leak: Grant & Market

Date and time department notified of leak: ____/____/____ _____ am / pm

Date / Time of arrival on scene: ____/____/____ _____ am / pm

Time pipe leak is exposed: _____ am / pm

Time repair started: _____ am / pm

Time repair finished: _____ am / pm

Method used for repair: 8" Full Circle Clamp

Was there a loss of pressure or was line dewatered? _____ **Yes** __X__ **No**
Was this loss of pressure cause by a situation other than a main break? (Power outage, pump failure, etc.) _____**Yes** __X__ **No**
(If yes to both above questions, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)
Was there a loss of pressure due to a main break or repair that has a high risk of contamination or shows evidence of contamination? _____ **Yes** __X__ **No**
*(If **yes**, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)*
*(If **no**,, repairs must be made according to DEP C-651-05 Standards. If leak cannot be repaired by these standards and within 8 hours, notify DEP within (1) hour and issue Tier 1 PN within (24) hours)*

Bacteriological Sampling

Location_____ Time_____ am / pm

Laboratory _____ Time of submission _____am / pm

Chlorine Residual: _____mg/l

Coliform: negative ____ Positive ____ (If result is coliform positive, then repeat sampling and attach new log)

Date of results: _____/_____/_____

Date and time disinfectant residuals were detected: _____/_____/_____ _____ am / pm

---

Name _____ **Date** _____

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: _____

Location Segment number: _____

Pipe Material: CAST

Pipe Size: 8"

Pipe Age: old

Pipe Depth: 5'

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: Water Leak

WORK PERFORMED: Fixed on 11-1-22

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
11-1-22	M (Tu) W Th F	CH	5 1/2	RA	6	CK	6
11-1-22	M (Tu) W Th F	MB	1 1/2				
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						

Vendor	Scheduled On-Site Start	Scope of Work	Invoiced?

Part Description	Part #	Qty.	Inventory (I)or Purchased (P)
8" Full Circle Band		1	I

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: C VEOLIA Application Date: 11-9-22

Phone Number: 717-948-3055 Date of Opening: 11-9-22

Date of Completion: 11-9-22 Emergency: ___Yes X No

STREET OPENING PERMIT issued to: VEOLIA 453 S. LAWRENCE ST MDT 17057
NAME ADDRESS

for permission to excavate Borough streets abutting Cypress & Aspen in order to
STREET ADDRESS

make the following connection(s): WATER LEAK

Length 13' 12' ft Width 6' 5' ft Depth_____ft Total Square Feet_____

Distance from nearest Intersection 0 ft N/S/E/W Nearest Street Intersection Aspen

Provide Condition of Street BAD Existing Paving Type Black-Top

Type of Material Disturbed: X Macadam; ___Concrete: X Gravel: X Soil

Pavement less than five (5) years old ____Yes X No Existing paving depth 1-2" in

Provide GPS coordinates for the shape of the proposed road cut on the following page. Photographs of completed work shall be provided to Middletown in JPEG format.

This permit is issued with the understanding that the provisions of Ordinance 1358 regulating openings and excavations in or under Borough Highways passed March 5, 2019 will be adhered to.

In consideration of the issuance of the permit applied for above, the undersigned, intending to be legally bound, agrees as follows:

1. To do all work authorized by the permit in accordance with all applicable ordinances, laws, rules, regulations, and orders, and to complete the work on or before the date set forth above, and to guarantee the work for a period of two (2) years from completion; to immediately repair same should the work become unsatisfactory within such two (2) year period

2. To well and truly save, defend and keep harmless, Middletown, its elected officials, other officers and employees from and indemnify it against any and all actions, suits, demands, payments, costs and charges (including reasonable attorneys and expert fees) for damages or injury occurring to any person or property through or in consequence of any act or omission of the undersigned, or the undersigned's, agent, servant, contractor, engaged in, about or upon said work by or at the instance of the undersigned from the failure of same to comply with the maintenance requirements of Middletown Streets and Sidewalks Ordinance.

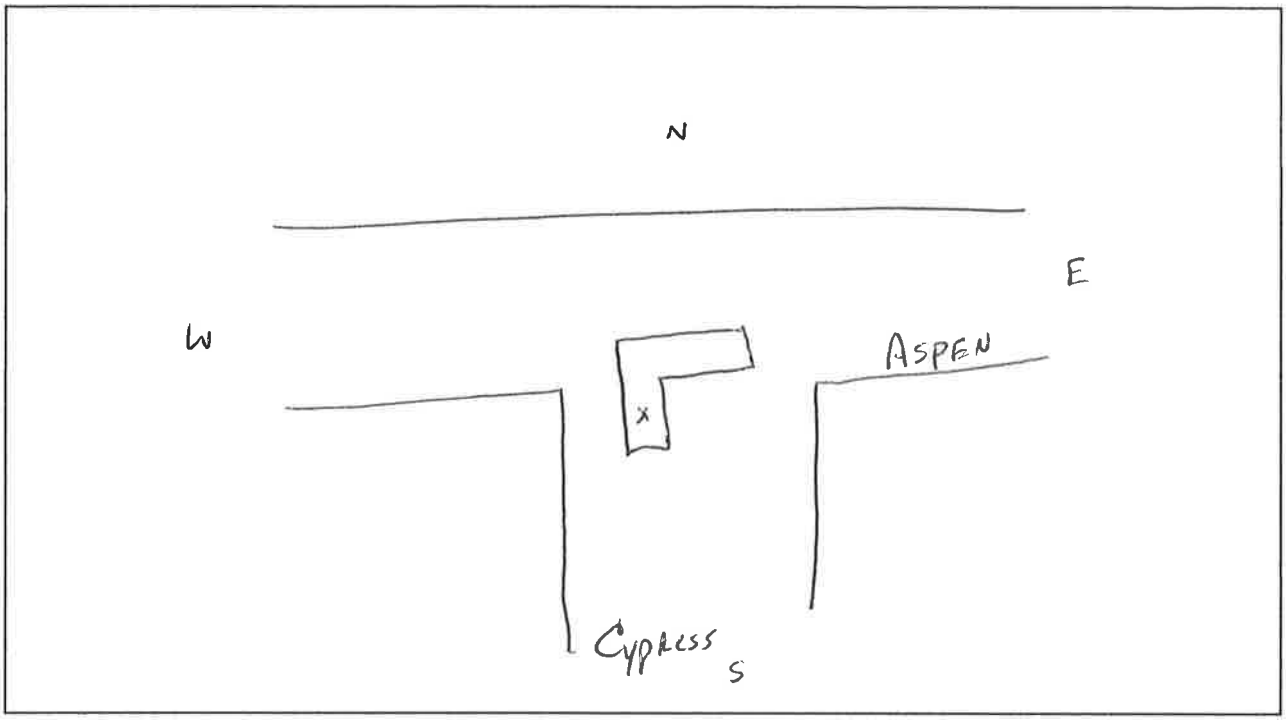
Date: _____ Permittee:_____

_____

Date Application Approved by the Borough of Middletown _____

By:_____ Title:_____

Provide GPS coordinates for beginning point, point(s) of deflection, and end point



FOR BOROUGH USE ONLY
STREET OPENING INSPECTION REPORT

Inspection Report Information: _____

_____

_____

___Routine Visit ___Called by Contractor

Follow-up Action Report: _____

_____

_____

Comments: _____

_____

_____

Additional Charges (provide details): _____

_____

_____

Date and Time Opened: _____

Date and Time Closed: _____

Date of Inspection: _____ Time: _____

9/27/2017

SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line __X__Main _____Other

Population Affected: ____0____

Address of leak: Cypress & Aspen

Date and time department notified of leak: _____/_____/_____ _____ am / pm

Date / Time of arrival on scene: _____/_____/_____ _____ am / pm

Time pipe leak is exposed: _____ am / pm

Time repair started: _____ am / pm

Time repair finished: _____ am / pm

Method used for repair: 6" Repair Clamp Full Circle

_____

Was there a loss of pressure or was line dewatered? _____ **Yes** __X__ **No**
Was this loss of pressure cause by a situation other than a main break? (Power outage, pump failure, etc.) _____**Yes** __X__ **No**
(If yes to both above questions, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)
Was there a loss of pressure due to a main break or repair that has a high risk of contamination or shows evidence of contamination? _____ **Yes** __X__ **No**
*(If **yes**, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)*
*(If **no**,, repairs must be made according to DEP C-651-05 Standards. If leak cannot be repaired by these standards and within 8 hours, notify DEP within (1) hour and issue Tier 1 PN within (24) hours)*

Bacteriological Sampling

Location_____ Time_____ am / pm

Laboratory _____ Time of submission _____am / pm

Chlorine Residual: _____mg/l

Coliform: negative ____ Positive ____ (If result is coliform positive, then repeat sampling and attach new log)

Date of results: _____/_____/_____

Date and time disinfectant residuals were detected: _____/_____/_____ _____ am / pm

---

Name _____ **Date** _____

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: _____

Location Segment number: _____

Pipe Material: CAST

Pipe Size: 6"

Pipe Age: _____

Pipe Depth: _____

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: WATER LEAK

WORK PERFORMED: GREG CAME BACK OUT & LOCATE LEAK FOUND ON CYPRESS DUG UP INSTALL 6" REPAIR CLAMP

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
11-9-22	M Tu (W) Th F	CH	5 1/2	CK	5 1/2	MB	2 5 1/2
11-9-22	M Tu (W) Th F	CK	2 5 1/2				
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						

Vendor	Scheduled On-Site Start	Scope of Work	Invoiced?

Part Description	Part #	Qty.	Inventory (I)or Purchased (P)
6" Full Crack Repair Clamp		1	I

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: _____

Location Segment number: _____

Pipe Material: Galvanized

Pipe Size: 2"

Pipe Age: OLD

Pipe Depth: 3

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: Water Leak

WORK PERFORMED: Cut out 42" of Bad pipe. Replace with 2" Copper
Found another leak Install another Repair Clamp

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
11-3-22	M Tu W (Th) F	CH	4½	RA	4½	RA	4½
11-3-22	M Tu W Th F	CK	4½				
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						
	M Tu W Th F						

Vendor	Scheduled On-Site Start	Scope of Work	Invoiced?

Part Description	Part #	Qty.	Inventory (I)or Purchased (P)
10' 2" Copper			P
2" x 12" Repair Clamp Full Circle		1	I

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: Veolia Application Date: 11-3-22

Phone Number: 717-948-3055 Date of Opening: 11-3-22

Date of Completion: 11-3-22 Emergency: ___Yes X No

STREET OPENING PERMIT issued to: Veolia 453 S. Lawrence St 17057
NAME ADDRESS

for permission to excavate Borough streets abutting 53 Peters Ave in order to
STREET ADDRESS

make the following connection(s): Water Leak

Length 13 ft Width 7 ft Depth 4 ft Total Square Feet_____

Distance from nearest Intersection 53 ft N/S/E/W Nearest Street Intersection N Penn St

Provide Condition of Street OK Existing Paving Type Black-Top

Type of Material Disturbed: X Macadam; ___Concrete: X Gravel: X Soil

Pavement less than five (5) years old ____Yes _____No Existing paving depth 3 in

Provide GPS coordinates for the shape of the proposed road cut on the following page. Photographs of completed work shall be provided to Middletown in JPEG format.

This permit is issued with the understanding that the provisions of Ordinance 1358 regulating openings and excavations in or under Borough Highways passed March 5, 2019 will be adhered to.

In consideration of the issuance of the permit applied for above, the undersigned, intending to be legally bound, agrees as follows:

1. To do all work authorized by the permit in accordance with all applicable ordinances, laws, rules, regulations, and orders, and to complete the work on or before the date set forth above, and to guarantee the work for a period of two (2) years from completion; to immediately repair same should the work become unsatisfactory within such two (2) year period

2. To well and truly save, defend and keep harmless, Middletown, its elected officials, other officers and employees from and indemnify it against any and all actions, suits, demands, payments, costs and charges (including reasonable attorneys and expert fees) for damages or injury occurring to any person or property through or in consequence of any act or omission of the undersigned, or the undersigned's, agent, servant, contractor, engaged in, about or upon said work by or at the instance of the undersigned from the failure of same to comply with the maintenance requirements of Middletown Streets and Sidewalks Ordinance.

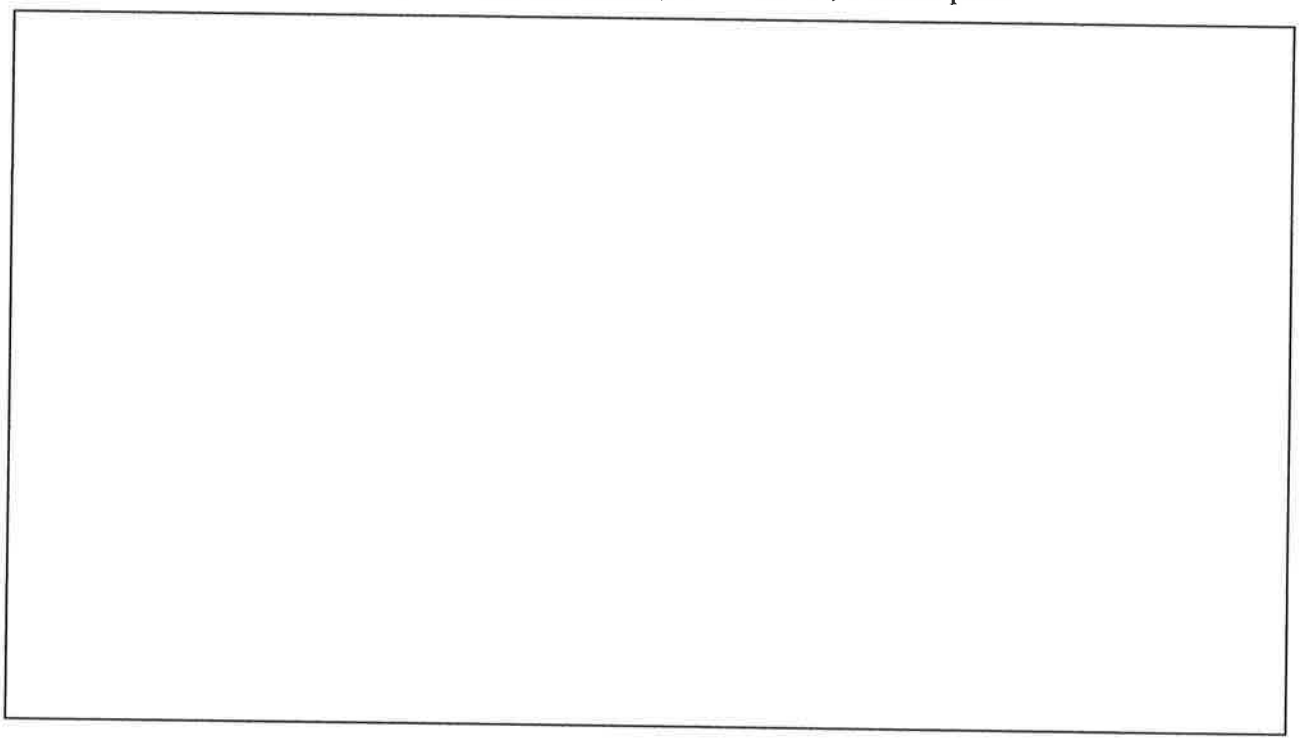
Date: _____ Permittee: _____

_____

Date Application Approved by the Borough of Middletown _____

By: _____ Title: _____

Provide GPS coordinates for beginning point, point(s) of deflection, and end point



FOR BOROUGH USE ONLY
STREET OPENING INSPECTION REPORT

Inspection Report Information: _____

_____

_____

___Routine Visit ___Called by Contractor

Follow-up Action Report: _____

_____

_____

Comments: _____

_____

_____

Additional Charges (provide details): _____

_____

_____

Date and Time Opened: _____

Date and Time Closed: _____

Date of Inspection: _____ Time: _____

SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line __X__Main _____Other

Population Affected: 2 Homes

Address of leak: 53 Peters Ave

Date and time department notified of leak: ____/____/____ _____ am / pm

Date / Time of arrival on scene: ____/____/____ _____ am / pm

Time pipe leak is exposed: _____ am / pm

Time repair started: _____ am / pm

Time repair finished: _____ am / pm

Method used for repair: 62" 2" Copper 1 12"x2 Repair Clamp

Was there a loss of pressure or was line dewatered? _____ **Yes** __X__ **No**
Was this loss of pressure cause by a situation other than a main break? (Power outage, pump failure, etc.) _____**Yes** __X__ **No**
(If yes to both above questions, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)
Was there a loss of pressure due to a main break or repair that has a high risk of contamination or shows evidence of contamination? _____ **Yes** __X__ **No**
*(If **yes**, notify DEP at 717-705-4751 or 1-877-333-1904 within one (1) hour and issue a BWA as soon as possible, but no later than 24 hours. The line should be flushed, disinfected with 300 mg/l free chlorine for 15 minutes, flushed, and a bacteriological sample taken.)*
*(If **no**,, repairs must be made according to DEP C-651-05 Standards. If leak cannot be repaired by these standards and within 8 hours, notify DEP within (1) hour and issue Tier 1 PN within (24) hours)*

Bacteriological Sampling

Location_____ Time_____ am / pm

Laboratory _____ Time of submission _____am / pm

Chlorine Residual: _____mg/l

Coliform: negative ____ Positive ____ (If result is coliform positive, then repeat sampling and attach new log)

Date of results: _____/_____/_____

Date and time disinfectant residuals were detected: _____/_____/_____ _____ am / pm

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Name _____ **Date** _____

APPENDIX 5

QUARTERLY METER TEST AND CALIBRATION REPORTS

APPENDIX 6