Veolia MIDDLETOWN
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Middletown, PA 17057
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March 31, 2023

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RE: Transmittal of Veolia Middletown Operations Report February 2023

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

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

Sincerely,

Kodi Webb

Kodi Webb
Project Manager
Veolia Middletown

cc: Michael Winfield
Jason Kiernan
Ken Bonn
William Stanton

MIDDLETOWN WATER & WASTEWATER OPERATIONS REPORT

FEBRUARY 2023

EXECUTIVE SUMMARY

This report covers the monthly period of February 1, 2023 through February 28, 2023.

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

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

Operations and Maintenance

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

Significant operational and maintenance accomplishments for the reporting period include:

- Continue weekly monitoring of the petroleum substance entering the outfall pipe after the WWTP effluent. Short-term mitigation efforts are minimizing the discharge until a long-term plan is approved.
- Continue use of the HachWIMS application for process and regulatory data management and to optimize meeting reporting requirements.
- 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.
- Repaired leaks at 1038 Pine St and 107 Catalpa St.
- Repaired sewer lateral at 628 Briarcliff Rd.

Regulatory Compliance

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

- NOV was issued by DEP on 3/1/21
  - Verbal consult with the Department (30 Day)- Due by 3/31/21 - **Completed**
  - Respond in writing (45 Day)– Due by 4/15/21 - **Submitted**
  - Complete corrective actions (120 Day)– Due by 6/29/21 –**Extended by DEP**
    - PA DEP did not provide an updated deadline, but wants to see continued progress with the project.
- Required upgrades to fluoride feed systems at all wells which will require a separate permit amendment filed with PA DEP for each. – Well #4 **Permit Approved 6/25/21**
  - Only Well #4 will be held to the 120 day timeline since permits are required for each well
  - VEOLIA will not delay working with HRG and DEP to get all locations permitted and completed in a timely manner.
- Equipment for upgrade
  - HRG to identify best pumps and equipment for this application.
  - Well pump #4, replacement in progress
    - 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

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

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.
- Implemented 2023 rate increase in accordance with Middletown Water Annual Recovery Report
- The meter reading cycle for water consumption in December was successfully completed on February 24, 2023. Restarted the Delinquent Notification and Shut-Off Program which was previously suspended due to COVID-19
  - Sent 237, 10 day shut-off notices to accounts that were $50 past due for the January 2023 billing period
  - Posted 53 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.

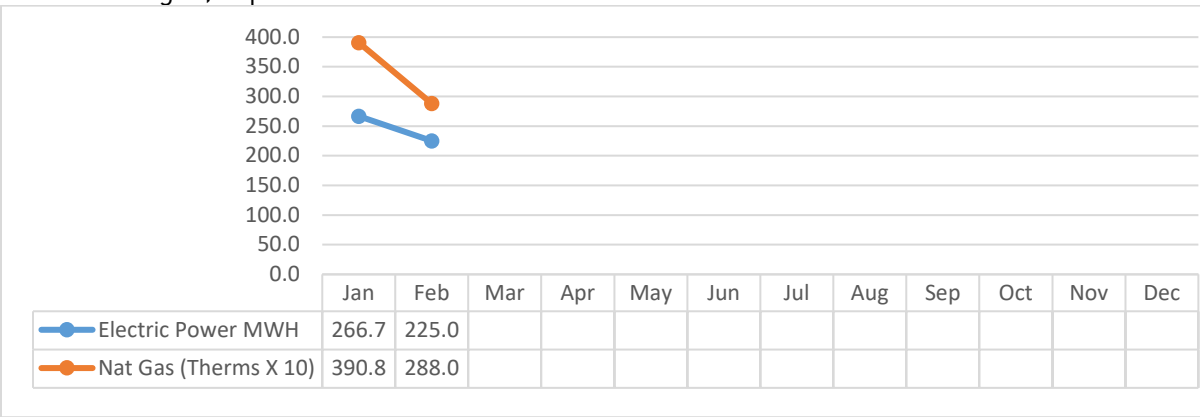
Quality Control Reporting

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	266.7	225.0										
Nat Gas (Therms X 10)	390.8	288.0										

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

Energy Efficiency Initiatives

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

Sustainability

Middletown received a score of 91 for the GRESB Report submitted in 2022, which was an increase of ten points from 2021. Objectives will be developed to support biodiversity and sustainability initiatives.

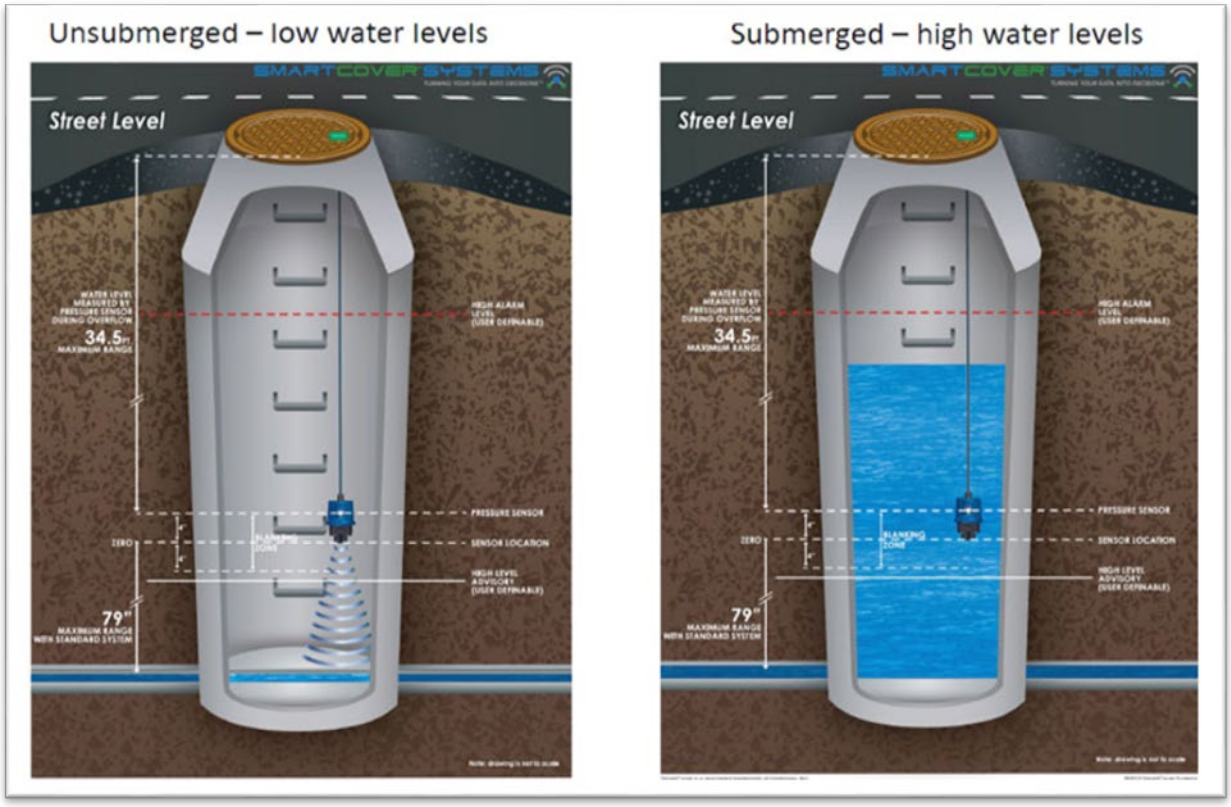
Water System and Wastewater Treatment Plant Maintenance

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

System	Equipment	Process Location	Date Off Line	Reason for Taking Off Line	Date Returned to Service
Water	Well Pump	Well 4	2/26/21	Pump Failure	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	Mixer	Ox Ditch 2	11/17/22	Sensor Failure	In Progress
WWTP	Influent Screen	Wet Well	1/13/23	Mechanical Failure	In Progress

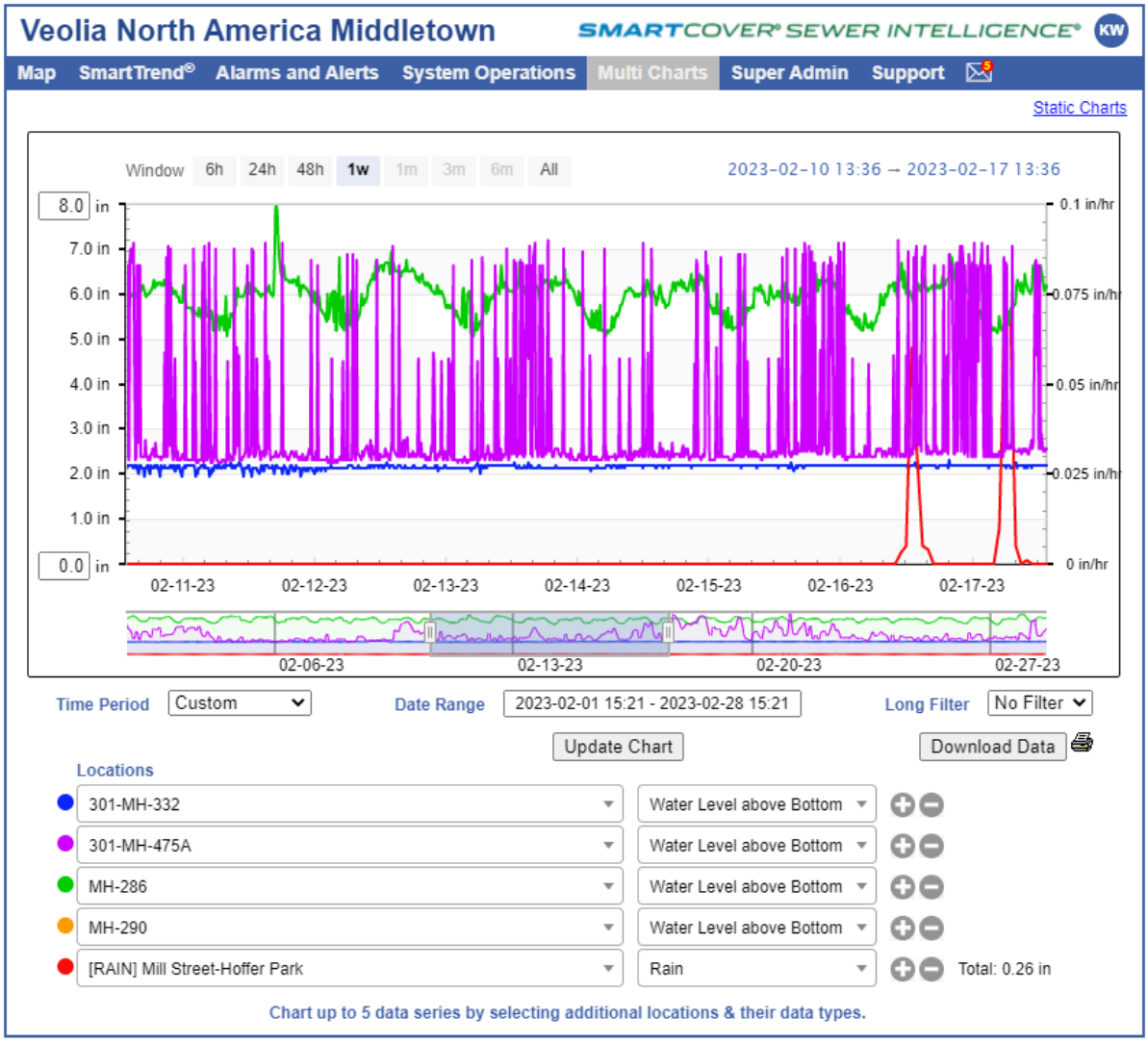
Sanitary Sewer System

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".


Veolia North America Middletown
SMARTCOVER® SEWER INTELLIGENCE®
Map
SmartTrend®
Alarms and Alerts
System Operations
Multi Charts
Super Admin
Support
Static Charts
Window
6h
24h
48h
1w
1m
3m
6m
All
2023-02-10 13:36 → 2023-02-17 13:36
8.0 in
7.0 in
6.0 in
5.0 in
4.0 in
3.0 in
2.0 in
1.0 in
0.0 in
0.1 in/hr
0.075 in/hr
0.05 in/hr
0.025 in/hr
0 in/hr
02-11-23
02-12-23
02-13-23
02-14-23
02-15-23
02-16-23
02-17-23
02-06-23
02-13-23
02-20-23
02-27-23
Time Period
Custom
Date Range
2023-02-01 15:21 - 2023-02-28 15:21
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: 0.26 in
Chart up to 5 data series by selecting additional locations & their data types.

Key Performance Indicators

Project Status Snapshot

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

KPI	Hydrants Inspected	Main Valves Exercised	Ft Wastewater Mains Cleaned	Ft Water System Leak Detection
Last	0	0	0	0
Current	0	0	0	0
YTD	0	0	0	0

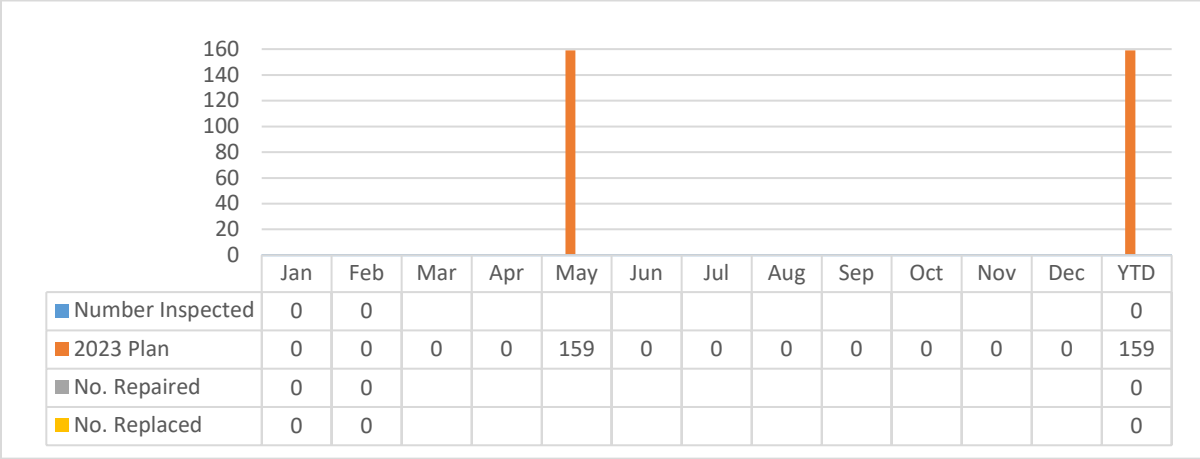
On Target – Good Work	Caution	Significantly Behind Goal

KPI Comments

- Water Loss: Identifying and reducing the system water loss has been a key focus for Veolia. In an effort to identify and resolve the sources of water loss, continue to (1) verify the accuracy of the billing system reports, (2) verify the production meter accuracy at each well site based on review of the quarterly calibration records, (3) test a representative sampling of meters/MIU's to ensure the integrity of the data being downloaded to the billing system and verify the accuracy of residential meters. We continue to identify and, when found, repair water leaks throughout the system. In addition, following AWWA guidelines and standards, VEOLIA has identified and is in the process of testing and replacing 10% of the systems small meters, starting with the oldest meters.
- Water Main Valves Exercised: A comprehensive condition assessment program was part of the development of the asset management program. The program includes valve identification and location, condition assessment, exercising, determining the number and direction of turns, etc. Identifiers are being created using GIS data that was collected during the first phase of the project. Valves that have been identified in need of repair or replacement will be scheduled for repair or replacement over time based on operational priority of the valve.
- Hydrants inspected and maintained: The hydrant inspection and preventative maintenance program will be completed in conjunction with the annual water main and hydrant flushing program.

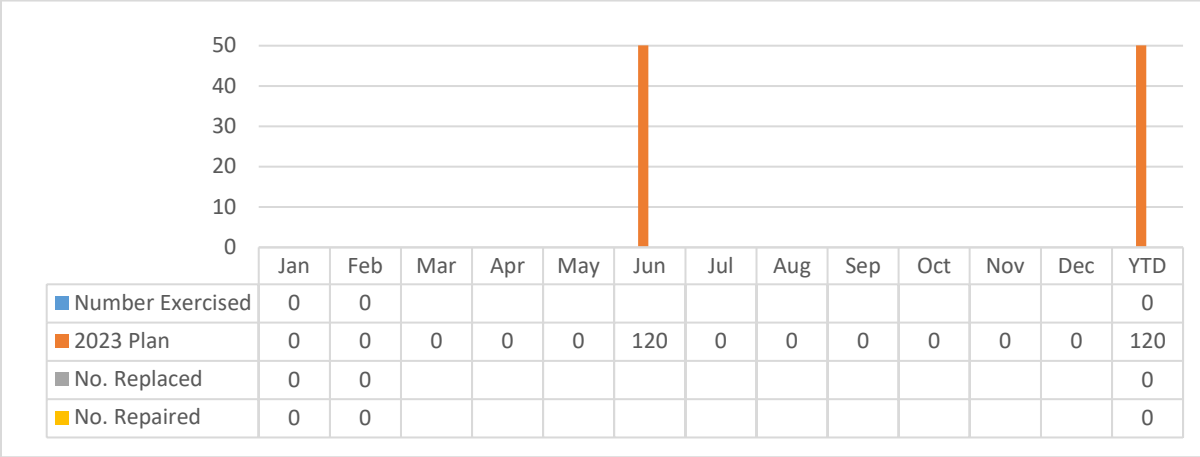
- Sanitary Mains Cleaned/CCTV Inspected: The 2022 jetting requirement was completed in January 2023. The CCTV work will be completed by contractors shortly.

Hydrants Inspected, Tested and Flushed



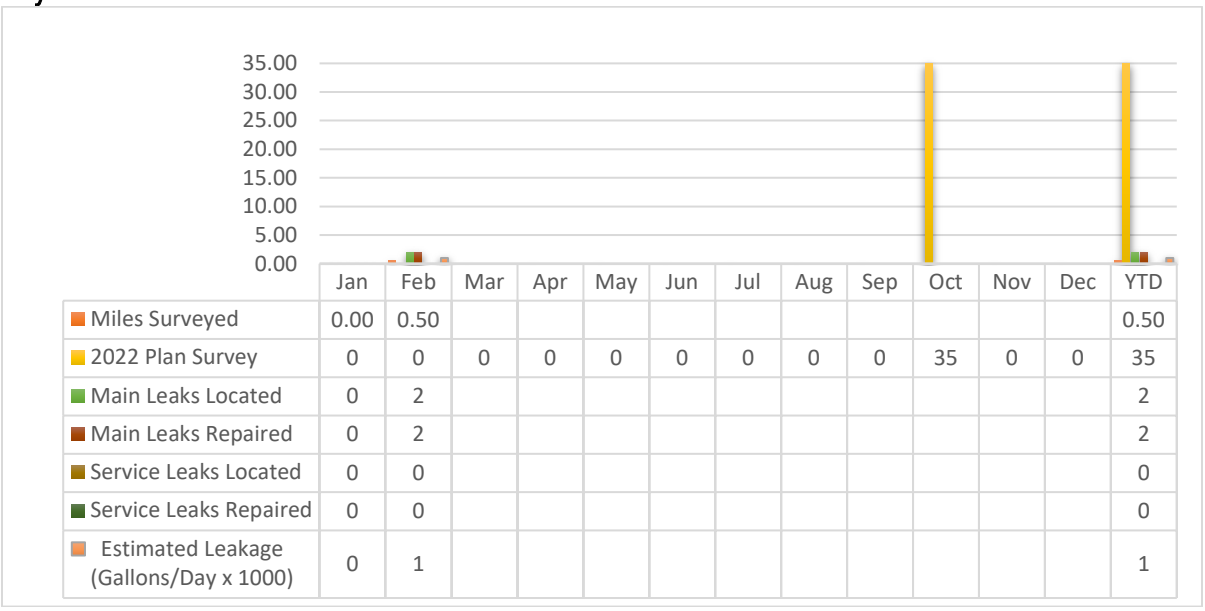
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Inspected	0	0											0
2023 Plan	0	0	0	0	159	0	0	0	0	0	0	0	159
No. Repaired	0	0											0
No. Replaced	0	0											0

Water Main Valves Exercised



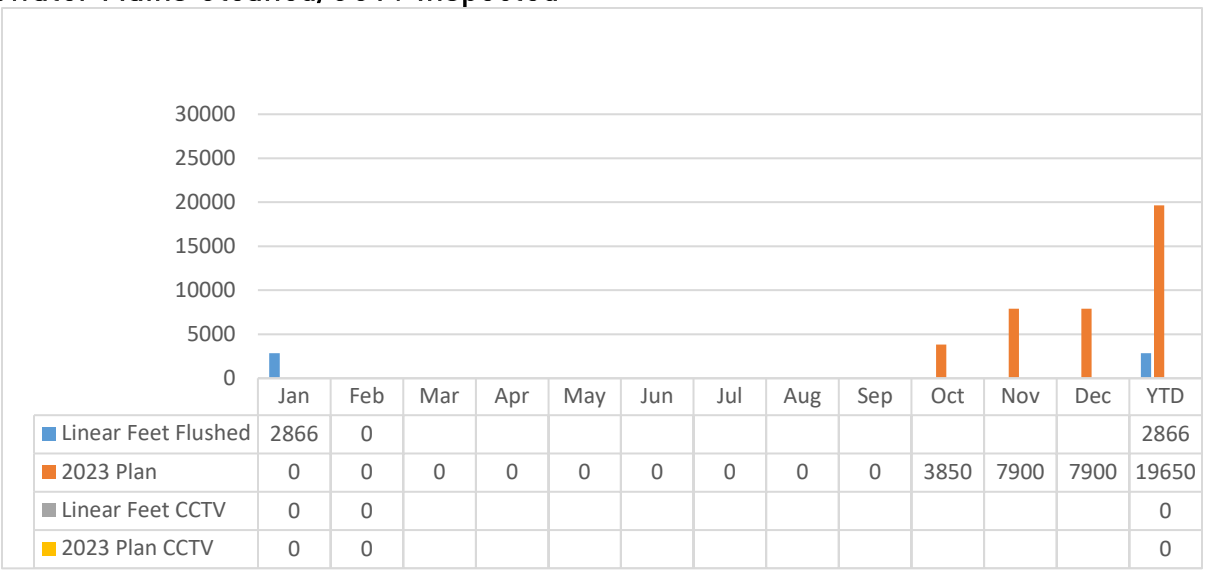
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Exercised	0	0											0
2023 Plan	0	0	0	0	0	120	0	0	0	0	0	0	120
No. Replaced	0	0											0
No. Repaired	0	0											0

Water System Leak Detection



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

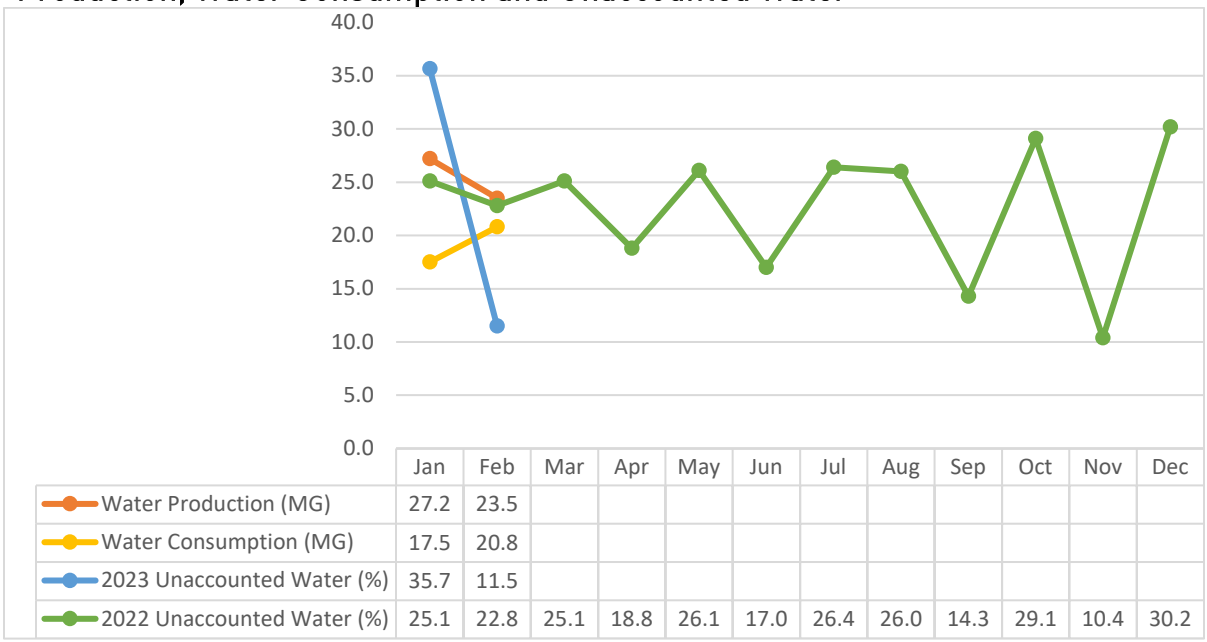
Wastewater Mains Cleaned/CCTV Inspected



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Linear Feet Flushed	2866	0											2866
2023 Plan	0	0	0	0	0	0	0	0	0	3850	7900	7900	19650
Linear Feet CCTV	0	0											0
2023 Plan CCTV	0	0											0

Approximately 2,800 feet of CCTV remaining from 2022 was completed in January 2023.

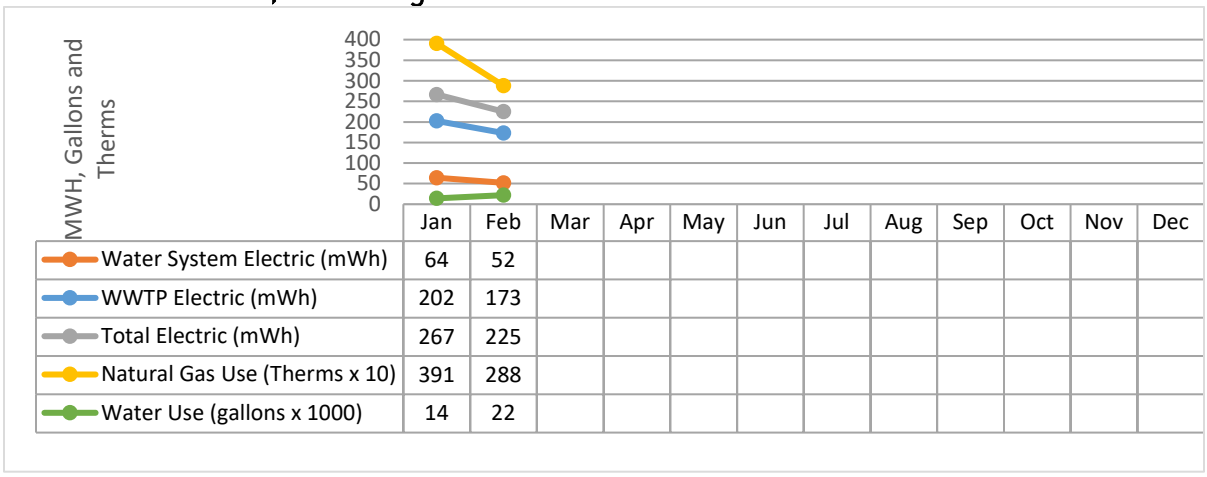
Water Production, Water Consumption and Unaccounted Water



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Production (MG)	27.2	23.5										
Water Consumption (MG)	17.5	20.8										
2023 Unaccounted Water (%)	35.7	11.5										
2022 Unaccounted Water (%)	25.1	22.8	25.1	18.8	26.1	17.0	26.4	26.0	14.3	29.1	10.4	30.2

Unaccounted for water calculation does not include unmetered, estimated flows used for firefighting, training and system maintenance and flushing activities. This is a nominal amount equating to approximately 1% to 2% of the unaccounted water volume. Veolia is investigating the unaccounted for water fluctuations.
Refilling the High St tank in January likely contributed to the higher than average unaccounted for water pergencage.

Utilities: Electric Power, Natural gas & Potable Water Use



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water System Electric (mWh)	64	52										
WWTP Electric (mWh)	202	173										
Total Electric (mWh)	267	225										
Natural Gas Use (Therms x 10)	391	288										
Water Use (gallons x 1000)	14	22										

Process Chemicals: Water and WWTP Treatment

Chemical	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hypochlorite (Water)	gal	253	212											
Hydroflurosilic Acid	lbs	305	265											
Alum	gal	35	37											
Thickening Polymer	gal	55	64											
Dewatering Polymer	gal	129	160											
Chlorine (WWTP)	lbs	404	329											
Lime	lbs	5628	2743											

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

Meter Testing Summary

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

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.
- Complete annual sewer jetting.
- Replace pH probe in SNDR.
- Replace mixer, rubber, and bolts on Oxidation Ditch 2.
- Implement Neptune 360 upgrade.

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 February with a total of 724 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 2023 rate increase has been implemented in accordance with Middletown Water Annual Recovery Report.

The release of bill files for printing and mailing this month occurred in 2 day with bills for services provided January being mailed to customers on February 27th, 2023.
The average gross monthly collection rate for February was 86.8% and 102.24% 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 24 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 February was 61. 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 390 who have enrolled in the Auto Pay program.

Customer Service: Calls by Type

Rates	0	11											11	9	30
Complaints	0	0											0	0	1
Sewer	0	2											2	6	12
Leaks	3	2											5	15	11
No/Low Water Pressure	0	1											1	8	6
Copy Of Bill	3	4											7	101	2
Correct. Bills	0	0											0	0	0
Mtr Change Out	0	0											0	0	1
Customer Correspondance	61	29											90	763	922
Discolored/Water Quality	0	1											1	1	0
Calls Referred to SUEZ Hbg	33	17											50	414	439
Calls from City / Other Org	0	0											0	0	1
Compliments	0	0											0	1	18
2023 TOTALS	**899**	753	0	0	0	0	0	0	0	0	0	0	**1652**		
2022 TOTALS	**1005**	920	966	915	972	955	902	905	818	933	814	794		**10899**	
2021 TOTALS	**697**	**659**	**779**	**759**	**726**	**772**	**719**	**781**	**803**	**866**	**799**	**714**			**9074**
2020 TOTALS	**723**	**667**	**669**	**650**	**601**	**675**	**643**	**613**	**724**	**721**	**594**	**641**			
2019 TOTALS	**613**	**610**	**584**	**575**	**628**	**640**	**700**	**677**	**673**	**674**	**660**	**619**			
2018 TOTALS	***566***	***504***	***644***	***535***	***595***	***645***	***785***	***649***	***531***	***608***	***529***	***569***			

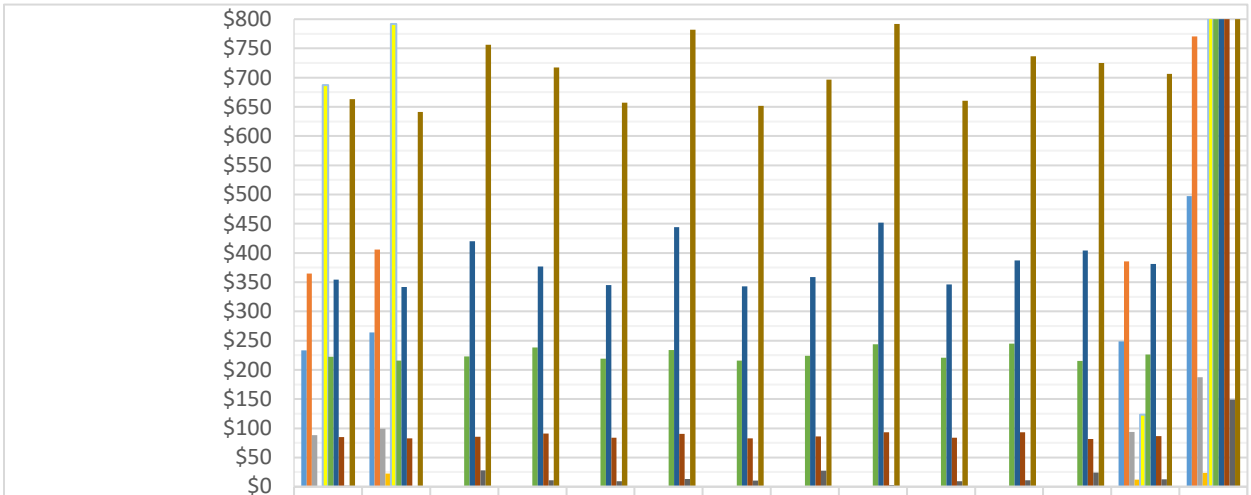
Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

Customer Service: Billing

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

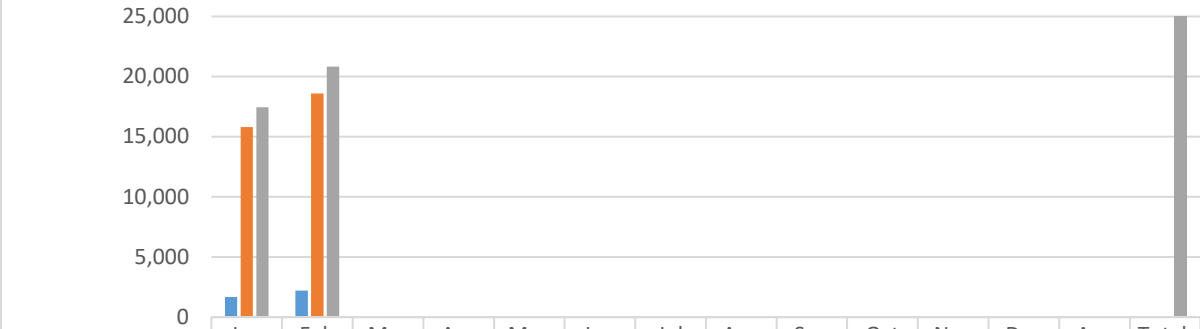
* Neptune is the meter manufacturer

Dollars Billed - Water and Sewer (dollars X1000)



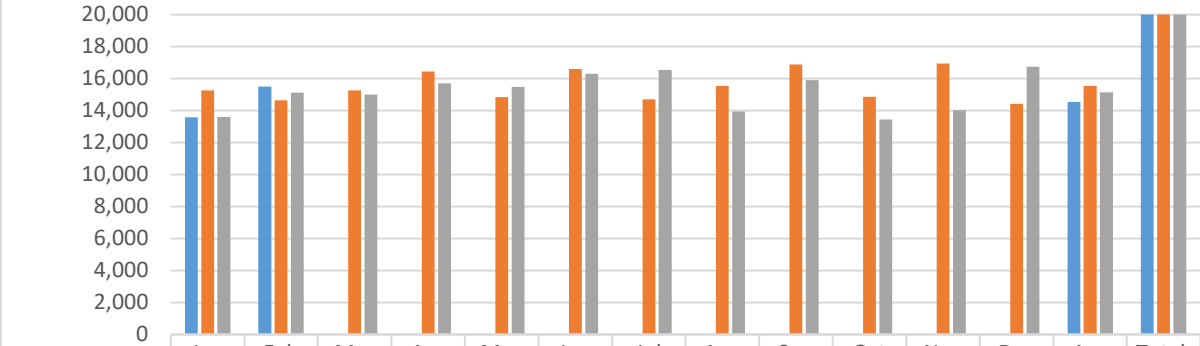
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	YTD
2023 Water Billed	233	264											248.6	497.1
2023 Sewer Billed	365	406											385.4	770.7
2023 Surcharge Billed	88.3	99											93.7	187.3
2023 Other Revenue	1	22.7											11.9	23.7
2023 Total Billed	687.1	791.7	0	0	0	0	0	0	0	0	0	0	123.2	1,478.
2022 Water Billed2	222.2	216.0	223.0	238.0	219.0	234.0	216.0	224.0	244.0	221.0	245.0	215.0	226.4	2,717.
2022 Sewer Billed3	354.3	342.0	420.0	377.0	345.0	444.0	343.0	359.0	452.0	346.0	387.0	404.0	381.1	4,573.
2022 Surcharge Billed4	85.2	82.7	85.4	91.1	83.7	90.4	82.5	86.2	93.2	84.1	93.4	81.7	86.6	1,039.
2022 Other Revenue5	1.7	0.4	28.1	11.1	9.3	13.4	10.3	27.2	2.7	9.5	11.1	24.1	12.4	148.9
2021 Total Billed6	663.3	641.1	756.5	717.2	657.0	781.8	651.8	696.4	791.9	660.6	736.5	724.8	706.6	8,478.

Water Sales - Monthly Consumption (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
Municipal Bulk	1,669	2,218												
Retail	15,791	18,601												
Total	17,460	20,819	0	0	0	0	0	0	0	0	0	0	0	38,279

Sewer Sales – Monthly (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
2023 Total	13,584	15,506											14,545	29,090
2022 Total	15,270	14,643	15,257	16,441	14,840	16,604	14,700	15,546	16,885	14,873	16,937	14,429	15,535	186,42
2021 Total	13,609	15,130	15,008	15,697	15,487	16,309	16,554	13,952	15,907	13,436	14,028	16,736	15,154	181,85

Collections (dollars X 1000)

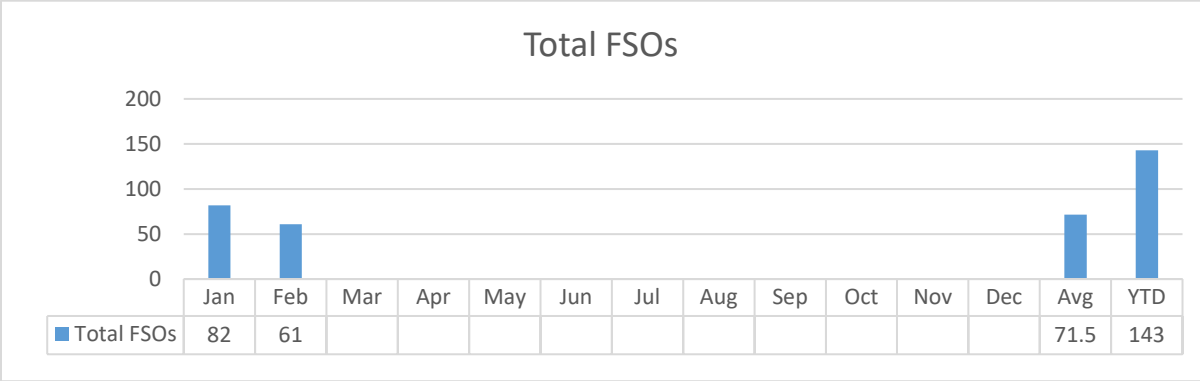
Collections on payment for water and sewer services occurred during the current month and are displayed on the graph below.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Total Billed	686	770											1,456
Total Collected	744	674											1,418
AR	841	962											1,803

Accounts & Meters

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Active Accounts	2,723	2,730											2,727
Net New Accounts	9	11											10
Total MIUs	2,750	2,749											2,750
Inactive Meters	24	24											24
% Meter Re-reads	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
Unplanned	0	0											0	0	0	0	0
2023 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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
Discolored	0	1											1	0	0	0	1
Boil Water Notices	0	0											0	0	0	0	0
2023	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

The discolored water call was in regard to the capital project.

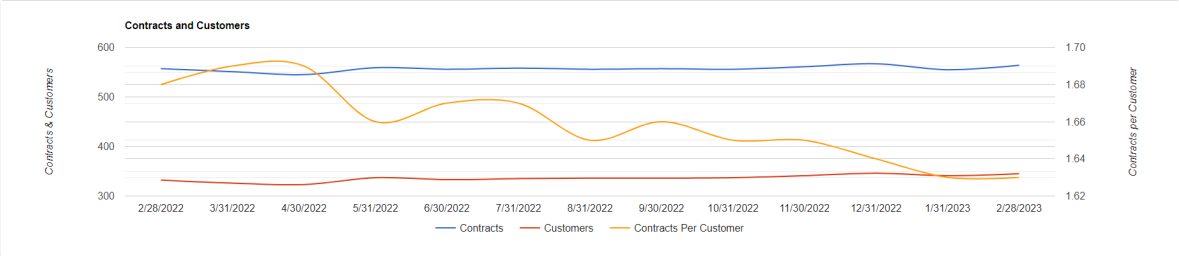
Sewer and Collection Issues

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	2											2	0	0	0	2
Odor	0	0											0	0	0	0	0
2023 TOTAL	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
2022 TOTAL	0	0	0	0	0	0	0	4	2	1	2	1	0	0	6	4	10

Home Serve USA



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

Next Month Customer Service Priorities

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

Water Sales Test Period

Water Sales Test Period No. 3 1/1/2021 to 12/31/2023	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Avg
Total consumption for the month (gallons)	2021	16,984,200	19,701,800	19,964,700	20,521,000	20,409,700	20,950,100	20,557,500	17,545,400	20,495,500	17,656,500	18,017,900	21,191,200	233,995,500	19,499,625
	2022	19,111,100	18,317,500	19,119,800	20,815,300	18,711,600	20,471,200	18,402,600	19,375,800	21,509,300	18,966,600	21,567,400	18,383,200	234,751,400	19,562,617
	2023	17,461,300	20,818,600											38,279,900	19,139,950
Billing Period (days)	2021	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2022	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2023	31	28	31	30	31	30	31	31	30	31	30	31	365	30
Retail Sales - Total month (gallons)	2021	15,296,100	17,196,300	17,228,700	17,859,000	17,758,400	18,244,700	18,891,300	15,949,100	18,758,400	15,998,500	16,473,400	19,348,500	209,002,400	17,416,867
	2022	17,460,800	16,973,300	17,690,900	19,266,000	17,298,800	18,708,000	16,852,200	17,722,600	19,907,900	17,534,000	19,868,500	16,671,700	215,954,700	17,996,225
	2023	15,791,900	18,600,900											34,392,800	17,196,400
Retail Sales - Average Daily (gallons per day)	2021	493,423	614,154	555,765	595,300	572,852	608,157	609,397	514,487	625,280	516,081	549,113	624,145	6,878,152	573,179
	2022	563,252	606,189	570,674	642,200	558,026	623,600	543,619	571,697	663,597	565,613	662,283	537,797	7,108,547	592,379
	2023	509,416	664,318											1,173,734	586,867
Avg retail water sales (gal)		**522,030**	**628,220**	**563,219**	**618,750**	**565,439**	**615,878**	**576,508**	**543,092**	**644,438**	**540,847**	**605,698**	**580,971**	**5,053,478**	**584,142**
Bulk Municipal Sales - Total month (gallons)	2021	1,688,100	2,505,500	2,736,000	2,662,000	2,651,300	2,705,400	1,666,200	1,596,300	1,737,100	1,567,000	1,544,500	1,842,700	24,902,100	2,075,175
	2022	1,650,300	1,344,200	1,428,900	1,549,300	1,412,800	1,763,200	1,550,400	1,653,200	1,601,400	1,432,600	1,788,900	1,711,500	18,886,700	1,573,892
	2023	1,669,400	2,217,700											3,887,100	1,943,550
Bulk Municipal - Average Daily (gallons per day)	2021	54,455	89,482	88,258	88,733	85,526	90,180	53,748	51,494	57,903	50,548	51,483	59,442	821,253	68,438
	2022	53,235	48,007	46,094	51,643	45,574	58,773	50,013	53,329	53,380	46,213	59,630	55,210	621,102	51,758
	2023	53,852	79,204											133,055	66,528
Avg Bulk Customer sales (gal)		53,847	72,231	67,176	70,188	65,550	74,477	51,881	52,411	55,642	48,381	55,557	57,326	525,137	62,241

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) = 584,142

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

Engineering and Capital Improvements

Capital improvement projects for the water and wastewater systems were developed for 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. The project mobilized on January 26, 2023. Substantial completion is anticipated to occur in July 2023.

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 High Street tank project mobilized on September 12, 2022 was completed in December 2022, and the tank was returned to service in February 2023. The project involved blasting the interior and exterior of the tank and repainting. Photos of the project are included below which depict the interior and exterior before and after the project. The Turnpike Tank rehabilitation is scheduled to begin in April 2023.


Capital Improvement Plan

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

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

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

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

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

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

Environment, Health & Safety

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Environmental Incidents – Regulatory (PADEP/USEPA) notifications	0	0											0
Concessionaire Notifications	0	0											0
Incident Email Notifications	0	0											0
Environmental Incidents – Appletree Hotline notifications	0	0											0
Environmental Incidents – Appletree Hotline notifications/chemical spills	0	0											0
Non-compliance – violations	0	0											0
Reporting non-compliance	0	0											0
Safety related incidents – OSHA lost time	0	0											0
Total days lost	0	0											0
Safety related incidents – Preventable	0	0											0
Safety related – Near Miss	0	0											0
Employee lost-time – not job-related – total as sick hours	37	12											49

On Target	Caution	Meets/Exceeds Target

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

March 31, 2023

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

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

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

RE: Laboratory Supervisor Certification – February 2023

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

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

Kodi Webb
Project Manager
Veolia Middletown

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

March 31, 2023

Mr. Kenneth Klinepeter
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Mr. Dan Sugarman
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Mr. John Joyner
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Mr. Don Correll
Water Capital Partners LLC
don.correll@wcpartnersllc.com

RE: Environmental Laws Certification- February 2023

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

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

Kodi Webb
Project Manager
Veolia Middletown

APPENDIX 1

WASTEWATER

MIDDLETOWN WWTP

MONTHLY DISCHARGE MONITORING REPORT (eDMR) SUBMISSION

SUPPLEMENTAL WWTP PROCESS CONTROL & OPERATIONAL DATA

&

SMARTCOVER® MONITORING SYSTEM REPORT

VEOLIA

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

Your eDMR Report Has Been Received For Permit No. PA0020664

1 message

depgreenporthelpdesk@state.pa.us <depgreenporthelpdesk@state.pa.us> Fri, Mar 24, 2023 at 3:15 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: 02/01/2023-02/28/2023
Report Due Date: 03/28/2023

Submitted By: Kodi Webb
Submission Id: 384849
Submission Status: Received
Submission Type: Original
To view the details of this report, access the eDMR system through DEP's GreenPort and select the link for View/Revise Submitted.

3800-FM-BCW0462 12/2016

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	2023	02	01	TO	2023	02	28

Reporting Frequency: **Monthly**

DMR Effective From: **02/01/2023**

DMR Effective To: **02/28/2023**

Permit Expires: **02/28/2026**

Permit Application Due: **09/01/2025**

No Discharge: ☐

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		8.33	***	***	mg/L	1/day	Grab
	PERMIT REQUIREMENT	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	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	<17	40	lbs/day	***	<2.0	5.0	mg/L	2/week	24-Hr Composite
	PERMIT REQUIREMENT	550 Avg Mo	826 Wkly Avg		***	30.0 Avg Mo	45.0 Wkly Avg		2/week	24-Hr Composite
Total Nitrogen (00600)	SAMPLE MEASUREMENT	***	***		***	<9.07	***	mg/L	1/month	Calculation
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	<.04	***	mg/L	2/week	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	SAMPLE MEASUREMENT	***	***		***	1.03	***	mg/L	2/week	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Nitrate-Nitrite as N (00630)	SAMPLE MEASUREMENT	***	***		***	<8.04	***	mg/L	2/week	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Phosphorus (00665)	SAMPLE MEASUREMENT	1	***	lbs/day	***	.13	***	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	1.08	1.317	MGD	***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.3	.5	mg/L	1/day	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	SAMPLE MEASUREMENT	<2329.6	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	SAMPLE MEASUREMENT	<9.6	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	SAMPLE MEASUREMENT	265.9	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	SAMPLE MEASUREMENT	<2063.7	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	SAMPLE MEASUREMENT	32.5	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	122	570	No./100 ml	2/week	Grab
	PERMIT REQUIREMENT	***	***		***	2000 Geo Mean	10000 IMAX		2/week	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	<22	22	lbs/day	***	<2.0	3.0	mg/L	2/week	24-Hr Composite
	PERMIT REQUIREMENT	459 Avg Mo	734 Wkly Avg		***	25.0 Avg Mo	40.0 Wkly Avg		2/week	24-Hr Composite
Facility Comments										

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

NAME: **MIDDLETOWN WATER JT VENTURE LLC**

ADDRESS: **9W 57TH ST STE 4200, NEW YORK, NY , 10019**

FACILITY: **MIDDLETOWN STP**

LOCATION: **453 S LAWRENCE ST, MIDDLETOWN, PA , 17057-1132**

STAGE: **Effluent Net**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2023	02	01	TO	2023	02	28

Reporting Frequency: **Monthly**

DMR Effective From: **02/01/2023**

DMR Effective To: **02/28/2023**

Permit Expires: **02/28/2026**

Permit Application Due: **09/01/2025**

No Discharge: ☐

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	<2329.6	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	SAMPLE MEASUREMENT	32.5	***	lbs	***	***	***		1/month	Calculation
	PERMIT REQUIREMENT	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Comments										

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

NAME: **MIDDLETOWN WATER JT VENTURE LLC**

ADDRESS: **9W 57TH ST STE 4200, NEW YORK, NY , 10019**

FACILITY: **MIDDLETOWN STP**

LOCATION: **453 S LAWRENCE ST, MIDDLETOWN, PA , 17057-1132**

STAGE: **Raw Sewage Influent**

PERMIT NUMBER	OUTFALL NUMBER
PA0020664	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2023	02	01	TO	2023	02	28

Reporting Frequency: **Monthly**

DMR Effective From: **02/01/2023**

DMR Effective To: **02/28/2023**

Permit Expires: **02/28/2026**

Permit Application Due: **09/01/2025**

No Discharge: ☐

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	1877	2499	lbs/day	***	207	***	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	1499	2344	lbs/day	***	164	***	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 Comments										

ATTACHMENT DETAILS

FILE NAME	ATTACHMENT TYPE	UPLOADED TIME	ATTACHMENT COMMENT
Feb nutrients	Annual Chesapeake Bay Spreadsheet	3/23/2023 2:48:34 PM	
Feb influent supplemental	Influent and Process Control Form	3/23/2023 2:47:55 PM	
Feb effluent supplemental	Daily Effluent Monitoring Form	3/23/2023 2:44:26 PM	
Feb biosolids	Sewage Sludge / Biosolids Production and Disposal Form	3/23/2023 2:47:13 PM	

COMMENT DETAILS

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER

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

	Influent					Process Control				
Day	Flow (MGD)	BOD_5 (mg/l)	BOD_5 (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	1.253					4,318.0		20,000.0		
2	1.317					4,039.0		20,000.0		
3	1.126					3,563.0		30,000.0		
4	1.134							30,000.0		
5	1.157							30,000.0		
6	1.186	164.0	1,622	237.0	2,344	4,683.0		29,000.0		
7	1.088	211.0	1,915	182.0	1,651	4,497.0		25,000.0		
8	1.078					4,698.0		25,000.0		
9	1.110					5,036.0		25,000.0		
10	1.017					4,681.0		25,000.0		
11	1.048							25,000.0		
12	1.092							25,000.0		
13	1.124	215.0	2,015	197.0	1,847	4,884.0		28,000.0		
14	0.986	167.0	1,373	58.0	477	4,821.0		28,000.0		
15	0.952					4,268.0		23,000.0		
16	1.095					4,347.0		33,000.0		
17	1.124					4,632.0		25,000.0		
18	1.007							25,000.0		
19	0.978							25,000.0		
20	1.075	244.0	2,188	234.0	2,098	4,358.0		28,000.0		
21	0.999	300.0	2,499	210.0	1,750	4,179.0		26,000.0		
22	1.033					4,042.0		25,000.0		
23	0.982					4,545.0		30,000.0		
24	0.959					4,454.0		25,000.0		
25	1.014							22,500.0		
26	0.984							22,500.0		
27	1.240	159.0	1,644	74.0	765	4,414.0		25,000.0		
28	1.093	193.0	1,759	116.0	1,057	4,478.0		25,000.0		
29										
30										
31										
Avg	**1.08**	**207**	**1,877**	**164**	**1,499**	**4,447**		**25,893**		
Max	**1.317**	**300**	**2,499**	**237**	**2,344**	**5,036**		**33,000**		

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: **3/23/2023**

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

3800-FM-BCW0435 3/2012

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

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

Month: **2** (select number) Year: **2023**
Permit No.: **PA0020664** Outfall: **001**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **February 28, 2026**

		Parameter	Flow		pH		Dissolved Oxygen		TRC		NH3-N		CBOD5		Total Phosphorus		TSS		Fecal Coliform															
		Stage	1		1		1		1		1		1		1		1		1															
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	CFU/100 ml	Q		Q		Q		Q		Q		Q		Q		Q	
1	Sun	1/29/23																																
	Mon	1/30/23																																
	Tue	1/31/23																																
	Wed	2/1/23	1.253		7.5		9.03		0.23										66.0															
	Thu	2/2/23	1.317		7.5		8.97		0.45																									
	Fri	2/3/23	1.126		7.5		9.21		0.17																									
	Sat	2/4/23	1.134		7.6		9.2		0.3																									
2	Sun	2/5/23	1.157		7.5		9.3		0.23																									
	Mon	2/6/23	1.186		7.5		9.12		0.17		0.05		2.0		0.09		1.0																	
	Tue	2/7/23	1.088		7.6		9.4		0.27	<	0.02	<	2.0		0.14	<	1.0		42.0															
	Wed	2/8/23	1.078		7.5		9.41		0.23										33.0															
	Thu	2/9/23	1.11		7.6		8.95		0.45																									
	Fri	2/10/23	1.017		7.6		9.15		0.2																									
	Sat	2/11/23	1.048		7.6		9.22		0.43																									
3	Sun	2/12/23	1.092		7.7		9.29		0.31																									
	Mon	2/13/23	1.124		7.6		8.85		0.16		0.03		2.2		0.16		5.0																	
	Tue	2/14/23	0.986		7.6		8.99		0.23		0.05		2.9		0.1		4.0		260.0															
	Wed	2/15/23	0.952		7.5		8.85		0.24										480.0															
	Thu	2/16/23	1.095		7.5		8.58		0.46																									
	Fri	2/17/23	1.124		7.5		8.33		0.2																									
	Sat	2/18/23	1.007		7.5		8.89		0.26																									
4	Sun	2/19/23	0.978		7.6		9.03		0.22																									
	Mon	2/20/23	1.075		7.5		8.75		0.18		0.04		2.3		0.14	<	1.0																	
	Tue	2/21/23	0.999		7.6		8.71		0.18		0.05	<	2.0		0.11		1.0		570.0															
	Wed	2/22/23	1.033		7.5		9.0		0.26										106.0															
	Thu	2/23/23	0.982		7.5		8.78		0.5																									
	Fri	2/24/23	0.959		7.5		9.04		0.24																									
	Sat	2/25/23	1.014		7.5		8.7		0.5																									
5	Sun	2/26/23	0.984		7.6		8.86		0.32																									
	Mon	2/27/23	1.24		7.5		8.86		0.37		0.04	<	2.0		0.14	<	1.0																	
	Tue	2/28/23	1.093		7.6		8.88		0.28	<	0.02		3.8		0.13	<	1.0		70.0															
Statistics for DMR																																		
Daily Minimum (Conc.):					**7.5**		**8.33**		**0.16**	<	**0.02**	<	**2**		**0.09**	<	**1**		**33**															
Daily Maximum (Conc):					**7.7**		**9.41**		**0.5**		**0.05**		**3.8**		**0.16**		**5**		**570**															
Max Avg Weekly (Conc.):							**9.22**		**0.3**		**0.05**		**3**		**0**		**5**															
Avg Monthly (Conc.):							**8.98**		**0.3**	<	**0.04**	<	**2**		**0.13**	<	**2**															
Geometric Mean (Conc.):																			**122**													
Max Avg Weekly (Load):			**1.208**				**92**		**3**		**0.4**		**22**		**1**		**40**															
Avg Monthly (Load):			**1.08**				**81**		**3**	<	**0.3**	<	**22**		**1**	<	**17**															
Total Monthly (Load):			**30.251**				**2265**		**73**	<	**10**	<	**613**		**33**	<	**474**															
Daily Minimum (Load):			**0.952**				**70**		**1**	<	**0.2**	<	**17**		**0.8**		**8**															
Daily Maximum (Load):			**1.317**				**99**		**5**		**0.5**		**35**		**1**		**47**															

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: **3/23/2023**

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

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

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

Date	Liquid Sewage Sludge/Biosolids Hauled Off-site			Dewatered Sewage Sludge/Biosolids Hauled Off-site			Sewage Sludge/Biosolids Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
2/2/23				6.92	35.06	**2.43**			
2/7/23				7.47	32.01	**2.39**			
2/9/23				6.29	37.26	**2.34**			
2/14/23				6.52	30.63	**2.00**			
2/20/23				6.80	35.30	**2.40**			
2/23/23				16.09	31.55	**5.08**			
2/27/23				8.45	31.95	**2.70**			
TOTAL:				**TOTAL:**		**19.335**	**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	19.34			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

* See Instructions for explanation.

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Prepared By: **Kodi Webb** License No.: **23501**
Title: **Project Manager** Date: **March 23, 2023**

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT MONITORING

☑ Continuous Discharge

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

Compliance Year: **2023** Outfall: **001**
NPDES Permit No.: **PA0020664**
This permit will expire on: **February 28, 2026**
TP Cap Load (lbs): **5,358**
TP Delivery Ratio: **0.503**

	FLOW	Total Phosporus (TP)				NH_3-N				TKN				NO_2+NO_3 as N				Total Nitrogen (TN)			
Sample Date	MGD	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day
10/1/22	1.238																				
10/2/22	1.528																				
10/3/22	1.181		0.52		5.1		0.02		0.2		1.0		9.8	<	2.2	<	21.7	<	3.20	<	31.5
10/4/22	1.941		0.61		9.9		0.07		1.1		1.1		17.8		4.2		68.0		5.30		85.8
10/5/22	1.323																				
10/6/22	1.099																				
10/7/22	0.970																				
10/8/22	1.000																				
10/9/22	1.000																				
10/10/22	1.031		0.53		4.6	<	0.02	<	0.2		1.0		8.6	<	2.4	<	20.6	<	3.40	<	29.2
10/11/22	0.925		0.31		2.4		0.03		0.2		0.7		5.4	<	2.3	<	17.7	<	3.00	<	23.1
10/12/22	0.922																				
10/13/22	1.230																				
10/14/22	1.063																				
10/15/22	0.924																				
10/16/22	0.960																				
10/17/22	1.019		0.39		3.3		0.05		0.4		0.9		7.6		2.2		18.7		3.10		26.3
10/18/22	1.000		0.24		2.0		0.04		0.3		1.1		9.2		2.4		20.0		3.50		29.2
10/19/22	0.962																				
10/20/22	0.969																				
10/21/22	0.931																				
10/22/22	0.870																				
10/23/22	1.300																				
10/24/22	1.204		0.3		3.0		0.05		0.5		1.0		10.0		2.4		24.1		3.40		34.1
10/25/22	1.023		0.33		2.8		0.02		0.2		0.8		6.8		2.4		20.5		3.20		27.3
10/26/22	1.029																				
10/27/22	0.953																				
10/28/22	0.944																				
10/29/22	0.907																				
10/30/22	0.969																				
10/31/22	1.111		0.6		5.6		0.04		0.4		0.9		8.3	<	2.4	<	22.2	<	3.30	<	30.6
11/1/22	1.068		0.49		4.4	<	0.02	<	0.2		0.9		8.2	<	2.5	<	22.0	<	3.39	<	30.2
11/2/22	0.929																				
11/3/22	0.883																				
11/4/22	0.923																				
11/5/22	0.870																				
11/6/22	0.948																				
11/7/22	0.917		0.47		3.6	<	0.02	<	0.2		0.7		5.3	<	2.6	<	19.7	<	3.27	<	25.0
11/8/22	0.866		0.48		3.5	<	0.02	<	0.1		0.7		5.1	<	2.5	<	18.3	<	3.24	<	23.4
11/9/22	0.910																				
11/10/22	0.936																				
11/11/22	1.876																				
11/12/22	1.317																				
11/13/22	1.107																				

11/14/22	1.110		0.39		3.6	<	0.02	<	0.2		0.6		5.5	<	2.9	<	26.9	<	3.50	<	32.4
11/15/22	1.739		0.30		4.4		0.08		1.2		0.5		7.5	<	3.3	<	47.3	<	3.78	<	54.8
11/16/22	1.575																			
11/17/22	1.275																			
11/18/22	1.116																			
11/19/22	1.073																			
11/20/22	1.080																			
11/21/22	1.028		1.06		9.1	<	0.02	<	0.2		0.6		5.0	<	10.0	<	85.6	<	10.57	<	90.6
11/22/22	1.014		1.00		8.5		0.19		1.6		1.1		9.6	<	10.3	<	87.1	<	11.43	<	96.7
11/23/22	1.001																			
11/24/22	0.904																			
11/25/22	0.890																			
11/26/22	0.895																			
11/27/22	1.199																			
11/28/22	1.099		0.65		6.0	<	0.02	<	0.2		1.0		9.3	<	9.3	<	85.1	<	10.29	<	94.3
11/29/22	0.987		0.67		5.5	<	0.02	<	0.2		0.5		4.3	<	10.0	<	82.6	<	10.56	<	86.9
11/30/22	1.386																			
12/1/22	1.162																			
12/2/22	1.040																			
12/3/22	1.245																			
12/4/22	1.128																			
12/5/22	1.040		1.03		8.9		0.14		1.2		1.2		10.1	<	9.4	<	81.4	<	10.55	<	91.5
12/6/22	1.206		1.00		10.1		0.10		1.0		0.8		8.3	<	10.4	<	104.6	<	11.23	<	113.0
12/7/22	1.058																			
12/8/22	1.024																			
12/9/22	1.128																			
12/10/22	1.016																			
12/11/22	1.100																			
12/12/22	1.115		1.43		13.3	<	0.02	<	0.2		1.2		11.3	<	10.8	<	100.4	<	12.02	<	111.8
12/13/22	1.038		1.12		9.7		0.02		0.2	<	0.5	<	4.3	<	10.5	<	90.9	<	11.00	<	95.2
12/14/22	1.052																			
12/15/22	3.025																			
12/16/22	2.393																			
12/17/22	1.566																			
12/18/22	1.369																			
12/19/22	1.973		0.86		14.2	<	0.02	<	0.3		0.6		10.2	<	6.1	<	99.7	<	6.68	<	109.9
12/20/22	1.177		0.44		4.3	<	0.02	<	0.2		0.7		6.6	<	8.4	<	82.8	<	9.11	<	89.4
12/21/22	1.169																			
12/22/22	2.986																			
12/23/22	2.500																			
12/24/22	1.737																			
12/25/22	1.435																			
12/26/22	1.364		0.12		1.4		0.04		0.5	<	0.5	<	5.7	<	5.8	<	66.4	<	6.34	<	72.1
12/27/22	1.380		0.08		0.9	<	0.02	<	0.2	<	0.5	<	5.8	<	7.0	<	80.0	<	7.45	<	85.7
12/28/22	1.237																			
12/29/22	1.203																			
12/30/22	1.175																			
12/31/22	1.334																			
1/1/23	1.210																			
1/2/23	1.198		0.11		1.1	<	0.02	<	0.2		1.3		13.0	<	6.5	<	64.9	<	7.80	<	77.9
1/3/23	1.982		0.17		2.8		0.04		0.7	<	0.5	<	8.3	<	6.1	<	100.8	<	6.60	<	109.1
1/4/23	1.537																			
1/5/23	1.371																			
1/6/23	1.249																			
1/7/23	1.252																			
1/8/23	1.238																			
1/9/23	1.458		0.16		1.9	<	0.02	<	0.2		0.5		6.1		7.0		85.1		7.50		91.2

1/10/23	1.266		0.12		1.3		0.08		0.8		0.8		8.4		7.9		83.4		8.70		91.9
1/11/23	1.219																			
1/12/23	1.366																			
1/13/23	1.347																			
1/14/23	1.309																			
1/15/23	1.262																			
1/16/23	1.228		0.15		1.5	<	0.03	<	0.3		0.8		8.2	<	6.2	<	63.5	<	7.00	<	71.7
1/17/23	1.255		0.1		1.0	<	0.02	<	0.2		0.6		6.3	<	5.6	<	58.6	<	6.20	<	64.9
1/18/23	1.153																			
1/19/23	1.431																			
1/20/23	1.266																			
1/21/23	1.212																			
1/22/23	1.453																			
1/23/23	1.682		0.14		2.0		0.03		0.4	<	0.5	<	7.0	<	6.2	<	87.0	<	6.70	<	94.0
1/24/23	1.315		0.1		1.1	<	0.02	<	0.2		0.7		7.7	<	8.1	<	88.8	<	8.80	<	96.5
1/25/23	2.105																			
1/26/23	1.960																			
1/27/23	1.608																			
1/28/23	1.404																			
1/29/23	1.392																			
1/30/23	1.313		1.31		14.3		0.52		5.7		1.7		18.6		10.5		115.0		12.20		133.6
1/31/23	1.237		0.28		2.9		0.38		3.9		1.35		13.9		8.71		89.9		10.06		103.8
2/1/23	1.253																			
2/2/23	1.317																			
2/3/23	1.126																			
2/4/23	1.134																			
2/5/23	1.157																			
2/6/23	1.186		0.09		0.9		0.05		0.5		0.88		8.7	<	7.49	<	74.1	<	8.37	<	82.8
2/7/23	1.088		0.14		1.3	<	0.02	<	0.2		0.64		5.8	<	8.36	<	75.9	<	9.00	<	81.7
2/8/23	1.078																			
2/9/23	1.110																			
2/10/23	1.017																			
2/11/23	1.048																			
2/12/23	1.092																			
2/13/23	1.124		0.16		1.5		0.03		0.3		1.1		10.3	<	7.3	<	68.4	<	8.40	<	78.7
2/14/23	0.986		0.1		0.8		0.05		0.4		1.2		9.9	<	7.79	<	64.1	<	8.99	<	73.9
2/15/23	0.952																			
2/16/23	1.095																			
2/17/23	1.124																			
2/18/23	1.007																			
2/19/23	0.978																			
2/20/23	1.075		0.14		1.3		0.04		0.4		1.06		9.5		8.86		79.4		9.92		88.9
2/21/23	0.999		0.11		0.9		0.05		0.4		0.86		7.2	<	7.55	<	62.9	<	8.41	<	70.1
2/22/23	1.033																			
2/23/23	0.982																			
2/24/23	0.959																			
2/25/23	1.014																			
2/26/23	0.984																			
2/27/23	1.240		0.14		1.4		0.04		0.4		1.41		14.6		8.29		85.7		9.70		100.3
2/28/23	1.093		0.13		1.2	<	0.02	<	0.2		1.1		10.0	<	8.68	<	79.1	<	9.78	<	89.2
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Avg	**1.221**		**0.43**		**4.3**	**<**	**0.06**	**<**	**0.6**	**<**	**0.87**	**<**	**8.6**	**<**	**6.4**	**<**	**64.6**	**<**	**7.27**	**<**	**73.2**
Annual Total Mass Loads (lbs):					**1569**			**<**	**222**			**<**	**3146**			**<**	**23569**			**<**	**26715**

P Credits Generated: **625**

No N Credits Generated

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

Prepared By: **Kodi Webb** License No.: **23501**

Title: **Project Manager** Date: **3/23/2023**

Monthly Statistics

Monthly Total Mass Loads (lbs)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	133.1	< 12.2	288.2	< 804.5	< 1092.7
November	161.3	< 13.2	198.9	< 1582.3	< 1781.2
December	243.1	< 14.7	< 241.8	< 2736.8	< 2978.6

January	93	< 39.4	< 302.2	< 2594.9	< 2897.1
February	32.5	< 9.6	265.9	< 2063.7	< 2329.6
March					
April					
May					
June					
July					
August					
September					

Average Monthly Concentrations (mg/L)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	0.43	< 0.04	0.94	< 2.54	< 3.49
November	0.61	< 0.05	0.74	< 5.93	< 6.67
December	0.76	< 0.05	< 0.75	< 8.55	< 9.3
January	0.26	< 0.12	< 0.88	< 7.28	< 8.16
February	0.13	< 0.04	1.03	< 8.04	< 9.07
March					
April					
May					
June					
July					
August					
September					

VEOLIA Middletown WWTP

February, 2023

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	1.253													66								
02	1.317																					
03	1.126																					
04	1.134																					
05	1.157																					
06	1.186	164	1,622	<2.0	<19.78	98.8	237	2,344	1.0	9.89	99.6	0.09	0.89		0.05	0.49	<8.4	<82.79	0.9	8.70	<9.25	<91.5
07	1.088	211	1,914	<2.0	<18.15	99.1	182	1,651	1.0	9.07	99.5	0.09	0.82	42	0.05	0.45	<8.4	<75.94	0.9	7.98	<9.25	<83.9
08	1.078			<2.0	<17.97				0.6	5.39		<1.00	<8.99	33	<0.02	<0.18	<8.4	<75.13	0.6	5.75	<9.00	<80.9
09	1.110																					
10	1.017																					
11	1.048																					
12	1.092																					
13	1.124	215	2,016	2.2	20.63	99.0	197	1,847	5.0	46.88	97.5	0.16	1.50		0.03	0.28	<8.4	<78.75	1.1	10.31	<9.50	<89.1
14	0.986	167	1,373	2.9	23.84	98.3	58	477	4.0	32.88	93.1	0.10	0.82	260	0.05	0.41	<7.8	<64.03	1.2	9.86	<8.99	<73.9
15	0.952													480								
16	1.095																					
17	1.124																					
18	1.007																					
19	0.978																					
20	1.075	244	2,188	2.3	20.62	99.1	234	2,098	<1.0	8.97	99.6	0.14	1.26		0.04	0.36	8.9	79.43	1.1	9.50	9.92	88.9
21	0.999	300	2,499	<2.0	<16.66	99.3	210	1,749	1.0	8.33	99.5	0.11	0.92	570	0.05	0.42	<7.6	<62.90	0.9	7.16	<8.41	<70.1
22	1.033													106								
23	0.982																					
24	0.959																					
25	1.014																					
26	0.984																					
27	1.240																					
28	1.093	193	1,760	<2.0	<18.24	99.0	116	1,058	<1.0	9.12	99.1	0.14	1.28	70	0.04	0.36	8.3	75.59	1.4	12.86	9.70	88.5

:VISED 9/18/15 I

VEOLIA Middletown WWTP

Daily Effluent Grab Monitoring / Weather

February 2023

Date	Operator Initials	Effluent Grab Sample Time		pH		RPD	Dissolved Oxygen (mg/L)		RPD	Total Residual Chlorine (mg/L)		RPD	Temp.	Influent COD	Comments
		Start	Finish	#1	#2	%	#1	#2	%	#1	#2	%	C	mg/L	
01	MB	0905	0905	7.50	7.50	0.00	9.03	9.09	-0.66	0.23	.23	.00	13.8	603.00	Ox Ditch 1 OOS
02	MB	0809	0809	7.50	7.50	0.00	8.97	8.89	0.90	0.45	.47	-4.35	14.6	523.00	Ox Ditch 1 OOS
03	MB	0938	0938	7.50	7.60	-1.32	9.21	9.19	0.22	0.17	.15	12.50	12.9	217.00	Ox Ditch 1 OOS
04	CH	0713	0713	7.60	7.60	0.00	9.20	9.30	-1.08	0.30	.32	-6.45	12.5		Ox Ditch 1 OOS
05	CH	0649	0649	7.50	7.60	-1.32	9.30	9.40	-1.07	0.23	.24	-4.26	12.7		Ox Ditch 1 OOS
06	MB	0928	0928	7.50	7.60	-1.32	9.12	9.14	-0.22	0.17	.20	-16.22	15.1	814.00	Ox Ditch 1 OOS
07	MB/TH	0738	0738	7.60	7.60	0.00	9.40	9.40	0.00	0.27	.29	-7.14	13.8	718.00	Ox Ditch 1 OOS
08	MB	0954	0954	7.50	7.60	-1.32	9.41	9.35	0.64	0.23	.24	-4.26	14.8	587.00	Ox Ditch 1 OOS
09	MB/TH	0743	0743	7.60	7.50	1.32	8.95	8.94	0.11	0.45	.42	6.90	15.1	1073.00	Ox Ditch 1 OOS
10	TH	0853	0853	7.60	7.70	-1.31	9.15	9.16	-0.11	0.20	.21	-4.88	15.8	645.00	Ox Ditch 1 OOS
11	TH	0741	0741	7.60	7.60	0.00	9.22	9.21	0.11	0.43	.41	4.76	15.0		Ox Ditch 1 OOS
12	MB	1003	1003	7.70	7.60	1.31	9.29	9.30	-0.11	0.31	.32	-3.17	15.2		Ox Ditch 1 OOS
13	MB	0945	0945	7.60	7.60	0.00	8.85	8.83	0.23	0.16	.17	-6.06	15.5	675.00	Ox Ditch 1 OOS
14	MB/TH	0738	0738	7.60	7.60	0.00	8.99	8.97	0.22	0.23	.21	9.09	14.8	593.00	Ox Ditch 1 OOS
15	MB	0903	0903	7.50	7.60	-1.32	8.85	8.86	-0.11	0.24	.23	4.26	15.6	664.00	Ox Ditch 1 OOS
16	MB	0837	0837	7.50	7.50	0.00	8.58	8.59	-0.12	0.46	.42	9.09	17.4	1040.00	Ox Ditch 1 OOS
17	MB	0936	0936	7.50	7.60	-1.32	8.33	8.37	-0.48	0.20	.20	.00	17.5	488.00	Ox Ditch 1 OOS
18	MB	0619	0619	7.50	7.50	0.00	8.89	8.85	0.45	0.26	.28	-7.41	14.0		Ox Ditch 1 OOS
19	TH	0744	0744	7.60	7.60	0.00	9.03	9.01	0.22	0.22	.17	25.64	15.2		Ox Ditch 1 OOS
20	MB	0906	0906	7.50	7.60	-1.32	8.75	8.73	0.23	0.18	.18	.00	15.8	387.00	Ox Ditch 1 OOS
21	MB/TH	0742	0742	7.60	7.60	0.00	8.71	8.72	-0.11	0.18	.17	5.71	15.9	747.00	Ox Ditch 1 OOS
22	MB	0829	0829	7.50	7.60	-1.32	9.00	8.99	0.11	0.26	.26	.00	15.4	586.00	Ox Ditch 1 OOS
23	MB/TH	0822	0822	7.50	7.60	-1.32	8.78	8.79	-0.11	0.50	.51	-1.98	16.3	522.00	Ox Ditch 1 OOS
24	MB	0917	0917	7.50	7.60	-1.32	9.04	9.03	0.11	0.24	.25	-4.08	15.5	440.00	Ox Ditch 1 OOS
25	CH	0609	0609	7.50	7.60	-1.32	8.70	8.70	0.00	0.50	.47	6.19	14.9		Ox Ditch 1 OOS
26	MB	0847	0847	7.60	7.60	0.00	8.86	8.86	0.00	0.32	.31	3.17	15.1		Ox Ditch 1 OOS
27	MB	0947	0947	7.50	7.60	-1.32	8.86	8.89	-0.34	0.37	.37	.00	15.8	1093.00	Ox Ditch 1 OOS
28	MB/TH	0739	0739	7.60	7.60	0.00	8.88	8.88	0.00	0.28	.27	3.64	15.1	612.00	Ox Ditch 1 OOS

VEOLIA Middletown WWTP

Process Control

February 2023

DAY	DITCH				RAS	WASTE			RR	F/M	SETTLING TEST			BLANKETS	
	TS		VS		TS	Gallons	Lbs	SRT			MINUTES		SVI	C1	C2
	mg/L	lbs	mg/L	%	mg/L			Days			5	30		AM	AM
01	4,318	52,581	3,023	70.0	9,260	20,000	1,545	23.83	4.82	0.08	980	680	157	48	16
02	4,039	49,177	2,870	71.1	8,937	20,000	1,491	23.44	4.33	0.07	930	580	144	36	3
03	3,563	43,382	2,410	67.6	7,827	30,000	1,958	14.99	8.89	0.04	870	500	140	48	12
04						30,000									
05						30,000									
06	4,683	57,020	3,406	72.7	6,848	29,000	1,656	25.04	4.77	0.09	950	690	147	16	20
07	4,497	54,761	3,192	71.0	7,738	25,000	1,613	24.09	4.34	0.08	970	670	149	12	12
08	4,698	57,208	3,341	71.1	6,924	25,000	1,444	28.18	4.35	0.06	960	700	149	14	14
09	5,036	61,316	3,562	70.7	7,841	25,000	1,635	26.53	4.18	0.10	940	700	139	12	14
10	4,681	56,999	3,277	70.0	7,188	25,000	1,499	33.28	5.15	0.07	950	670	143	12	12
11						25,000								12	14
12						25,000								10	18
13	4,884	59,481	3,474	71.1	7,558	28,000	1,765	23.96	4.72	0.07	970	700	143	14	18
14	4,821	58,699	3,410	70.7	7,393	28,000	1,726	24.05	4.84	0.06	940	670	139	12	24
15	4,268	51,973	3,064	71.8	10,082	23,000	1,934	19.30	4.99	0.07	920	560	131	28	14
16	4,347	52,927	3,196	73.5	6,791	33,000	1,869	20.82	5.31	0.10	930	600	138	26	16
17	4,632	56,406	3,253	70.2	11,197	25,000	2,335	16.96	5.46	0.05	910	570	123	24	2
18						25,000								26	14
19						25,000								37	13
20	4,358	53,068	2,942	67.5	7,443	28,000	1,738	20.61	5.75	0.04	960	610	140	16	3
21	4,179	50,882	3,134	75.0	8,701	26,000	1,887	20.23	5.28	0.08	910	540	129	14	12
22	4,042	49,213	2,765	68.4	9,433	25,000	1,967	17.12	5.60	0.07	900	510	126	10	27
23	4,545	55,341	3,138	69.0	7,437	30,000	1,861	20.54	5.07	0.05	900	560	123	12	6
24	4,454	54,229	3,083	69.2	7,586	25,000	1,582	23.74	5.04	0.04	950	600	135	13	4
25						22,500									
26						22,500								14	15
27	4,414	53,749	3,071	69.6	7,738	25,000	1,613	23.17	5.51	0.11	910	550	125	12	3
28	4,478	54,523	3,212	71.7	8,424	25,000	1,756	22.27	4.45	0.04	920	560	125	14	10
AVG	4,447	54,147	3,141	70.6	8,117	25,893	1,744	22.6	5.14	0.07	934	611	137	20	13

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

February 2023

DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01								
02	7.00	101,974	0.91	7,739	13,464	5.67	6,367	9
03								
04								
05								
06	6.50	100,172	1.00	8,354	16,830	5.06	7,102	9
07								
08								
09	5.25	80,986	0.91	6,146	18,513	5.68	8,770	6
10								
11								
12								
13	7.50	111,946	0.91	8,496	16,830	4.86	6,822	9
14								
15								
16	6.50	95,644	0.93	7,418	15,147	5.07	6,405	8
17	4.00	62,628	0.82	4,283	8,415	5.26	3,692	5
18								
19								
20	5.00	72,266	0.89	5,364	10,098	5.19	4,371	5
21								
22								
23	6.00	89,030	0.87	6,460	10,098	4.91	4,135	6
24								
25								
26								
27	6.00	86,260	0.85	6,115	13,464	5.04	5,659	7
28								
TOTAL	54	800,906	8.09	60,375	122,859	46.74	53,323	64

REVISED 7/17/14

Veolia Middletown WWTP

February 2023

ATAD TIME and TEMPERATURE

Date	Operator	Thickener					ATAD Level			ATAD Feed			ATAD				ATAD to SNDR			
		End of feed		Disch. (ATAD Feed)			After						End of feed		Minimum			Start		
		Temp.	Feed	TS	VS	VS	Start	Trans.	Feed	Gallons	TS	VS	Avg Temp. Since	Time	Till Transfer		Date	Time	Temp.	Gallons
		° F	Gals.	mg/L	mg/L	%	Ft	Ft	Ft		Lbs.	Lbs.	°F	24 HR	Hours	Date/Time			° F	
02/01/23																				
02/02/23	MB	124.9	101,974	56,744	43,904	77.4	8.9	8.9	9.7	13,464	6,372	4,930	127.1	14:30	48.4	2/4/23 14:52				
02/03/23																				
02/04/23																				
02/05/23							9.7	8.0	8.0								2/5/23	8:15	128.1	28,652
02/06/23	MB	123.7	100,172	50,618	39,281	77.6	8.0	8.0	9.0	16,830	7,105	5,514	127.2	14:00	47.4	2/8/23 13:21				
02/07/23																				
02/08/23							9.0	8.5	8.5											
02/09/23	MB	125.7	80,986	56,809	44,811	78.9	8.5	8.5	9.1	18,513	8,771	6,919	128.4	14:15	38.2	2/11/23 4:26	2/9/23	7:20	130.2	8,170
02/10/23																				
02/11/23																				
02/12/23							9.1	8.4	8.4								2/12/23	8:46	131.5	10,262
02/13/23	MB	126.0	111,946	48,589	36,963	76.1	8.4	8.4	9.4	16,830	6,820	5,188	128.6	14:45	36.9	2/15/23 3:36				
02/14/23							9.4	8.4	8.4								2/14/23	14:45	131.1	15,446
02/15/23																				
02/16/23	MB	127.4	95,644	50,684	38,927	76.8	8.4	8.4	9.3	15,147	6,403	4,917	129.1	14:00	33.7	2/17/23 23:41				
02/17/23	MB	127.4	62,628	52,581	40,617	77.2	9.3	9.3	9.8	8,415	3,690	2,851	129.1	12:15	33.7	2/18/23 21:56				
02/18/23																				
02/19/23							9.8	8.4	8.4								2/19/23	8:00	132.3	21,049
02/20/23	MB	129.2	72,266	51,900	39,595	76.3	8.4	8.4	9.0	10,098	4,371	3,335	133.8	12:00	14.5	2/21/23 2:31				
02/21/23																				
02/22/23																				
02/23/23	MB	129.7	89,030	49,104	37,482	76.3	9.0	9.0	9.6	10,098	4,135	3,157	133.8	13:30	14.5	2/24/23 4:01				
02/24/23																				
02/25/23							9.6	8.5	8.5								2/25/23	8:01	133.7	18,975
02/26/23																				
02/27/23	MB	130.1	86,260	50,446	38,431	76.2	8.5	8.5	9.3	13,464	5,665	4,315	130.1	13:30	28.2	2/28/23 17:40				
02/28/23																				
01/31/23																				

Veolia Middletown WWTP

February 2023

ATAD transfer to SNDR SRT							Centrifuge Data						
Date	Operator	ATAD				SRT	Operator	Centifuge Feed Gallons	SNDR				
		Total Solids	Transfer Gallons	ATAD Tank	Waste ATAD to SNDR				TS	VS	VS	Discharge	
												TS	VS
		mg/L	Gallons	Pounds	Pounds	Days			mg/L	mg/L	%	Lbs.	Lbs.
							MB	19,971	29,203	16,734	57.3	4864	2787
							MB	20,333	28,240	15,985	56.6	4789	2711
02/05/23	MB	32,234	28,652	43,887	7,703	5.70							
							MB	20,302	27,577	15,439	56.0	4669	2614
02/09/23	MB	32,823	8,120	39,160	2,223	17.62							
							CK	17,794	27,275	21,157	77.6	4048	3140
02/12/23	MB	33,197	10,262	42,402	2,841	14.92							
02/14/23	CH	32,713	15,446	43,162	4,214	10.24							
							MB	21,376	26,905	14,758	54.9	4797	2631
02/19/23	CH	34,568	21,049	47,550	6,068	7.84							
							MB	22,568	27,746	17,382	62.6	5222	3272
							MB	23,413	27,704	15,380	55.5	5410	3003
02/25/23	CH	34,370	18,975	46,313	5,439	8.51							
							MB	10,413	28,813	16,382	56.9	2502	1423

VEOLIA Middletown WWTP

Centrifuge Monthly Report

February 2023

Date	Run Time	Feed Sludge		Centrifuge Cake			Lime		Polymer	Alum	SNDR		Copper
	Hours	Gallons	% Solids	Pounds Dry Solids	Dry Tons	% Solids	Pounds Used	Pounds/ Ton	Total Gallons	Total Gallons	pH	Level	Conc. mg/l
01	6.00	19,971	2.92	4,864	2.43	35.1	415	171	23	15	8.3		
02													
03	6.00	20,333	2.82	4,782	2.39	32.0	422	176	23	11	8.2		
04													
05													
06													
07													
08	5.75	20,302	2.76	4,673	2.34	37.3	412	176	18	19	8.4		
09													
10	5.75	17,794	2.73	4,051	2.03	30.6	476	235	22	89	8.6		
11													
12													
13													
14													
15	6.25	21,376	2.69	4,796	2.40	35.3	438	183	26	15	8.4		
16													
17													
18													
19													
20													
21													
22	6.25	43,944	2.77	10,152	5.08	31.6	207	41	22	100	8.3		
23													
24	6.00	23,413	2.77	5,409	2.70	32.0	373	138	26	97	8.4		
25													
26													
27													
28													

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PA MIDDLETOWN WWTP

February, 2023 **BIOSOLIDS INVENTORY**

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
02/01/23	2.43			Agriculture	2.43
02/02/23		2.43	Amerigreen	Agriculture	0.00
02/03/23	2.39			Agriculture	2.39
02/04/23					
02/05/23					
02/06/23					
02/07/23		2.39	Amerigreen	Agriculture	0.00
02/08/23	2.34			Agriculture	2.34
02/09/23		2.34	Amerigreen	Agriculture	0.00
02/10/23	2.03			Agriculture	2.03
02/11/23					
02/12/23					
02/13/23					
02/14/23		2.03	Amerigreen	Agriculture	0.00
02/15/23	2.40			Agriculture	2.40
02/16/23					
02/17/23					
02/18/23					
02/19/23					
02/20/23		2.40	Amerigreen	Agriculture	0.00
02/21/23					
02/22/23	2.61			Agriculture	2.61
02/23/23		2.61	Amerigreen	Agriculture	0.00
02/24/23	2.71			Agriculture	2.71
02/25/23					
02/26/23					
02/27/23		2.71	Amerigreen	Agriculture	0.00
02/28/23					
Total Tons	16.91	16.91		Total Tons	16.91
Metric Tons	15.34	16.34		Metric Tons	15.34

2023

PA MIDDLETOWN WWTP

BIOSOLIDS INVENTORY

DATE	Dry Tons (US Short Tons)		Dry Tons (Meteric Tons)	
	PROCESSED	DELIVERED	PROCESSED	DELIVERED
Jan, 2023	16.48	16.48	14.95	14.95
Feb, 2023	16.91	16.91	15.34	15.34
Mar, 2023				
Apr, 2023				
May, 2023				
Jun, 2023				
Jul, 2023				
Aug, 2023				
Sep, 2023				
Oct, 2023				
Nov, 2023				
Dec, 2023				
Total	33.39	33.39	30.29	30.29
Average	16.70	16.70	15.15	15.15
Maximum	16.91	16.91	15.34	15.34
Minimum	16.48	16.48	14.95	14.95

PA MIDDLETOWN WWTP

BIOSOLIDS VOLATILE REDUCTION

MONTH February YEAR 2023

DAY	THICKENER DISCHARGE			SNDR			%
	TS	TVS	VS	TS	TVS	VS	VOL.
	mg/L		%	mg/L		%	REDUCT.
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13	61,000	46,848	77	25,900	14,000	54	70.1
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
AVG	61000	46848	76.80	25900	14000	54.05	70.1
% SOLIDS REDUCTION			57.54			70.12	%

REVISED 7/17/14

Veolia Middletown WWTP

Biosolids Volatile Reduction

M.J. Reider Results							
2022							
Date	Thickener Discharge			SNDR			Volatile Reduction
	TS	TVS	VS	TS	TVS	VS	
	mg/L		%	mg/L		%	%
01/04/23	55,000	42,240	77.0	31,900	18,300	56.7	56.7
02/13/23	61,000	46,846	77.0	25,900	14,000	54.0	70.1
AVG	58,000	44,543	76.8	28,900	16,150	55.9	
Avg. % TS Reduction		50.2	Avg. Mass Balance % VS Reduction				63.7

PA MIDDLETOWN WWTP
2023 Annual Performance

	Flow Data						BOD / CBOD						Phosphorus, Total		Fecal Colif.
	Total MG	Average MG	Maximum		Minimum		Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	cfu/100mL
January	43.279	1.396	1/25/2023	2.105	1/18/2023	1.153	429	2	154,777	740	154,037	98.8	0.26	95	300
February	30.250	1.080	2/2/2023	1.317	2/15/2023	0.952	213	2	53,845	549	53,297	98.9	0.23	58	570
March															
April															
May															
June															
July															
August															
September															
October															
November															
December															
Total	**73.529**								**208,622**	**1,289**	**207,334**			**153**	
Average	36.765	1.238		1.711		1.053	321	2	104,311	645	103,667	98.9	0.25	77	
Maximum	43.279	1.396		2.105		1.153	429	2	154,777	740	154,037	98.9	0.26	95	
Minimum	30.250	1.080		1.317		0.952	213	2	53,845	549	53,297	98.8	0.23	58	

	TSS						Ammonia		TKN		Nitrate+Nitrite				Fecal Colif.
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Geo. Mean
January	475	3	171,377	1,119	170,258	98.0	0.12	39	0.9	311	7.27	2,625	8.14	2,936	43
February	176	2	44,475	460	44,014	98.3	0.04	10	1.0	253	8.25	2,081	9.25	2,334	122
March															
April															
May															
June															
July															
August															
September															
October															
November															
December															
Total			**215,852**	**1,579**	**214,272**			**49**	**2**	**564**		**4,706**		**5,270**	
Average	325.5	2.5	107,926	790	107,136	98.2	0.08	25	1	282	7.76	2,353	8.70	2,635	
Maximum	475.0	3.0	171,377	1,119	170,258	98.3	0.12	39	1	311	8.25	2,625	9.25	2,936	
Minimum	176.0	2.0	44,475	460	44,014	98.0	0.04	10	1	253	7.27	2,081	8.14	2,334	

Certificate of Analysis

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

Laboratory No.: 2302065
Report: 02/15/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2302065-01 **Collected By:** Client **Sampled:** 02/01/23 08:25 **Received:** 02/01/23 13:45
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	155	mg/l	2.0	SM 5210 B	02/02/23 14:27	C-37a, C-40	LMW
Solids, Total Suspended	210	mg/l	1	SM 2540 D	02/03/23		ALD

Lab ID: 2302065-02 **Collected By:** Client **Sampled:** 02/01/23 09:05 **Received:** 02/01/23 13:45
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.38	mg/l	0.02	EPA 350.1 Rev 2.0	02/08/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	02/02/23 17:12	C-37	RXN
Nitrate as N	8.10	mg/l	1.00	EPA 300.0 Rev 2.1	02/01/23 19:56		JAF
Nitrite as N	0.61	mg/l	0.10	EPA 300.0 Rev 2.1	02/01/23 19:56		JAF
Nitrate+Nitrite as N	8.71	mg/l	1.10	CALCULATED	02/01/23 19:56		JAF
Nitrogen, Total	10.06	mg/l	1.60	CALCULATED	02/08/23 11:25		NJG
Nitrogen, Total Kjeldahl (TKN)	1.35	mg/l	0.50	EPA 351.2 Rev 2.0	02/08/23		NJG
Phosphorus as P, Total	0.28	mg/l	0.01	SM 4500-P F	02/08/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	02/03/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2302065-03 **Collected By:** Client **Sampled:** 02/01/23 11:21 **Received:** 02/01/23 13:45
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	66	/100ml	2	SM 9222 D	2/1/23 16:44	2/2/23 15:14		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2302065-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B0352	02/07/2023	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.5mg/L.
C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 2.8mg/L.
C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 268 mg/L.

Certificate of Analysis

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

Laboratory No.: 2304173
Report: 02/16/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2304173-01 **Collected By:** Client **Sampled:** 02/07/23 07:33 **Received:** 02/07/23 13:53
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	164	mg/l	2.0	SM 5210 B	02/08/23 14:07	C-37b, C-40a, C-54a	RXN
Solids, Total Suspended	237	mg/l	1	SM 2540 D	02/08/23		ALD

Lab ID: 2304173-02 **Collected By:** Client **Sampled:** 02/07/23 07:38 **Received:** 02/07/23 13:53
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.05	mg/l	0.02	EPA 350.1 Rev 2.0	02/14/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	02/08/23 18:22	C-37d, C-40e	RXN
Nitrate as N	7.39	mg/l	1.00	EPA 300.0 Rev 2.1	02/07/23 16:40		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/07/23 16:40		KCS
Nitrate+Nitrite as N	<7.49	mg/l	1.10	CALCULATED	02/07/23 16:40		KCS
Nitrogen, Total	<8.37	mg/l	1.60	CALCULATED	02/10/23 20:27		NJG
Nitrogen, Total Kjeldahl (TKN)	0.88	mg/l	0.50	EPA 351.2 Rev 2.0	02/10/23		NJG
Phosphorus as P, Total	0.09	mg/l	0.01	SM 4500-P F	02/14/23		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	02/08/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2304173-03 **Collected By:** Client **Sampled:** 02/07/23 11:53 **Received:** 02/07/23 13:53
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	42	/100ml	2	SM 9222 D	2/7/23 16:45	2/8/23 14:45		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2304173-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B0687	02/13/2023	NJG

Notes and Definitions

C-37b The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.9 mg/L.
C-37d The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 2.8 mg/L.
C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 232 mg/L.
C-40e The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 268 mg/L.
C-54a The difference between the highest and lowest results were greater than 30% at 45.0%.

Certificate of Analysis

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

Laboratory No.: 2305277
Report: 02/16/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2305277-01 **Collected By:** Client **Sampled:** 02/08/23 07:57 **Received:** 02/08/23 13:52
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	211	mg/l	2.0	SM 5210 B	02/09/23 16:47	C-37d, C-40d	AMG
Solids, Total Suspended	182	mg/l	1	SM 2540 D	02/10/23		ALD

Lab ID: 2305277-02 **Collected By:** Client **Sampled:** 02/08/23 09:54 **Received:** 02/08/23 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	02/09/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	02/09/23 18:57	C-37, C-54	LMW
Nitrate as N	8.26	mg/l	1.00	EPA 300.0 Rev 2.1	02/08/23 16:09		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/08/23 16:09		KCS
Nitrate+Nitrite as N	<8.36	mg/l	1.10	CALCULATED	02/08/23 16:09		KCS
Nitrogen, Total	<9.00	mg/l	1.60	CALCULATED	02/11/23 0:18		NJG
Nitrogen, Total Kjeldahl (TKN)	0.64	mg/l	0.50	EPA 351.2 Rev 2.0	02/11/23		NJG
Phosphorus as P, Total	0.14	mg/l	0.01	SM 4500-P F	02/09/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	02/10/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2305277-03 **Collected By:** Client **Sampled:** 02/08/23 10:44 **Received:** 02/08/23 13:52
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	33	/100ml	2	SM 9222 D	2/8/23 16:38	2/9/23 15:04		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2305277-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B0519	02/09/2023	NJG

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.3 mg/L.
C-37d The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 2.7 mg/L.
C-40d The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 362 mg/L.
C-54 The difference between the highest and lowest results were greater than 30% at 64.1%.

Certificate of Analysis

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

Laboratory No.: 2304411
Report: 02/21/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2304411-01 **Collected By:** Client **Sampled:** 02/14/23 07:37 **Received:** 02/14/23 13:03
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	215	mg/l	2.0	SM 5210 B	02/15/23 14:24		RXN
Solids, Total Suspended	197	mg/l	1	SM 2540 D	02/16/23		ALD

Lab ID: 2304411-02 **Collected By:** Client **Sampled:** 02/14/23 07:38 **Received:** 02/14/23 13:03
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.03	mg/l	0.02	EPA 350.1 Rev 2.0	02/17/23		JMW
Carbonaceous Biochemical Oxygen Demand	2.2	mg/l	2.0	SM 5210 B	02/15/23 18:45	C-40, C-54a	RXN
Nitrate as N	7.20	mg/l	1.00	EPA 300.0 Rev 2.1	02/14/23 20:22		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/14/23 20:22		KCS
Nitrate+Nitrite as N	<7.30	mg/l	1.10	CALCULATED	02/14/23 20:22		KCS
Nitrogen, Total	<8.40	mg/l	1.60	CALCULATED	02/17/23 22:51		NJG
Nitrogen, Total Kjeldahl (TKN)	1.10	mg/l	0.50	EPA 351.2 Rev 2.0	02/17/23		NJG
Phosphorus as P, Total	0.16	mg/l	0.01	SM 4500-P F	02/17/23		JMW
Solids, Total Suspended	5	mg/l	1	SM 2540 D	02/16/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2304411-03 **Collected By:** Client **Sampled:** 02/14/23 09:40 **Received:** 02/14/23 13:03
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	260	/100ml	2	SM 9222 D	2/14/23 15:51	2/15/23 15:35		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2304411-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B0969	02/16/2023	JMW

Notes and Definitions

C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 243 mg/L.

C-54a The difference between the highest and lowest results were greater than 30% at 65.5%.

Certificate of Analysis

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

Laboratory No.: 2305434
Report: 02/28/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2305434-01 **Collected By:** Client **Sampled:** 02/15/23 07:58 **Received:** 02/15/23 13:32
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	167	mg/l	2.0	SM 5210 B	02/16/23 16:50	C-37a, C-40a, C-54	AMG
Solids, Total Suspended	58	mg/l	1	SM 2540 D	02/17/23		ALD

Lab ID: 2305434-02 **Collected By:** Client **Sampled:** 02/15/23 09:03 **Received:** 02/15/23 13:32
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.05	mg/l	0.02	EPA 350.1 Rev 2.0	02/20/23		JMW
Carbonaceous Biochemical Oxygen Demand	2.9	mg/l	2.0	SM 5210 B	02/16/23 19:02	C-37, C-54a	LMW
Nitrate as N	7.69	mg/l	1.00	EPA 300.0 Rev 2.1	02/15/23 19:09		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/15/23 19:09		KCS
Nitrate+Nitrite as N	<7.79	mg/l	1.10	CALCULATED	02/15/23 19:09		KCS
Nitrogen, Total	<8.99	mg/l	1.60	CALCULATED	02/24/23 18:07		NJG
Nitrogen, Total Kjeldahl (TKN)	1.20	mg/l	0.50	EPA 351.2 Rev 2.0	02/24/23		NJG
Phosphorus as P, Total	0.10	mg/l	0.01	SM 4500-P F	02/20/23		JMW
Solids, Total Suspended	4	mg/l	1	SM 2540 D	02/17/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2305434-03 **Collected By:** Client **Sampled:** 02/15/23 10:37 **Received:** 02/15/23 13:32
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	480	/100ml	2	SM 9222 D	2/15/23 16:54	2/16/23 15:13		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2305434-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B1093	02/20/2023	JMW

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9mg/L.
C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.5mg/L.
C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 244 mg/L.
C-54 The difference between the highest and lowest results were greater than 30% at 53.9%.
C-54a The difference between the highest and lowest results were greater than 30% at 73.5%.

Certificate of Analysis

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

Laboratory No.: 2306108
Report: 03/03/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2306108-01 **Collected By:** Client **Sampled:** 02/21/23 07:35 **Received:** 02/21/23 14:21
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	244	mg/l	2.0	SM 5210 B	02/22/23 10:55	C-37a, C-40b	RXN
Solids, Total Suspended	234	mg/l	1	SM 2540 D	02/22/23		ALD

Lab ID: 2306108-02 **Collected By:** Client **Sampled:** 02/21/23 07:42 **Received:** 02/21/23 14:21
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	02/22/23		JMW
Carbonaceous Biochemical Oxygen Demand	2.3	mg/l	2.0	SM 5210 B	02/22/23 12:00	C-37c	ZJB
Nitrate as N	8.73	mg/l	1.00	EPA 300.0 Rev 2.1	02/21/23 22:58		KCS
Nitrite as N	0.13	mg/l	0.10	EPA 300.0 Rev 2.1	02/21/23 22:58		KCS
Nitrate+Nitrite as N	8.86	mg/l	1.10	CALCULATED	02/21/23 22:58		KCS
Nitrogen, Total	9.92	mg/l	1.60	CALCULATED	02/24/23 22:09		NJG
Nitrogen, Total Kjeldahl (TKN)	1.06	mg/l	0.50	EPA 351.2 Rev 2.0	02/24/23		NJG
Phosphorus as P, Total	0.14	mg/l	0.01	SM 4500-P F	02/23/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	02/22/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2306108-03 **Collected By:** Client **Sampled:** 02/21/23 09:04 **Received:** 02/21/23 14:21
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	570	/100ml	2	SM 9222 D	2/21/23 15:50	2/22/23 14:52		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2306108-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B1278	02/22/2023	JMW

Notes and Definitions

C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.3 mg/L.
C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.6 mg/L.
C-40b The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 252 mg/L.

Certificate of Analysis

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

Laboratory No.: 2307195
Report: 03/02/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2307195-01 **Collected By:** Client **Sampled:** 02/22/23 08:22 **Received:** 02/22/23 14:10
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	300	mg/l	2.0	SM 5210 B	02/23/23 14:16	C-37	ZJB
Solids, Total Suspended	210	mg/l	1	SM 2540 D	02/24/23		ALD

Lab ID: 2307195-02 **Collected By:** Client **Sampled:** 02/22/23 08:29 **Received:** 02/22/23 14:10
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.05	mg/l	0.02	EPA 350.1 Rev 2.0	02/24/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	02/23/23 17:18	C-37a, C-40b	RXN
Nitrate as N	7.45	mg/l	1.00	EPA 300.0 Rev 2.1	02/22/23 18:18		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/22/23 18:18		KCS
Nitrate+Nitrite as N	<7.55	mg/l	1.10	CALCULATED	02/22/23 18:18		KCS
Nitrogen, Total	<8.41	mg/l	1.60	CALCULATED	02/25/23 2:31		NJG
Nitrogen, Total Kjeldahl (TKN)	0.86	mg/l	0.50	EPA 351.2 Rev 2.0	02/25/23		NJG
Phosphorus as P, Total	0.11	mg/l	0.01	SM 4500-P F	02/24/23		JMW
Solids, Total Suspended	1	mg/l	1	SM 2540 D	02/24/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2307195-03 **Collected By:** Client **Sampled:** 02/22/23 11:22 **Received:** 02/22/23 14:10
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	106	/100ml	2	SM 9222 D	2/22/23 16:44	2/23/23 14:47		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2307195-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3B1348	02/23/2023	NJG

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9 mg/L.
C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.1 mg/L.
C-40b The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 250.9 mg/L.

Certificate of Analysis

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

Laboratory No.: 2306351
Report: 03/14/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2306351-01 **Collected By:** Client **Sampled:** 02/28/23 07:34 **Received:** 02/28/23 13:27
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	159	mg/l	2.0	SM 5210 B	03/01/23 12:15	C-37c, C-40d	ZJB
Solids, Total Suspended	74	mg/l	1	SM 2540 D	03/01/23		ALD

Lab ID: 2306351-02 **Collected By:** Client **Sampled:** 02/28/23 07:39 **Received:** 02/28/23 13:27
Sample Desc: Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.04	mg/l	0.02	EPA 350.1 Rev 2.0	03/01/23		JMW
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	03/01/23 14:28	C-37, C-40	RXN
Nitrate as N	8.06	mg/l	1.00	EPA 300.0 Rev 2.1	02/28/23 18:22		KCS
Nitrite as N	0.23	mg/l	0.10	EPA 300.0 Rev 2.1	02/28/23 18:22		KCS
Nitrate+Nitrite as N	8.29	mg/l	1.10	CALCULATED	02/28/23 18:22		KCS
Nitrogen, Total	9.70	mg/l	1.60	CALCULATED	03/08/23 10:57		JMW
Nitrogen, Total Kjeldahl (TKN)	1.41	mg/l	0.50	EPA 351.2 Rev 2.0	03/08/23		JMW
Phosphorus as P, Total	0.14	mg/l	0.01	SM 4500-P F	03/01/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	03/01/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2306351-03 **Collected By:** Client **Sampled:** 02/28/23 10:18 **Received:** 02/28/23 13:27
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	70	/100ml	2	SM 9222 D	2/28/23 16:23	3/1/23 14:29		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2306351-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3C0061	03/01/2023	NJG

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.9 mg/L.

C-37c The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.4 mg/L.

C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 234.6 mg/L.

C-40d The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 264.4 mg/L mg/L.

Certificate of Analysis

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

Laboratory No.: 2307467
Report: 03/14/23
Lab Contact: Bradley T Griffiths

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

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2307467-01 **Collected By:** Client **Sampled:** 03/01/23 07:36 **Received:** 03/01/23 13:03
Sample Desc: Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	193	mg/l	2.0	SM 5210 B	03/02/23 15:00	C-37a, C-40a	KMS
Solids, Total Suspended	116	mg/l	1	SM 2540 D	03/02/23		ALD

Lab ID: 2307467-02 **Collected By:** Client **Sampled:** 03/01/23 07:37 **Received:** 03/01/23 13:03
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	03/02/23		JMW
Carbonaceous Biochemical Oxygen Demand	3.8	mg/l	2.0	SM 5210 B	03/02/23 16:47	C-37, C-40, C-54	KMS
Nitrate as N	8.58	mg/l	1.00	EPA 300.0 Rev 2.1	03/01/23 13:45		KCS
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	03/01/23 13:45		KCS
Nitrate+Nitrite as N	<8.68	mg/l	1.10	CALCULATED	03/01/23 13:45		KCS
Nitrogen, Total	<9.78	mg/l	1.60	CALCULATED	03/08/23 14:50		JMW
Nitrogen, Total Kjeldahl (TKN)	1.10	mg/l	0.50	EPA 351.2 Rev 2.0	03/08/23		JMW
Phosphorus as P, Total	0.13	mg/l	0.01	SM 4500-P F	03/02/23		JMW
Solids, Total Suspended	<1	mg/l	1	SM 2540 D	03/02/23		ALD

M.J. Reider Associates, Inc.

Lab ID: 2307467-03 **Collected By:** Client **Sampled:** 03/01/23 09:19 **Received:** 03/01/23 13:03
Sample Desc: Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	320	/100ml	2	SM 9222 D	3/1/23 16:19	3/2/23 15:48		RMB

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2307467-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B3C0122	03/02/2023	JMW

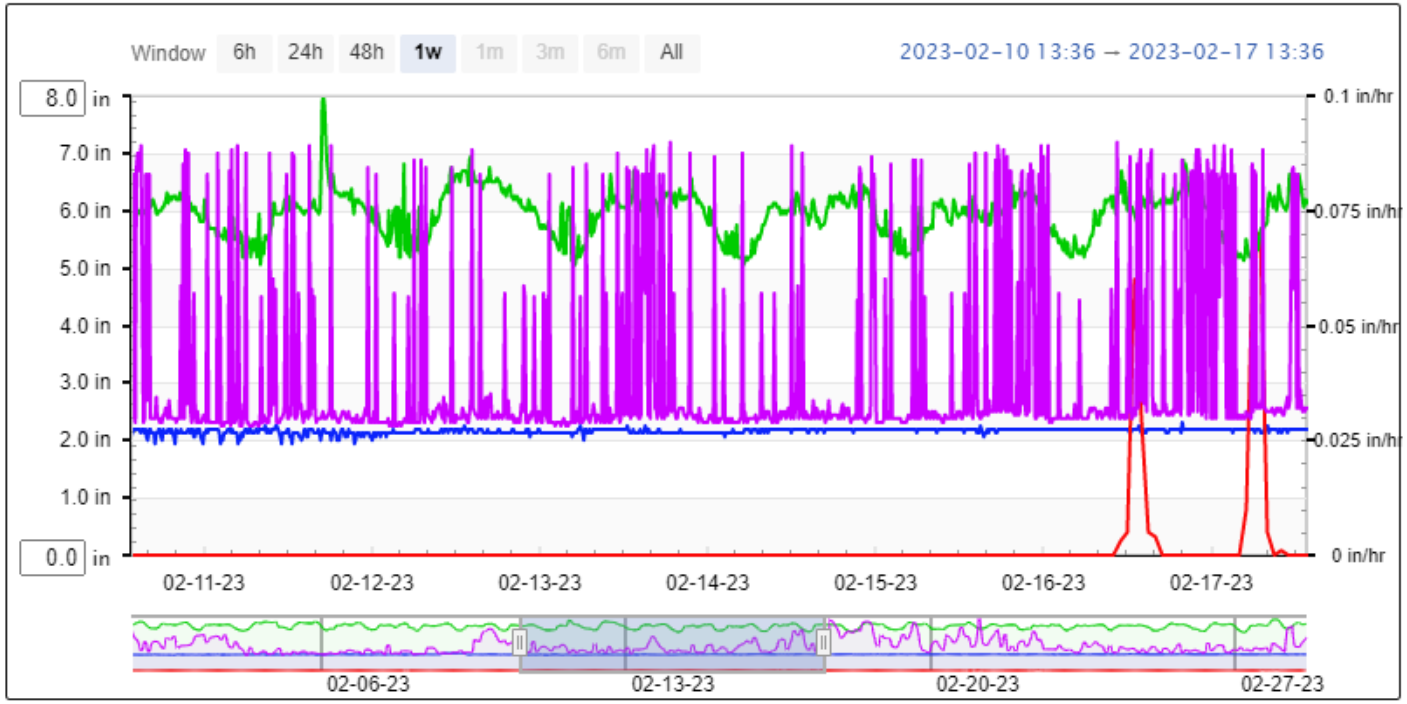
Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 0.8 mg/L.
C-37a The dissolved oxygen depletion for the dilution water blank was greater than 0.2 mg/L at 1.3mg/l.
C-40 The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 234 mg/L.
C-40a The Glucose-Glutamic Acid check was outside of the acceptable criteria of 198 ± 30.5 mg/L at 249 mg/L.
C-54 The difference between the highest and lowest results were greater than 30% at 119%.

Veolia North America Middletown

SMARTCOVER® SEWER INTELLIGENCE®

Static Charts



Time Period: Custom | Date Range: 2023-02-01 15:21 - 2023-02-28 15:21 | 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: 0.26 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

February, 2023

	Maximum Day	1,126,745					Days pumped	28
	Minimum Day	639,557						
Date	**Well No.1**	**Well No.2**	**Well No.3**	**Well No.4**	**Well No.5**	**Well No.6**	**Total**	**Union Booster**
01	249,528	298,989			141,282	436,946	1,126,745	123,282
02	237,240	297,589			134,605	432,568	1,102,002	77,189
03	162,426	300,722			89,547	272,423	825,118	125,696
04	165,638	300,546			91,535	288,081	845,800	75,951
05	159,933	300,089			88,798	280,061	828,881	68,483
06	173,919	299,282			96,654	304,133	873,988	134,344
07	140,262	299,084			77,433	244,337	761,116	69,322
08	172,868	298,535			96,220	302,049	869,672	133,379
09	116,991	299,022			65,354	204,725	686,092	73,876
10	191,796	297,046			107,043	336,061	931,946	123,228
11	128,209	297,903			71,712	223,507	721,331	74,044
12	212,065	296,393			118,183	369,654	996,295	134,761
13	119,041	297,176			66,478	207,656	690,351	137,099
14	181,237	295,502			101,177	317,027	894,943	63,602
15	178,582	296,369			100,134	315,066	890,151	134,691
16	111,352	296,496			62,422	195,314	665,584	75,508
17	182,603	295,999			102,084	320,726	901,412	124,829
18	116,524	296,222			65,031	202,731	680,508	63,982
19	194,221	295,757			108,497	339,939	938,414	113,050
20	166,289	294,327			92,893	292,418	845,927	94,206
21	106,010	288,617			59,308	185,622	639,557	84,223
22	198,930	294,524			111,013	347,128	951,595	115,286
23	105,378	297,016			59,087	185,226	646,707	75,010
24	189,634	294,167			105,984	332,109	921,894	129,502
25	112,251	296,686			62,559	195,501	666,997	64,314
26	193,930	294,203			108,013	338,104	934,250	131,755
27	164,994	294,822			92,019	288,581	840,416	70,136
28	172,100	294,971			95,740	288,265	851,076	139,111
Totals:	4,603,951	8,308,054			2,570,805	8,045,958	23,528,768	2,829,859
Maximum	249,528	300,722			141,282	436,946	1,126,745	139,111
Minimum	105,378	288,617			59,087	185,226	639,557	63,602
Average	164,427	296,716			91,814	287,356	840,313	101,066

	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	Feb	1 Wed															
6		2 Thu															
7		3 Fri															
8		4 Sat															
9		5 Sun															
10		6 Mon															
11		7 Tue		2-7-23	7.60	13.0	362.0	203.00	112.00	0.07	21.80	<0.02	<0.01	249.00	702.00	7.60	
12		8 Wed															
13		9 Thu															
14		10 Fri															
15		11 Sat															
16		12 Sun															
17		13 Mon															
18		14 Tue		2-14-23	7.70	14.0	347.0	196.00	107.00	0.06	21.50	<0.02	<0.01	241.00	716.00	7.70	
19		15 Wed															
20		16 Thu															
21		17 Fri															
22		18 Sat															
23		19 Sun															
24		20 Mon															
25		21 Tue		2-21-23	7.70	15.0	333.0	192.00	104.00	0.07	22.40	<0.02	<0.01	235.00	727.00	7.70	
26		22 Wed															
27		23 Thu															
28		24 Fri															
29		25 Sat															
30		26 Sun															
31		27 Mon															
32		28 Tue		2-28-23	7.60	15.0	354.0	197.00	110.00	0.06	22.30	<0.02	<0.01	244.00	724.00	7.60	
34	MINIMUM			2-14-23	7.60	13.0	333.0	192.00	104.00	0.06	21.50	<0.02	<0.01	235.00	702.00	7.60	
35	MAXIMUM			2-7-23	7.70	15.0	362.0	203.00	112.00	0.07	22.40	<0.02	<0.01	249.00	727.00	7.60	
36	AVERAGE			1	7.65	14.3	349.0	197.00	108.25	0.07	22.00	<0.02	<0.01	242.25	717.25	3.16	
37	SUM			4	30.60	57.0	1,396.0	788.00	433.00	0.26	88.00	<0.08	<0.04	969.00	2,869.00	12.62	

VEOLIA

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

File Uploaded Successfully by HANNANJ

6 messages

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:30 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 100 Well No 1 (12).XLS	HANNANJ	HANNANJ_1 through HANNANJ_28

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.

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ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:37 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 102 Well No 2 (11).XLS	HANNANJ	HANNANJ_29 through HANNANJ_56

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:38 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 103 Well No 3 (11).XLS	HANNANJ	HANNANJ_57 through HANNANJ_84

[Quoted text hidden]

---

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:38 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 104 Well No 4 (11).XLS	HANNANJ	HANNANJ_85 through HANNANJ_112

[Quoted text hidden]

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ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:39 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 105 Well No 5 (11).XLS	HANNANJ	HANNANJ_113 through HANNANJ_140

[Quoted text hidden]

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ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:40 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 106 Well No 6 (12).XLS	HANNANJ	HANNANJ_141 through HANNANJ_168

[Quoted text hidden]

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

Data Submitted Successfully by HANNANJ

1 message

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:36 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ successfully submitted data to DWELR.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_17	100	021723

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.

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

Data Added Successfully by HANNANJ

1 message

ra-padwis@state.pa.us <ra-padwis@state.pa.us> Tue, Mar 7, 2023 at 11:47 AM
To: kodi.webb@veolia.com, james.hannan@veolia.com, michael.barger@veolia.com

HANNANJ successfully added data to DWELR on 03/07/23 at 11:48 AM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_169	705	020323
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_170	701	020723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_171	703	020723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_172	706	020723
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_173	704	021423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_174	705	021423
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_175	701	022123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_176	703	022123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_177	706	022123
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_178	704	022823
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_179	705	022823

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.

Certificate of Analysis

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

Laboratory No.: 2304415
Reported: 02/20/23
Lab Contact: Christina M Kistler

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

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

Lab ID: 2304415-01 **Collected By:** Client **Sampled:** 02/07/23 09:01 **Received:** 02/07/23 13:53
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	2/7/23 16:27	2/8/23 12:50		NAK	N/A	1

Lab ID: 2304415-02 **Collected By:** Client **Sampled:** 02/07/23 08:34 **Received:** 02/07/23 13:53
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	2/7/23 16:27	2/8/23 12:50		NAK	N/A	1

Lab ID: 2304415-03 **Collected By:** Client **Sampled:** 02/07/23 08:45 **Received:** 02/07/23 13:53
Sample Desc: 706 North Union Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	2/7/23 16:27	2/8/23 12:50		NAK	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	701		020723	D	0901	06003	2304415-01	KISTLERC_423
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	703		020723	D	0834	06003	2304415-02	KISTLERC_424
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	704		021423	D	0903	06003	2305436-01	KISTLERC_426
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	705		021423	D	0844	06003	2305436-02	KISTLERC_427
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	706		020723	D	0845	06003	2304415-03	KISTLERC_425

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_582
7220038	2380	cis-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_607
7220038	2955	XYLENES (TOTAL)	221	0.0	0.00100		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_640
7220038	2964	DICHLOROMETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_667
7220038	2968	o-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_692
7220038	2969	PARA-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_717
7220038	2976	VINYL CHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_742
7220038	2977	1,1-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_767
7220038	2979	trans-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_792
7220038	2980	1,2-DICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_817

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2981	1,1,1-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_842
7220038	2982	CARBON TETRACHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_867
7220038	2983	1,2-DICHLOROPROPANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_892
7220038	2984	TRICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_919
7220038	2985	1,1,2-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_944
7220038	2987	TETRACHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_970
7220038	2989	CHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_995
7220038	2990	BENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1020
7220038	2991	TOLUENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1045
7220038	2992	ETHYLBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1070
7220038	2996	STYRENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1095

Certificate of Analysis

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

Laboratory No.: 2304414
Reported: 02/16/23
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2304414-01 **Collected By:** Client **Sampled:** 02/07/23 09:03 **Received:** 02/07/23 13:35
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	203	mg CaCO3/ L	2	SM 2320 B	02/14/23		APR	N/A	N/A	
Total Hardness as CaCO3	362	mg/l	4.56	CALCULATED	02/09/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	02/09/23		JMW	N/A	N/A	
Silica as SiO2	21.8	mg/l	2.14	CALCULATED	02/08/23		HRG	N/A	N/A	
Conductivity	702	umhos/cm	1	SM 2510 B	02/14/23		LMW	N/A	N/A	
Total Metals										
Calcium	112	mg/l	1	EPA 200.7 Rev 4.4	02/09/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	02/08/23		HRG	N/A	0.3	PASS
Magnesium	19.8	mg/l	0.5	EPA 200.7 Rev 4.4	02/09/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	02/10/23		MPB	N/A	0.05	PASS
Silicon	10.2	mg/l	1.0	EPA 200.7 Rev 4.4	02/08/23		HRG	N/A	N/A	

Notes and Definitions

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

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2304414-01			
SM 4500-P F	SM 4500-P B	02/08/2023	JMW

Certificate of Analysis

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

Laboratory No.: 2305436
Reported: 02/21/23
Lab Contact: Christina M Kistler

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

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

Lab ID: 2305436-01 **Collected By:** Client **Sampled:** 02/14/23 09:03 **Received:** 02/14/23 13:03
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	2/14/23 14:18	2/15/23 11:00		RMB	N/A	1

Lab ID: 2305436-02 **Collected By:** Client **Sampled:** 02/14/23 08:44 **Received:** 02/14/23 13:03
Sample Desc: 705 High Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	2/14/23 14:18	2/15/23 11:00		RMB	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	701		020723	D	0901	06003	2304415-01	KISTLERC_423
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	703		020723	D	0834	06003	2304415-02	KISTLERC_424
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	704		021423	D	0903	06003	2305436-01	KISTLERC_426
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	705		021423	D	0844	06003	2305436-02	KISTLERC_427
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	706		020723	D	0845	06003	2304415-03	KISTLERC_425

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_582
7220038	2380	cis-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_607
7220038	2955	XYLENES (TOTAL)	221	0.0	0.00100		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_640
7220038	2964	DICHLOROMETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_667
7220038	2968	o-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_692
7220038	2969	PARA-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_717
7220038	2976	VINYL CHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_742
7220038	2977	1,1-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_767
7220038	2979	trans-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_792
7220038	2980	1,2-DICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_817

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2981	1,1,1-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_842
7220038	2982	CARBON TETRACHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_867
7220038	2983	1,2-DICHLOROPROPANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_892
7220038	2984	TRICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_919
7220038	2985	1,1,2-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_944
7220038	2987	TETRACHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_970
7220038	2989	CHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_995
7220038	2990	BENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1020
7220038	2991	TOLUENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1045
7220038	2992	ETHYLBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1070
7220038	2996	STYRENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1095

Certificate of Analysis

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

Laboratory No.: 2305435
Reported: 02/23/23
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2305435-01 **Collected By:** Client **Sampled:** 02/14/23 09:19 **Received:** 02/14/23 13:03
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	196	mg CaCO3/ L	2	SM 2320 B	02/16/23		APR	N/A	N/A	
Total Hardness as CaCO3	347	mg/l	4.56	CALCULATED	02/17/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	02/20/23		JMW	N/A	N/A	
Silica as SiO2	21.5	mg/l	2.14	CALCULATED	02/17/23		HRG	N/A	N/A	
Conductivity	716	umhos/cm	1	SM 2510 B	02/21/23		LMW	N/A	N/A	
Total Metals										
Calcium	107	mg/l	1	EPA 200.7 Rev 4.4	02/17/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	02/16/23		HRG	N/A	0.3	PASS
Magnesium	19.1	mg/l	0.5	EPA 200.7 Rev 4.4	02/17/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	02/16/23		MPB	N/A	0.05	PASS
Silicon	10.0	mg/l	1.0	EPA 200.7 Rev 4.4	02/17/23		HRG	N/A	N/A	

Notes and Definitions

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

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2305435-01			
SM 4500-P F	SM 4500-P B	02/16/2023	JMW

Certificate of Analysis

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

Laboratory No.: 2306353
Reported: 02/27/23
Lab Contact: Christina M Kistler

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

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

Lab ID: 2306353-01 **Collected By:** Client **Sampled:** 02/21/23 09:03 **Received:** 02/21/23 14:21
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	2/21/23 15:37	2/22/23 11:07		NAK	N/A	1

Lab ID: 2306353-02 **Collected By:** Client **Sampled:** 02/21/23 08:25 **Received:** 02/21/23 14:21
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	2/21/23 15:37	2/22/23 11:07		NAK	N/A	1

Lab ID: 2306353-03 **Collected By:** Client **Sampled:** 02/21/23 08:44 **Received:** 02/21/23 14:21
Sample Desc: 706 North Union Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 706

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	2/21/23 15:37	2/22/23 11:07		NAK	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	701		020723	D	0901	06003	2304415-01	KISTLERC_423
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	701		022123	D	0903	06003	2306353-01	KISTLERC_1428
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	703		020723	D	0834	06003	2304415-02	KISTLERC_424
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	703		022123	D	0825	06003	2306353-02	KISTLERC_1429
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	704		021423	D	0903	06003	2305436-01	KISTLERC_426
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	705		021423	D	0844	06003	2305436-02	KISTLERC_427
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	706		020723	D	0845	06003	2304415-03	KISTLERC_425
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	706		022123	D	0844	06003	2306353-03	KISTLERC_1430

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_582
7220038	2380	cis-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_607
7220038	2955	XYLENES (TOTAL)	221	0.0	0.00100		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_640
7220038	2964	DICHLOROMETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_667
7220038	2968	o-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_692
7220038	2969	PARA-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_717
7220038	2976	VINYL CHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_742

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2977	1,1-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_767
7220038	2979	trans-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_792
7220038	2980	1,2-DICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_817
7220038	2981	1,1,1-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_842
7220038	2982	CARBON TETRACHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_867
7220038	2983	1,2-DICHLOROPROPANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_892
7220038	2984	TRICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_919
7220038	2985	1,1,2-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_944
7220038	2987	TETRACHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_970
7220038	2989	CHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_995
7220038	2990	BENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1020
7220038	2991	TOLUENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1045
7220038	2992	ETHYLBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1070
7220038	2996	STYRENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1095

Certificate of Analysis

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

Laboratory No.: 2306352
Reported: 03/01/23
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2306352-01 **Collected By:** Client **Sampled:** 02/21/23 09:05 **Received:** 02/21/23 14:21
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	192	mg CaCO3/ L	2	SM 2320 B	02/28/23		ORL	N/A	N/A	
Total Hardness as CaCO3	333	mg/l	4.56	CALCULATED	02/24/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.07	mg/l	0.01	SM 4500-P F	02/24/23		JMW	N/A	N/A	
Silica as SiO2	22.4	mg/l	2.14	CALCULATED	02/23/23		HRG	N/A	N/A	
Conductivity	727	umhos/cm	1	SM 2510 B	02/28/23		ALD	N/A	N/A	
Total Metals										
Calcium	104	mg/l	1	EPA 200.7 Rev 4.4	02/24/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	02/23/23		HRG	N/A	0.3	PASS
Magnesium	18.0	mg/l	0.5	EPA 200.7 Rev 4.4	02/24/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	02/22/23		MPB	N/A	0.05	PASS
Silicon	10.4	mg/l	1.0	EPA 200.7 Rev 4.4	02/23/23		HRG	N/A	N/A	

Notes and Definitions

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

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2306352-01			
SM 4500-P F	SM 4500-P B	02/23/2023	JMW

Certificate of Analysis

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

Laboratory No.: 2307469
Reported: 03/03/23
Lab Contact: Christina M Kistler

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

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

Lab ID: 2307469-01 **Collected By:** Client **Sampled:** 02/28/23 08:36 **Received:** 02/28/23 13:27
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	2/28/23 15:47	3/1/23 15:47		NAK	N/A	1

Lab ID: 2307469-02 **Collected By:** Client **Sampled:** 02/28/23 08:21 **Received:** 02/28/23 13:27
Sample Desc: 705 High Street Standpipe **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 705

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	2/28/23 15:47	3/1/23 15:47		NAK	N/A	1

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	701		020723	D	0901	06003	2304415-01	KISTLERC_423
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	701		022123	D	0903	06003	2306353-01	KISTLERC_1428
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	703		020723	D	0834	06003	2304415-02	KISTLERC_424
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	703		022123	D	0825	06003	2306353-02	KISTLERC_1429
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	704		021423	D	0903	06003	2305436-01	KISTLERC_426
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	030123	704		022823	D	0836	06003	2307469-01	KISTLERC_1916
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	705		021423	D	0844	06003	2305436-02	KISTLERC_427
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	030123	705		022823	D	0821	06003	2307469-02	KISTLERC_1917
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	706		020723	D	0845	06003	2304415-03	KISTLERC_425
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	022223	706		022123	D	0844	06003	2306353-03	KISTLERC_1430

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_582
7220038	2380	cis-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_607
7220038	2955	XYLENES (TOTAL)	221	0.0	0.00100		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_640
7220038	2964	DICHLOROMETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_667
7220038	2968	o-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_692

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2969	PARA-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_717
7220038	2976	VINYL CHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_742
7220038	2977	1,1-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_767
7220038	2979	trans-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_792
7220038	2980	1,2-DICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_817
7220038	2981	1,1,1-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_842
7220038	2982	CARBON TETRACHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_867
7220038	2983	1,2-DICHLOROPROPANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_892
7220038	2984	TRICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_919
7220038	2985	1,1,2-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_944
7220038	2987	TETRACHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_970
7220038	2989	CHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_995
7220038	2990	BENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1020
7220038	2991	TOLUENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1045
7220038	2992	ETHYLBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1070
7220038	2996	STYRENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1095

Certificate of Analysis

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

Laboratory No.: 2307468
Reported: 03/06/23
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2307468-01 **Collected By:** Client **Sampled:** 02/28/23 08:54 **Received:** 02/28/23 13:27
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	197	mg CaCO3/ L	10	SM 2320 B	03/02/23		ORL	N/A	N/A	
Total Hardness as CaCO3	354	mg/l	4.56	CALCULATED	03/01/23		HRG	N/A	N/A	
Phosphorus as P, Total	0.06	mg/l	0.01	SM 4500-P F	03/02/23		JMW	N/A	N/A	
Silica as SiO2	22.3	mg/l	2.14	CALCULATED	03/03/23		HRG	N/A	N/A	
Conductivity	724	umhos/cm	1	SM 2510 B	03/03/23		ALD	N/A	N/A	
Total Metals										
Calcium	110	mg/l	1	EPA 200.7 Rev 4.4	03/01/23		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	03/02/23		HRG	N/A	0.3	PASS
Magnesium	19.0	mg/l	0.5	EPA 200.7 Rev 4.4	03/01/23		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	03/01/23		MPB	N/A	0.05	PASS
Silicon	10.4	mg/l	1.0	EPA 200.7 Rev 4.4	03/03/23		HRG	N/A	N/A	

Notes and Definitions

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

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2307468-01			
SM 4500-P F	SM 4500-P B	03/01/2023	JMW

Certificate of Analysis

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

Laboratory No.: 2304413
Reported: 02/20/23
Lab Contact: Christina M Kistler

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

Project: DW-Quarterly VOCS
7220038

Lab ID: 2304413-01 **Collected By:** Client **Sampled:** 02/07/23 00:00 **Received:** 02/07/23 13:53
Sample Desc: 103 Entry Point Well #3 **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
Field										
No Sample	0			MJRA	02/07/23		NAG	N/A	N/A	

Lab ID: 2304413-02 **Collected By:** Client **Sampled:** 02/07/23 08:02 **Received:** 02/07/23 13:53
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	02/09/23	V-06	WJS	N/A	0.2	PASS
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.007	PASS
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.07	PASS
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.6	PASS
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.075	PASS
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.1	PASS
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.07	PASS
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.7	PASS
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.1	PASS
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	1	PASS
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.1	PASS
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.005	PASS

Lab ID: 2304413-02 Continued

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max		Pass/ Fail
Volatiles										
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	0.002	PASS
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	02/09/23	V-06	WJS	N/A	10	PASS
Surrogates										
1,2-Dichlorobenzene-d4	*101%*		*70-130*	*EPA 524.2 Rev 4.1*	02/09/23	V-06	WJS			
4-Bromofluorobenzene	*105%*		*70-130*	*EPA 524.2 Rev 4.1*	02/09/23	V-06	WJS			

Notes and Definitions

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

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

Fail Result greater than EPA maximum contaminant level.

7220038: VEOLIA MIDDLETOWN

SDWA1

PWSID	Contam ID	Contam	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	701		020723	D	0901	06003	2304415-01	KISTLERC_423
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	703		020723	D	0834	06003	2304415-02	KISTLERC_424
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	704		021423	D	0903	06003	2305436-01	KISTLERC_426
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	021523	705		021423	D	0844	06003	2305436-02	KISTLERC_427
7220038	3100	TOTAL COLIFORM PRESENCE	331	0.0	020823	706		020723	D	0845	06003	2304415-03	KISTLERC_425

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2378	1,2,4-TRICHLOROBENZE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_582
7220038	2380	cis-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_607
7220038	2955	XYLENES (TOTAL)	221	0.0	0.00100		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_640
7220038	2964	DICHLOROMETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_667
7220038	2968	o-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_692
7220038	2969	PARA-DICHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_717
7220038	2976	VINYL CHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_742
7220038	2977	1,1-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_767
7220038	2979	trans-1,2-DICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_792
7220038	2980	1,2-DICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_817

7220038: VEOLIA MIDDLETOWN

SDWA4

PWSID	Contam ID	Contam	Analysis Method	Result	Lower Limit of Detection	Counting Error	Analysis Date	Loc/EP ID	Loc/EP ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
7220038	2981	1,1,1-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_842
7220038	2982	CARBON TETRACHLORIDE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_867
7220038	2983	1,2-DICHLOROPROPANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_892
7220038	2984	TRICHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_919
7220038	2985	1,1,2-TRICHLOROETHANE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_944
7220038	2987	TETRACHLOROETHYLENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_970
7220038	2989	CHLOROBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_995
7220038	2990	BENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1020
7220038	2991	TOLUENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1045
7220038	2992	ETHYLBENZENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1070
7220038	2996	STYRENE	221	0.0	0.00050		020923	106		020723	E	0802	06003	2304413-02	KISTLERC_1095

APPENDIX 3
CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

FEBRUARY 2023 CUSTOMER SERVICE CALLS

VEOLIA MIDDLETOWN

Date	How Contact Was Received			Customer Service Inquiries															Field Service Requests					Field Request Info
	Call direct to Middletown CS	Customer Corrsponda nce (Letters/Em ails)	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	
February 1st, 2023	36	1	37							3	1	27	2	1	2									
February 2nd, 2023	25	3	28	1						5		15	2			1			1					
February 3rd, 2023	60	0	60	2						4	3	47	3		1									
February 6th, 2023	44	2	46	1				1		5	1	32	3		1									
February 7th, 2023	43	3	46	3						4		33	2									1		
February 8th, 2023	28	2	30							1		22	5											
February 9th, 2023	22	1	23	1			1	1		2	2	11	4											
February 10th, 2023	58	4	62	2						3	1	45	7											
February 13th, 2023	50	6	56					1		4		44	5						1	1				
February 14th, 2023	21	4	25							2		18				1								
February 15th, 2023	75	0	75	1						2	2	64		2	3					1				
February 16th, 2023	24	2	26							3		21												
February 17th, 2023	52	3	55	2			1	1		5		41			1								1	
February 21st, 2023	36	1	37	1						3		28		2	2									
February 22nd, 2023	29	1	30				2			3	1	20	3											
February 23rd, 2023	42	0	42							4		34	2		1	1								
February 24th, 2023	33	1	34	1						1		27	4											
February 27th, 2023	20	0	20							2		15	2		1									
February 28th , 2023	20	1	21	2						1		16	1											
GRAND TOTALS	*724*	*29*	*753*	*17*	*0*	*0*	*4*	*4*	*0*	*57*	*11*	*560*	*45*	*5*	*12*	*3*	*0*	*0*	*2*	*2*	*0*	*1*	*1*	*0*

2023 MIDDLETOWN COLLECTION INFORMATION

	Bill Due Date	Date 10 Day Notice Issued	Number of 10 Day Notices issued for Balances over $50.00	Date 3 Day Notices Posted	Number of 3 Day Notices for Balances over $100.00	Shut offs
January Bill Cycle	2/15/2023	2/21/2023	237	3/10/2023	53	NO SHUT OFF DUE TO WEATHER
February Bill Cycle						
March Bill Cycle						
April Bill Cycle						
May Bill Cycle						
June Bill Cycle						
July Bill Cycle						
August Bill Cycle						
September Bill Cycle						
October Bill Cycle						
November Bill Cycle						
December Bill Cycle						

ACTION		ISSUED THIS PERIOD ISSUED	ISSUED THIS PERIOD COMPLETED	ISSUED THIS PERIOD VOIDED	ISSUED THIS PERIOD OUTSTANDING	PRIOR ORDERS COMPLETED	PRIOR ORDERS VOIDED	PRIOR ORDERS OUTSTANDING	TOTAL COMPLETED	TOTAL OUTSTANDING
C	CONNECT	4	4	0	0	165	4	0	169	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	40	40	0	0	3,430	87	0	3,470	0
M	METER CHANGE	4	4	0	0	688	8	0	692	0
O	OCC CHANGE	11	11	0	0	1,417	3	0	1,428	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	2	2	0	0	804	23	0	806	0
	** GRAND TOTALS **	61	61	0	0	6,588	134	0	6,649	0

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID
W 36512922	INVENTORY				1460197074 Duplica
W 36512921	INVENTORY				1440128082 Duplica
W 37016026	INVENTORY				1470153476
W 27016014	INVENTORY				1548612198
W 85441897	INVENTORY				1563419820
W 53388599	INVENTORY				1551754996
W 10871871	INVENTORY				1568031178
W 10871883	INVENTORY				1563387082
W 10871886	INVENTORY				1563522708

*** TOTAL METERS IN SERVICE 2749
*** TOTAL METERS IN INVENTORY 739

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE
ACTIVE ACCOUNTS:	2,730	194,147.76	770,538.84	964,686.60
DISCONNECTED ACCTS:	11	1,341.09	409.05	1,750.14
FINALED ACCOUNTS:	358	16,224.93		16,224.93
INACTIVE ACCOUNTS:	12,398	0.00		0.00
GRAND TOTALS	15,497	211,713.78	770,947.89	982,661.67

ACTIVE ACCOUNT RECONCILIATION	
NEW ACCOUNTS:	22
DISCONNECT--NO TRF:	11
DISCONNECT-TRANSFER:	0

CALCULATION SUMMARY

TOTAL CHARGES:	770,947.89
DEPOSIT RETURNS:	0.00
TOTAL CURRENT:	770,947.89

====== 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	2659	406,957.12	0.00	0.00	0.00	15506,400.0000		15506,400.0000
SR	SURCHARGE	3	0.00	0.00	0.00	0.00			
SR2	SURCHARGE 2	2706	99,029.81	0.00	0.00	0.00			
W	WATER	5350	264,960.96	0.00	0.00	0.00	20818,600.0000		20818,600.0000
	TOTALS		770,947.89	0.00	0.00	0.00			

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

	R/C DESCRIPTION	G/L ACCOUNT#	AMOUNT
SERVICES:			
	200-WTR MDT	687-145900	85,878.25
	208-WTR MDT COMMERCIAL	687-145900	106,990.00
	206-CUSTOMER CHARGE	687-145900	12,344.35
	207-SERVICE CHG / METER	687-145900	48,527.30
	210-WTR ROYAL	687-145900	11,159.00
	220-WTR L SWI	687-145900	62.06
	280-SURCHARGE WATER/SEWER	687-145900	0.00
	281-SURCHARGE WATER/SEWER	687-145900	99,029.81
	300-SWR MDT	687-145800	342,609.58
	306-SW CUST CHARGE	687-145800	64,347.54
	310-SWR ROYAL	687-145800	0.00
	320-SWR L SWI	687-145800	0.00
	R/C TOTALS		770,947.89

========== 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	2657	406,957.12	0.00	0.00	0.00	15,506,400.0000	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	3	0.00	0.00	0.00	0.00		
SR2	231	SR2	SURCHARGE WATER/SEWE	SR2	2706	99,029.81	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	35	4,802.12	0.00	0.00	0.00	380,300.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	7,298.88	0.00	0.00	0.00	678,900.0000	
W	200	C20	COMM 2" MTR	C20	21	20,919.30	0.00	0.00	0.00	1,955,700.0000	
W	200	C30	COMM 3" MTR	C30	5	8,761.64	0.00	0.00	0.00	826,600.0000	
W	200	C40	COMM 4" MTR	C40	2	280.12	0.00	0.00	0.00	19,500.0000	
W	200	C58	COMM 5/8" MTR	C58	10	589.94	0.00	0.00	0.00	35,100.0000	
W	200	C60	COMM 6" MTR	C60	12	58,550.08	0.00	0.00	0.00	5,572,100.0000	
W	200	C75	COMM 3/4" MTR	C75	2	435.08	0.00	0.00	0.00	37,400.0000	
W	200	C80	COMM 8" MTR	C80	4	8,359.20	0.00	0.00	0.00	781,900.0000	
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	62.06	0.00	0.00	0.00	500.0000	
W	200	NCW	NO CHG	NCW	27	0.00	0.00	0.00	0.00	67,800.0000	
W	200	R10	RESID 1" MTR	R10	21	1,042.76	0.00	0.00	0.00	51,400.0000	
W	200	R58	RESID - 5/8'" MTR	R58	2562	137,813.79	0.00	0.00	0.00	7,750,000.0000	
W	200	R60	RESID 6" MTR	R60	1	4,308.82	0.00	0.00	0.00	409,500.0000	
W	200	R75	RESID 3/4" MTR	R75	4	447.92	0.00	0.00	0.00	34,200.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	11,159.00	0.00	0.00	0.00	2,217,700.0000	
W	210	A1V	FLAT RATE WATER -VAR	A1V	2	130.25	0.00	0.00	0.00		
W	220	MC	WATER METER CHARGE -	MC	2616	0.00	0.00	0.00	0.00		
			TOTALS			770,947.89	0.00	0.00	0.00		

METER GROUP TOTALS

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	20,818,600.0000	0.000	20,818,600.0000	

REFUNDED DEPOSIT TOTALS

CODE	DESCRIPTION	NUMBER	AMOUNT
	DEPOSIT TOTALS	0	0.00

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

=== REVENUE CODE TOTALS ===

REVENUE CODE:	--CURRENT--	+1 MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
081-NSF CK FEE	40.00	20.00	0.00	0.00	0.00	60.00
200-WTR MDT	85506.03	14998.68	6606.27	3085.90	5287.96	115484.84
201-WATER TURN ON	0.00	8.66	8.70	8.17	14.47	40.00
203-WTR MDT COMMERCIAL	107302.96	7563.05	851.82	0.00	99.01	115816.84
206-CUSTOMER CHARGE	12130.25	2139.70	856.89	436.78	2420.81	17984.43
207-SERVICE CHG / METER	47613.66	8395.40	3334.18	1691.20	9406.42	70440.86
210-WTR ROYAL	11159.00	0.00	0.00	0.00	0.00	11159.00
220-WTR L SWT	62.06	0.00	0.00	0.00	0.00	62.06
230-SURCHARGE WATER/SEWER	16.28	17.21	15.20	15.20	1757.73	1821.62
231-SURCHARGE WATER/SEWER	96430.69	6887.24	1958.24	765.28	1731.05	107772.50
275-WTR PEN	178.64CR	1753.59	664.08	302.50	867.11	3408.64
300-SWR MDT	340048.30	48966.84	15601.78	6555.59	11169.97	422342.48
306-SW CUST CHARGE	63207.07	11375.35	4612.61	2434.79	26055.67	107685.49
375-SWR PEN	249.49CR	2912.41	1111.16	511.50	2117.09	6402.67
996-UNAPPLIED	16324.47CR	0.00	0.00	0.00	0.00	16324.47CR
999-REFUND	1543.15CR	0.00	0.00	0.00	0.00	1543.15CR
TOTALS	745220.55	105038.13	35620.93	15806.91	60927.29	962613.81

TOTAL REVENUE CODES: 962,613.81
TOTAL ACCOUNT BALANCE: 962,613.81
DIFFERENCE: 0.00

PERIOD: 2/01/2023 THRU 2/28/2023
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	01	2	435.04CR
	03	1	9.32CR
	07	1	50.00
	15	7	29.05CR
	17	1	20.00
	24	126	16,723.93
	28	3	15.49
		ADJUSTMENT TOTAL	16,336.01
BILL	01	2	26.16CR
	02	1	14.40
	03	1	32.64
	07	2	24.51CR
	08	1	72.92
	10	2	78.84
	14	1	54.53
	15	30	1,103.17CR
	17	6	149.22CR
	22	2	133.23
	24	2,736	771,918.33
		BILL TOTAL	771,001.83
LATE CHARGE	23	436	6,333.61
		LATE TOTAL	6,333.61
MEMO	17	28	0.00
		MEMO TOTAL	0.00
PAYMENT	01	112	19,590.40CR
	02	157	25,587.28CR
	03	73	12,880.80CR
	06	329	75,057.01CR
	07	68	16,700.74CR
	08	143	34,984.60CR
	09	58	9,725.01CR
	10	135	23,988.14CR
	13	213	58,257.07CR
	14	24	3,606.33CR
	15	229	156,319.98CR
	16	44	7,872.96CR
	17	109	46,770.46CR
	21	108	38,261.48CR
	22	45	8,197.56CR
	23	62	13,061.75CR

Difference - adj total ± $Billed - other Revenue
$22,669.62

PERIOD: 2/01/2023 THRU 2/28/2023
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
	24	53	27,615.26CR
	27	24	5,553.39CR
	28	36	8,892.33CR
		PAYMENT TOTAL	592,922.55CR
DRAFT	15	364	56,579.84CR
	21	26	24,874.58CR
		DRAFT TOTAL	81,454.42CR
REVERSE-PAY	02	1	243.48
	17	1	433.69
	28	2	956.94
		REVERSE PAY TOTAL	1,634.11
		GRAND TOTAL FOR PERIOD	120,928.59

Total Collected) = $674,376.97

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,663	15,506,400	15,506,400			$ 406,981.53
SR	2,657	0	0			
SR2	2,710	0	0			$ 99,036.85
W	5,355	20,818,600	20,818,600			$ 264,983.45

IDLE METER REPORT

**** REPORT TOTALS ****

Book	Services	Addresses
02 - BOOK 02	1	0
04 - BOOK 04	3	0
05 - BOOK 05	1	0
08 - BOOK 08	3	3
09 - BOOK 09	1	1
12 - BOOK 12	2	0
15 - BOOK 15	2	0
16 - BOOK 16	3	0
18 - BOOK 18	2	0
20 - BOOK 20	1	1
21 - BOOK 21	3	2
25 - BOOK 25	1	0
29 - BOOK 29	1	0
Grand Totals	24	7

Partner Reporting Dashboard

Back to Partner Select Page

SUEZ (Middletown)

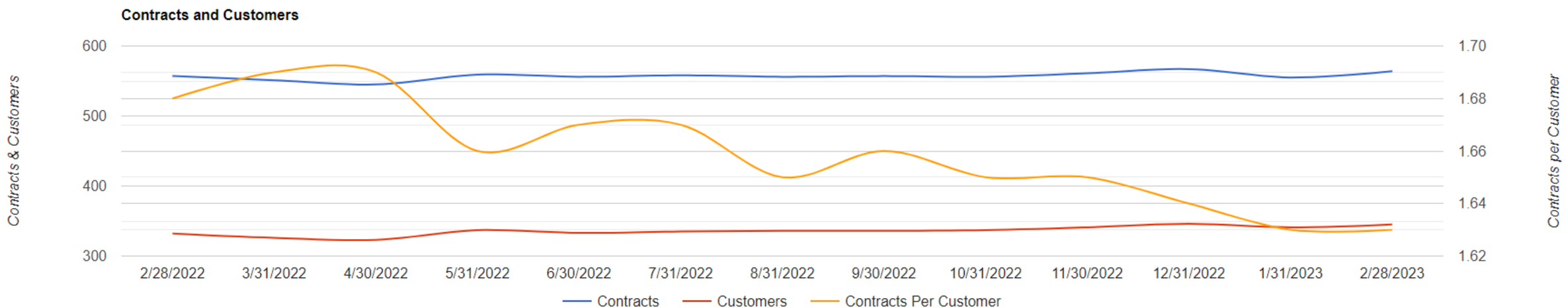
Date Start

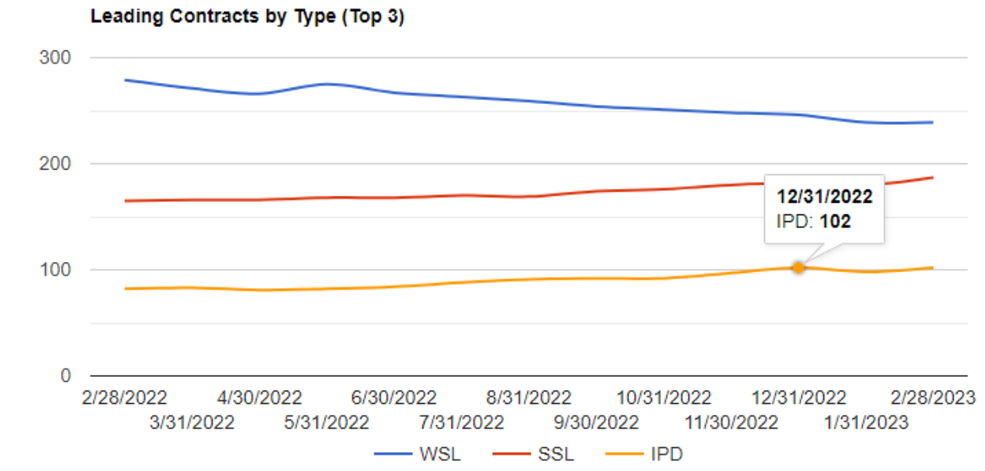
2022-02-28

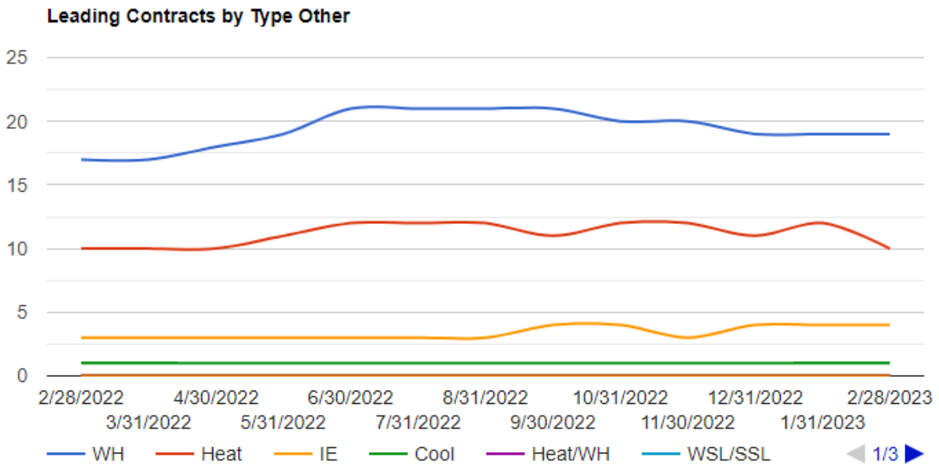
Date End

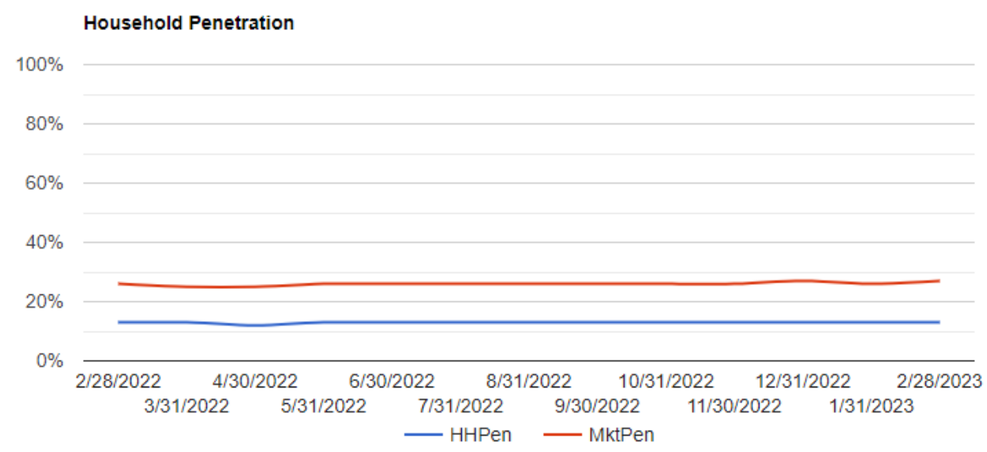
2023-02-28

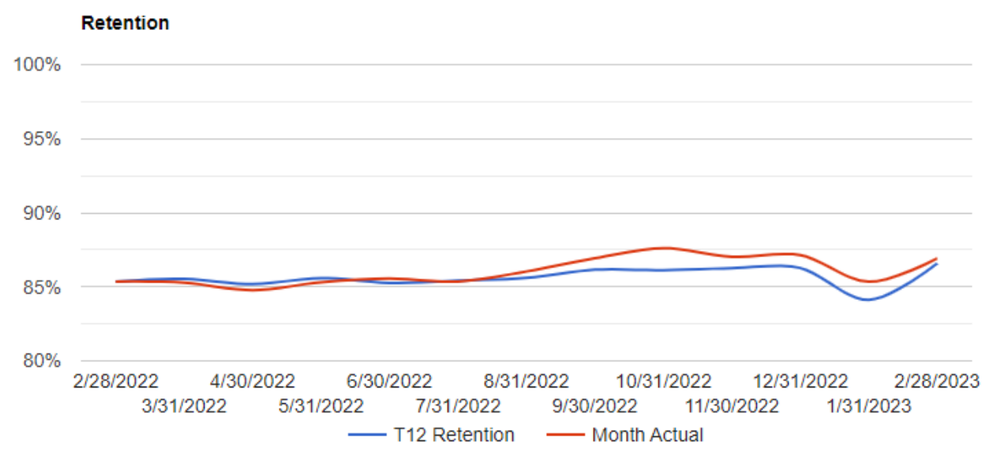
Filter



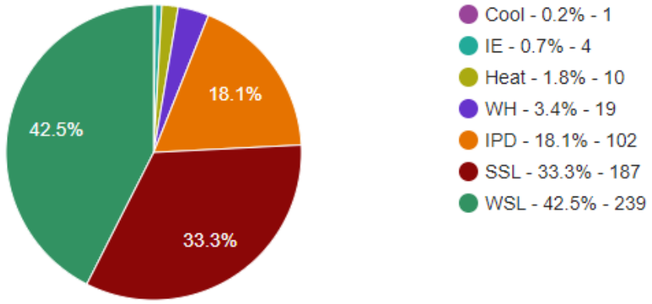

Leading Contracts by Type (Top 3)
300
200
100
0
12/31/2022
IPD: 102
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023
WSL
SSL
IPD


Leading Contracts by Type Other
25
20
15
10
5
0
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023
WH
Heat
IE
Cool
Heat/WH
WSL/SSL
1/3


Household Penetration
100%
80%
60%
40%
20%
0%
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023
HHPen
MktPen

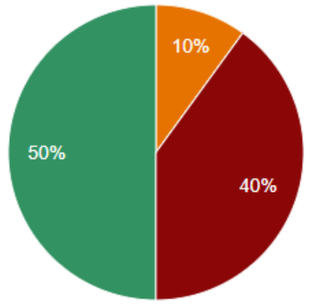

Retention
100%
95%
90%
85%
80%
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023
T12 Retention
Month Actual

Contracts by Product Type



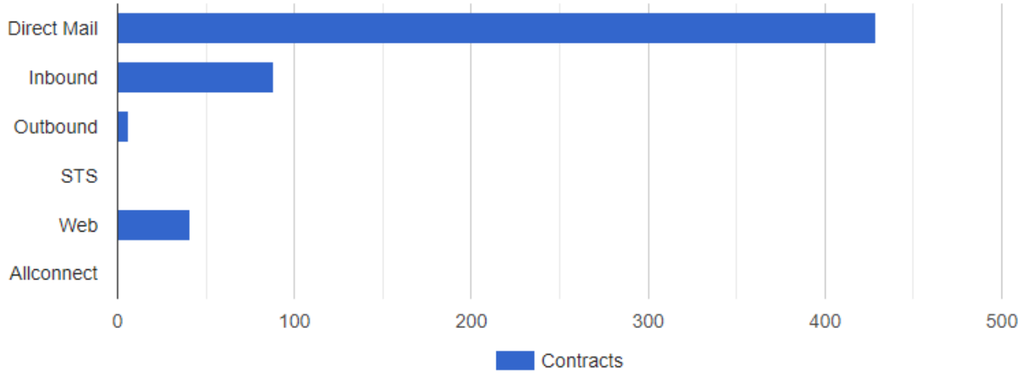
- Cool - 0.2% - 1
- IE - 0.7% - 4
- Heat - 1.8% - 10
- WH - 3.4% - 19
- IPD - 18.1% - 102
- SSL - 33.3% - 187
- WSL - 42.5% - 239

Contracts by Type - Last 30 Days

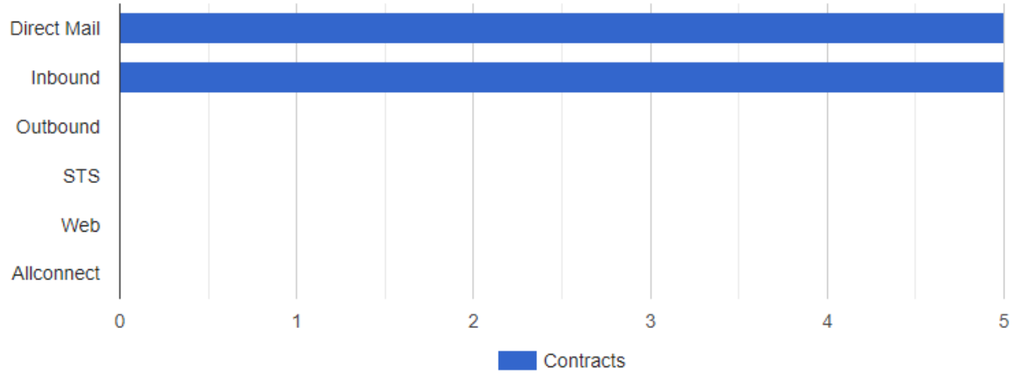


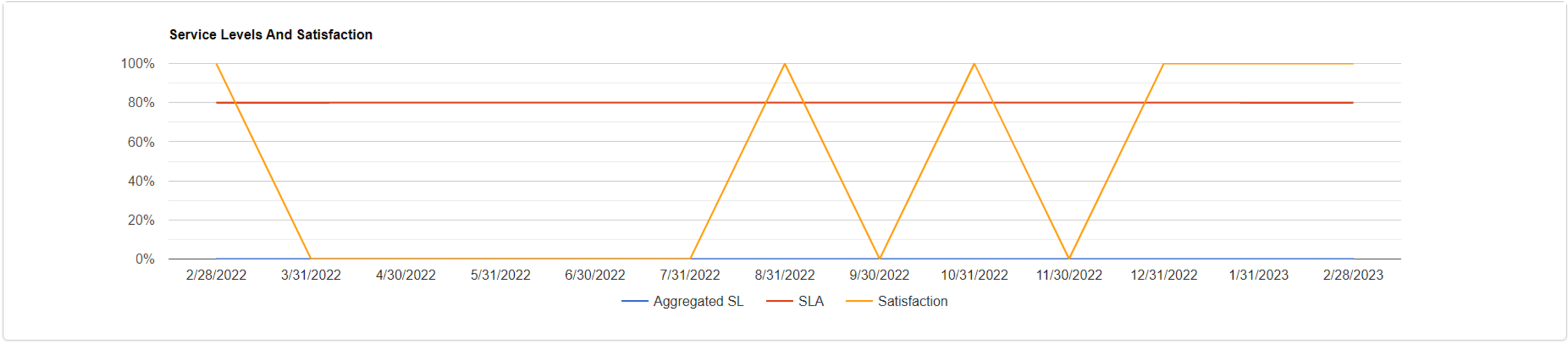
- WSL - 10.0% - 1
- SSL - 40.0% - 4
- IPD - 50.0% - 5

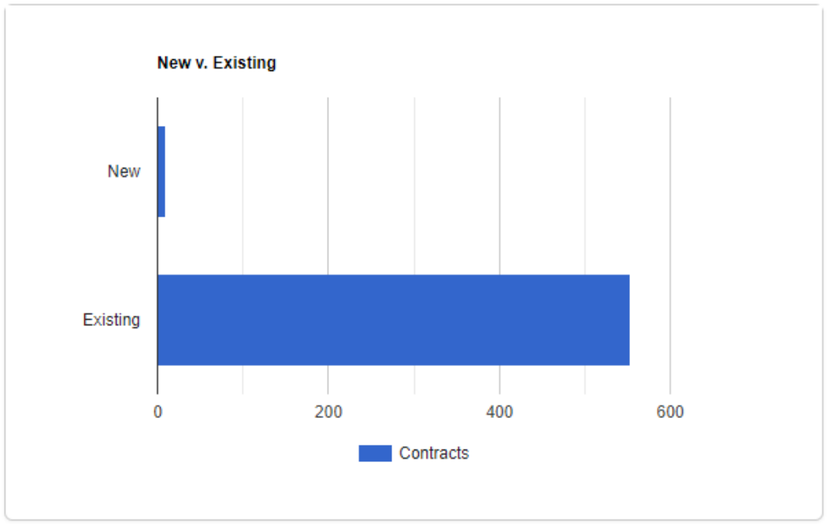
Contracts by Channel

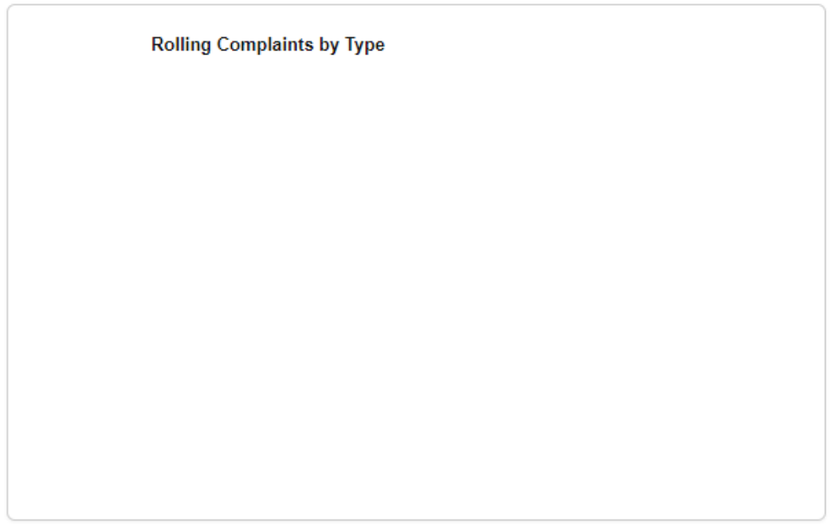


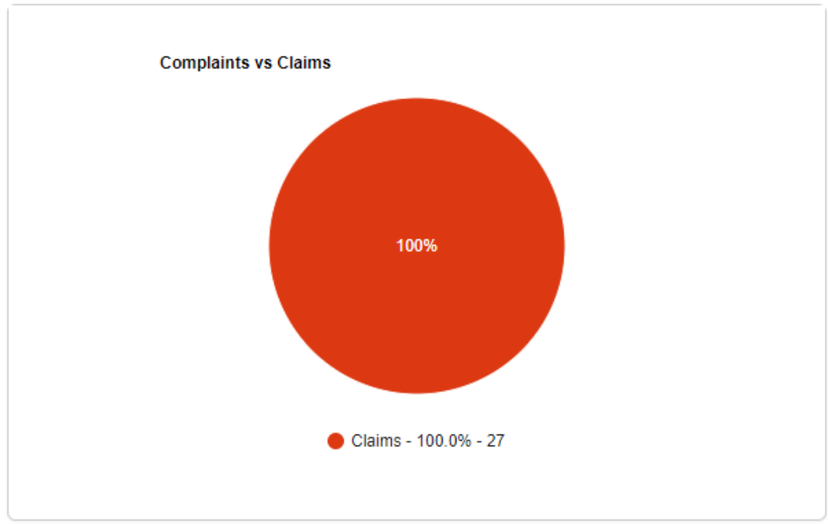
Contracts by Channel - Last 30 Days

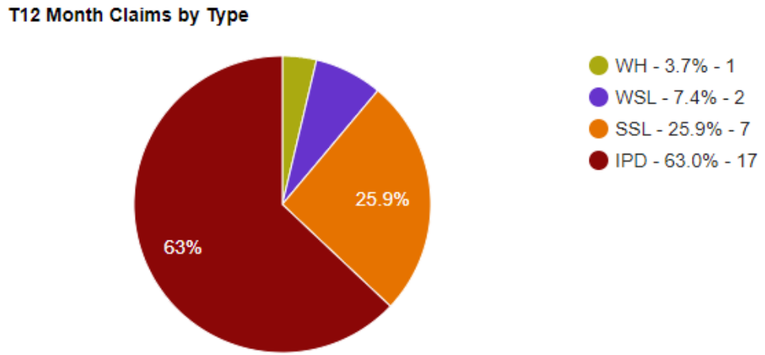


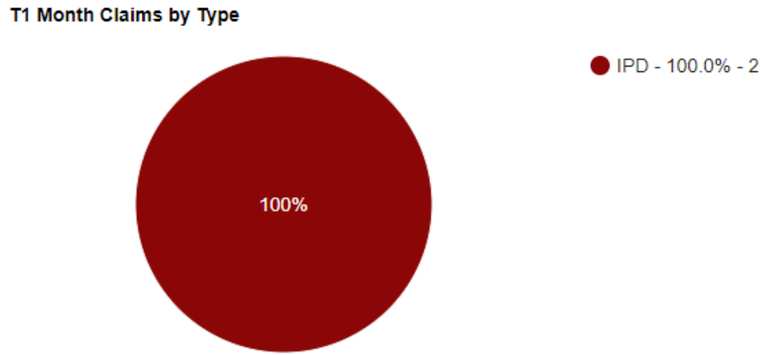

Service Levels And Satisfaction
100%
80%
60%
40%
20%
0%
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023
Aggregated SL
SLA
Satisfaction

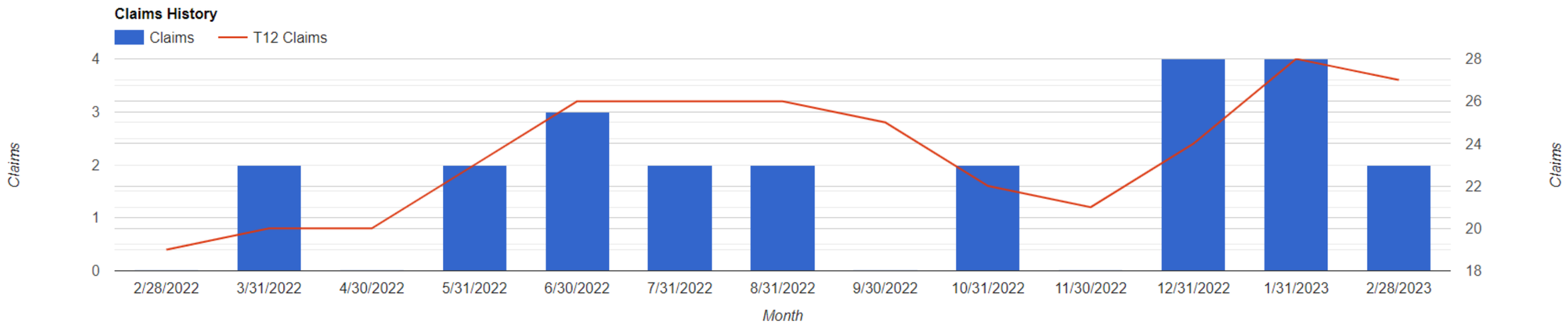

New v. Existing
New
Existing
0
200
400
600
Contracts


Rolling Complaints by Type


Complaints vs Claims
100%
Claims - 100.0% - 27


T12 Month Claims by Type
WH - 3.7% - 1
WSL - 7.4% - 2
SSL - 25.9% - 7
IPD - 63.0% - 17
25.9%
63%


T1 Month Claims by Type
IPD - 100.0% - 2
100%


Claims History
Claims
T12 Claims
Claims
Month
0
1
2
3
4
18
20
22
24
26
28
2/28/2022
3/31/2022
4/30/2022
5/31/2022
6/30/2022
7/31/2022
8/31/2022
9/30/2022
10/31/2022
11/30/2022
12/31/2022
1/31/2023
2/28/2023

APPENDIX 4

WATER MAIN LEAK LOGS

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: 2-7-23

Location Segment number: _____

Pipe Material: Galvanized

Pipe Size: 2"

Pipe Age: _____

Pipe Depth: 37 Witherspoon: 34" | 2nd Door Church: 29" | 1st Door Church: 27"

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: Water coming out of Church Sump Pump

Vac to locate break

WORK PERFORMED: Vac 3 holes to locate leak, leak Detection in to assist Found leak under ugi new Service lines in front of 37 Witherspoon Install Repair Clamp 2" leak stop listen on line no noise, Back filled hole with stone

Need Black Top

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
2-7-23	M (Tu) W Th F	CH	3	RR	3	CK	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						
	M Tu W Th F						

Vendor	Scheduled On-Site Start	Scope of Work	Invoiced?

Part Description	Part #	Qty.	Inventory (I)or Purchased (P)
2" Clamp		1	I

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: Veolia Application Date: 2-7-23

Phone Number: 717-948-3055 Date of Opening: 2-7-23

Date of Completion: 2-7-23 Emergency: ___Yes X No

STREET OPENING PERMIT issued to: Veolia 453 S. Union St MDT Pa 17057
NAME ADDRESS

for permission to excavate Borough streets abutting 37 Witherspoon Ave in order to
STREET ADDRESS

make the following connection(s): Water Leak

Length 20 4/6 ft Width 20 4 3 ft Depth_____ft Total Square Feet_____

Distance from nearest Intersection 194 ft N/S/E/W Nearest Street Intersection S Catherine St

Provide Condition of Street _____ Existing Paving Type Macadam

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

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

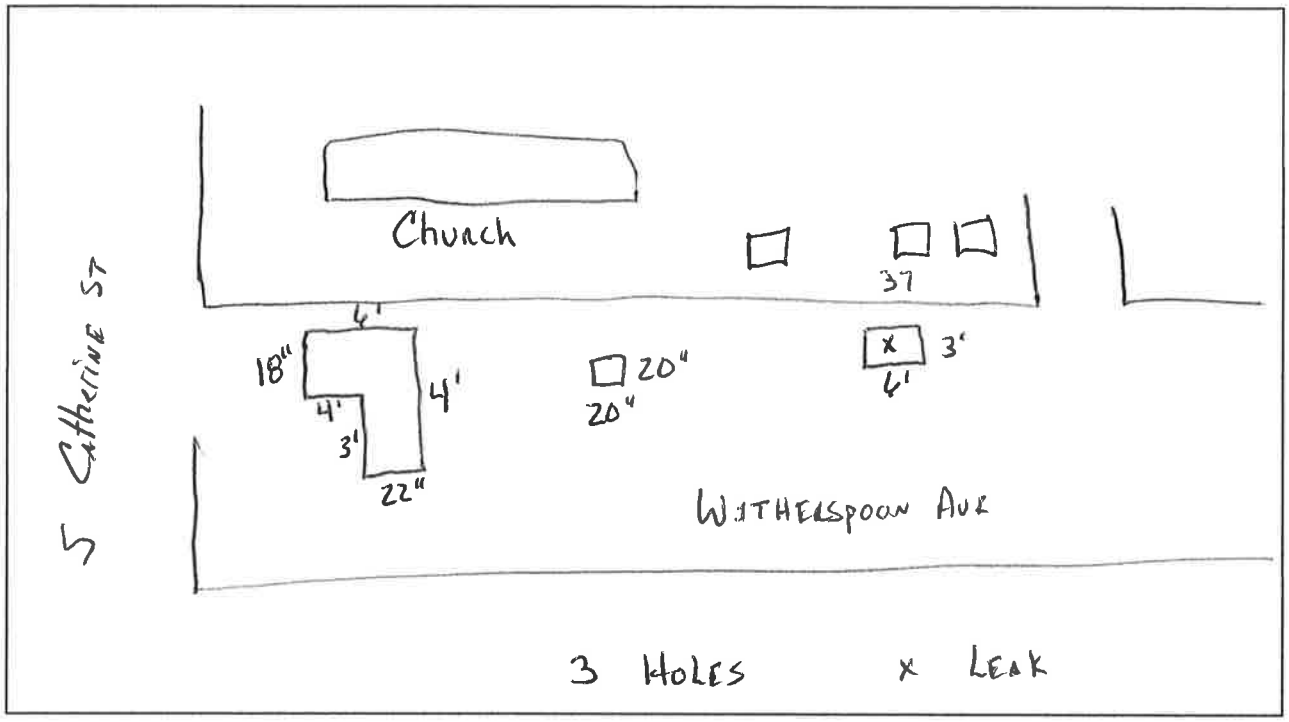
Date: _____ Permittee: _____

_____

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

Sections of ORDINANCE NO. 2019 - 1358

It shall be unlawful for any person, firm or corporation to make any opening or excavation in or under any street, alley or thoroughfare within the limits of the Borough of Middletown unless and until a permit for that purpose is secured.

As a permit requirement, it shall be the responsibility of the contractor to notify residences and business adjacent to the work area, and emergency services (717-558-6900) a minimum of 48 hours prior to any work. Residences and businesses shall be notified door to door and/or with door hangers.

Before any permit shall be issued to excavate any street, permittee shall give Middletown a bond with corporate surety acceptable to Middletown in an amount of at least $2,000 or such greater amount as Middletown may determine is necessary.

Permit charges shall be $100 for the first 50 square feet excavated plus $50 for each additional 50 square feet excavated or portion thereof, plus a $100 GIS fee.

In the case of any emergency it shall be lawful to commence an excavation to remedy such condition before securing a permit, provided that application for a permit shall be made within 24 hours and all other provisions of this Part are fully complied with.

Maintenance and protection of traffic during road work shall be carried out in accordance with PennDOT Publication 212 and 213.

A traffic control plan including duration of closure, narrative, and proposed detour route shall be approved by the Borough before any traffic may be detoured.

Warning signs shall be placed in advance of the street excavation and at distances and intervals as to be visible to the traveling public, and substantial barricades with adequate illumination shall be provided and maintained for any open trench or hole in the excavation site. Blinking lights and barricades shall be used for overnight protection of the work site.

The permittee shall designate and assign employees to direct traffic, when necessary. Flaggers shall be provided as specified in the permit and in accordance with PennDOT Publication 212 and 213.

At the end of each work day, the excavated area shall be completely backfilled and/or steel plates shall be placed over the excavation to accommodate traffic.

Permanent restoration (see detail sheet):

1. If more than 50 linear feet of longitudinal or transverse openings, or both, are made in the roadway, the Borough designee may require the permittee to mill and overlay lanes in which the openings were made, for the entire length of roadway that was opened if the Borough determines that the rideability or structural integrity of the roadway has been impaired by the openings.

2. If four or more openings are made by the same permittee within 100 linear feet of roadway, the Borough may require the permittee to restore the entire disturbed roadway between the openings by milling, planning or other authorized method and overlaying the entire disturbed roadway.

Any damaged surface adjacent to the work shall be replaced with the same materials and using the same design as was in place before the opening or excavation.

The replaced surface must be maintained for a period of two years at the proper grade, without ridges or depressions, and in as good of a condition as it was prior to the opening or excavation.

Restored openings in the roadway or paved shoulder shall have all edges sealed with PG 64-22 liquid asphalt minimum 6" width.

If within 2 years after the restoration defects shall appear therein, the applicant shall be liable for the cost of repairing said defect and for any injury or damages resulting therefrom. In the event of settlement creating a hazard to traffic or public safety, said applicant shall cause the same to be repaired within 24 hours after notice by the Borough to the applicant, said notice need not be in writing. In the event of the defect not constituting an immediate hazard, same shall be repaired within 1 week after notice by the Borough.

The excavation or opening shall be made by a clean cut using a diamond wheel or similar tool. Openings shall be saw-cut back 12 inches from the limit of the trench. Minimum saw-cut opening shall be a nominal 3 feet in width.

To protect the pavement of the existing street surface, all equipment shall have rubber wheels or rubber, wood, or similar protective pads between the outriggers and the surface, unless otherwise authorized by permit. If the equipment damages the pavement, the permittee shall restore the pavement to their former condition, at permittee's expense.

Construction for street restoration shall be in conformance with the latest revisions of Publication 72 entitled "Roadway Construction Standards" and Publication 408 entitled "Roadway Specifications" published by PennDOT

When any edge of the trench is located within 2 feet of an existing pavement joint, the remaining pavement between the edge of trench and the joint shall be removed and replaced in the same manner as the trench restoration.

Excavation shall be backfilled with No. 2A coarse aggregate and compacted throughout its full width in accordance with industry accepted vibrator compactions standards in layers not to exceed 6 inches. Metallic marking tape shall be installed one foot below the roadway surface to identify the facility.

Temporary Restoration (see detail sheet):

1. **Cold or hot asphalt mix shall be installed immediately after the work is completed within the street excavation on a daily basis within paved areas open to traffic. The asphalt mix shall be placed and compacted to a minimum thickness of 2" and be flush with the surrounding pavement.**

2. **Temporary paving shall be maintained at all times.**

3. **Weather permitting, 30 days following substantial completion of the excavation work, the permittee shall cause permanent restoration of the excavation site be completed in accordance with the provisions set forth in the full Ordinance.**

All disturbed portions of a street, including all appurtenances and structures such as guardrails or drainpipes, shall be restored to a condition equal to that which existed before the start of any work authorized by permit.

When both longitudinal and transverse trench openings are made in the pavement, the Borough may require the permittee to mill and overlay all traffic lanes in which such openings were made for the entire length of highway that was opened, if the Borough determines that the structural integrity or the riding quality has been substantially impaired.

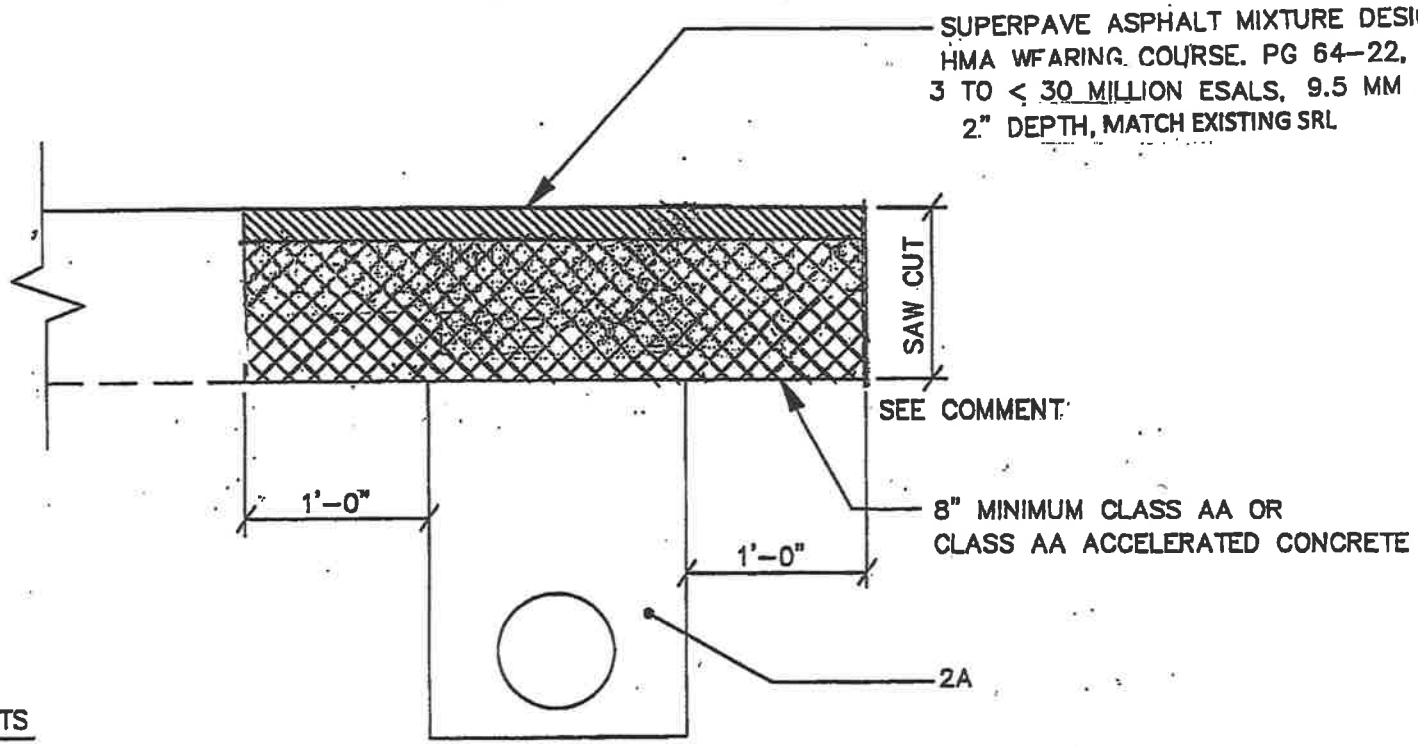
The Borough reserves the right to place an inspector on any and all jobs it deems necessary in order to insure good workmanship and actual expense of said inspection shall be charged to the permittee.

Upon receipt of verbal or written notice of any violations from the Borough, the permittee shall cease to perform any further work in the permitted area except to restore the area to a safe condition. No further work shall commence in the permitted area until the violation(s) has been remedied unless the Borough gives the permittee written directions for the contrary.

RIGID PAVEMENT RESTORATION

(BITUMINOUS OVERLAY OR PLAIN CEMENT BASE COURSE)

NOT TO SCALE

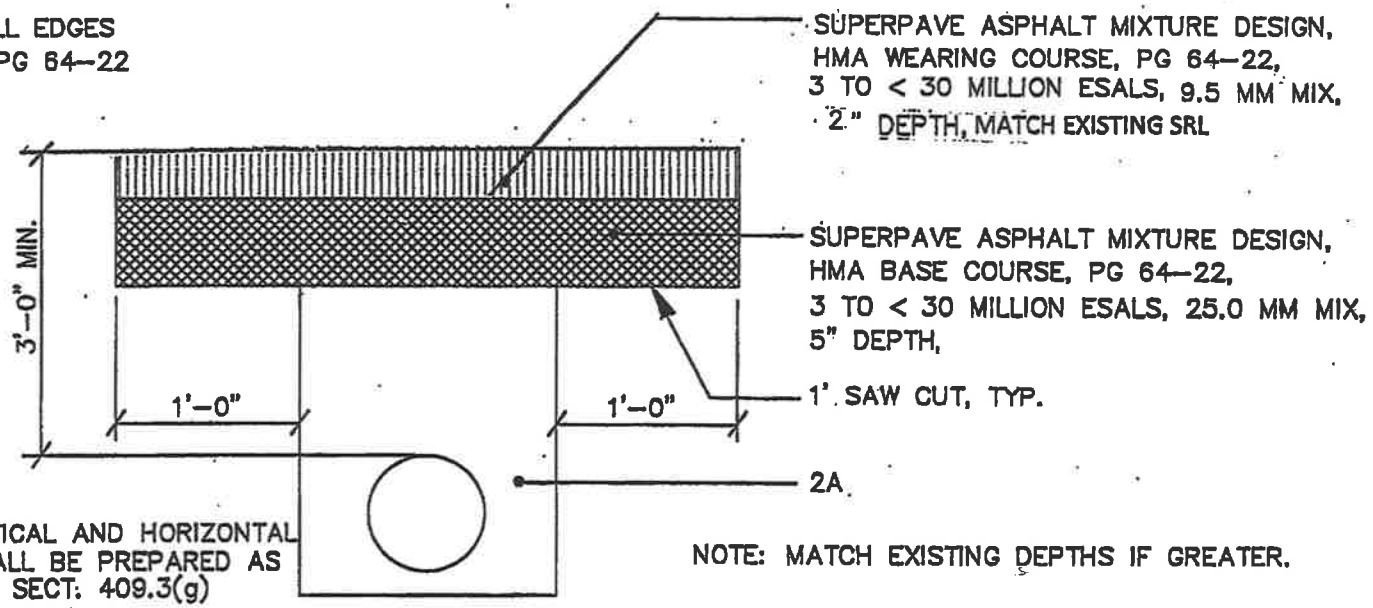


COMMENTS

1. SURFACE OF REPLACEMENT CONCRETE TO BE AT SAME ELEVATION AS EXISTING SLAB.
2. CUT BACK IS NOT REQUIRED BEYOND A TRANSVERSE OR LONGITUDINAL JOINT OR CURB.

FLEXIBLE PAVEMENT RESTORATION

NOT TO SCALE



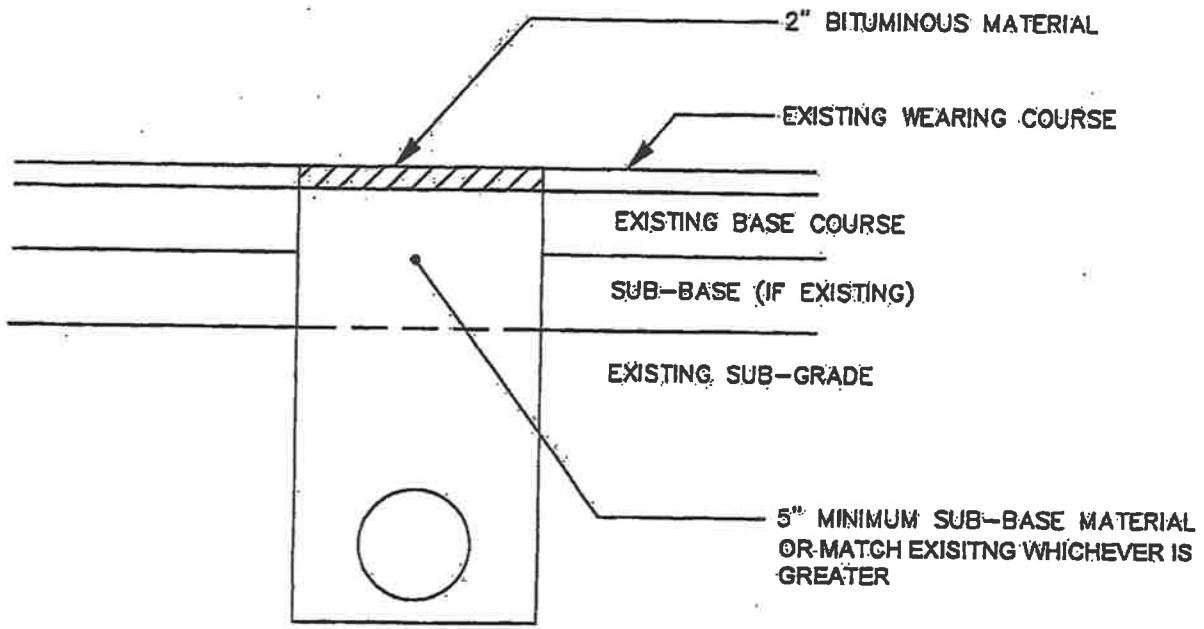
COMMENTS

1. EXPOSED VERTICAL AND HORIZONTAL SURFACES SHALL BE PREPARED AS PER PUB .408, SECT: 409.3(g)
2. MINIMUM 1' PAVEMENT CUTBACK, EXCAVATE OLD AND TEMPORARY MATERIAL. RECOMPACT SUB–GRADE, TACK COAT ALL VERTICAL EDGES. INSTALL ONLY BASE COURSE IN ONE DAY.

NOTE: MATCH EXISTING DEPTHS IF GREATER.

TEMPORARY PAVEMENT RESTORATION

NOT TO SCALE



SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line __X__Main _____Other

Population Affected: ____0____

Address of leak: 37 WITHERSPOON AVE

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

Date / Time of arrival on scene: 2 / 7 / 23 0910 (am) / pm

Time pipe leak is exposed: _____ am / pm

Time repair started: _____ am / pm

Time repair finished: _____ am / pm

Method used for repair: 2" 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

---

Name _____ **Date** _____

See back for Cl^2 Disinfection Formula

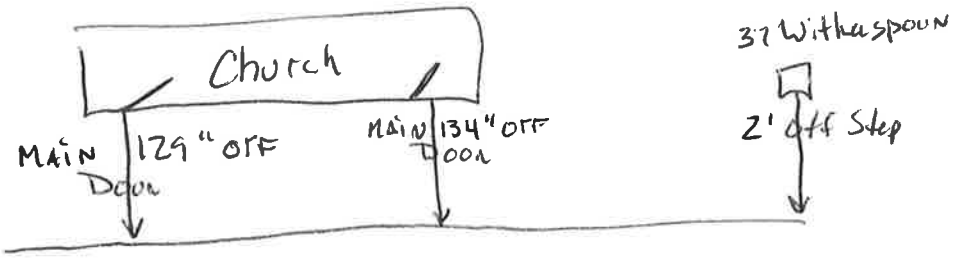
Formula For Disinfecting Water Mains

Pipe diameter in feet = pipe diameter in inches = _____ = _____ diameter, feet
12 12

Million Gallons = 0.785 X _____ pipe diam.in ft. X _____ pipe dia. in ft. X _____ pipe length in ft x 7.48
1,000,000

= _____ Million Gallons

Lbs of HTH = 300 mg/l dosage X _____ Million Gallons X 8.34 = _____ lbs of HTH



J. J. Keller & Associates, Inc.®
Since 1953

SUEZ Management & Services Inc.
To: Eric Espindola <Eric.Espindola@veolia.com>; Christopher Pope <christopher.pope1@veolia.com>

Driver Qualification File Management Service

The attached notifications are sent to help you correct incomplete or missing items in your Driver Qualification files. Use the following guidelines to update this information.

Read through the notification entirely and make the requested update(s) on the attached form and return to J. J. Keller & Associates, Inc. If a form is not attached as part of the notification, obtain the appropriate form and complete as instructed.

If you receive another notification on the same item, either the information is still missing or it was not corrected properly the first time. Call your dedicated Client Service Specialist to review notifications and answer any of your questions.

Please ensure the document is legible before returning it to J. J. Keller & Associates, Inc.

Mail notification updates to:
J. J. Keller & Associates, Inc.
Driver Qualification Department, MS 1520
7273 State Road 76
Neenah, WI 54956

Thank you for your continued support of our Driver Qualification File Management Service.

Email updated driver paperwork to: dqpod3@jjkeller.com

J. J. Keller & Associates, Inc.®
Since 1953

SUEZ Management & Services Inc.
To: Eric Espindola <Eric.Espindola@veolia.com>; Christopher Pope <christopher.pope1@veolia.com>

1/Middletown, PA

James Hannan **Code: Hannan**

Annual DOT Review / Certificate of Violations (AR-CV) **Notification: 1 of 1**

Soon to Be (30 days) Expires on: (2/7/2023)

ANNUAL REVIEW OF DRIVING RECORD

MOTOR CARRIER INSTRUCTIONS: Review the driver Certification of Violations and other information described in Section 391.25 of the Federal Motor Carrier Safety Regulations. Complete the information requested below.

Name of Driver: JAMES C HANNAN Terminal: _____

Driver's License Number: 22 055 681 State: PA

Date of Employment: 12-3-99 Expiration Date: 2-26-24

I have reviewed the driving record of the above named driver in accordance with Section 391.25 and find that he/she (check one):

_____ Meets minimum requirements for safe driving

_____ Is disqualified to drive a motor vehicle pursuant to Section 391.15.

_____ Does not adequately meet satisfactory safe driving performance.

Action taken with driver:

_____

_____

_____

✓ By checking here, I certify that I am an owner/operator operating under my own DOT Number

Reviewed by: Signature: _____ Date: _____

Printed Name: _____ Title: _____

Motor Carrier Name: _____

Motor Carrier Address: _____

_____

Please complete, sign if requested and return to: J. J. Keller & Associates, Inc. 7273 State Road 76 Neenah, WI 54956

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: 2-15-23

Location Segment number: _____

Pipe Material: Ductile

Pipe Size: _____

Pipe Age: _____

Pipe Depth: _____

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: Leak Detection heard noise

WORK PERFORMED: Jack hammer 22" x22" hole Vacuum out hole found Pipe No leak Back filled hole Cold Patch

Needs Black-Top

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
2-15-23	M Tu (W) Th F	CH	3	TH	3	RR	2 1/2
2-15-23	M Tu (W) Th F	CK	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)
ZA Stone			I

No._____

Borough of Middletown
Street Opening Permit

Contractor's Name: Veolia Application Date: 2-15-23

Phone Number: 717-948-3055 Date of Opening: 2-15-23

Date of Completion: 2-15-23 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 S Union · Keystone in order to
STREET ADDRESS

make the following connection(s): Locate Water Leak

Length 22" ft Width 22" ft Depth 4 ft Total Square Feet_____

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

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 6 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.

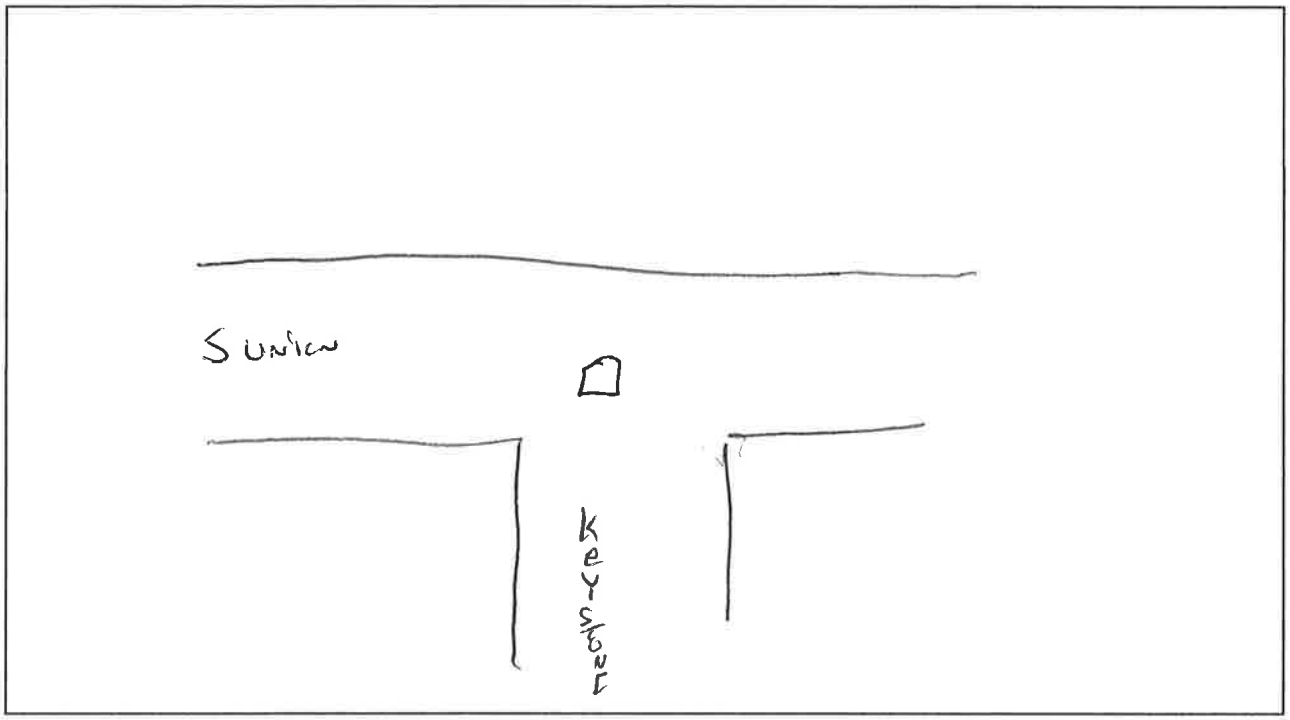
Date: _____ Permittee:_____

_____

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: _____

Sections of ORDINANCE NO. 2019 - 1358

It shall be unlawful for any person, firm or corporation to make any opening or excavation in or under any street, alley or thoroughfare within the limits of the Borough of Middletown unless and until a permit for that purpose is secured.

As a permit requirement, it shall be the responsibility of the contractor to notify residences and business adjacent to the work area, and emergency services (717-558-6900) a minimum of 48 hours prior to any work. Residences and businesses shall be notified door to door and/or with door hangers.

Before any permit shall be issued to excavate any street, permittee shall give Middletown a bond with corporate surety acceptable to Middletown in an amount of at least $2,000 or such greater amount as Middletown may determine is necessary.

Permit charges shall be $100 for the first 50 square feet excavated plus $50 for each additional 50 square feet excavated or portion thereof, plus a $100 GIS fee.

In the case of any emergency it shall be lawful to commence an excavation to remedy such condition before securing a permit, provided that application for a permit shall be made within 24 hours and all other provisions of this Part are fully complied with.

Maintenance and protection of traffic during road work shall be carried out in accordance with PennDOT Publication 212 and 213.

A traffic control plan including duration of closure, narrative, and proposed detour route shall be approved by the Borough before any traffic may be detoured.

Warning signs shall be placed in advance of the street excavation and at distances and intervals as to be visible to the traveling public, and substantial barricades with adequate illumination shall be provided and maintained for any open trench or hole in the excavation site. Blinking lights and barricades shall be used for overnight protection of the work site.

The permittee shall designate and assign employees to direct traffic, when necessary. Flaggers shall be provided as specified in the permit and in accordance with PennDOT Publication 212 and 213.

At the end of each work day, the excavated area shall be completely backfilled and/or steel plates shall be placed over the excavation to accommodate traffic.

Permanent restoration (see detail sheet):

1. If more than 50 linear feet of longitudinal or transverse openings, or both, are made in the roadway, the Borough designee may require the permittee to mill and overlay lanes in which the openings were made, for the entire length of roadway that was opened if the Borough determines that the rideability or structural integrity of the roadway has been impaired by the openings.

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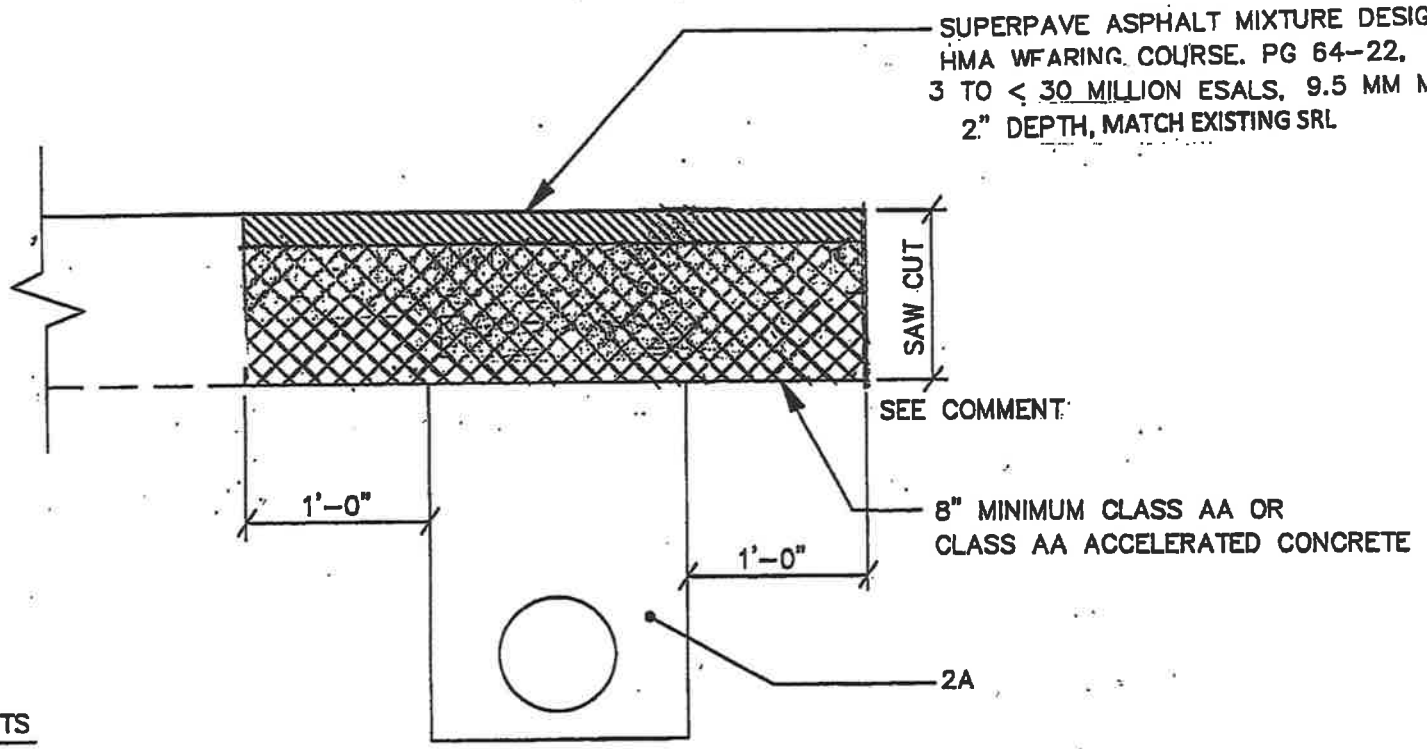
RIGID PAVEMENT RESTORATION

(BITUMINOUS OVERLAY OR PLAIN CEMENT BASE COURSE)

NOT TO SCALE

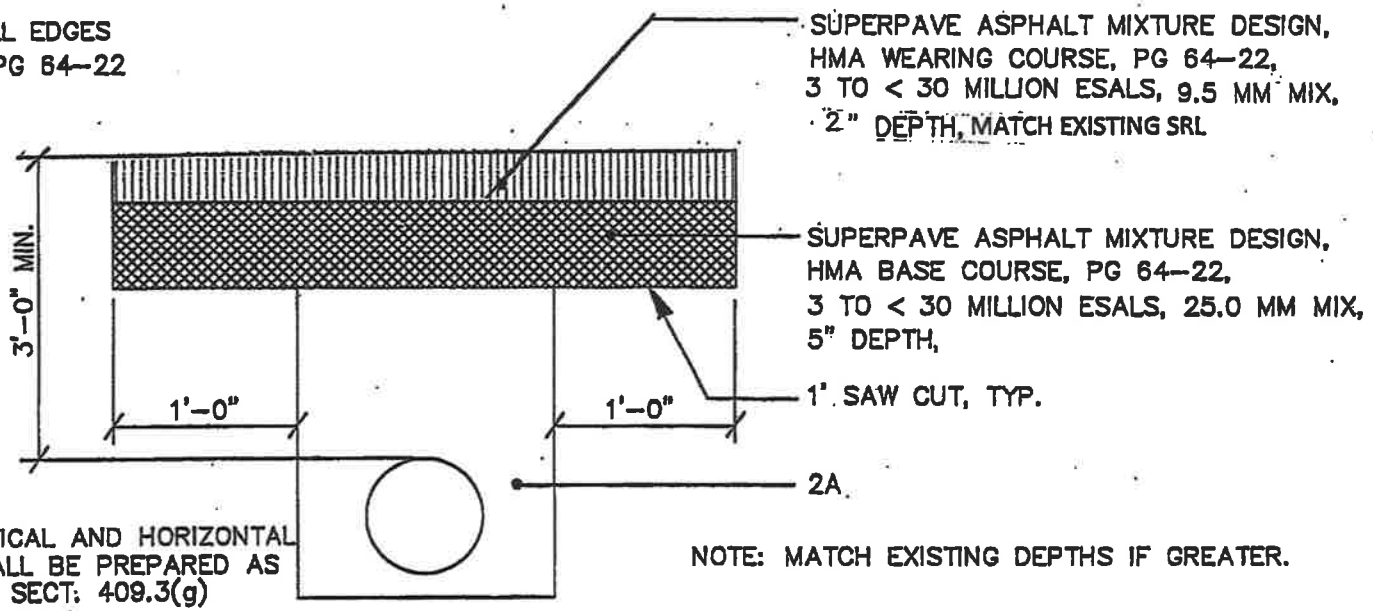


COMMENTS

1. SURFACE OF REPLACEMENT CONCRETE TO BE AT SAME ELEVATION AS EXISTING SLAB.
2. CUT BACK IS NOT REQUIRED BEYOND A TRANSVERSE OR LONGITUDINAL JOINT OR CURB.

FLEXIBLE PAVEMENT RESTORATION

NOT TO SCALE



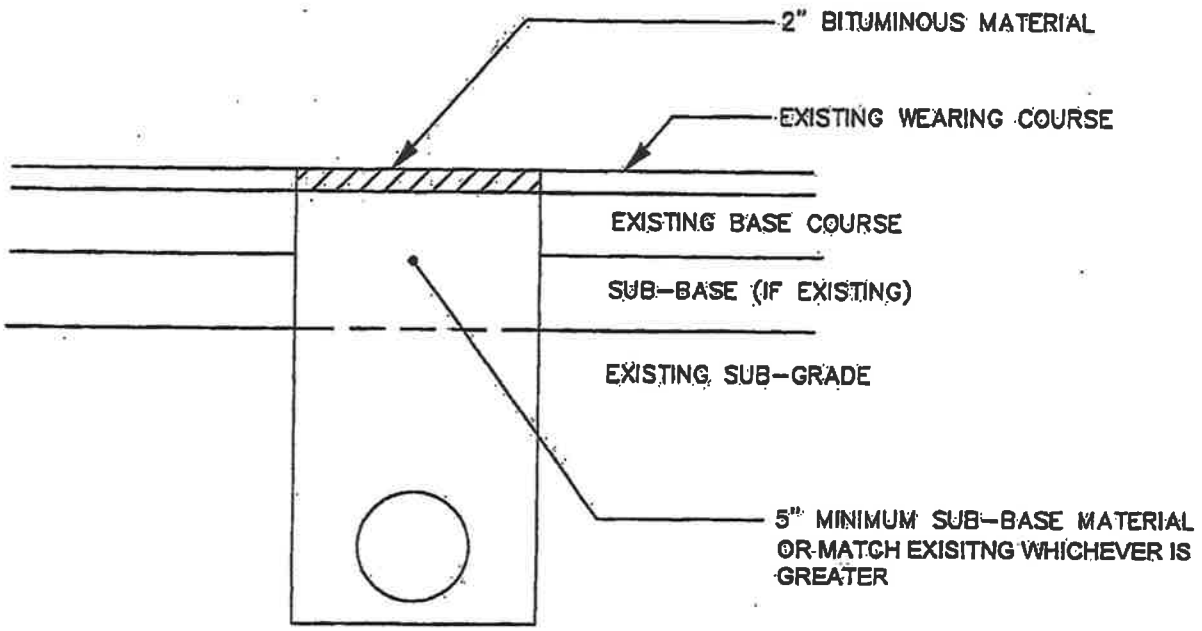
COMMENTS

1. EXPOSED VERTICAL AND HORIZONTAL SURFACES SHALL BE PREPARED AS PER PUB 408, SECT: 409.3(g)
2. MINIMUM 1' PAVEMENT CUTBACK, EXCAVATE OLD AND TEMPORARY MATERIAL. RECOMPACT SUB-GRADE, TACK COAT ALL VERTICAL EDGES. INSTALL ONLY BASE COURSE IN ONE DAY.

NOTE: MATCH EXISTING DEPTHS IF GREATER.

TEMPORARY PAVEMENT RESTORATION

NOT TO SCALE



SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line _____Main _____Other

Population Affected: 0

Address of leak: S Union - Keystone

Date and time department notified of leak: 2 / 15 / 23 _____ am / pm

Date / Time of arrival on scene: 2 / 15 / 23 0900 (am) / pm

Time pipe leak is exposed: N/A am / pm

Time repair started: N/A am / pm

Time repair finished: N/A am / pm

Method used for repair: N/A Nothing Found

Was there a loss of pressure or was line dewatered? _____Yes _____ No
Was this loss of pressure cause by a situation other than a main break? (Power outage, pump failure, etc.) _____Yes _____ 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 _____ 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** _____

See back for Cl^2 Disinfection Formula

Formula For Disinfecting Water Mains

Pipe diameter in feet = pipe diameter in inches = _____ = _____ diameter, feet
12 12

Million Gallons = 0.785 X _____ pipe diam.in ft. X _____ pipe dia. in ft. X _____ pipe length in ft x 7.48
1,000,000

= _____ Million Gallons

Lbs of HTH = 300 mg/l dosage X _____ Million Gallons X 8.34 = _____ lbs of HTH

APPENDIX 5

QUARTERLY METER TEST AND CALIBRATION REPORTS

APPENDIX 6