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

February 25, 2022

Mr. Kenneth Klinepeter
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RE: Transmittal of SUEZ Middletown Operations Report January 2022

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

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

Sincerely,

Kodi Webb

Kodi Webb
Project Manager
Suez Middletown

cc: Michael Winfield
Jason Kiernan
Jason O'Brien
Ken Bonn
William Stanton


MIDDLETOWN WATER & WASTEWATER
OPERATIONS REPORT
JANUARY 2022

EXECUTIVE SUMMARY

This report covers the monthly period of January 1, 2022 through January 31, 2022.

During this reporting period, SUEZ Middletown met all operational obligations. SUEZ 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

SUEZ 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 SUEZ-NA with guidance from the CDC and WHO.
- Continue observation of the SmartCover® Sewer Monitoring System at manholes MH-286 at Mill St, MH-290 at Hoffer Park, MH-332 at E. Main St, and MH-475A on E. Water St.
- Work with HRG, Tri-Star, and Kohl Bros. on modifications and upgrades to the groundwater elevation monitoring equipment.
- Continue with Well # 4 Pump Replacement, and integration of new chemical feed system.
- Installation of Safety Upgrades for Water and Wastewater systems.
- Complete 2021 CCTV work.
- Fixed leaking curbstop at 122 Birch Street.
- Fixed water main break at Deatrich Ave & Laurel Ave.
- Fixed sewer lateral at 1007 Plane Street.

Regulatory Compliance

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

- NOV was issued by DEP on 3/1/21
  - Verbal consult with the Department (30 Day)- Due by 3/31/21 - **Completed**
  - Respond in writing (45 Day)– Due by 4/15/21 - **Submitted**
  - Complete corrective actions (120 Day)– Due by 6/29/21 –**Extended by DEP**
    - PA DEP did not provide an updated deadline, but wants to see continued progress with the project.
- Required upgrades to fluoride feed systems at all wells which will require a separate permit amendment filed with PA DEP for each. – Well #4 **Permit Approved 6/25/21**
  - Only Well #4 will be held to the 120 day timeline since permits are required for each well
  - SUEZ 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. – November 2021
    - After permit approval, new chemical feed system will be installed and integrated. – Early 2022
- SUEZ working with HRG on permit amendments,
  - Well 4 Permit Application –**Approval Received on 6/25/21**
  - Parts ordered in July, and received August 19
  - Permit Applications for wells 1, 2, and 3 submitted 8/24/21.
    - Permits approved 10/26/21.
    - Part procured.
    - Quotes are being gathered.

Environment, Health and Safety

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

Customer Service

The current operating period was very successful for Customer Service in Middletown. Some accomplishments include:

- Though the Customer Service counter remains closed to customers, customer service, and payments remain open via payment drop box, telephone, email and US Mail.
- Continued to track and update reports to meet the needs for data analysis, revenue forecasting, and reporting requirements.
- The meter reading cycle for water consumption in January was successfully completed on January 27th, 2022. Bills reflecting a tariff increase of 8.3% for water and sewer services provided during this period were mailed to customers on January 28th, 2022.
- Restarted the Delinquent Notification and Shut-Off Program which was previously suspended due to COVID-19
  - Sent 244, 10 day shut-off notices to accounts that were $50 past due for the December 2021 billing period
  - No Shut offs for January

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. SUEZ 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

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

MONTHLY OPERATIONS REPORT

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

Wastewater Treatment Plant DMR

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

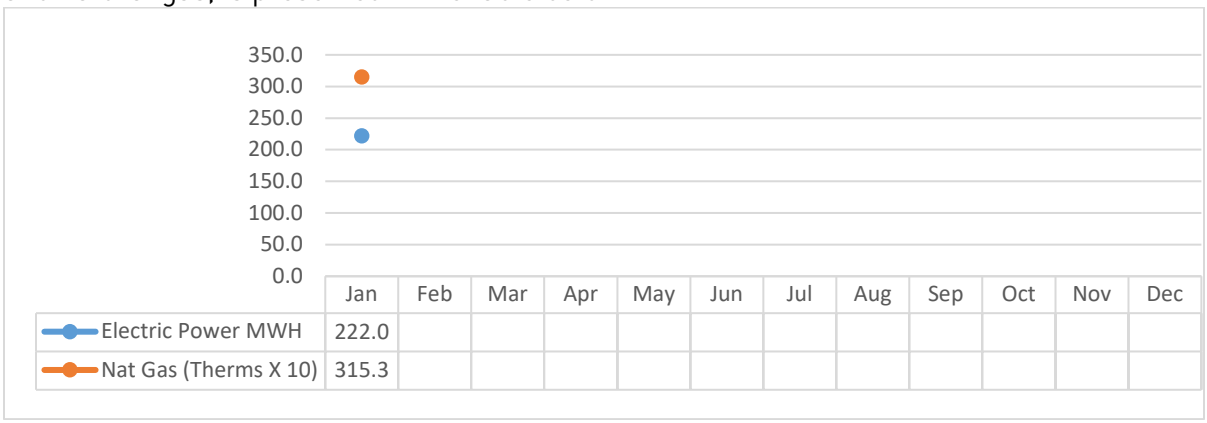
Quality Control Reporting

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

Energy Management and Sustainability

Energy Use

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



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Electric Power MWH	222.0											
Nat Gas (Therms X 10)	315.3											

*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. SUEZ

has developed the SPOT2023 initiative which, in part, looks to identify and implement Energy Efficiencies throughout operations.

Sustainability

Objectives for sustainability will be developed in the coming months.

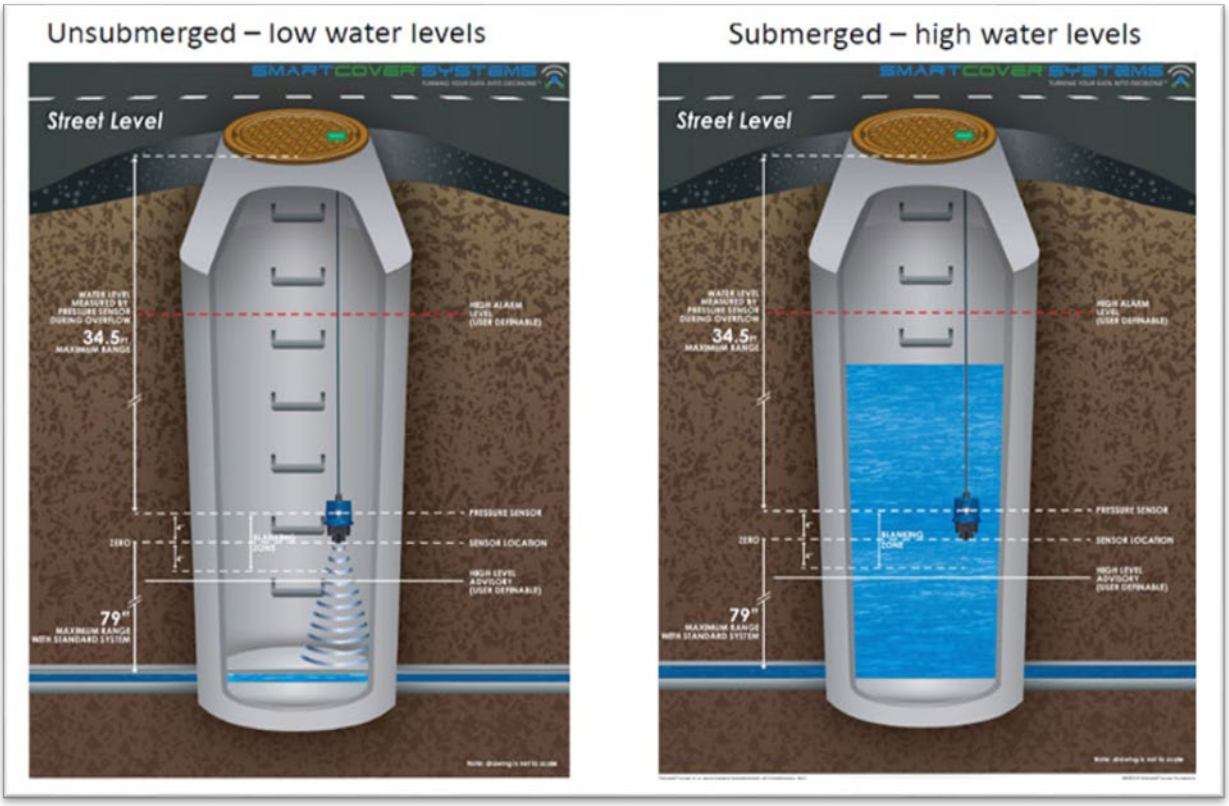
Water System and Wastewater Treatment Plant Maintenance

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

System	Equipment	Process Location	Date Off Line	Reason for Taking Off Line	Date Returned to Service
Water	Well Pump	Well 4	2/26/21	Pump Failure	In Progress
Water	Fluoride Pump	Well 4	2/26/21	Pump upgrades and SCADA integration	Pending Upgrade
Water	Well Pump	Well 3	9/14/21	Pump Failure	In Progress
Water	Booster Pump 2	Pump Station	1/26/22	Pump Failure	In Progress
WWTP	Safety Shower	Alum	1/24/22	Valve Leaking	In Progress

Sanitary Sewer System

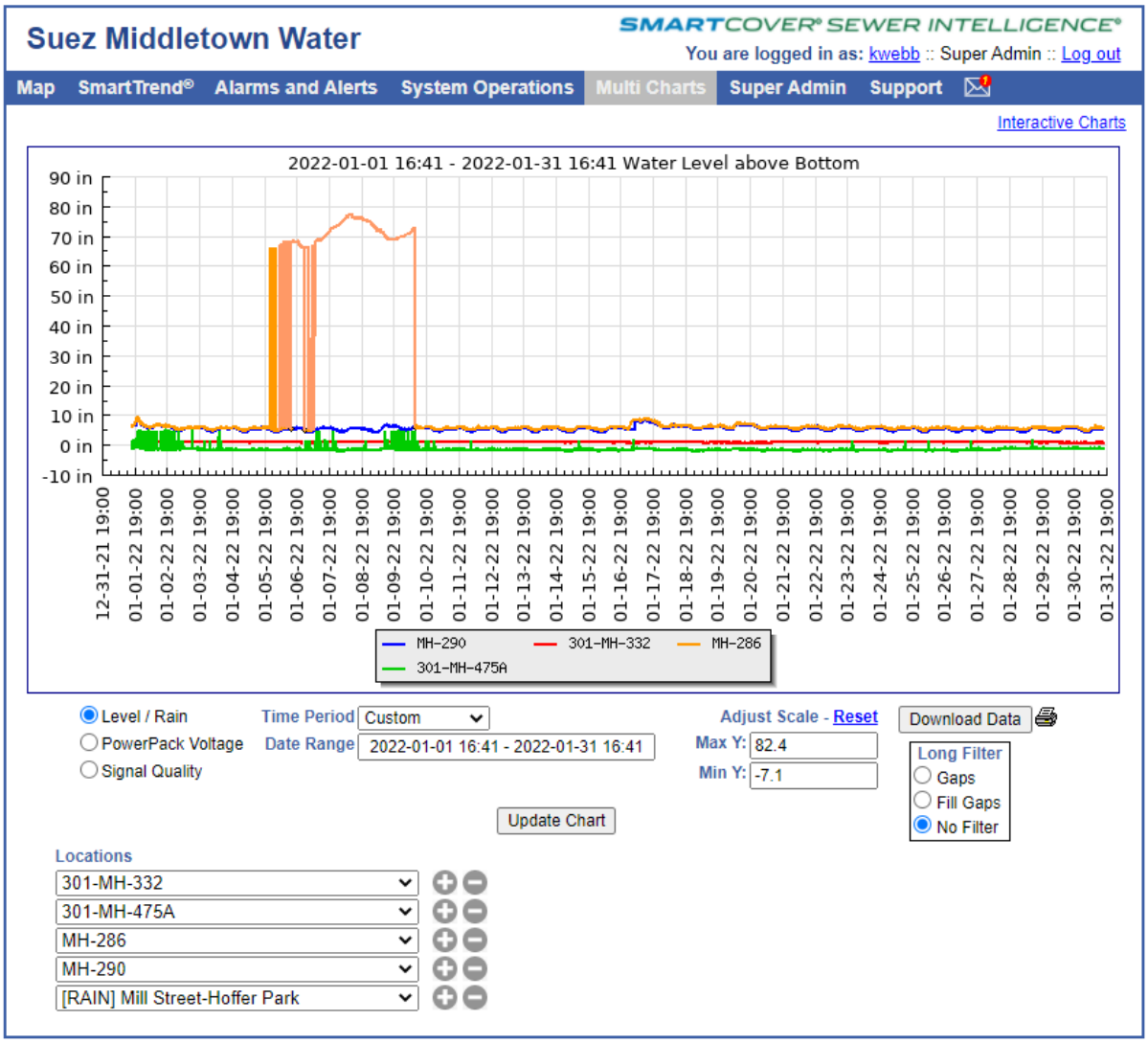
SmartCover® Sewer Monitoring System



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

The SmartCover sensors were installed, in conjunction with a thorough cleaning of the interceptor, as part of the PA DEP Corrective Action Plan (CAP). Upon cleaning of the interceptor and installation of the sensors, we are now able to monitor surcharge conditions in "real-time". This data was also included in the Annual Chapter 94 Report/CAP Update which was submitted to PA DEP in early 2021.

There were false readings caused by debris at MH-286 in early January. This debris was removed and the sensor resumed normal readings.



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	4	8701	0
Current	0	4	11170	0
YTD	0	4	11170	0

On Target – Good Work	Caution	Significantly Behind Goal

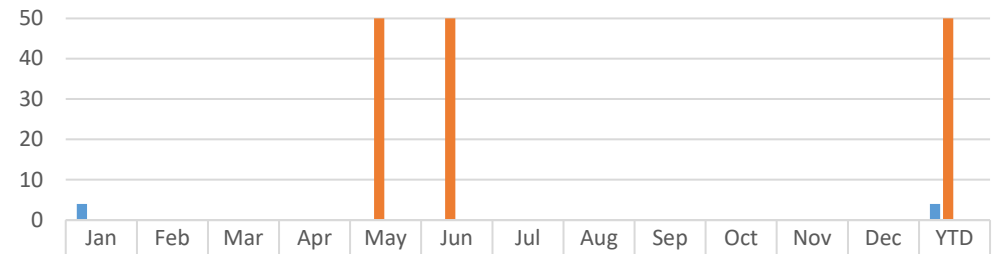
KPI Comments

- Water Loss: Identifying and reducing the system water loss has been a key focus for SUEZ. In an effort to identify and resolve the sources of water loss, we 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, SUEZ has identified and is in the process of testing and replacing 10% of the systems small meters, starting with the oldest meters.
- Water Main Valves Exercised: A comprehensive condition assessment program was part of the development of the asset management program. The program includes valve identification and location, condition assessment, exercising, determining the number and direction of turns, etc. Identifiers are being created using GIS data that was collected during the first phase of the project. Valves that have been identified in need of repair or replacement will be scheduled for repair or replacement over time based on operational priority of the valve.
- Hydrants inspected and maintained: The hydrant inspection and preventative maintenance program will be completed in conjunction with the annual water main and hydrant flushing program.
- Sanitary Mains Cleaned/CCTV Inspected: The 2021 CCTV requirement was completed in January 2022. Sanitary main cleaning and CCTV inspections will continue to meet the 2022 requirement.

Hydrants Inspected, Tested and Flushed

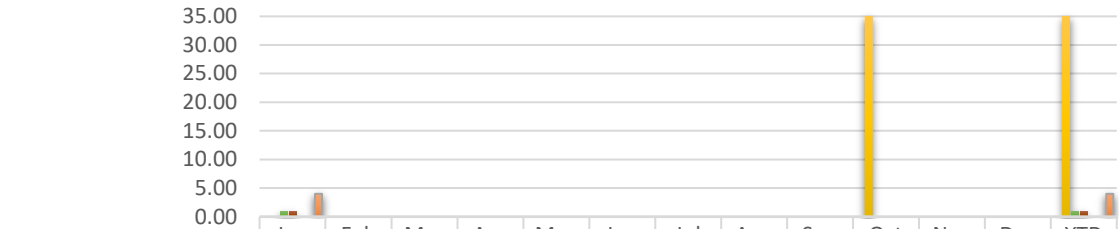
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Inspected	0												0
2022 Plan	0	0	0	0	0	0	0	0	160	0	0	0	160
No. Repaired	0												0
No. Replaced	0												0

Water Main Valves Exercised



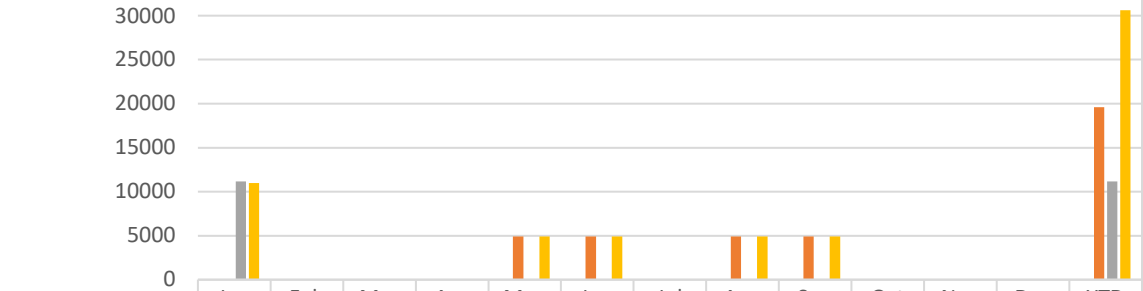
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Number Exercised	4												4
2022 Plan	0	0	0	0	60	60	0	0	0	0	0	0	120
No. Replaced	0												0
No. Repaired	0												0

Water System Leak Detection



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Miles Surveyed	0.00												0.00
2022 Plan Survey	0	0	0	0	0	0	0	0	0	35	0	0	35
Main Leaks Located	1												1
Main Leaks Repaired	1												1
Service Leaks Located	0												0
Service Leaks Repaired	0												0
Estimated Leakage (Gallons/Day x 1000)	4												4

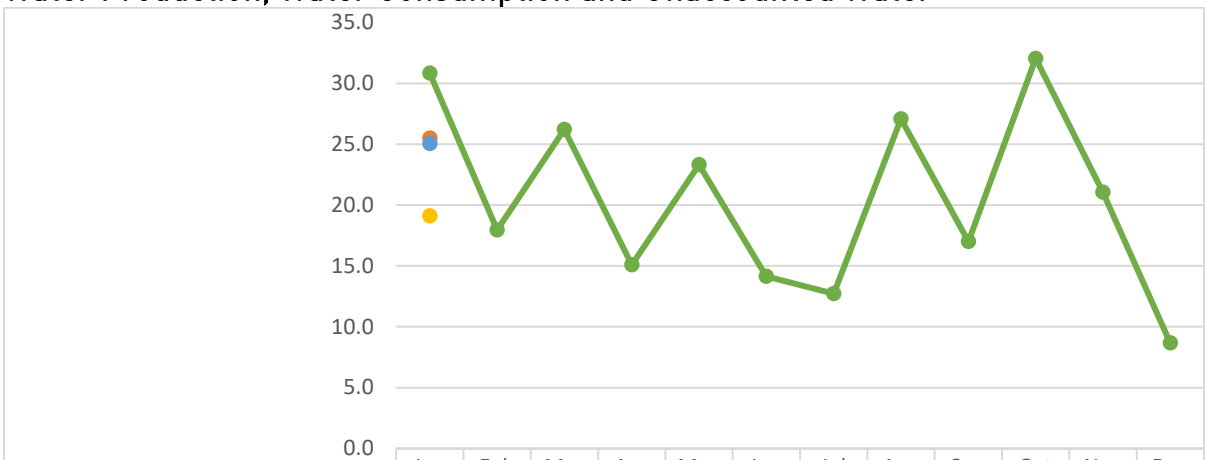
Wastewater Mains Cleaned/CCTV Inspected



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Linear Feet Flushed	0												0
2022 Plan	0	0	0	0	4900	4900	0	4900	4900	0	0	0	19600
Linear Feet CCTV	11170												11170
2022 Plan CCTV	11000	0	0	0	4900	4900	0	4900	4900	0	0	0	30600

The approximately 11,000 feet of CCTV remaining from 2021 has been completed.

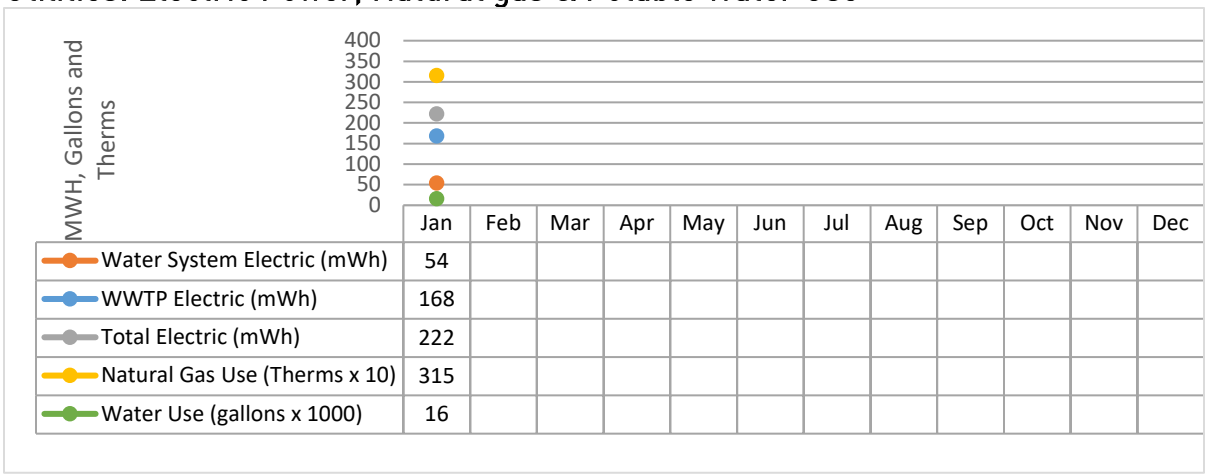
Water Production, Water Consumption and Unaccounted Water



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Production (MG)	25.5											
Water Consumption (MG)	19.1											
2022 Unaccounted Water (%)	25.1											
2021 Unaccounted Water (%)	30.8	18.0	26.2	15.1	23.3	14.1	12.7	27.1	17.0	32.0	21.1	8.7

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

Utilities: Electric Power, Natural gas & Potable Water Use



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water System Electric (mWh)	54											
WWTP Electric (mWh)	168											
Total Electric (mWh)	222											
Natural Gas Use (Therms x 10)	315											
Water Use (gallons x 1000)	16											

Process Chemicals: Water and WWTP Treatment

Chemical	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hypochlorite (Water)	gal	237												237
Hydroflurosilic Acid	lbs	251												251
Alum	gal	1309												1309
Thickening Polymer	gal	45												45
Dewatering Polymer	gal	60												60
Chlorine (WWTP)	lbs	384												384
Lime	lbs	3464												3464

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. SUEZ 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.

SUEZ has contracted with National Meter 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. Currently there is a 97% pass rate of the meters tested.

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												1	0	0	0	1
Water Process	17												17	0	0	0	17
Interconnect/Large	0												0	0	0	0	0
Small Meter	0												0	0	0	0	0
TOTAL	18	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	18

Upcoming Month Operational Priorities

- Continue utilization of the eRPortal 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.
- Groundwater Elevation Plan and upgrades to well level sensor equipment.
- Upgrades to Fluoride Feed Systems.
- Continue Well # 4 Pump Replacement.
- Safety Upgrades to water and wastewater systems.
- Assist in coordinating the day-to-day needs of the Capital Improvement Project.
- Continue quarterly safety training.

Customer Service

Highlights

SUEZ Middletown closed the the Customer Service Office and Administration building to customers and non essential visitors at the start of the COVID-19 pandemic. Customer Service operations were remote for January 2022 due to an increase in COVID cases. The JV submitted an application for the State's Low Income Housing Water Assistance Program (LIHWAP) in January. At this time the window is still closed, but the telephone and dop box for payments remain open. Call volume increased in January with a total of 927 calls received. Call volume increased due to issues with local mail. All calls received by answering service or that were placed to the answering service after office hours were responded to.

The release of bill files for printing and mailing this month occurred in 1 day with bills for services provided January being mailed to customers on January 28th.

The average gross monthly collection rate for January was 99.8% and 102.33% 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 29 accounts this month, which up from last month. There were no idle meters with consumption this month.

The number of Field Service Requests in January was 36. As part of our efforts to minimize the risk of exposure to COVID-19 and to protect the health and safety of Middletown's residents and SUEZ staff, only critical field service work is being scheduled at this time. Critical field service work that requires entry into occupied homes were coordinated with a plumbing contractor. Requests for non-critical work will be logged and followed up for completion, pending a return to normal business operations following the direction and guidelines of the Governor of Pennsylvania, the CDC and SUEZ-NA.

In March of 2021, SUEZ 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 352 who have enrolled in the Auto Pay program.

Customer Service: Calls by Type

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2021	2020
General Acct. Info	9												9	131	179
Bill Inquiry	210												210	934	764
Finals	14												14	173	182
New Account	12												12	98	91
Meter Reading /Re-Reads	0												0	0	5
Payments	562												562	6127	5710
Collection Letter	9												9	168	56
Rates	0												0	30	14
Complaints	0												0	1	11
Sewer	0												0	12	17
Leaks	0												0	11	12
No/Low Water Pressure	0												0	6	10
Copy Of Bill	77												77	2	3
Correct. Bills	0												0	0	1
Mtr Change Out	0												0	1	0
Customer Correspondance	78												78	922	206
Discolored/Water Quality	0												0	0	1
Calls Referred to SUEZ Hbg	34												34	439	659
Calls from City / Other Org	0												0	1	0
NMS Calls	0												0	18	0
2022 TOTALS	**1005**	0	0	0	0	0	0	0	0	0	0	0	**1005**		
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**			**7921**

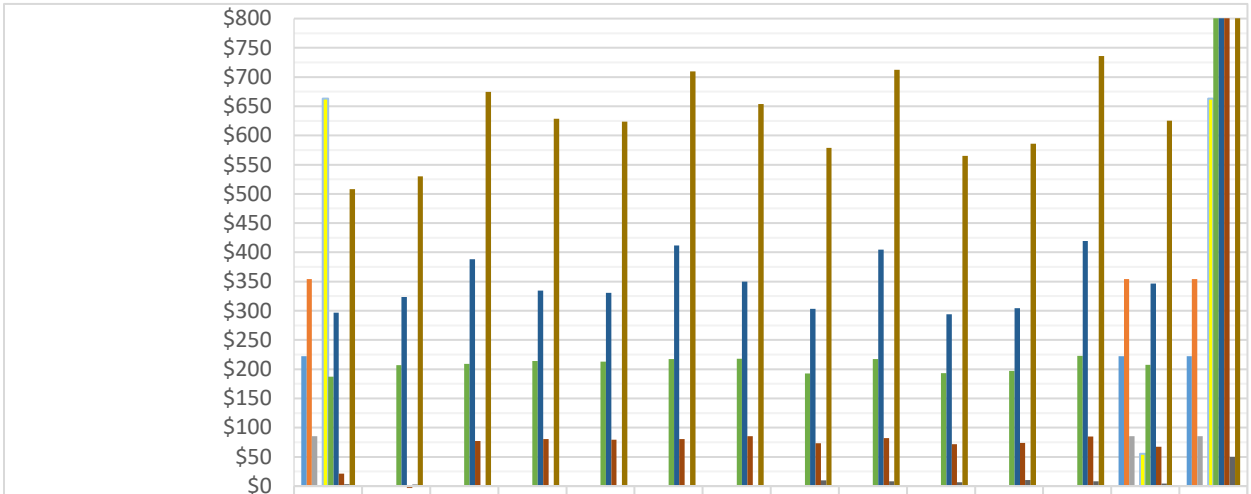
Note: Noise and personnel complaints are tracked under "Complaints" in the chart above.

Customer Service: Billing

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

* Neptune is the meter manufacturer

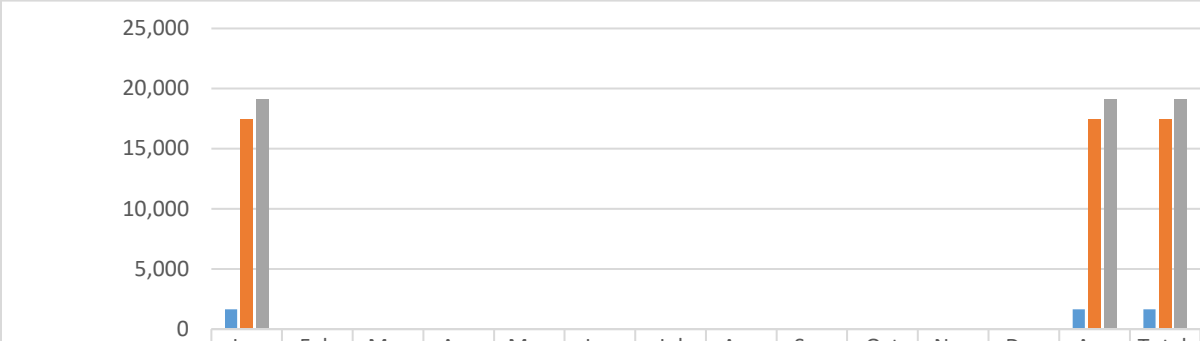
Dollars Billed - Water and Sewer (dollars X1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	YTD
2022 Water Billed	222												222.2	222.2
2022 Sewer Billed	354												354.3	354.3
2022 Surcharge Billed	85.2												85.2	85.2
2022 Other Revenue	1.7												1.7	1.7
2021 Total Billed	663.33	0	0	0	0	0	0	0	0	0	0	0	55.3	663.3
2021 Water Billed2	187.2	207.1	209.0	214.0	213.0	217.5	218.0	192.8	217.4	193.2	196.9	223.0	207.4	2,489.
2021 Sewer Billed3	296.6	323.8	388.1	334.3	330.6	411.6	349.9	303.1	404.6	293.9	304.6	419.6	346.7	4,160.
2021 Surcharge Billed4	21.1	-3.4	77.2	80.2	79.5	80.7	85.5	73.1	82.0	71.8	74.0	85.0	67.2	806.7
2021 Other Revenue5	3.3	2.7	0.2	0.2	0.3	0.0	0.3	9.7	8.3	6.3	10.1	8.4	4.2	49.8
2021 Total Billed6	508.2	530.2	674.5	628.7	623.4	709.8	653.7	578.7	712.3	565.2	585.6	736.0	625.5	7,506.

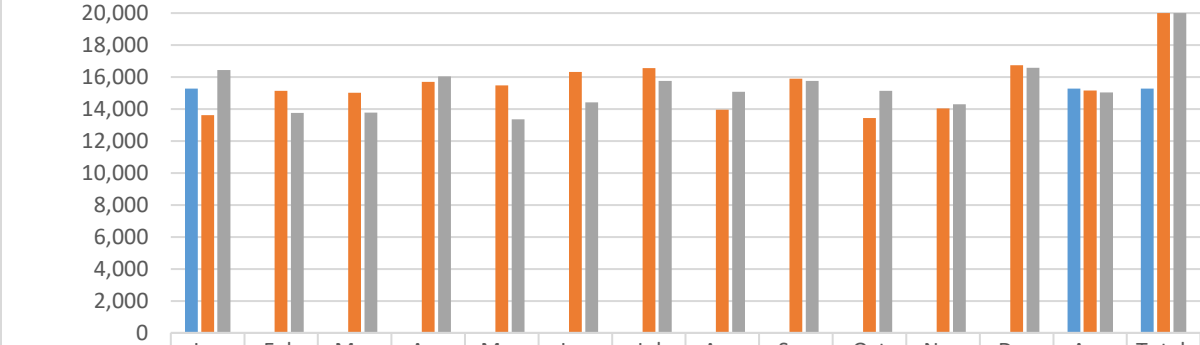
*Negative surcharge value was due to the prior surcharge collection period ending in February 2021.

Water Sales - Monthly Consumption (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
Municipal Bulk	1,650												1,650	1,650
Retail	17,461												17,461	17,461
Total	19,111												19,111	19,111

Sewer Sales – Monthly (gallons X 1000)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Total
2022 Total	15,270												15,270	15,270
2021 Total	13,609	15,130	15,008	15,697	15,487	16,309	16,554	13,952	15,907	13,436	14,028	16,736	15,154	181,85
2020 Total	16,443	13,763	13,784	16,038	13,352	14,409	15,761	15,077	15,753	15,141	14,291	16,585	15,033	180,39

Collections (dollars X 1000)

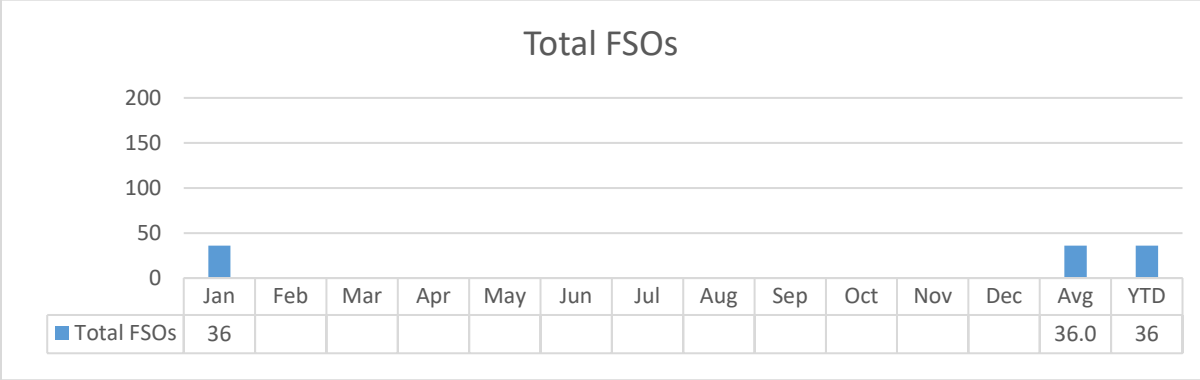
Collections on payment for water and sewer services occurred during the current month and are displayed on the graph below.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Total Billed	661												661
Total Collected	660												660
AR	891												891

Accounts & Meters

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Active Accounts	2,702												2,702
Net New Accounts	10												10
Total MIUs	2,723												2,723
Inactive Meters	29												29
% Meter Re-reads	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
Unplanned	1												1	0	0	0	1
2022 TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

Water Quality

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

Water Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Taste and Odor	0												0	0	0	0	0
Discolored	0												0	0	0	0	0
Boil Water Notices	0												0	0	0	0	0
2022 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

There were no water quality complaints during the reporting period.

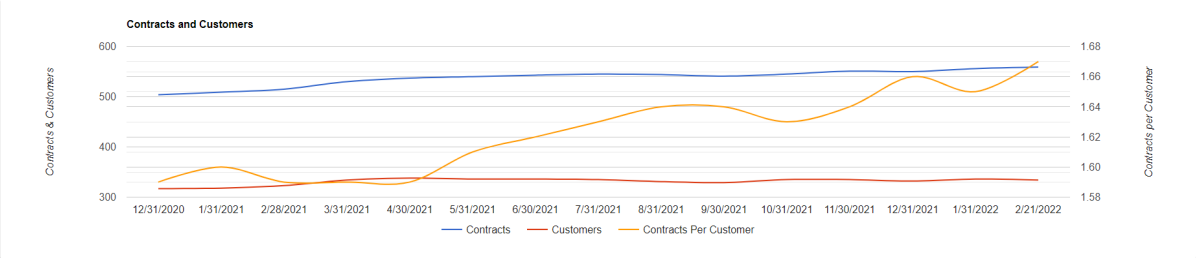
Sewer and Collection Issues

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

Sewer Quality Complaints Summary

Call Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	YTD
Back-up / Blockage	0												0	0	0	0	0
Odor	0												0	0	0	0	0
2022 TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2021 TOTAl	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	2

Home Serve USA



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

Next Month Customer Service Priorities

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

Water Sales Test Period

Water Sales Test Period No. 3 1/1/2021 to 12/31/2023	Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	YTD Avg
Total consumption for the month (gallons)	2021	16,984,200	19,701,800	19,964,700	20,521,000	20,409,700	20,950,100	20,557,500	17,545,400	20,495,500	17,656,500	18,017,900	21,191,200	233,995,500	19,499,625
	2022	19,111,100												19,111,100	19,111,100
	2023														
Billing Period (days)	2021	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2022	31	28	31	30	31	30	31	31	30	31	30	31	365	30
	2023	31	28	31	30	31	30	31	31	30	31	30	31	365	30
Retail Sales - Total month (gallons)	2021	15,296,100	17,196,300	17,228,700	17,859,000	17,758,400	18,244,700	18,891,300	15,949,100	18,758,400	15,998,500	16,473,400	19,348,500	209,002,400	17,416,867
	2022	17,460,800												17,460,800	17,460,800
	2023														
Retail Sales - Average Daily (gallons per day)	2021	493,423	614,154	555,765	595,300	572,852	608,157	609,397	514,487	625,280	516,081	549,113	624,145	6,878,152	573,179
	2022	563,252												563,252	563,252
	2023														
Avg retail water sales (gal)		**528,337**	**614,154**	**555,765**	**595,300**	**572,852**	**608,157**	**609,397**	**514,487**	**625,280**	**516,081**	**549,113**	**624,145**	**3,720,702**	**568,215**
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												1,650,300	1,650,300
	2023														
Bulk Municipal - Average Daily (gallons per day)	2021	54,455	89,482	88,258	88,733	85,526	90,180	53,748	51,494	57,903	50,548	51,483	59,442	821,253	68,438
	2022	53,235												53,235	53,235
	2023														
Avg Bulk Customer sales (gal)		53,845	89,482	88,258	88,733	85,526	90,180	53,748	51,494	57,903	50,548	51,483	59,442	437,244	60,837

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) = 568,215

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

Engineering and Capital Improvements

Capital improvement projects for the water and wastewater systems have been developed for 2021 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, SUEZ 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 SUEZ, 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" involves 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 is secured for this project. A pre-construction meeting was held with HRG and EK Services in May 2021. EK Services is working 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), we project a target construction start date in October 2021.

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. Recently, HRG reached the 90% design milestone. 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.

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 SUEZ 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. 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 Q2 of 2022 followed with the Union St Tank in fall of 2022 and the Turnpike Tank in spring 2023.

Capital Improvement Plan

The following DRAFT Capital Improvement Plan was previously submitted on February 26, 2021 and was conditionally approved by the Borough of Middletown on March 26, 2021. Due to the delays reported by EK Services as mentioned in the first paragraph above, it was necessary to revisit the 5-year capex plan in June and September, depending upon the extent of further procurement challenges, may require subsequent revision. The 5-year capex plan as revised in September is included in this report below.

Capital Improvement Plan

SEWER COLLECTION, CONVEYANCE, & TREATMENT FACILITIES
DRAFT - 5 Year Capital Improvements Plan (2021-2025)
9/17/2021 - Revised (original 2/23/2021)

	2021 and 5 YEAR CAPITAL IMPROVEMENT PLAN					
BASE CAPITAL IMPROVEMENTS	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**
Headworks Wet Well Pump and Tank Rehabilitation Project	$ -	-	$ 45,000	$ -	$ -	
Well No. 4 Rehabilitation Project	$ -	$ -	$ -	$ -	$ -	$ 70,000
Well No. 3 Stripping Tower Rehabilitation Project	$ -	$ 15,000	$ -	$ -	$ -	
Ventilation of ATAD Building Project	$ -	$ -	$ 45,000	$ -	$ -	
Fire Alarm System Design Project	$ -	$ -	$ -	$ -	$ -	
Chlorine Analyzer Replacement Project	$ -	$ -	$ -	$ -	$ -	
Blower Building Instrumentation Replacement Project	$ -	$ -	$ 10,000	$ -	$ -	
SCADA Upgrade Project	$ 24,840	$ -	$ -	$ -	$ 25,000	
WAS Storage Tank Instrumentation Replacement Project	$ -	$ -	$ -	$ -	$ 13,000	
Biofilter Instrumentation Replacement Project	$ -	$ -	$ -	$ -	$ -	
ATAD & SNDR Reactors Instrumentation Replacement Project	$ -	$ 14,500	$ 14,500	$ 11,500	$ -	
Headworks Instrumentation Replacement Project	$ -	$ -	$ -	$ -	$ 20,000	
Biosolids Processing Instrumentation Replacement Project	$ -	-	$ -	$ -	$ -	
Oxidation Ditch Instrumentation Replacement Project	$ -	$ 40,000	$ -	$ -	$ -	
Scum Pump Station Instrumentation Replacement Project	$ -	-	$ -	$ -	$ -	
WWTP Facilities Security Upgrades Project	$ -	$ -	$ -	$ 70,000	$ -	
Well Facilities Security Upgrades Project	$ -	$ -	$ -	$ 45,000	$ -	
Well Evaluation and Upgrades Project	$ -	$ -	$ -	$ -	$ -	
Trench Opening Restoration Project	$ 70,150	$ 70,150	$ 70,150	$ 70,150	$ 70,150	$ 70,150
Water and WWTP System Evaluations	$ 86,250	$ 28,750	$ 28,750	$ 28,750	$ 28,750	$ 28,750
WWTP Electrical Upgrades	$ 20,700				$ 25,000	$ 25,000
WWTP Safety Compliance Project	$ -	$ -	$ -	$ -	$ 30,000	
Water and Wastewater Systems Miscellanous Upgrades	$ 150,000	$ 180,000	$ 150,000	$ 150,000	$ 150,000	$ 150,000
Safety Upgrades		$ 10,600				$ 20,000
TOTAL BASE CAPITAL IMPROVEMENTS *	**$ 351,940**	**$ 359,000**	**$ 363,400**	**$ 375,400**	**$ 381,900**	**$ 343,900**
PROPOSED YEARLY BUDGET FOR BASE CAPITAL PROJECTS **	**$ 352,168**	**$ 359,000**	**$ 365,964**	**$ 373,064**	**$ 380,301**	**$ 387,679**

MAJOR CAPITAL IMPROVEMENTS	**2020**	**2021 ***	**2022 ***	**2023 ***	**2024 ***	**2025 ***
Underground Infrastructure Replacements (2023 - 2025)	$ -	$ -	$ -	$ 2,317,333	$ 2,317,333	$ 2,317,333
Underground Infrastructure Replacements (2016)	$ 952,821.13	$ -	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2017)	$ -	$ 230,000	$ 1,201,000	$ -	$ -	$ -
Underground Infrastructure Replacements (2018)	$ -	$ 45,000	$ 1,475,000	$ -	$ -	$ -
Underground Infrastructure Replacements (2019) ***	$1,077,377.14	$ 338,728	$ -	$ -	$ -	$ -
Underground Infrastructure Replacements (2020)	$ -	$ 230,000	$ 1,201,000	$ -	$ -	$ -
Underground Infrastructure Replacements (2021)	$ -	$ 45,000	$ 1,475,000	$ -	$ -	$ -
Underground Infrastructure Replacements (2022)	$ -	$ -	$ 30,333	$ 2,287,000	$ -	$ -
Water Storage Tank Rehabilitation - Union Street	$ -	$ -	$ -	$ 883,575	$ -	$ -
Water Storage Tank Rehabilitation - High Street	$ -	$ -	$ 779,280	$ -	$ -	$ -
Water Storage Tank Rehabilitation - Turnpike	$ -	$ -	$ 624,596		$ -	$ -
Contingency (5%)	$ -	$ 25,250	$ 339,310	$ 274,395	$ 115,867	$ 115,867
TOTAL MAJOR PROJECTS	**$ 2,030,198**	**$ 913,978**	**$ 7,125,520**	**$ 5,762,304**	**$ 2,433,200**	**$ 2,433,200**

REGULATORY COMPLIANCE						
WWTP Effluent Outfall Rehabilitation ****	$ -		$ 356,500	$ -		
TOTAL CAPEX	**$ 2,382,366**	**$ 1,272,978**	**$ 7,847,984**	**$ 6,135,368**	**$ 2,813,502**	

NOTES:
* All costs are in 2021
** Consumer Price Index rate of 1.9% 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 2017 dollars)

Environment, Health & Safety

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Environmental Incidents – Regulatory (PADEP/USEPA) notifications	0												
Concessionaire Notifications	0												
Incident Email Notifications	0												
Environmental Incidents – Appletree Hotline notifications	0												
Environmental Incidents – Appletree Hotline notifications/chemical spills	0												
Non-compliance – violations	0												
Reporting non-compliance	0												
Safety related incidents – OSHA lost time	0												
Total days lost	0												
Safety related incidents – Preventable	0												
Safety related – Near Miss	0												
Employee lost-time – not job-related – total as sick hours	73.5												

On Target	Caution	Meets/Exceeds Target

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

February 25, 2022

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

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

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

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

RE: Laboratory Supervisor Certification – January 2022

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

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

Kodi Webb

Kodi Webb
Project Manager
Suez Middletown

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

February 25, 2022

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

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

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

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

RE: Environmental Laws Certification- January 2022

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

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

Kodi Webb

Kodi Webb
Project Manager

APPENDIX 1

WASTEWATER

MIDDLETOWN WWTP

MONTHLY DISCHARGE MONITORING REPORT (eDMR) SUBMISSION

SUPPLEMENTAL WWTP PROCESS CONTROL & OPERATIONAL DATA

&

SMARTCOVER® MONITORING SYSTEM REPORT

From:	depgreenporthelpdesk@state.pa.us
To:	Webb, Kodi (RED); mitchell.swartz@suez-na.com; jesse.randles@suez.com; Webb, Kodi (RED); Lank Ii, Gene (RED)
Subject:	Your eDMR Report Has Been Received For Permit No. PA0020664
Date:	Wednesday, February 23, 2022 5:17:20 PM

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: 01/01/2022-01/31/2022
Report Due Date: 02/28/2022

Submitted By: Kodi Webb
Submission Id: 315314
Submission Status: Received
Submission Type: Original

To view the details of this report, access the eDMR system through DEP's GreenPort and select the link for View/Revise Submitted.

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

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

Reporting Frequency: **Monthly**
DMR Effective From: **01/01/2022**
DMR Effective To: **01/31/2022**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	8.38	***	***	mg/L	1/day	Grab
	Permit Requirement	***	***		5.0 Daily Min	***	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	7.40	***	7.60	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	67.0	143.0	lbs/day	***	6.0	10.0	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	***	***	***	***	< 3.23	***	mg/L	1/month	Calculation
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Calculation
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	< .05	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	< .92	***	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	***	***	***	***	< 2.3	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	2.0	***	lbs/day	***	.15	***	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	1.121	1.992	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.3	.49	mg/L	1/day	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.6 IMAX		1/day	Grab
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 978.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Ammonia-Nitrogen (Total Load, lbs) (51446)	Sample Measurement	< 15.4	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Kjeldahl Nitrogen (Total Load, lbs) (51449)	Sample Measurement	< 296.4	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Nitrate-Nitrite as N (Total Load, lbs) (51450)	Sample Measurement	< 681.9	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	47.8	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Fecal Coliform (74055) (Oct-Apr)	Sample Measurement	***	***	***	***	< 2.0	10.0	No./100 ml	2/week	Grab
	Permit Requirement	***	***		***	2000 Geo Mean	10000 IMAX		2/week	Grab

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGE MONITORING REPORT (DMR)

Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	< 28.0	52.0	lbs/day	***	< 3.0	4.0	mg/L	2/week	24-Hr Composite
	Permit Requirement	459 Avg Mo	734 Wkly Avg		***	25.0 Avg Mo	40.0 Wkly Avg		2/week	24-Hr Composite
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016

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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	2022	01	01	TO	2022	01	31

Reporting Frequency: **Monthly**
DMR Effective From: **01/01/2022**
DMR Effective To: **01/31/2022**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs) (51445)	Sample Measurement	< 978.3	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	47.8	***	lbs	***	***	***	***	1/month	Calculation
	Permit Requirement	Monitor & Report Total Mo	***		***	***	***		1/month	Calculation
Facility Sampling Point Comments										

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: **Raw Sewage Influent**

PA0020664	001
PERMIT NUMBER	OUTFALL NUMBER

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

Reporting Frequency: **Monthly**
DMR Effective From: **01/01/2022**
DMR Effective To: **01/31/2022**
Permit Expires: **02/28/2026**
Permit Application Due: **09/01/2025**
No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Biochemical Oxygen Demand (BOD5) (00310)	Sample Measurement	2307	3190	lbs/day	***	244	***	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	2349	4153	lbs/day	***	243	***	mg/L	2/week	24-Hr Composite
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	Monitor & Report Avg Mo	***		2/week	24-Hr Composite
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
1-22 Biosolids.xls	Sewage Sludge / Biosolids Production and Disposal Form	2022-02-14T14:01:31-05:00	
1-22 Effluent Supplemental.xlsx	Daily Effluent Monitoring Form	2022-02-14T14:01:49-05:00	
1-22 Influent Supplemental.xls	Influent and Process Control Form	2022-02-14T14:02:17-05:00	
2022 Annual_Chesapeake_Bay_Spreadsheet_v2.2 .xlsm	Annual Chesapeake Bay Spreadsheet	2022-02-14T14:02:34-05:00	

PERMIT VIOLATIONS

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

UNAUTHORIZED DISCHARGES

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

OTHER PERMIT VIOLATIONS

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

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Gene A. Lank II	246163	(717)-471-1813

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	**Kodi Webb**	TELEPHONE		DATE		
kwebb2			**(717)**	**209-2736**	**2022**	**02**	**23**
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

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: **January** Year: **2022**
NPDES Permit No.: **PA0020664**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **February 28, 2026**

	Influent					Process Control				
Day	Flow (MGD)	BOD_5 (mg/l)	BOD_5 (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	1.4059							20,000.0		
2	1.1239							20,000.0		
3	1.0014	217.0	1,812	260.0	2,171	4,470.0		18,000.0		
4	0.8895	221.0	1,639	160.0	1,187	4,183.0		19,000.0		
5	0.8904					4,613.0		19,000.0		
6	0.8971					4,300.0		19,000.0		
7	0.922							19,000.0		
8	0.905							19,000.0		
9	1.2092							19,000.0		
10	1.0576	330.0	2,911	327.0	2,884	5,112.0		19,000.0		
11	0.9633	300.0	2,410	300.0	2,410	4,808.0		19,000.0		
12	0.918					4,638.0		19,000.0		
13	0.9908					4,961.0		19,000.0		
14	0.9997					5,013.0		19,000.0		
15	0.9116							19,000.0		
16	1.372							19,000.0		
17	1.9919	192.0	3,190	250.0	4,153			19,000.0		
18	1.2983	170.0	1,841	172.0	1,862	5,335.0		23,000.0		
19	1.2773					4,597.0		16,000.0		
20	1.568					4,691.0		18,000.0		
21	1.2434					3,636.0		18,000.0		
22	1.2231							19,000.0		
23	1.1967							19,000.0		
24	1.1564	257.0	2,479	246.0	2,372	4,811.0		24,000.0		
25	1.0638	225.0	1,996	178.0	1,579	4,799.0		21,000.0		
26	1.046					4,443.0		18,000.0		
27	1.0671					4,658.0		19,000.0		
28	1.0716					5,078.0		22,000.0		
29	1.0176							20,000.0		
30	1.0459							20,000.0		
31	1.0357	288.0	2,488	292.0	2,522	4,787.0		19,000.0		
Avg	**1.121**	**244**	**2,307**	**243**	**2,349**	**4,681**		**19,355**		
Max	**1.992**	**330**	**3,190**	**327**	**4,153**	**5,335**		**24,000**		

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: **Gene A. Lank II** License No.: **264163**
Title: **Operator** Date: **2/14/2022**

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

3800-FM-BCW0435 3/2012

SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING

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

Month: **1** (select number) Year: **2022**
Permit No.: **PA0020664** Outfall: **001**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **February 28, 2026**

		Parameter	Flow		pH		Dissolved Oxygen		TRC		CBOD5		TSS		Fecal Coliform		NH3-N		Total Phosphorus															
		Stage	1		1		1		1		1		1		1		1		1															
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	CFU/100 ml	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q		Q		Q		Q	
	Sat	1/1/22	1.406		7.6		8.38		0.29																									
1	Sun	1/2/22	1.124		7.5		8.45		0.31																									
	Mon	1/3/22	1.001		7.5		8.53		0.32		2.3		5.0				<	0.02		0.13														
	Tue	1/4/22	0.889		7.5		8.91		0.31	<	2.0		5.0	<	2.0	<	0.02		0.15															
	Wed	1/5/22	0.890		7.5		8.82		0.36					<	2.0																			
	Thu	1/6/22	0.897		7.4		8.52		0.33																									
	Fri	1/7/22	0.922		7.6		9.31		0.3																									
	Sat	1/8/22	0.905		7.5		9.25		0.32																									
2	Sun	1/9/22	1.209		7.6		9.05		0.39																									
	Mon	1/10/22	1.058		7.6		9.01		0.3	<	2.0		7.0				<	0.02		0.17														
	Tue	1/11/22	0.963		7.6		9.33		0.34		2.2		5.0	<	2.0	<	0.02		0.15															
	Wed	1/12/22	0.918		7.5		9.31		0.33					<	2.0																			
	Thu	1/13/22	0.991		7.5		8.71		0.23																									
	Fri	1/14/22	1.000		7.5		8.98		0.32																									
	Sat	1/15/22	0.912		7.5		9.26		0.32																									
3	Sun	1/16/22	1.372		7.5		9.29		0.39																									
	Mon	1/17/22	1.992		7.5		8.95		0.19		2.9		12.0				0.09		0.23															
	Tue	1/18/22	1.298		7.4		9.49		0.31		5.2		8.0	<	2.0	<	0.02		0.15															
	Wed	1/19/22	1.277		7.5		9.34		0.29						10.0																			
	Thu	1/20/22	1.568		7.4		9.03		0.38																									
	Fri	1/21/22	1.243		7.6		9.68		0.35																									
	Sat	1/22/22	1.223		7.5		9.33		0.31																									
4	Sun	1/23/22	1.197		7.4		9.16		0.32																									
	Mon	1/24/22	1.156		7.5		9.02		0.37		3.1		8.0			<	0.02		0.13															
	Tue	1/25/22	1.064		7.5		9.23		0.35		3.9		3.0	<	2.0	<	0.02		0.12															
	Wed	1/26/22	1.046		7.5		9.36		0.42					<	2.0																			
	Thu	1/27/22	1.067		7.4		9.23		0.48																									
	Fri	1/28/22	1.072		7.5		9.12		0.38																									
	Sat	1/29/22	1.018		7.5		9.15		0.49																									
5	Sun	1/30/22	1.046		7.5		9.4		0.37																									
	Mon	1/31/22	1.036		7.5		9.21		0.35	<	2.0		4.0				0.2		0.14															
Statistics for DMR																																		
Daily Minimum (Conc.):					**7.4**		**8.38**		**0.19**	<	**2**		**3**	<	**2**	<	**0.02**		**0.12**															
Daily Maximum (Conc):					**7.6**		**9.68**		**0.49**		**5.2**		**12**		**10**		**0.2**		**0.23**															
Max Avg Weekly (Conc.):							**9.3**		**0.4**		**4**		**10**			<	**0.06**		**0**															
Avg Monthly (Conc.):							**9.09**		**0.3**	<	**3**		**6**			<	**0.05**		**0.15**															
Geometric Mean (Conc.):														<	**2**																			
Max Avg Weekly (Load):	**1.424865**						**110**		**4**		**52**		**143**			<	**0.9**		**3**															
Avg Monthly (Load):	**1.121295**						**85**		**3**	<	**28**		**67**			<	**0.5**		**2**															
Total Monthly (Load):	**34.760149**						**2635**		**97**	<	**880**		**2084**			<	**15**		**48**															
Daily Minimum (Load):	**0.889489**						**64**		**2**	<	**15**		**27**			<	**0.1**		**1**															
Daily Maximum (Load):	**1.99191**						**149**		**5**		**56**		**199**				**2**		**4**															

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: Gene A. Lank II License No.: **246163**
Title: Operator Date: **2/14/2022**

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Version 2.2, 10/15/2020

CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT MONITORING

☑ Continuous Discharge

Facility Name: **Middletown STP**
Municipality: **Middletown Borough** County: **Dauphin**
Watershed: **7-C**
TN Cap Load (lbs): **40,182**
TN Delivery Ratio: **0.961**

◉ Sewage ○ Industrial Waste

Compliance Year: **2022** Outfall: **001**
NPDES Permit No.: **PA0020664**
This permit will expire on: **February 28, 2026**
TP Cap Load (lbs): **5,358**
TP Delivery Ratio: **0.436**

	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
10/1/21	1.519																				
10/2/21	1.412																				
10/3/21	1.578																				
10/4/21	1.561		0.18		2.3	<	0.02	<	0.3		0.6		7.9	<	2.0	<	26.0	<	2.61	<	34.0
10/5/21	1.392		0.22		2.6	<	0.02	<	0.2		0.8		9.5	<	2.0	<	23.2	<	2.82	<	32.7
10/6/21	1.354																				
10/7/21	1.338																				
10/8/21	1.326																				
10/9/21	1.234																				
10/10/21	1.256																				
10/11/21	1.314		0.36		3.9	<	0.02	<	0.2	<	0.5	<	5.5	<	2.0	<	22.1	<	2.52	<	27.6
10/12/21	1.190		0.23		2.3	<	0.02	<	0.2	<	0.5	<	5.0	<	2.0	<	19.4	<	2.45	<	24.3
10/13/21	1.239																				
10/14/21	1.185																				
10/15/21	1.164																				
10/16/21	1.270																				
10/17/21	1.148																				
10/18/21	1.183		0.19		1.9		0.07		0.7	<	0.5	<	4.9	<	2.1	<	20.8	<	2.61	<	25.8
10/19/21	1.079		0.2		1.8		0.03		0.3	<	0.5	<	4.5	<	2.1	<	19.0	<	2.61	<	23.5
10/20/21	1.076																				
10/21/21	1.095																				
10/22/21	1.095																				
10/23/21	1.110																				
10/24/21	1.084																				
10/25/21	1.526		0.26		3.3		0.08		1.0		0.8		9.9	<	2.1	<	26.1	<	2.83	<	36.0
10/26/21	1.275		0.21		2.2	<	0.02	<	0.2	<	0.5	<	5.3	<	1.8	<	19.4	<	2.32	<	24.7
10/27/21	1.115																				
10/28/21	1.099																				
10/29/21	2.570																				
10/30/21	1.607																				
10/31/21	1.423																				
11/1/21	1.322		0.21		2.3	<	0.02	<	0.2		0.5		5.6	<	1.9	<	20.7	<	2.39	<	26.3
11/2/21	1.222		0.25		2.5	<	0.02	<	0.2		1.0		10.0	<	2.1	<	21.5	<	3.09	<	31.5
11/3/21	1.184																				
11/4/21	1.179																				
11/5/21	1.141																				
11/6/21	1.072																				
11/7/21	1.110																				
11/8/21	1.131		0.21		2.0	<	0.02	<	0.2		0.6		5.3	<	2.2	<	20.5	<	2.73	<	25.7
11/9/21	1.028		0.24		2.1	<	0.02	<	0.2		0.8		6.5	<	2.2	<	19.0	<	2.98	<	25.5
11/10/21	1.024																				
11/11/21	1.099																				
11/12/21	1.674																				
11/13/21	1.255																				

11/14/21	1.187																				
11/15/21	1.163		0.17		1.6	<	0.02	<	0.2	<	0.5	<	4.8	<	2.1	<	20.4	<	2.60	<	25.2
11/16/21	1.050		0.14		1.2	<	0.02	<	0.2		1.2		10.7	<	2.3	<	20.0	<	3.50	<	30.6
11/17/21	1.058																				
11/18/21	1.077																				
11/19/21	1.044																				
11/20/21	0.982																				
11/21/21	1.014																				
11/22/21	1.062		0.16		1.4	<	0.02	<	0.2		0.9		7.8	<	1.9	<	17.2	<	2.82	<	25.0
11/23/21	0.929		0.15		1.2		0.13		1.0		0.6		4.5	<	1.9	<	14.9	<	2.50	<	19.4
11/24/21	0.955																				
11/25/21	0.916																				
11/26/21	0.894																				
11/27/21	0.905																				
11/28/21	0.954																				
11/29/21	1.009		0.14		1.2		0.02		0.2	<	0.5	<	4.2	<	2.3	<	19.1	<	2.77	<	23.3
11/30/21	0.903		0.16		1.2		0.02		0.2	<	0.5	<	3.8	<	2.4	<	17.7	<	2.85	<	21.5
12/1/21	0.956																				
12/2/21	0.938																				
12/3/21	0.950																				
12/4/21	0.912																				
12/5/21	0.942																				
12/6/21	0.958		0.18		1.4	<	0.02	<	0.2		0.8		6.5	<	2.2	<	17.6	<	3.01	<	24.0
12/7/21	0.906		0.14		1.1	<	0.02	<	0.2		0.6		4.4	<	2.2	<	16.9	<	2.82	<	21.3
12/8/21	0.936																				
12/9/21	0.947																				
12/10/21	0.924																				
12/11/21	0.875																				
12/12/21	0.911																				
12/13/21	0.956		0.16		1.3	<	0.02	<	0.2		1.1		8.4	<	2.2	<	17.4	<	3.24	<	25.8
12/14/21	0.874		0.19		1.4		0.05		0.4		0.8		6.0	<	2.0	<	14.8	<	2.86	<	20.8
12/15/21	0.908																				
12/16/21	0.888																				
12/17/21	0.880																				
12/18/21	0.891																				
12/19/21	0.881																				
12/20/21	0.913		0.47		3.6		0.06		0.5		1.4		10.4	<	1.9	<	14.8	<	3.31	<	25.2
12/21/21	0.828		0.14		1.0		0.04		0.3		1.0		7.1	<	1.7	<	11.6	<	2.71	<	18.7
12/22/21	0.835																				
12/23/21	0.883																				
12/24/21	0.838																				
12/25/21	0.867																				
12/26/21	0.827																				
12/27/21	0.999		0.14		1.2		0.06		0.5	<	0.5	<	4.2	<	1.9	<	15.6	<	2.37	<	19.7
12/28/21	0.894		0.11		0.8	<	0.02	<	0.1		0.8		5.8	<	1.9	<	14.0	<	2.66	<	19.8
12/29/21	0.895																				
12/30/21	0.890																				
12/31/21	0.828																				
1/1/22	1.406																				
1/2/22	1.124																				
1/3/22	1.001		0.13		1.1	<	0.02	<	0.2		0.82		6.8	<	1.89	<	15.8	<	2.71	<	22.6
1/4/22	0.889		0.15		1.1	<	0.02	<	0.1		0.57		4.2	<	1.88	<	13.9	<	2.45	<	18.2
1/5/22	0.890																				
1/6/22	0.897																				
1/7/22	0.922																				
1/8/22	0.905																				

1/9/22	1.209																			
1/10/22	1.058		0.17		1.5		0.02		0.2		1.19		10.5	<	3.07	<	27.1	<	4.26	< 37.6
1/11/22	0.963		0.15		1.2	<	0.02	<	0.2		1.12		9.0	<	3.05	<	24.5	<	4.17	< 33.5
1/12/22	0.918																			
1/13/22	0.991																			
1/14/22	1.000																			
1/15/22	0.912																			
1/16/22	1.372																			
1/17/22	1.992		0.23		3.8		0.09		1.5		1.58		26.2		2.02		33.6		3.60	59.8
1/18/22	1.298		0.15		1.6	<	0.02	<	0.2		0.91		9.9	<	1.89	<	20.5	<	2.80	< 30.3
1/19/22	1.277																			
1/20/22	1.568																			
1/21/22	1.243																			
1/22/22	1.223																			
1/23/22	1.197																			
1/24/22	1.156		0.13		1.3	<	0.02	<	0.2		0.9		8.7	<	2.23	<	21.5	<	3.13	< 30.2
1/25/22	1.064		0.12		1.1	<	0.02	<	0.2		0.72		6.4	<	2.24	<	19.9	<	2.96	< 26.3
1/26/22	1.046																			
1/27/22	1.067																			
1/28/22	1.072																			
1/29/22	1.018																			
1/30/22	1.046																			
1/31/22	1.036		0.14		1.2		0.2		1.7	<	0.5	<	4.3	<	2.46	<	21.2	<	2.96	< 25.6
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Avg	**1.106061**		**0.19**		**1.8**	**<**	**0.04**	**<**	**0.4**	**<**	**0.77**	**<**	**7.3**	**<**	**2.12**	**<**	**19.6**	**<**	**2.89**	**<**	**26.9**
Annual Total Mass Loads (lbs):					**653**			**<**	**130**			**<**	**2656**			**<**	**7170**			**<**	**9826**

P Credits Generated: **812** **N Credits Generated:** **9160**

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: **Gene A. Lank II** License No.: **246163**

Title: **Operator** Date: **2/14/2022**

Monthly Statistics

Monthly Total Mass Loads (lbs)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	78.8	< 12	< 203.7	< 682	< 885.7
November	50.2	< 8	< 189.6	< 572.7	< 762.3
December	45.3	< 8.6	< 204.9	< 475.3	< 680.2
January	47.8	< 15.4	< 296.4	< 681.9	< 978.3
February					
March					
April					
May					
June					
July					
August					
September					

Average Monthly Concentrations (mg/L)

Month	Total Phosphorus (TP)	NH_3-N	TKN	NO_2+NO_3 as N	Total Nitrogen (TN)
October	0.23	< 0.04	< 0.59	< 2.01	< 2.6
November	0.18	< 0.03	< 0.7	< 2.12	< 2.82
December	0.19	< 0.04	< 0.87	< 2	< 2.87
January	0.15	< 0.05	< 0.92	< 2.3	< 3.23
February					
March					
April					
May					
June					
July					
August					
September					

3800-FM-BCW0438 3/2012

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

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

Month: **January** Year: **2022**
NPDES Permit No.: **PA0020664**
Renewal application due **180 days** prior to expiration
This permit will expire on: **February 28, 2026**

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

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

Date	Liquid Sewage Sludge/Biosolids Hauled Off-site			Dewatered Sewage Sludge/Biosolids Hauled Off-site			Sewage Sludge/Biosolids Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
1/4/22				9.21	31.27	**2.88**			
1/6/22				8.45	29.90	**2.53**			
1/13/22				5.80	32.20	**1.87**			
1/19/22				5.42	33.11	**1.79**			
1/26/22				5.38	31.25	**1.68**			
1/27/22				4.92	33.32	**1.64**			
TOTAL:				**TOTAL:**		**12.389**		**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	**R. Cassel**			
Municipality	HUMMELSTOWN			
County	DAUPHIN			
DEP Permit No.	PAG07-3504			
Type of Material*	Biosolids			
Dry Tons Applied/Disposed	12.39			
Type of Disposal/Use*	Agricultural Utilization			
Hauler Name	BORO. MIDDLETOWN			

* See Instructions for explanation.

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

Prepared By: **Gene A. Lank II** License No.: **246163**
Title: **Operator** Date: **February 14, 2022**

SUEZ Middletown WWTP

January, 2022

DATE	EFF FLOW MGD	M.J. Reider Composite Sample Test Results																			
		BOD		CBOD		%Remova	SUSPENDED SOLIDS				%Remova	TP		FEC.	NH3		NO2-NO3		TKN		TN	
		INFLUENT		EFFLUENT			INFLUENT		EFFLUENT			EFFLUENT		COLIF.	EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT	
		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	mg/L	LBS.		mg/L	LBS.	/100ml	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.	mg/L	LBS.
01	1.406																				
02	1.124																				
03	1.001	217	1,812	2.3	19.21	98.9	260	2,171	5.0	41.76	98.1	0.13	1.09		<0.02	<0.17	<1.9	<15.78	0.8	6.85	<2.71	<22.6
04	0.889	221	1,639	<2.0	<14.84	99.1	160	1,187	5.0	37.09	96.9	0.15	1.11	<2	<0.02	<0.15	<1.9	<13.95	0.6	4.23	<2.45	<18.2
05	0.890													<2								
06	0.897																					
07	0.922																					
08	0.905																					
09	1.209																					
10	1.058	330	2,911	<2.0	<17.64	99.4	327	2,884	7.0	61.74	97.9	0.17	1.50		0.02	0.18	<3.1	<27.08	1.2	10.50	<4.26	<37.6
11	0.963	300	2,410	2.2	17.67	99.3	300	2,410	5.0	40.17	98.3	0.15	1.21	<2	<0.02	<0.16	<3.1	<24.50	1.1	9.00	<4.17	<33.5
12	0.918													<2								
13	0.991																					
14	1.000																					
15	0.912																					
16	1.372																					
17	1.992	192	3,190	2.9	48.18	98.5	250	4,153	12.0	199.35	95.2	0.23	3.82		0.09	1.50	2.0	33.56	1.6	26.25	3.60	59.8
18	1.298	170	1,841	5.2	56.30	96.9	172	1,862	8.0	86.62	95.3	0.15	1.62	<2	<0.02	<0.22	<1.9	<20.46	0.9	9.85	<2.80	<30.3
19	1.277													10								
20	1.568																					
21	1.243																					
22	1.223																					
23	1.197																					
24	1.156	257	2,479	3.1	29.90	98.8	246	2,372	8.0	77.15	96.7	0.13	1.25		<0.02	<0.19	<2.2	<21.51	0.9	8.68	<3.13	<30.2
25	1.064	225	1,996	3.9	34.60	98.3	178	1,579	3.0	26.62	98.3	0.12	1.06	<2	<0.02	<0.18	<2.2	<19.87	0.7	6.39	<2.96	<26.3
26	1.046													<2								
27	1.067																					
28	1.072																					
29	1.018																					
30	1.046																					
31	1.036	288	2,488	<2.0	<17.27	99.3	292	2,522	4.0	34.55	98.6	0.14	1.21		0.20	1.73	<2.5	<21.25	<0.5	<4.32	<2.96	<25.6

EVISED 9/18/15 M

SUEZ Middletown WWTP

Daily Effluent Grab Monitoring / Weather

January 2022

Date	Operator Initials	Effluent Grab Sample Time		pH		RPD	Dissolved Oxygen (mg/L)		RPD	Total Residual Chlorine (mg/L)		RPD	Temp.	Influent COD	Comments
		Start	Finish	#1	#2	%	#1	#2	%	#1	#2	%	C	mg/L	
01	GL	0753	0753	7.60	7.60	0.00	8.38	8.37	0.12	0.29	.29	.00	16.7		STORM MODE OVERNIGHT
02	GG	0938	0938	7.50	7.50	0.00	8.45	8.43	0.24	0.31	.30	3.28	17.1		
03	GL	0856	0856	7.50	7.50	0.00	8.53	8.52	0.12	0.32	.31	3.17	15.8	372.00	
04	GL	0847	0847	7.50	7.50	0.00	8.91	8.90	0.11	0.31	.31	.00	14.2	335.00	
05	GL	0755	0755	7.50	7.50	0.00	8.82	8.81	0.11	0.36	.37	-2.74	14.1	517.00	
06	GL	0905	0905	7.40	7.40	0.00	8.52	8.52	0.00	0.33	.33	.00	14.1	457.00	
07	GL	0952	0952	7.60	7.60	0.00	9.31	9.30	0.11	0.30	.30	.00	13.1		
08	GL	0803	0803	7.50	7.50	0.00	9.25	9.23	0.22	0.32	.31	3.17	12.2		
09	GG	0936	0936	7.60	7.60	0.00	9.05	9.03	0.22	0.39	.41	-5.00	13.0		
10	GL	0847	0847	7.60	7.60	0.00	9.01	8.99	0.22	0.30	.31	-3.28	13.3	547.00	
11	GL	0843	0843	7.60	7.60	0.00	9.33	9.30	0.32	0.34	.34	.00	12.2	406.00	
12	GL	0805	0805	7.50	7.50	0.00	9.31	9.30	0.11	0.33	.32	3.08	12.1	593.00	
13	GL	0857	0857	7.50	7.50	0.00	8.71	8.70	0.11	0.23	.22	4.44	13.2	603.00	
14	GL	0910	0910	7.50	7.50	0.00	8.98	8.96	0.22	0.32	.32	.00	14.6	411.00	
15	GL	0753	0753	7.50	7.50	0.00	9.26	9.24	0.22	0.32	.32	.00	12.0		
16	GG	0915	0915	7.50	7.50	0.00	9.29	9.30	-0.11	0.39	.42	-7.41	11.8		
17	GL	0927	0927	7.50	7.50	0.00	8.95	8.94	0.11	0.19	.18	5.41	13.4		STORM MODE SINCE 0330 HRS.
18	GL	0840	0840	7.40	7.40	0.00	9.49	9.47	0.21	0.31	.31	.00	12.5	304.00	
19	GL	0848	0848	7.50	7.50	0.00	9.34	9.32	0.21	0.29	.29	.00	13.4	355.00	
20	GG	0735	0735	7.40	7.40	0.00	9.03	8.98	0.56	0.38	.40	-5.13	13.9	433.00	
21	GG	0825	0825	7.60	7.60	0.00	9.68	9.70	-0.21	0.35	.35	.00	10.8	263.00	
22	GL	0801	0801	7.50	7.50	0.00	9.33	9.31	0.21	0.31	.31	.00	12.1		
23	GG	0940	0940	7.40	7.40	0.00	9.16	9.16	0.00	0.32	.31	3.17	13.0		
24	GL	0912	0912	7.50	7.50	0.00	9.02	9.01	0.11	0.37	.38	-2.67	13.2	671.00	
25	GL	0852	0852	7.50	7.50	0.00	9.23	9.22	0.11	0.35	.35	.00	13.5	563.00	
26	GL	0902	0902	7.50	7.50	0.00	9.36	9.35	0.11	0.42	.43	-2.35	13.0	424.00	
27	GL	0855	0855	7.40	7.40	0.00	9.23	9.21	0.22	0.48	.47	2.11	12.5	484.00	
28	GL	0852	0852	7.50	7.50	0.00	9.12	9.11	0.11	0.38	.37	2.67	13.4	562.00	
29	GL	0810	0810	7.50	7.50	0.00	9.15	9.12	0.33	0.49	.48	2.06	12.0		
30	GG	1000	1000	7.50	7.50	0.00	9.40	9.38	0.21	0.37	.37	.00	11.6		
31	GL	0820	0820	7.50	7.50	0.00	9.21	9.19	0.22	0.35	.35	.00	11.5	791.00	

SUEZ Middletown WWTP

Process Control

January 2022

DAY	DITCH				RAS	WASTE			RR	F/M	SETTLING TEST			BLANKETS	
	TS		VS		TS	Gallons	Lbs	SRT			MINUTES		SVI	C1	C2
	mg/L	lbs	mg/L	%	mg/L			Days			5	30		AM	AM
01						20,000								12	12
02						20,000								12	15
03	4,470	54,424	3,094	69.2	9,707	18,000	1,457	25.86	4.50	0.04	930	620	139	3	5
04	4,183	50,938	2,963	70.8	9,034	19,000	1,432	25.20	3.60	0.03	940	630	151	12	14
05	4,613	56,170	3,417	74.1	10,976	19,000	1,739	23.92	3.49	0.04	930	650	141	8	8
06	4,300	52,358	2,924	68.0	8,721	19,000	1,382	25.76	3.84	0.04	920	570	133	12	8
07						19,000								10	8
08						19,000								12	10
09						19,000									
10	5,112	62,241	3,408	66.7	10,447	19,000	1,655	25.07	3.08	0.06	930	610	119	12	14
11	4,808	58,540	3,262	67.8	9,679	19,000	1,534	25.90	2.81	0.04	930	590	123	10	11
12	4,638	56,469	2,920	63.0	10,390	19,000	1,646	21.60	3.45	0.06	930	610	132	0	0
13	4,961	60,403	3,250	65.5	10,411	19,000	1,650	23.99	3.30	0.05	930	600	121	3	2
14	5,013	61,040	3,284	65.5	10,029	19,000	1,589	25.16	3.96	0.04	940	620	124	2	2
15						19,000								8	6
16						19,000								10	6
17						19,000								0	12
18	5,335	64,958	3,614	67.7	9,108	23,000	1,747	25.19	3.40	0.05	930	600	112	12	15
19	4,597	55,969	2,724	59.3	10,061	16,000	1,343	24.70	4.74	0.05	900	500	109	6	27
20	4,691	57,123	3,043	64.9	11,679	18,000	1,753	21.13	4.93	0.05	900	540	115	12	24
21	3,636	44,271	2,272	62.5	16,308	18,000	2,448	11.30	2.88	0.06	700	330	91	3	48
22						19,000								12	12
23						19,000								10	8
24	4,811	58,581	3,265	67.9	7,888	24,000	1,579	25.18	3.79	0.08	940	660	137	12	11
25	4,799	58,440	3,257	67.9	8,824	21,000	1,545	25.66	3.65	0.06	910	560	117	11	11
26	4,443	54,099	3,076	69.2	9,928	18,000	1,490	25.13	4.53	0.05	900	550	124	11	10
27	4,658	56,722	3,278	70.4	9,836	19,000	1,559	25.61	3.59	0.05	920	570	122	11	8
28	5,078	61,830	3,724	73.3	9,881	22,000	1,813	25.01	3.37	0.05	910	540	106	6	6
29						20,000								12	10
30						20,000								12	9
31	4,787	58,290	3,248	67.9	9,884	19,000	1,566	25.25	3.71	0.08	950	610	127	12	7
AVG	4,681	56,993	3,159	67.4	10,147	19,355	1,628	24.0	3.72	0.05	913	577	123	9	11

PA MIDDLETOWN WWTP

THICKENER MONTHLY REPORT

January 2022

DATE	RUN	FEED SLUDGE			DISCHARGE SLUDGE			POLYMER
	TIME	GALLONS	% SOLIDS	LBS.	GALLONS	% SOLIDS	LBS.	GALLONS
01								
02								
03	6.50	83,017	0.79	5,470	11,781	5.19	5,099	5
04								
05								
06	3.00	36,050	0.81	2,435	6,732	4.97	2,790	2
07	3.25	40,362	0.81	2,727	6,732	4.97	2,790	2
08								
09								
10	4.50	56,582	0.78	3,681	6,732	5.26	2,953	6
11								
12								
13	4.00	49,142	0.76	3,115	6,732	5.30	2,976	5
14	5.50	69,248	0.74	4,274	10,098	5.40	4,548	3
15								
16								
17	5.50	68,624	0.72	4,121	10,098	5.55	4,674	5
18								
19								
20	3.50	45,894	0.93	3,560	6,732	5.45	3,060	3
21	3.50	41,944	0.87	3,043	10,098	4.91	4,135	4
22								
23								
24	4.25	54,366	0.89	4,035	8,415	6.11	4,288	4
25								
26								
27	3.00	38,498	0.87	2,793	6,732	5.11	2,869	3
28	3.50	45,116	0.85	3,198	6,732	5.60	3,144	3
29								
30								
31								
TOTAL	50	628,843	9.82	42,452	97,614	63.82	43,326	45

REVISED 7/17/14

SUEZ Middletown WWTP

January 2022

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	
01/01/22																				
01/02/22							10.1	9.5	9.5								1/2/22	10:00	141.7	10,098
01/03/22	BS	137.2	83,017	51,927	39,003	75.1	9.5	9.5	10.2	11,781	5,102	3,832	137.2	13:45	7.9	1/3/22 21:38				
01/04/22																				
01/05/22							10.1	9.5	9.5								1/5/22	12:45	140.1	10,098
01/06/22	BS	136.6	36,050	49,683	36,879	74.2	9.5	9.5	9.9	6,732	2,789	2,071	136.6	10:30	8.8	1/6/22 19:17				
01/07/22	GG	135.3	40,362	49,683	36,879	74.2	9.9	9.9	10.3	6,732	2,789	2,071	135.3	10:30	11.1	1/7/22 21:36				
01/08/22																				
01/09/22							10.2	9.5	9.5								1/9/22	10:45	137.4	11,781
01/10/22	GG	134.1	56,582	52,632	40,306	76.6	9.5	9.5	9.9	6,732	2,955	2,263	134.1	11:30	13.8	1/11/22 1:15				
01/11/22																				
01/12/22							9.8	9.5	9.5								1/12/22	13:25	137.0	5,049
01/13/22	GL/BS	134.4	49,142	52,992	39,512	74.6	9.5	9.5	9.9	6,732	2,975	2,218	134.4	11:30	13.0	1/14/22 0:32				
01/14/22	BS	133.3	69,248	53,952	41,203	76.4	9.9	9.9	10.5	10,098	4,544	3,470	133.3	12:30	15.9	1/15/22 4:22				
01/15/22																				
01/16/22							10.4	9.5	9.5								1/16/22	9:45	138.3	15,147
01/17/22	BS	133.8	68,624	55,548	42,047	75.7	9.5	9.5	10.1	10,098	4,678	3,541	133.8	13:00	14.5	1/18/22 3:31				
01/18/22																				
01/19/22							9.9	9.4	9.4								1/19/22	11:15	137.2	8,415
01/20/22	CK	134.3	45,894	54,521	41,899	76.8	9.4	9.4	9.8	6,732	3,061	2,352	134.3	10:45	13.3	1/21/22 0:01				
01/21/22	CK	132.1	41,944	49,069	37,935	77.3	9.7	9.7	10.3	10,098	4,132	3,195	135.6	10:45	10.5	1/21/22 21:16				
01/22/22																				
01/23/22							10.3	9.5	9.5								1/23/22	10:55	137.5	13,464
01/24/22	BS	134.2	54,366	61,068	49,277	80.7	9.5	9.5	10.0	8,415	4,286	3,458	135.5	11:45	10.7	1/24/22 22:27				
01/25/22																				
01/26/22							10.0	9.5	9.5								1/26/22	10:55	137.5	8,415
01/27/22	GG	133.9	38,498	51,077	39,374	77.1	9.5	9.5	9.9	6,732	2,868	2,211	133.9	13:45	14.3	1/28/22 4:00				
01/28/22	GG	133.2	45,116	55,952	42,896	76.7	9.7	9.7	10.1	6,732	3,141	2,408	135.5	11:00	10.7	1/28/22 21:42				
01/29/22																				
01/30/22																				
01/31/22							9.5	9.0	9.0								1/31/22	13:10	134.9	8,415

SUEZ Middletown WWTP

January 2022

ATAD transfer to SNDR SRT							Centrifuge Data						
		ATAD							SNDR				
												Discharge	
Date	Operator	Total Solids	Transfer Gallons	ATAD Tank	Waste ATAD to SNDR	SRT	Operator	Centifuge Feed Gallons	TS	VS	VS	TS	VS
		mg/L	Gallons	Pounds	Pounds	Days			mg/L	mg/L	%	Lbs.	Lbs.
01/01/22													
01/02/22	GG	26,750	10,098	37,922	2,253	16.83							
01/03/22													
01/04/22													
01/05/22	GL	27,180	10,098	38,532	2,289	16.83	GG	22,876	26,537	13,525	51.0	5063	2580
01/06/22													
01/07/22													
01/08/22													
01/09/22	GG	27,106	11,781	38,808	2,663	14.57							
01/10/22													
01/11/22													
01/12/22	GL	27,678	5,049	38,072	1,165	32.67	BS	16,913	26,505	14,022	52.9	3739	1978
01/13/22													
01/14/22													
01/15/22													
01/16/22	GG	27,123	15,147	39,593	3,426	11.56							
01/17/22													
01/18/22													
01/19/22	GL	27,358	8,415	38,016	1,920	19.80	GG	16,624	25,871	13,696	52.9	3587	1899
01/20/22													
01/21/22													
01/22/22													
01/23/22	GG	26,777	13,464	38,712	3,007	12.88							
01/24/22													
01/25/22													
01/26/22	GL	26,486	8,415	37,176	1,859	20.00	GG	15,805	25,457	13,326	52.3	3356	1757
01/27/22							GG	15,367	25,562	13,292	52.0	3276	1704
01/28/22													
01/29/22													
01/30/22													
01/31/22	GL	26,474	8,415	35,302	1,858	19.00							

SUEZ Middletown WWTP

Centrifuge Monthly Report

January 2022

Date	Run Time	Feed Sludge		Centrifuge Cake			Lime		Polymer	Alum	SNDR		Copper
	Hours	Gallons	% Solids	Pounds Dry Solids	Dry Tons	% Solids	Pounds Used	Pounds/ Ton	Total Gallons	Total Gallons	pH	Level	Conc. mg/kg dry
01													
02													
03													
04													
05	5.00	22,876	2.65	5,056	2.53	29.9	985	390	18	45	5.9	8.0	1220
06													
07													
08													
09													
10													
11													
12	3.75	16,913	2.65	3,738	1.87	32.2	664	355	14	34	5.9	8.6	
13													
14													
15													
16													
17													
18													
19	3.50	16,624	2.59	3,591	1.80	33.1	620	345	3	34	5.9	8.9	
20													
21													
22													
23													
24													
25													
26	3.25	15,805	2.55	3,361	1.68	31.3	575	342	12	26	5.9	9.5	
27	3.50	15,367	2.56	3,281	1.64	33.3	620	378	13	30	6.1	9.3	
28													
29													
30													
31													

REVISED 7/17/14

PA MIDDLETOWN WWTP

January, 2022 **BIOSOLIDS INVENTORY**

DATE	DRY TONS		TO	USE	TOTAL ON SITE
	PROCESSED	DELIVERED			
01/01/22					
01/02/22					
01/03/22					
01/04/22		2.88	Bob Cassel	Agriculture	0.00
01/05/22	2.53				2.53
01/06/22		2.53	Bob Cassel	Agriculture	0.00
01/07/22					
01/08/22					
01/09/22					
01/10/22					
01/11/22					
01/12/22	1.87				1.87
01/13/22		1.87	Bob Cassel	Agriculture	0.00
01/14/22					
01/15/22					
01/16/22					
01/17/22					
01/18/22					
01/19/22	1.80	1.80	Bob Cassel	Agriculture	0.00
01/20/22					
01/21/22					
01/22/22					
01/23/22					
01/24/22					
01/25/22					
01/26/22	1.68	1.68	Bob Cassel	Agriculture	0.00
01/27/22	1.64	1.64	Bob Cassel	Agriculture	0.00
01/28/22					
01/29/22					
01/30/22					
01/31/22					
Total Tons	9.52	12.40		Total Tons	4.40
Metric Tons	8.64	11.25		Metric Tons	3.99

2022

PA MIDDLETOWN WWTP

BIOSOLIDS INVENTORY

DATE	Dry Tons (US Short Tons)		Dry Tons (Meteric Tons)	
	PROCESSED	DELIVERED	PROCESSED	DELIVERED
Jan, 2022	9.52	12.40	8.64	11.25
Feb, 2022				
Mar, 2022				
Apr, 2022				
May, 2022				
Jun, 2022				
Jul, 2022				
Aug, 2022				
Sep, 2022				
Oct, 2022				
Nov, 2022				
Dec, 2022				
Total	9.52	12.40	8.64	11.25
Average	9.52	12.40	8.64	11.25
Maximum	9.52	12.40	8.64	11.25
Minimum	9.52	12.40	8.64	11.25

SUEZ Middletown WWTP

Biosolids Volatile Reduction
M.J. Reider Results
2022

Date	Thickener Discharge			SNDR			Volatile Reduction
	TS	TVS	VS	TS	TVS	VS	
	mg/L		%	mg/L		%	%
01/03/22	51,000	37,842	74.2	26,400	13,500	51.1	64.3
01/17/22	54,000	41,040	76.0	25,000	12,800	51.2	68.8
AVG	52,500	39,441	75.1	25,700	13,150	51.2	
Avg. % TS Reduction		51.0	Avg. Mass Balance % VS Reduction				66.7

PA MIDDLETOWN WWTP
2022 Annual Performance

	Flow Data					
	Total MG	Average MG	Maximum		Minimum	
January	34.760	1.121	01/17/22	1.992	01/04/22	0.889
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total	34.760					
Average	34.760	1.121		1.992		0.889
Maximum	34.760	1.121		1.992		0.889
Minimum	34.760	1.121		1.992		0.889

	BOD / CBOD						Phosphorus, Total		Fecal Colif.
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal	Eff mg/L	Eff Lbs	cfu/100mL
January	244	3	70,864	825	70,040	98.7	0.15	44	10
February									
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
Total			70,864	825	70,040			44	
Average	244	3	70,864	825	70,040	98.7	0.15	44	
Maximum	244	3	70,864	825	70,040	98.7	0.15	44	
Minimum	244	3	70,864	825	70,040	98.7	0.15	44	

	TSS					
	Inf mg/L	Eff mg/L	Inf Lbs	Eff Lbs	Lbs Removed	% Removal
January	243	6	70,381	1,836	68,545	97.3
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
Total			70,381	1,836	68,545	
Average	242.8	6.3	70,381	1,836	68,545	97.3
Maximum	242.8	6.3	70,381	1,836	68,545	97.3
Minimum	242.8	6.3	70,381	1,836	68,545	97.3

	Ammonia		TKN		Nitrate+Nitrite				Fecal Colif.
	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Eff mg/L	Eff Lbs	Geo. Mean
January	0.05	14	0.9	268	2.30	668	3.23	935	<2.0
February									
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
Total		14	1	268		668		935	
Average	0.05	14	1	268	2.30	668	3.23	935	
Maximum	0.05	14	1	268	2.30	668	3.23	935	
Minimum	0.05	14	1	268	2.30	668	3.23	935	

Certificate of Analysis

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

Laboratory No.: 2146581
Report: 01/13/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2146581-01 **Collected By:** Client **Sampled:** 01/04/22 07:05 **Received:** 01/04/22 13:55
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	217	mg/l	2.0	SM 5210 B	01/04/22 16:18		MRW
Solids, Total Suspended	260	mg/l	1	SM 2540 D	01/05/22		RCE

Lab ID: 2146581-02 **Collected By:** Client **Sampled:** 01/04/22 08:47 **Received:** 01/04/22 13:55
Sample Desc: SUEZ Middletown 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	01/05/22		TML
Carbonaceous Biochemical Oxygen Demand	2.3	mg/l	2.0	SM 5210 B	01/04/22 17:00		MRW
Nitrate as N	1.79	mg/l	1.00	EPA 300.0 Rev 2.1	01/04/22 16:16		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/04/22 16:16		JAF
Nitrate+Nitrite as N	<1.89	mg/l	1.10	CALCULATED	01/04/22 16:16		JAF
Nitrogen, Total	<2.71	mg/l	1.60	CALCULATED	01/11/22 9:02		TML
Nitrogen, Total Kjeldahl (TKN)	0.82	mg/l	0.50	EPA 351.2 Rev 2.0	01/11/22		TML
Phosphorus as P, Total	0.13	mg/l	0.01	SM 4500-P F	01/05/22		TML
Solids, Total Suspended	5	mg/l	1	SM 2540 D	01/05/22		RCE

M.J. Reider Associates, Inc.

Lab ID: 2146581-03 **Collected By:** Client **Sampled:** 01/04/22 09:04 **Received:** 01/04/22 13:55
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/4/22 15:24	1/5/22 13:56		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2146581-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A0212	01/05/2022	TML

Certificate of Analysis

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

Laboratory No.: 2146818
Report: 01/13/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2146818-01 **Collected By:** Client **Sampled:** 01/05/22 07:03 **Received:** 01/05/22 14:05
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	221	mg/l	2.0	SM 5210 B	01/05/22 15:15		ALL
Solids, Total Suspended	160	mg/l	1	SM 2540 D	01/07/22		RCE

Lab ID: 2146818-02 **Collected By:** Client **Sampled:** 01/05/22 07:55 **Received:** 01/05/22 14:05
Sample Desc: SUEZ Middletown 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	01/07/22		TML
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/05/22 15:25		ASD
Nitrate as N	1.78	mg/l	1.00	EPA 300.0 Rev 2.1	01/05/22 21:01		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/05/22 21:01		JAF
Nitrate+Nitrite as N	<1.88	mg/l	1.10	CALCULATED	01/05/22 21:01		JAF
Nitrogen, Total	<2.45	mg/l	1.60	CALCULATED	01/11/22 10:33		TML
Nitrogen, Total Kjeldahl (TKN)	0.57	mg/l	0.50	EPA 351.2 Rev 2.0	01/11/22		TML
Phosphorus as P, Total	0.15	mg/l	0.01	SM 4500-P F	01/08/22		TML
Solids, Total Suspended	5	mg/l	1	SM 2540 D	01/07/22		RCE

M.J. Reider Associates, Inc.

Lab ID: 2146818-03 **Collected By:** Client **Sampled:** 01/05/22 08:13 **Received:** 01/05/22 14:05
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/5/22 14:21	1/6/22 13:54		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2146818-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A0354	01/06/2022	TML

Certificate of Analysis

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

Laboratory No.: 2147395
Report: 01/19/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2147395-01 **Collected By:** Josh R Moyer **Sampled:** 01/11/22 07:15 **Received:** 01/11/22 14:30
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	330	mg/l	2.0	SM 5210 B	01/11/22 17:00		ASD
Solids, Total Suspended	327	mg/l	1	SM 2540 D	01/12/22		ALD

Lab ID: 2147395-02 **Collected By:** Josh R Moyer **Sampled:** 01/11/22 08:43 **Received:** 01/11/22 14:30
Sample Desc: SUEZ Middletown 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	01/14/22		TML
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	01/11/22 16:45		ASD
Nitrate as N	2.97	mg/l	1.00	EPA 300.0 Rev 2.1	01/11/22 20:53		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/11/22 20:53		JAF
Nitrate+Nitrite as N	<3.07	mg/l	1.10	CALCULATED	01/11/22 20:53		JAF
Nitrogen, Total	<4.26	mg/l	1.60	CALCULATED	01/18/22 11:17		TML
Nitrogen, Total Kjeldahl (TKN)	1.19	mg/l	0.50	EPA 351.2 Rev 2.0	01/18/22		TML
Phosphorus as P, Total	0.17	mg/l	0.01	SM 4500-P F	01/14/22		TML
Solids, Total Suspended	7	mg/l	1	SM 2540 D	01/12/22		ALD

M.J. Reider Associates, Inc.

Lab ID: 2147395-03 **Collected By:** Josh R Moyer **Sampled:** 01/11/22 08:58 **Received:** 01/11/22 14:30
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/11/22 15:27	1/12/22 14:25		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2147395-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A0703	01/13/2022	TML

Certificate of Analysis

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

Laboratory No.: 2147516
Report: 01/19/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2147516-01 **Collected By:** Client **Sampled:** 01/12/22 07:05 **Received:** 01/12/22 14:45
Sample Desc: SUEZ Middletown 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	01/12/22 16:29		ALL
Solids, Total Suspended	300	mg/l	1	SM 2540 D	01/13/22		ALD

Lab ID: 2147516-02 **Collected By:** Client **Sampled:** 01/12/22 08:05 **Received:** 01/12/22 14:45
Sample Desc: SUEZ Middletown 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	01/14/22		TML
Carbonaceous Biochemical Oxygen Demand	2.2	mg/l	2.0	SM 5210 B	01/12/22 16:22		ALL
Nitrate as N	2.95	mg/l	1.00	EPA 300.0 Rev 2.1	01/12/22 18:07		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/12/22 18:07		JAF
Nitrate+Nitrite as N	<3.05	mg/l	1.10	CALCULATED	01/12/22 18:07		JAF
Nitrogen, Total	<4.17	mg/l	1.60	CALCULATED	01/18/22 13:32		TML
Nitrogen, Total Kjeldahl (TKN)	1.12	mg/l	0.50	EPA 351.2 Rev 2.0	01/18/22		TML
Phosphorus as P, Total	0.15	mg/l	0.01	SM 4500-P F	01/14/22		TML
Solids, Total Suspended	5	mg/l	1	SM 2540 D	01/13/22		ALD

Certificate of Analysis

M.J. Reider Associates, Inc.

Lab ID: 2147516-03 **Collected By:** Client **Sampled:** 01/12/22 08:20 **Received:** 01/12/22 14:45
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/12/22 15:18	1/13/22 14:28		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2147516-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A0703	01/13/2022	TML

Certificate of Analysis

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

Laboratory No.: 2200234
Report: 01/25/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2200234-01 **Collected By:** Client **Sampled:** 01/18/22 07:10 **Received:** 01/18/22 14:05
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	192	mg/l	2.0	SM 5210 B	01/18/22 15:55	C-37	ASD
Solids, Total Suspended	250	mg/l	1	SM 2540 D	01/19/22		ALD

Lab ID: 2200234-02 **Collected By:** Client **Sampled:** 01/18/22 08:40 **Received:** 01/18/22 14:05
Sample Desc: SUEZ Middletown Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.09	mg/l	0.02	EPA 350.1	01/19/22		TML
Carbonaceous Biochemical Oxygen Demand	2.9	mg/l	2.0	SM 5210 B	01/18/22 16:00		ASD
Nitrate as N	1.85	mg/l	1.00	EPA 300.0 Rev 2.1	01/18/22 16:39		JAF
Nitrite as N	0.17	mg/l	0.10	EPA 300.0 Rev 2.1	01/18/22 16:39		JAF
Nitrate+Nitrite as N	2.02	mg/l	1.10	CALCULATED	01/18/22 16:39		JAF
Nitrogen, Total	3.60	mg/l	1.60	CALCULATED	01/24/22 9:43		TML
Nitrogen, Total Kjeldahl (TKN)	1.58	mg/l	0.50	EPA 351.2 Rev 2.0	01/24/22		TML
Phosphorus as P, Total	0.23	mg/l	0.01	SM 4500-P F	01/19/22		TML
Solids, Total Suspended	12	mg/l	1	SM 2540 D	01/19/22		ALD

M.J. Reider Associates, Inc.

Lab ID: 2200234-03 **Collected By:** Client **Sampled:** 01/18/22 08:57 **Received:** 01/18/22 14:05
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/18/22 15:03	1/19/22 14:29		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2200234-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A1000	01/19/2022	TML

Notes and Definitions

C-37 The dissolved oxygen depletion for the dilution water blank was greater than 0.20mg/L at 1.35MG/L.

Certificate of Analysis

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

Laboratory No.: 2200431
Report: 01/25/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2200431-01 **Collected By:** Client **Sampled:** 01/19/22 07:10 **Received:** 01/19/22 13:37
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	170	mg/l	2.0	SM 5210 B	01/19/22 15:12		ALL
Solids, Total Suspended	172	mg/l	1	SM 2540 D	01/20/22		ALD

Lab ID: 2200431-02 **Collected By:** Client **Sampled:** 01/19/22 08:48 **Received:** 01/19/22 13:37
Sample Desc: SUEZ Middletown 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	01/20/22		TML
Carbonaceous Biochemical Oxygen Demand	5.2	mg/l	2.0	SM 5210 B	01/19/22 15:03		ALL
Nitrate as N	1.79	mg/l	1.00	EPA 300.0 Rev 2.1	01/19/22 15:38		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/19/22 15:38		JAF
Nitrate+Nitrite as N	<1.89	mg/l	1.10	CALCULATED	01/19/22 15:38		JAF
Nitrogen, Total	<2.80	mg/l	1.60	CALCULATED	01/24/22 12:03		TML
Nitrogen, Total Kjeldahl (TKN)	0.91	mg/l	0.50	EPA 351.2 Rev 2.0	01/24/22		TML
Phosphorus as P, Total	0.15	mg/l	0.01	SM 4500-P F	01/20/22		SNF
Solids, Total Suspended	8	mg/l	1	SM 2540 D	01/20/22		ALD

M.J. Reider Associates, Inc.

Lab ID: 2200431-03 **Collected By:** Client **Sampled:** 01/19/22 09:02 **Received:** 01/19/22 13:37
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	10	/100ml	2	SM 9222 D	1/19/22 14:38	1/20/22 13:30	M-26	JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2200431-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A1064	01/20/2022	SNF

Notes and Definitions

M-26 Duplicate analysis was greater than 20%RPD at 40%.

Certificate of Analysis

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

Laboratory No.: 2201389
Report: 02/01/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2201389-01 **Collected By:** Client **Sampled:** 01/25/22 07:10 **Received:** 01/25/22 12:30
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	257	mg/l	2.0	SM 5210 B	01/25/22 15:53		ASD
Solids, Total Suspended	246	mg/l	1	SM 2540 D	01/26/22		ALD

Lab ID: 2201389-02 **Collected By:** Client **Sampled:** 01/25/22 08:52 **Received:** 01/25/22 12:30
Sample Desc: SUEZ Middletown 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	01/27/22		TML
Carbonaceous Biochemical Oxygen Demand	3.1	mg/l	2.0	SM 5210 B	01/25/22 15:24		ASD
Nitrate as N	2.13	mg/l	1.00	EPA 300.0 Rev 2.1	01/25/22 13:00		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/25/22 13:00		JAF
Nitrate+Nitrite as N	<2.23	mg/l	1.10	CALCULATED	01/25/22 13:00		JAF
Nitrogen, Total	<3.13	mg/l	1.60	CALCULATED	01/28/22 11:33		TML
Nitrogen, Total Kjeldahl (TKN)	0.90	mg/l	0.50	EPA 351.2 Rev 2.0	01/28/22		TML
Phosphorus as P, Total	0.13	mg/l	0.01	SM 4500-P F	01/27/22		TML
Solids, Total Suspended	8	mg/l	1	SM 2540 D	01/26/22		ALD

Lab ID: 2201389-03 **Collected By:** Client **Sampled:** 01/25/22 09:07 **Received:** 01/25/22 12:30
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/25/22 14:47	1/26/22 14:19		JMW

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Certificate of Analysis

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

Laboratory No.: 2201250
Report: 02/02/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2201250-01 **Collected By:** Client **Sampled:** 01/26/22 07:10 **Received:** 01/26/22 14:04
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	225	mg/l	2.0	SM 5210 B	01/26/22 15:26		ASD
Solids, Total Suspended	178	mg/l	1	SM 2540 D	01/27/22		ALD

Lab ID: 2201250-02 **Collected By:** Client **Sampled:** 01/26/22 09:02 **Received:** 01/26/22 14:04
Sample Desc: SUEZ Middletown 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	01/28/22		TML
Carbonaceous Biochemical Oxygen Demand	3.9	mg/l	2.0	SM 5210 B	01/26/22 17:20		ASD
Nitrate as N	2.14	mg/l	1.00	EPA 300.0 Rev 2.1	01/26/22 20:48		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	01/26/22 20:48		JAF
Nitrate+Nitrite as N	<2.24	mg/l	1.10	CALCULATED	01/26/22 20:48		JAF
Nitrogen, Total	<2.96	mg/l	1.60	CALCULATED	01/28/22 14:37		TML
Nitrogen, Total Kjeldahl (TKN)	0.72	mg/l	0.50	EPA 351.2 Rev 2.0	01/28/22		TML
Phosphorus as P, Total	0.12	mg/l	0.01	SM 4500-P F	01/28/22		TML
Solids, Total Suspended	3	mg/l	1	SM 2540 D	01/27/22		ALD

M.J. Reider Associates, Inc.

Lab ID: 2201250-03 **Collected By:** Client **Sampled:** 01/26/22 09:17 **Received:** 01/26/22 14:04
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	1/26/22 15:20	1/27/22 14:28		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2201250-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A1508	01/28/2022	TML

Certificate of Analysis

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

Laboratory No.: 2202205
Report: 02/14/22
Lab Contact: Bradley T Griffiths

Attention: Gene Lank
Reported To: SUEZ Middletown
453 S. Lawrence St.
Middletown, PA 17057

Project Info: Bi-Weekly Inf & Eff

Lab ID: 2202205-01 **Collected By:** Client **Sampled:** 02/01/22 07:10 **Received:** 02/01/22 13:50
Sample Desc: SUEZ Middletown Influent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Biochemical Oxygen Demand	288	mg/l	2.0	SM 5210 B	02/01/22 14:51		ASD
Solids, Total Suspended	292	mg/l	1	SM 2540 D	02/02/22		ALD

Lab ID: 2202205-02 **Collected By:** Client **Sampled:** 02/01/22 09:03 **Received:** 02/01/22 13:50
Sample Desc: SUEZ Middletown Effluent (24Hr Composite) **Sample Type:** Composite

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Ammonia as N	0.20	mg/l	0.02	EPA 350.1	02/05/22		SNF
Carbonaceous Biochemical Oxygen Demand	<2.0	mg/l	2.0	SM 5210 B	02/01/22 15:10		ASD
Nitrate as N	2.36	mg/l	1.00	EPA 300.0 Rev 2.1	02/01/22 16:32		JAF
Nitrite as N	<0.10	mg/l	0.10	EPA 300.0 Rev 2.1	02/01/22 16:32		JAF
Nitrate+Nitrite as N	<2.46	mg/l	1.10	CALCULATED	02/01/22 16:32		JAF
Nitrogen, Total	<2.96	mg/l	1.60	CALCULATED	02/02/22 19:50		SNF
Nitrogen, Total Kjeldahl (TKN)	<0.50	mg/l	0.50	EPA 351.2 Rev 2.0	02/02/22		SNF
Phosphorus as P, Total	0.14	mg/l	0.01	SM 4500-P F	02/05/22		SNF
Solids, Total Suspended	4	mg/l	1	SM 2540 D	02/02/22		ALD

M.J. Reider Associates, Inc.

Lab ID: 2202205-03 **Collected By:** Client **Sampled:** 02/01/22 09:19 **Received:** 02/01/22 13:50
Sample Desc: SUEZ Middletown Effluent (Grab) **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst
Microbiology								
Fecal Coliform	<2	/100ml	2	SM 9222 D	2/1/22 14:43	2/2/22 14:08		JMW

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2202205-02				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2B0284	02/04/2022	SNF

Suez Middletown Water

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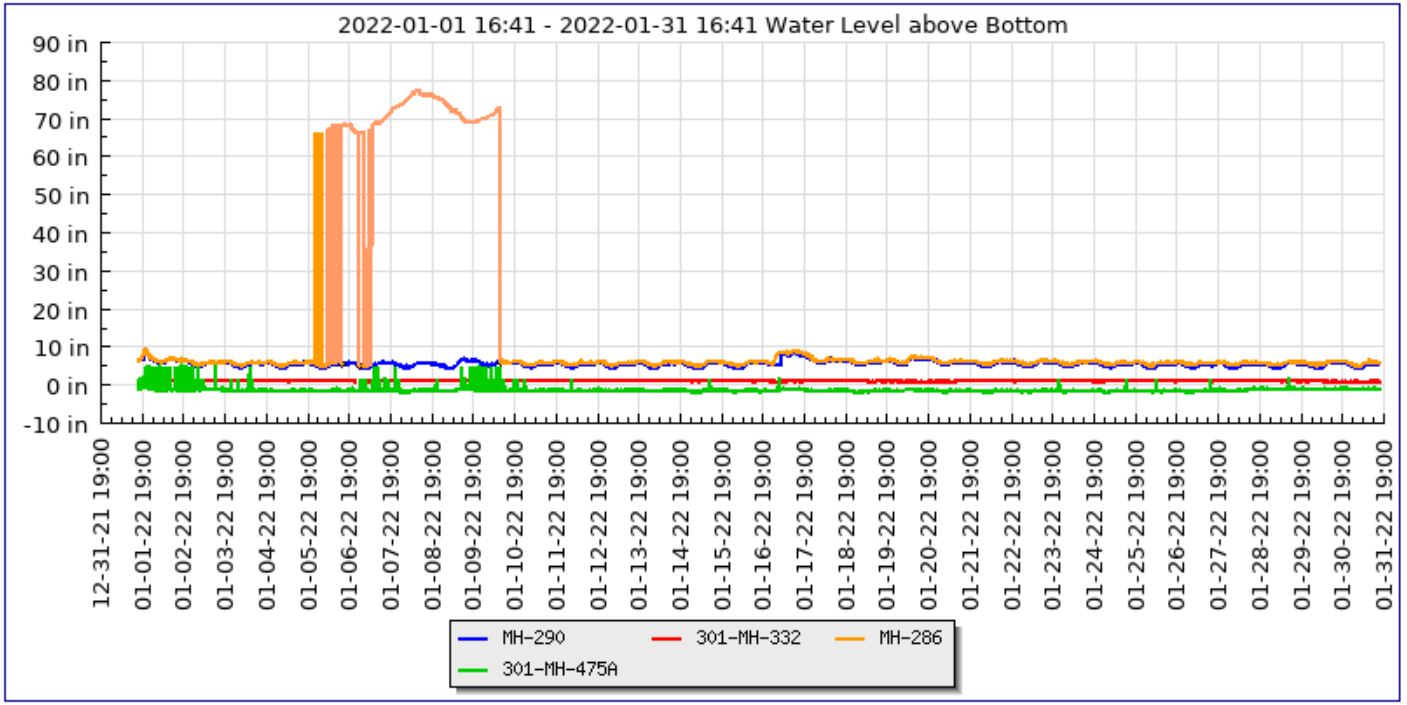
Map | SmartTrend® | Alarms and Alerts | System Operations | Multi Charts | Super Admin | Support

Interactive Charts



(●) Level / Rain
( ) PowerPack Voltage
( ) Signal Quality

Time Period: Custom

Date Range: 2022-01-01 16:41 - 2022-01-31 16:41

Adjust Scale - Reset

Max Y: 82.4

Min Y: -7.1

Download Data

Long Filter
( ) Gaps
( ) Fill Gaps
(●) No Filter

Update Chart

Locations

- 301-MH-332
- 301-MH-475A
- MH-286
- MH-290
- [RAIN] Mill Street-Hoffer Park

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

January, 2022

	Maximum Day	1,155,555					Days pumped	31
	Minimum Day	675,240						

Date	Well No.1	Well No.2	Well No.3	Well No.4	Well No.5	Well No.6	Total	Union Booster
01	143,449	299,649			80,169	257,412	780,679	64,770
02	129,544	303,566			72,599	230,990	736,699	65,533
03	162,759	304,049			90,281	276,600	833,689	119,142
04	113,321	304,783			62,671	199,428	680,203	62,690
05	113,843	305,655			62,961	200,399	682,858	65,106
06	141,431	304,492			78,349	249,352	773,624	69,416
07	111,569	305,534			62,136	196,001	675,240	105,519
08	156,022	303,740			85,930	275,077	820,769	72,896
09	133,157	304,270			73,991	234,181	745,599	71,736
10	147,453	303,051			81,865	260,187	792,556	108,656
11	160,122	302,405			88,058	279,507	830,092	87,930
12	151,413	300,864			83,511	265,362	801,150	71,130
13	165,859	303,351			91,395	289,092	849,697	128,080
14	128,816	303,102			71,243	186,501	689,662	66,896
15	264,562	299,241			146,190	445,562	1,155,555	79,948
16	196,163	301,381			107,409	338,387	943,340	126,717
17	144,652	303,090			79,487	250,785	778,014	71,093
18	232,822	303,844			127,830	211,369	875,865	83,206
19	168,206	302,966			92,051	293,904	857,127	125,004
20	167,728	305,406			92,155	292,843	858,132	66,202
21	120,826	308,341			65,874	210,406	705,447	74,641
22	185,199	307,306			101,184	322,039	915,728	128,242
23	183,025	307,442			100,113	317,777	908,357	71,487
24	160,919	307,588			88,325	280,446	837,278	131,617
25	186,118	301,783			105,187	335,120	928,208	94,428
26	122,749	309,380			67,368	214,149	713,646	66,264
27	156,101	308,698			85,787	271,909	822,495	117,801
28	163,637	308,121			89,435	286,911	848,104	79,989
29	170,158	308,093			93,147	296,467	867,865	67,745
30	196,333	306,843			107,439	327,394	938,009	127,794
31	161,964	307,197			88,638	281,761	839,560	65,380
Totals:	4,939,920	9,445,231			2,722,778	8,377,318	25,485,247	2,737,058
Maximum	264,562	309,380			146,190	445,562	1,155,555	131,617
Minimum	111,569	299,241			62,136	186,501	675,240	62,690
Average	159,352	304,685			87,832	270,236	822,105	88,292

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1			03 Compliance Sampling Log	4.00 Distribution System Monitoring\DS-000 Generic Sample Location													
2				400000	400007	400008	400011	400012	400013	400014	400015	400016	400017	400018	400019	400020	
3				DS-000: Contractual Weekly Distribution	pH	Temperature	Hardness	Alkalinity (CaCO3)	Calcium	Phosphorus, Total	Silicates	Iron, Total	Manganese, Total	TDS	Specific Conductance	Langlier Index	
4				Date	SU	Deg C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umhos/Cm2	LSI	
5		1 Sat															
6		2 Sun															
7		3 Mon															
8		4 Tue		1-4-22	7.50	13.0	347.0	202.00	108.00	0.05	20.60	<0.02	<0.01	270.00	725.00	7.50	
9		5 Wed															
10		6 Thu															
11		7 Fri															
12		8 Sat															
13		9 Sun															
14		10 Mon															
15		11 Tue		1-11-22	7.60	12.0	349.0	190.00	109.00	0.05	21.60	<0.02	<0.01	258.00	34200.00	7.60	
16		12 Wed															
17		13 Thu															
18		14 Fri															
19		15 Sat															
20	Jan	16 Sun															
21		17 Mon															
22		18 Tue		1-18-22	7.60	12.0	357.0	205.00	112.00	0.05	20.60	<0.02	<0.01	248.00	724.00	7.60	
23		19 Wed															
24		20 Thu															
25		21 Fri															
26		22 Sat															
27		23 Sun															
28		24 Mon															
29		25 Tue		1-25-22	7.50	12.0	333.0	190.00	104.00	0.05	22.30	<0.02	<0.01	250.00	722.00	7.50	
30		26 Wed															
31		27 Thu															
32		28 Fri															
33		29 Sat															
34		30 Sun															
35		31 Mon															
37	MINIMUM			1-11-22	7.50	12.0	333.0	190.00	104.00	0.05	20.60	<0.02	<0.01	248.00	722.00	7.50	
38	MAXIMUM			1-4-22	7.60	13.0	357.0	205.00	112.00	0.05	22.30	<0.02	<0.01	270.00	34,200.00	7.50	
39	AVERAGE			1	7.55	12.3	346.5	196.75	108.25	0.05	21.28	<0.02	<0.01	256.50	9,092.75	3.21	
40	SUM			4	30.20	49.0	1,386.0	787.00	433.00	0.20	85.10	<0.08	<0.04	1,026.00	36,371.00	12.84	

Certificate of Analysis

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

Laboratory No.: 2147518
Reported: 01/11/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2147518-01 **Collected By:** Client **Sampled:** 01/04/22 08:33 **Received:** 01/04/22 13:55
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	1/4/22 17:12	1/5/22 11:12		JMW	N/A	1

Lab ID: 2147518-02 **Collected By:** Client **Sampled:** 01/04/22 08:04 **Received:** 01/04/22 13:55
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	1/4/22 17:12	1/5/22 11:12		JMW	N/A	1

Lab ID: 2147518-03 **Collected By:** Client **Sampled:** 01/04/22 08:18 **Received:** 01/04/22 13:55
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	1/4/22 17:12	1/5/22 11:12		JMW	N/A	1

Certificate of Analysis

M.J. Reider Associates, Inc.

ENVIRONMENTAL TESTING LABORATORY
U.S. EPA/PA DEP #06-00003

Laboratory No.: 2147517
Report: 01/14/22
Lab Contact: Christina M Kistler

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

Project Info: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2147517-01 **Collected By:** Client **Sampled:** 01/04/22 08:35 **Received:** 01/04/22 13:55
Sample Desc: WWTP Lab Sink **Sample Type:** Grab

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst
General Chemistry							
Alkalinity, Total to pH 4.5	202	mg CaCO3/L	2	SM 2320 B	01/07/22		APR
Total Hardness as CaCO3	347	mg/l	4.56	CALCULATED	01/06/22		HRG
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	01/08/22		TML
Silica as SiO2	20.6	mg/l	2.14	CALCULATED	01/07/22		HRG
Conductivity	725	umhos/cm	1	SM 2510 B	01/13/22		ASD
Total Metals							
Calcium	108	mg/l	1	EPA 200.7 Rev 4.4	01/06/22		HRG
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/05/22		HRG
Magnesium	18.5	mg/l	0.5	EPA 200.7 Rev 4.4	01/06/22		HRG
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/05/22		MPB
Silicon	9.6	mg/l	1.0	EPA 200.7 Rev 4.4	01/07/22		HRG

Preparation Methods

Specific Method	Preparation Method	Prep Batch	Prepared Date	Prepared By
2147517-01				
General Chemistry				
SM 4500-P F	SM 4500-P B	B2A0368	01/07/2022	TML
Total Metals				
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	B2A0190	01/05/2022	HRG
EPA 200.8 Rev 5.4	EPA 200.8 Rev 5.4	B2A0204	01/05/2022	MPB

Certificate of Analysis

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

Laboratory No.: 2200233
Reported: 01/19/22
Lab Contact: Christina M Kistler

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

Project: DW-Raw VOCS 003 & 006
7220038

Lab ID: 2200233-02 **Collected By:** Josh R Moyer **Sampled:** 01/11/22 08:38 **Received:** 01/11/22 14:30
Sample Desc: 006 Well #6 RAW **PADEP Type:** R-Raw
Notes: **PWSID:** 7220038 **Loc ID:** 006

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Volatiles									
1,1,1-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.2
1,1,2-Trichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
1,1-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.007
1,2,4-Trichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.07
1,2-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.6
1,2-Dichloroethane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
1,2-Dichloropropane	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
1,4-Dichlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.075
Benzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
Carbon Tetrachloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
Chlorobenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.1
Cis-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.07
Ethylbenzene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.7
Methylene Chloride (Dichloromethane)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
Styrene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.1
Tetrachloroethene (PCE)	0.0057	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
Toluene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	1
Trans-1,2-Dichloroethene	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.1
Trichloroethene (TCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.005
Vinyl Chloride	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	0.002
Xylenes, Total	<0.0010	mg/l	0.0010	EPA 524.2 Rev 4.1	01/12/22		WJS	N/A	10
Surrogates									
1,2-Dichlorobenzene-d4	*99.0%*		*70-130*	*EPA 524.2 Rev 4.1*	01/12/22		WJS		
4-Bromofluorobenzene	*97.0%*		*70-130*	*EPA 524.2 Rev 4.1*	01/12/22		WJS		

ENVIRONMENTAL TESTING LABORATORY
PA DEP #06-00003

Certificate of Analysis

M.J. Reider Associates, Inc.

Lab ID: 2200233-03 **Collected By:** Josh R Moyer **Sampled:** 01/11/22 08:38 **Received:** 01/11/22 14:30
Sample Desc: TRIP BLANK 006 Well #6 RAW **PADEP Type:** Grab
Notes: **PWSID:** 7220038 **Loc ID:**
Comments: 2200233-02 Trip Blank

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min/Max
Volatiles								
Tetrachloroethene (PCE)	<0.0005	mg/l	0.0005	EPA 524.2 Rev 4.1	01/13/22		WJS	N/A 0.005
Surrogates								
1,2-Dichlorobenzene-d4	*92.0%*		*70-130*	*EPA 524.2 Rev 4.1*	01/13/22		WJS	
4-Bromofluorobenzene	*99.0%*		*70-130*	*EPA 524.2 Rev 4.1*	01/13/22		WJS	

Notes and Definitions

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

Certificate of Analysis

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

Laboratory No.: 2200433
Reported: 01/18/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2200433-01 **Collected By:** Client **Sampled:** 01/11/22 08:27 **Received:** 01/11/22 14:30
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	1/11/22 17:18	1/12/22 11:32		RCE	N/A	1

Lab ID: 2200433-02 **Collected By:** Client **Sampled:** 01/11/22 08:11 **Received:** 01/11/22 14:30
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	1/11/22 17:18	1/12/22 11:32		RCE	N/A	1

Certificate of Analysis

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

Laboratory No.: 2200432
Reported: 01/20/22
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2200432-01 **Collected By:** Client **Sampled:** 01/11/22 09:03 **Received:** 01/11/22 14:30
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	190	mg CaCO3/ L	2	SM 2320 B	01/13/22		APR	N/A	N/A	
Total Hardness as CaCO3	349	mg/l	4.56	CALCULATED	01/14/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	01/13/22		TML	N/A	N/A	
Silica as SiO2	21.6	mg/l	2.14	CALCULATED	01/13/22		HRG	N/A	N/A	
Conductivity	34200	umhos/cm	1000	SM 2510 B	01/13/22		ASD	N/A	N/A	
Total Metals										
Calcium	109	mg/l	1	EPA 200.7 Rev 4.4	01/14/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/13/22		HRG	N/A	0.3	PASS
Magnesium	18.6	mg/l	0.5	EPA 200.7 Rev 4.4	01/12/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/12/22		MPB	N/A	0.05	PASS
Silicon	10.1	mg/l	1.0	EPA 200.7 Rev 4.4	01/13/22		HRG	N/A	N/A	

Notes and Definitions

Pass Result less than EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2200432-01			
EPA 200.7 Rev 4.4	EPA 200.2 Rev 2.8	01/12/2022	HRG
EPA 200.8 Rev 5.4	EPA 200.8 Rev 5.4	01/12/2022	MPB
SM 4500-P F	SM 4500-P B	01/12/2022	TML

Certificate of Analysis

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

Laboratory No.: 2201391
Reported: 01/20/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2201391-01 **Collected By:** Client **Sampled:** 01/18/22 08:33 **Received:** 01/18/22 14:05
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	1/18/22 16:32	1/19/22 10:49		NAK	N/A	1

Lab ID: 2201391-02 **Collected By:** Client **Sampled:** 01/18/22 08:06 **Received:** 01/18/22 14:05
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	1/18/22 16:32	1/19/22 10:49		NAK	N/A	1

Lab ID: 2201391-03 **Collected By:** Client **Sampled:** 01/18/22 08:20 **Received:** 01/18/22 14:05
Sample Desc: 707 Main St & Cathererine St. Hydrant **PADEP Type:** D-Distribution
Notes: **PWSID:** 7220038 **Loc ID:** 707

	Result	Unit	Rep. Limit	Analysis Method	Incubated	Analyzed	Notes	Analyst	EPA MCL Min/Max	
Microbiology										
Total Coliform	Absent	/100ml	1.00	SM 9223 Colilert	1/18/22 16:32	1/19/22 10:49		NAK	N/A	1

Certificate of Analysis

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

Laboratory No.: 2201390
Reported: 01/27/22
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2201390-01 **Collected By:** Client **Sampled:** 01/18/22 08:35 **Received:** 01/18/22 14:05
Sample Desc: WWTP Lab Sink **Sample Type:** Grab
Notes:

	Result	Unit	Rep. Limit	Analysis Method	Analyzed	Notes	Analyst	EPA MCL Min	EPA MCL Max	Pass/ Fail
General Chemistry										
Alkalinity, Total to pH 4.5	205	mg CaCO3/ L	2	SM 2320 B	01/25/22		APR	N/A	N/A	
Total Hardness as CaCO3	357	mg/l	4.56	CALCULATED	01/20/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	01/20/22		SNF	N/A	N/A	
Silica as SiO2	20.6	mg/l	2.14	CALCULATED	01/19/22		HRG	N/A	N/A	
Conductivity	724	umhos/cm	1	SM 2510 B	01/19/22		ASD	N/A	N/A	
Total Metals										
Calcium	112	mg/l	1	EPA 200.7 Rev 4.4	01/20/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/19/22		HRG	N/A	0.3	PASS
Magnesium	19.2	mg/l	0.5	EPA 200.7 Rev 4.4	01/20/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/19/22		MPB	N/A	0.05	PASS
Silicon	9.6	mg/l	1.0	EPA 200.7 Rev 4.4	01/19/22		HRG	N/A	N/A	

Notes and Definitions

Pass Result less than EPA maximum contaminant level.
Fail Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2201390-01			
SM 4500-P F	SM 4500-P B	01/20/2022	TML

Certificate of Analysis

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

Laboratory No.: 2202430
Reported: 02/03/22
Lab Contact: Christina M Kistler

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

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

Lab ID: 2202430-01 **Collected By:** Client **Sampled:** 01/25/22 08:19 **Received:** 01/25/22 12:30
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	1/25/22 16:21	1/26/22 10:30		NAK	N/A	1

Lab ID: 2202430-02 **Collected By:** Client **Sampled:** 01/25/22 08:05 **Received:** 01/25/22 12:30
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	1/25/22 16:21	1/26/22 10:30		NAK	N/A	1

Certificate of Analysis

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

Laboratory No.: 2202429
Reported: 02/04/22
Lab Contact: Christina M Kistler

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

Project: DW-Weekly WWTP Water Lab Sink
7220038

Lab ID: 2202429-01 **Collected By:** client **Sampled:** 01/25/22 08:35 **Received:** 01/25/22 12:30
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	190	mg CaCO3/ L	2	SM 2320 B	01/31/22		APR	N/A	N/A	
Total Hardness as CaCO3	333	mg/l	4.56	CALCULATED	01/26/22		HRG	N/A	N/A	
Phosphorus as P, Total	0.05	mg/l	0.01	SM 4500-P F	02/02/22		SNF	N/A	N/A	
Silica as SiO2	22.3	mg/l	2.14	CALCULATED	01/26/22		HRG	N/A	N/A	
Conductivity	722	umhos/cm	1	SM 2510 B	01/26/22		ASD	N/A	N/A	
Total Metals										
Calcium	104	mg/l	1	EPA 200.7 Rev 4.4	01/26/22		HRG	N/A	N/A	
Iron	<0.02	mg/l	0.02	EPA 200.7 Rev 4.4	01/27/22		HRG	N/A	0.3	PASS
Magnesium	17.8	mg/l	0.5	EPA 200.7 Rev 4.4	01/26/22		HRG	N/A	N/A	
Manganese	<0.005	mg/l	0.005	EPA 200.8 Rev 5.4	01/26/22		MPB	N/A	0.05	PASS
Silicon	10.4	mg/l	1.0	EPA 200.7 Rev 4.4	01/26/22	Q-14	HRG	N/A	N/A	

Notes and Definitions

Q-14	The matrix spike(s) were outside acceptable limits of 70-130% recovery at 64.5%.
Pass	Result less than EPA maximum contaminant level.
Fail	Result greater than EPA maximum contaminant level.

Preparation Methods

Specific Method	Preparation Method	Prepared Date	Prepared By
2202429-01			
SM 4500-P F	SM 4500-P B	02/01/2022	SNF

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: Data Added Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:11:34 AM

HANNANJ successfully added data to DWELR on 02/08/22 at 11:07 AM. Form: SDWA1.

Form Type	User	LabID	PWSID	ContamID	Pre_ID	Loc_Epid	Sample Date
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_187	701	010422
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_188	703	010422
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_189	707	010422
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_190	704	011122
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_191	705	011122
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_192	701	011822
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_193	703	011822
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_194	707	011822
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_195	704	012522
SDWA1	HANNANJ	22604	7220038	1013	HANNANJ_196	705	012522

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:03:01 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 100 Well No 1.xls	HANNANJ	HANNANJ_1 through HANNANJ_31

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:04:16 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 102 Well No 2.xls	HANNANJ	HANNANJ_32 through HANNANJ_62

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:03:45 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 103 Well No 3.xls	HANNANJ	HANNANJ_63 through HANNANJ_93

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:05:10 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 104 Well No 4.xls	HANNANJ	HANNANJ_94 through HANNANJ_124

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:05:44 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 105 Well No 5.xls	HANNANJ	HANNANJ_125 through HANNANJ_155

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.

From: ra-padwis@state.pa.us
To: Webb, Kodi (RED); Hannan, James (RED)
Subject: File Uploaded Successfully by HANNANJ
Date: Tuesday, February 8, 2022 11:06:16 AM

HANNANJ uploaded a file successfully to DWELR.

File Name	User	Record ID Range
PA DEP SDWA-1 106 Well No 6.xls	HANNANJ	HANNANJ_156 through HANNANJ_186

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

APPENDIX 3
CUSTOMER SERVICE

MONTHLY CONSUMPTION, BILLING & TRANSACTION REPORTS

&

HOMESERVE REPORT

	NUMBER#	TOTAL ARREARS	TOTAL CURRENT	TOTAL BALANCE
ACTIVE ACCOUNTS:	2,702	254,900.70	660,896.60	915,797.30
DISCONNECTED ACCTS:	7	136.17	700.03	836.20
FINALED ACCOUNTS:	311	3,503.13CR		3,503.13CR
INACTIVE ACCOUNTS:	12,228	0.00		0.00
GRAND TOTALS	15,248	251,533.74	661,596.63	913,130.37

ACTIVE ACCOUNT RECONCILIATION	
NEW ACCOUNTS:	10
DISCONNECT--NO TRF:	7
DISCONNECT-TRANSFER:	0

CALCULATION SUMMARY

TOTAL CHARGES:	661,596.63
DEPOSIT RETURNS:	0.00
TOTAL CURRENT:	661,596.63

====== 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	2627	354,274.20	0.00	0.00	0.00	15270,100.0000		15270,100.0000
SR2 SURCHARGE 2	2677	85,164.38	0.00	0.00	0.00			
W WATER	5322	222,158.05	0.00	0.00	0.00	19111,100.0000		19111,100.0000
TOTALS		661,596.63	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	73,923.09
203-WTR MDT COMMERCIAL	687-145900	86,322.68
206-CUSTOMER CHARGE	687-145900	10,839.32
207-SERVICE CHG / METER	687-145900	42,699.81
210-WTR ROYAL	687-145900	8,322.00
220-WTR L SWT	687-145900	51.15
230-SURCHARGE WATER/SEWER	687-145900	0.00
231-SURCHARGE WATER/SEWER	687-145900	85,164.38
300-SWR MDT	687-145800	297,766.91
306-SW CUST CHARGE	687-145800	56,507.29
310-SWR ROYAL	687-145800	0.00
320-SWR L SWT	687-145800	0.00
R/C TOTALS		661,596.63

========== 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	2625	354,274.20	0.00	0.00	0.00	15,270,100.0000	801
SR	230	SR2	SURCHARGE WATER/SEWE	SR2	0	0.00	0.00	0.00	0.00		

========== R A T E T A B L E T O T A L S ==========
** (CONTINUED) **

CAT	CODE	TBL	DESCRIPTION	SCHED	NO#	TOTAL NET	FUEL-ADJ	TOTAL TAX	TAXABLE	CONSUMPTION	MLT.
SR2	231	SR2	SURCHARGE WATER/SEWE	SR2	2677	85,164.38	0.00	0.00	0.00		
W	200	C10	COMM 1" MTR	C10	35	4,466.94	0.00	0.00	0.00	404,200.0000	
W	200	C15	COMM 1 1/2" MTR	C15	9	5,434.27	0.00	0.00	0.00	567,800.0000	
W	200	C20	COMM 2" MTR	C20	21	15,359.36	0.00	0.00	0.00	1,613,800.0000	
W	200	C30	COMM 3" MTR	C30	5	7,002.51	0.00	0.00	0.00	745,300.0000	
W	200	C40	COMM 4" MTR	C40	2	284.50	0.00	0.00	0.00	23,500.0000	
W	200	C58	COMM 5/8" MTR	C58	8	437.72	0.00	0.00	0.00	30,300.0000	
W	200	C60	COMM 6" MTR	C60	14	49,057.58	0.00	0.00	0.00	5,265,100.0000	
W	200	C75	COMM 3/4" MTR	C75	2	827.34	0.00	0.00	0.00	85,500.0000	
W	200	C80	COMM 8" MTR	C80	4	6,157.00	0.00	0.00	0.00	647,400.0000	
W	200	COM	COMPOUND WATER N/C	COM	15	0.00	0.00	0.00	0.00		
W	200	LS8	LOWER SWAT 8" MTR	LS8	1	51.15	0.00	0.00	0.00	100.0000	
W	200	NCW	NO CHG	NCW	27	0.00	0.00	0.00	0.00	57,000.0000	
W	200	R10	RESID 1" MTR	R10	6	216.60	0.00	0.00	0.00	9,600.0000	
W	200	R58	RESID - 5/8'" MTR	R58	2549	121,149.93	0.00	0.00	0.00	7,668,200.0000	
W	200	R60	RESID 6" MTR	R60	1	2,771.07	0.00	0.00	0.00	296,400.0000	
W	200	R75	RESID 3/4" MTR	R75	3	489.83	0.00	0.00	0.00	46,600.0000	
W	200	RB6	ROYALTON BOR 6" MTR	RB6	2	8,322.00	0.00	0.00	0.00	1,650,300.0000	
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			661,596.63	0.00	0.00	0.00		

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

CODE	DESCRIPTION	BILLED CONSUMPTION	UNBILLED CONSUMPTION	TOTAL CONSUMPTION	DEMAND CONSUMPTION
W	WATER	19,111,100.0000	0.000	19,111,100.0000	

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

CODE	DESCRIPTION	NUMBER	AMOUNT
	DEPOSIT TOTALS	0	0.00

*** SERVICE CATEGORY TOTALS ***

SERV CATG	NUMBER BILLED	BILL CONS	TOTAL CONS	DEMAND CONS	TAX AMOUNT	BILL AMOUNT
S	2,627	15,270,100	15,270,100		$	354,274.20
SR	2,659	0	0			
SR2	2,677	0	0		$	85,164.38
W	5,322	19,111,100	19,111,100		$	222,158.05

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

==== REVENUE CODE TOTALS ====

REVENUE CODE:	--CURRENT--	+1 MONTHS	+2 MONTHS	+3 MONTHS	+4 MONTHS	--BALANCE--
081-NSF CK FEE	20.00	0.00	0.00	0.00	0.00	20.00
200-WTR MDT	75167.58	14731.45	7786.32	3682.64	14850.58	116218.57
201-WATER TURN ON	0.00	62.36	69.74	42.85	69.92	244.87
203-WTR MDT COMMERCIAL	86254.28	9051.36	90.74	42.10	251.13	95689.61
206-CUSTOMER CHARGE	10563.57	2171.12	965.08	530.26	3380.37	17610.40
207-SERVICE CHG / METER	41540.59	8521.05	3736.44	2053.00	13135.82	68986.90
210-WTR ROYAL	8322.00	0.00	0.00	0.00	0.00	8322.00
220-WTR L SWT	51.15	0.00	0.00	0.00	0.00	51.15
230-SURCHARGE WATER/SEWER	16.28	30.20	32.91	32.91	2127.16	2239.46
231-SURCHARGE WATER/SEWER	80462.92	9050.40	1843.77	881.15	1768.19	94006.43
275-WTR PEN	2648.96	344.61	333.93	189.65	773.43	4290.58
300-SWR MDT	294015.94	53408.71	16676.94	7749.95	28683.42	400534.96
306-SW CUST CHARGE	55080.44	11413.20	5153.72	2913.28	28684.30	103244.94
375-SWR PEN	4767.51	563.62	545.73	310.53	1799.92	7987.31
996-UNAPPLIED	11529.65CR	0.00	0.00	0.00	0.00	11529.65CR
999-REFUND	16726.48CR	0.00	0.00	0.00	0.00	16726.48CR
TOTALS	630655.09	109348.08	37235.32	18428.32	95524.24	891191.05

TOTAL REVENUE CODES: 891,191.05
TOTAL ACCOUNT BALANCE: 891,191.05
DIFFERENCE: 0.00

PERIOD: 1/01/2022 THRU 1/31/2022
ZONE: * - All Zones
REVENUE CODE: All
ADJUSTMENT CODES:

DAILY DISTRIBUTION

TYPE	DAY	COUNT	AMOUNT
ADJUSTMENT	04	2	27.75CR
	26	4	1,729.70CR
	27	145	0.00
	28	2	20.00
		ADJUSTMENT TOTAL	1,737.45CR
BILL	04	2	0.00
	05	1	62.85
	10	2	15.70CR
	11	1	31.44
	25	1	49.45
	26	1	43.26
	27	2,729	662,007.79
	28	4	546.02CR
	31	2	36.44CR
		BILL TOTAL	661,596.63
MEMO	21	80	0.00
	25	34	0.00
		MEMO TOTAL	0.00
PAYMENT	03	26	6,441.72CR
	04	42	7,705.50CR
	05	27	5,298.43CR
	06	63	9,639.66CR
	07	43	7,700.98CR
	10	248	34,038.24CR
	11	73	14,002.68CR
	12	162	36,544.94CR
	13	34	5,620.86CR
	14	203	30,480.49CR
	18	138	22,956.55CR
	19	280	144,234.34CR
	20	1	293.89CR
	21	267	184,704.42CR
	25	107	33,188.56CR
	26	47	23,223.16CR
	27	89	14,873.58CR
	28	32	8,452.40CR
	31	17	3,890.52CR
		PAYMENT TOTAL	593,290.92CR
DRAFT	18	319	46,239.08CR
	19	27	21,130.67CR
TYPE	DAY	COUNT	AMOUNT
		DRAFT TOTAL	67,369.75CR
REVERSE-PAY	28	1	231.20
		REVERSE PAY TOTAL	231.20
		GRAND TOTAL FOR PERIOD	570.29CR

- Other Revenue

Total Collected = $660,660.67

IDLE METER REPORT

**** REPORT TOTALS ****

Book	Services	Addresses
02 - BOOK 02	2	1
04 - BOOK 04	2	0
08 - BOOK 08	6	4
09 - BOOK 09	1	0
12 - BOOK 12	5	3
13 - BOOK 13	1	1
15 - BOOK 15	2	0
16 - BOOK 16	2	0
18 - BOOK 18	2	0
20 - BOOK 20	1	1
21 - BOOK 21	2	1
28 - BOOK 28	1	1
29 - BOOK 29	1	1
32 - BOOK 32	1	1
Grand Totals	29	14

SERVICE ORDER STATISTICS REPORT

ACTION		ISSUED THIS PERIOD ISSUED	ISSUED THIS PERIOD COMPLETED	ISSUED THIS PERIOD VOIDED	ISSUED THIS PERIOD OUTSTANDING	PRIOR ORDERS COMPLETED	PRIOR ORDERS VOIDED	PRIOR ORDERS OUTSTANDING	TOTAL COMPLETED	TOTAL OUTSTANDING
C	CONNECT	1	1	0	0	127	4	0	128	0
D	DISCONNECT	2	2	0	0	43	3	0	45	0
F	CUTOFF	0	0	0	0	3	3	0	3	0
I	METER INFO	16	14	2	0	2,965	74	0	2,979	0
M	METER CHANGE	4	4	0	0	591	6	0	595	0
O	OCC CHANGE	7	7	0	0	1,225	2	0	1,232	0
R	REINSTATE	0	0	0	0	2	2	0	2	0
S	SERV CHANGE	1	1	0	0	32	0	0	33	0
X	MISC	7	7	0	0	752	22	0	759	0
	** GRAND TOTALS **	38	36	2	0	5,740	116	0	5,776	0

JANUARY 2022 CUSTOMER SERVICE CALLS

SUEZ MIDDLETOWN

Date	How Contact Was Received			Customer Service Inquiries														Field Service Requests					Field Request Info
	Call direct to Middletown CS	Customer Corrspondance (Letters/Emails)	TOTALS	Calls for Other Ops	Calls from City / Other Org	AppleTree Hold Call	General Acct. Info	Copy Of Bill	Correct. Bills	Bill Inquiry	Rates	Payment	Collection Letter	New Account	Finals	Meter Reading/Re-Reads	Service Complaints	C.S. Thank Yous	Sewer Back up or SSO	Water Leaks	Broke, Froze, Leaking Meter	No Water/Low Pressure	Water Quality	
Monday, January 3, 2022	36	1	37							5		26	2	2	1									
Tuesday, January 4, 2022	34	2	36	3			2			14		12	3											
Wednesday, January 5, 2022	42	6	48	2				5		11		21	3											
Thursday, January 6, 2022	47	6	53	1				11		14		20	1											
Friday, January 7, 2022	55	6	61	1				6		9		39												
Monday, January 10, 2022	51	5	56	3				8		13		27												
Tuesday, January 11, 2022	50	7	57	4			1	7		9		29												
Wednesday, January 12, 2022	36	2	38	1				4		7		22		1	1									
Thursday, January 13, 2022	49	3	52	2				4		14		29												
Friday, January 14, 2022	73	2	75	1			1	3		16		52												
Tuesday, January 18, 2022	98	3	101	1			1	4		15		77												
Wednesday, January 19, 2022	44	3	47	2			1			8		33												
Thursday, January 20, 2022	8	2	10					2		5		1												
Friday, January 21, 2022	79	3	82	2				7		10		55		2	3									
Monday, January 24, 2022	16	2	18							16														
Tuesday, January 25, 2022	55	2	57	3				3		13		36												
Wednesday, January 26, 2022	56	3	59	2			1	6		14		27		3	3									
Thursday, January 27, 2022	37	5	42	2			2	4		10		15		2	2									
Friday, January 28, 2022	37	4	41	3				2		3		24		2	3									
Monday, January 31, 2022	24	11	35	1				1		4		17			1									
GRAND TOTALS	937	78	1005	34	0	0	9	77	0	210	0	662	9	12	14	0	0	0	0	0	0	0	0	

METER NO#	ACCOUNT NO#	NAME	ADDRESS	MXU TYPE	MXU ID
W 70112613A	INVENTORY				1470321453 Duplica
W 70112613	INVENTORY				1470321452 Duplica
W 70323396	INVENTORY				1471966926 Duplica
W 70323396A	INVENTORY				1471966927 Duplica
W 70323397A	INVENTORY				1470157603 Duplica
W 70323397	INVENTORY				1470157602 Duplica
W 69632184	INVENTORY				1542361382
W 35670264	INVENTORY				1440131648 Duplica
W 35670270	INVENTORY				1542411182
W 35670271	INVENTORY				1440096730 Duplica
W 35670267	INVENTORY				1551255668
W 36512912	INVENTORY				1460079314 Duplica
W 36512915	INVENTORY				1568109238
W 36512901	INVENTORY				1440121830 Duplica
W 36512922	INVENTORY				1460197074 Duplica
W 37016026	INVENTORY				1470153476
W 27016014	INVENTORY				1548612198
W 85441897	INVENTORY				1563419820
W 53388599	INVENTORY				1551754996
W 10871871	INVENTORY				1568031178

*** TOTAL METERS IN SERVICE 2723
*** TOTAL METERS IN INVENTORY 678

Partner Reporting Dashboard

Back to Partner Select Page

SUEZ (Middletown)

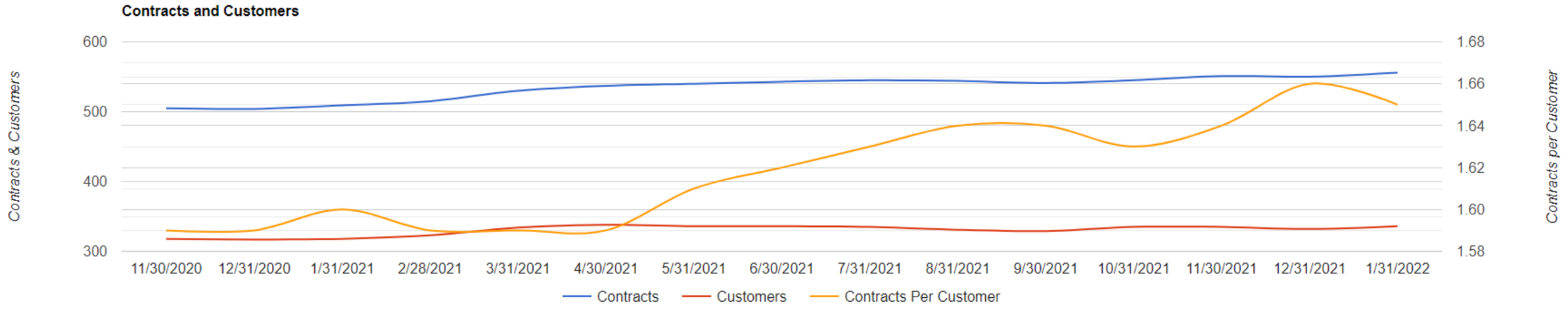
Date Start

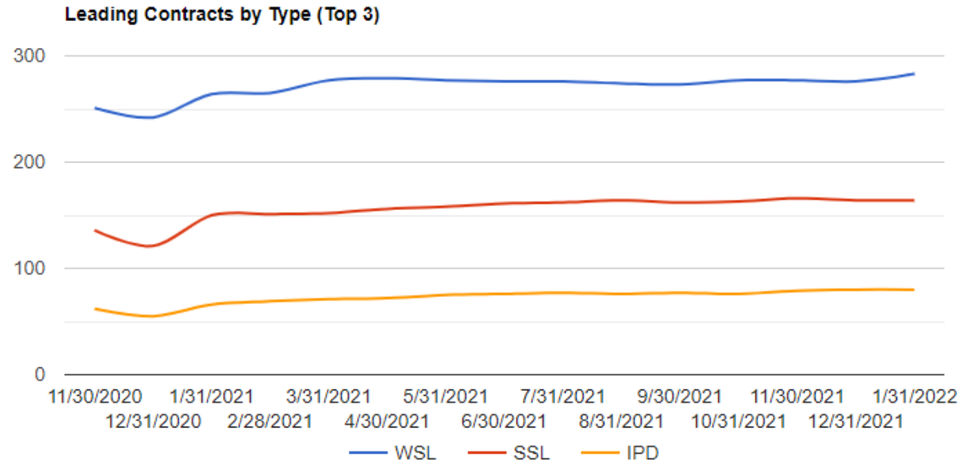
2020-11-30

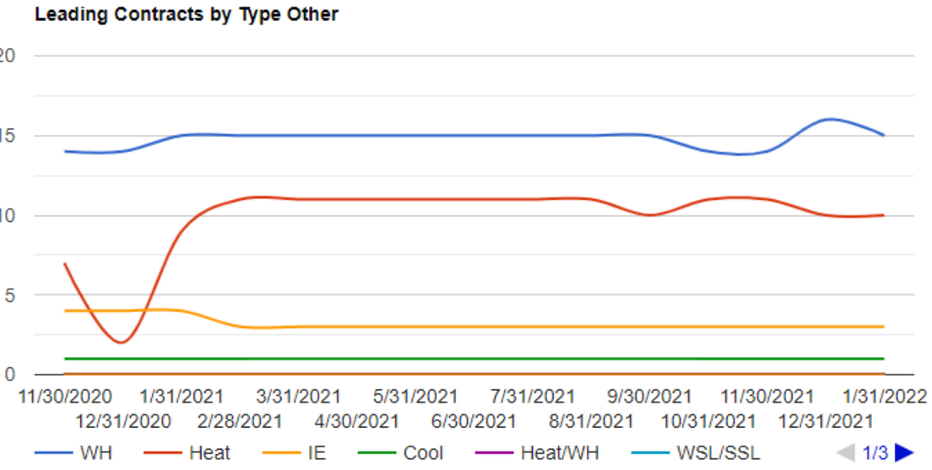
Date End

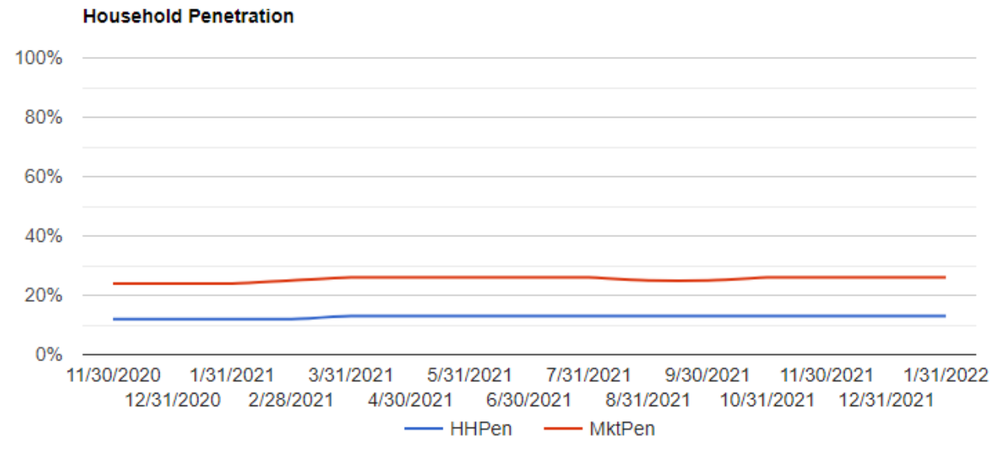
2022-02-28

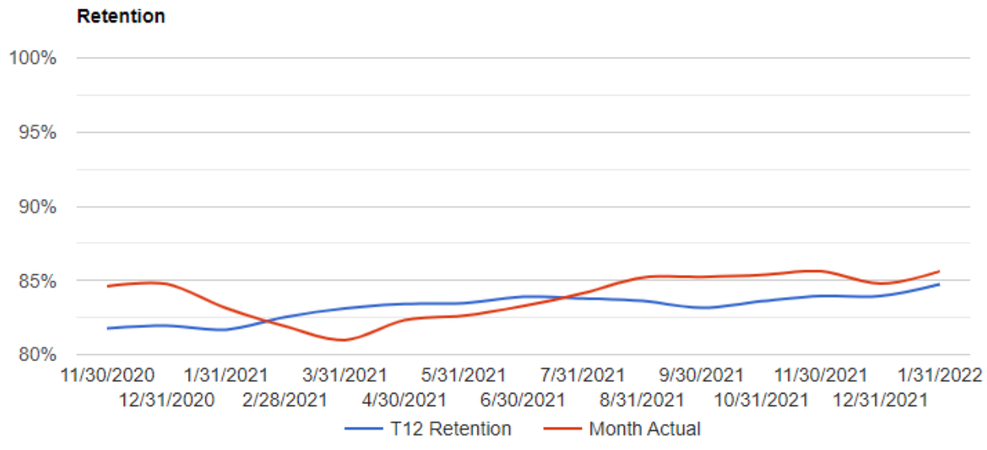
Filter



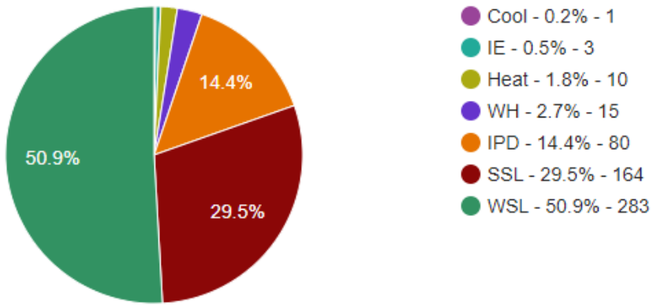

Leading Contracts by Type (Top 3)
300
200
100
0
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
12/31/2020
2/28/2021
4/30/2021
6/30/2021
8/31/2021
10/31/2021
12/31/2021
WSL
SSL
IPD


Leading Contracts by Type Other
20
15
10
5
0
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
12/31/2020
2/28/2021
4/30/2021
6/30/2021
8/31/2021
10/31/2021
12/31/2021
WH
Heat
IE
Cool
Heat/WH
WSL/SSL
1/3


Household Penetration
100%
80%
60%
40%
20%
0%
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
12/31/2020
2/28/2021
4/30/2021
6/30/2021
8/31/2021
10/31/2021
12/31/2021
HHPen
MktPen

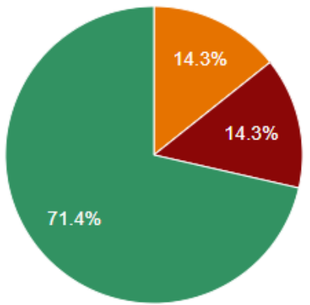

Retention
100%
95%
90%
85%
80%
11/30/2020
1/31/2021
3/31/2021
5/31/2021
7/31/2021
9/30/2021
11/30/2021
1/31/2022
12/31/2020
2/28/2021
4/30/2021
6/30/2021
8/31/2021
10/31/2021
12/31/2021
T12 Retention
Month Actual

Contracts by Product Type



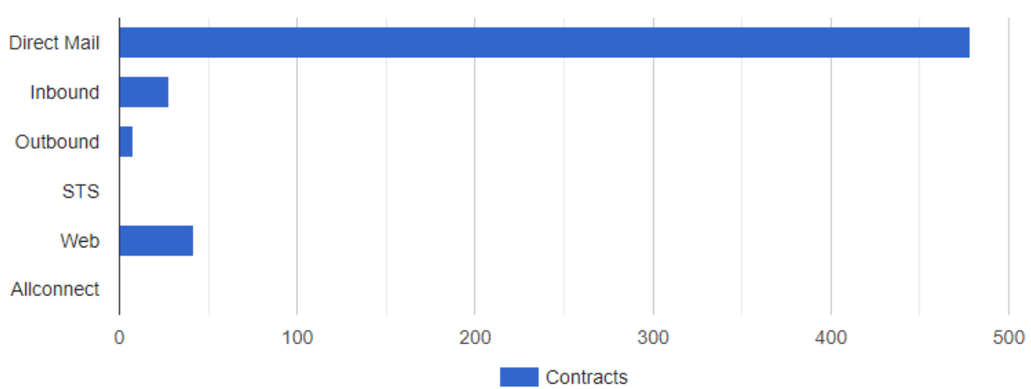
- Cool - 0.2% - 1
- IE - 0.5% - 3
- Heat - 1.8% - 10
- WH - 2.7% - 15
- IPD - 14.4% - 80
- SSL - 29.5% - 164
- WSL - 50.9% - 283

Contracts by Type - Last 30 Days

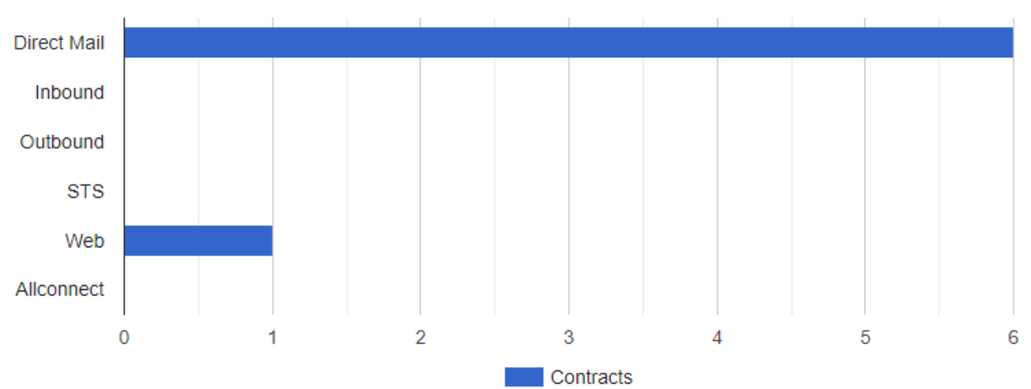


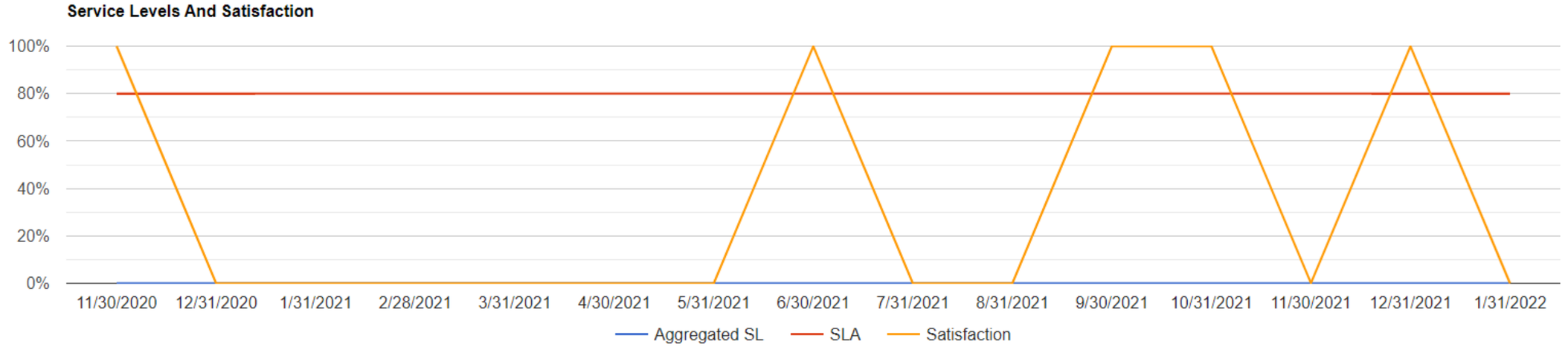
- WH - 14.3% - 1
- SSL - 14.3% - 1
- WSL - 71.4% - 5

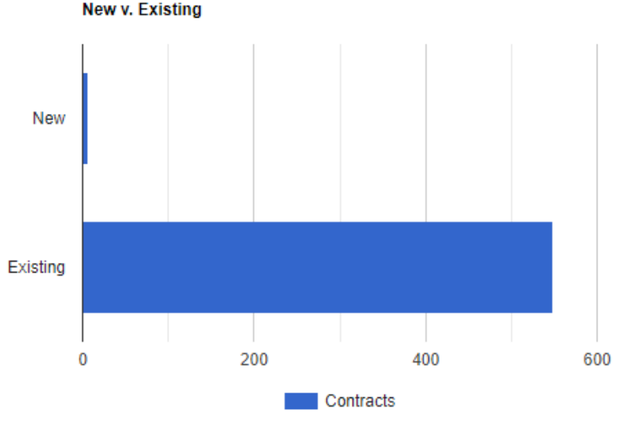
Contracts by Channel

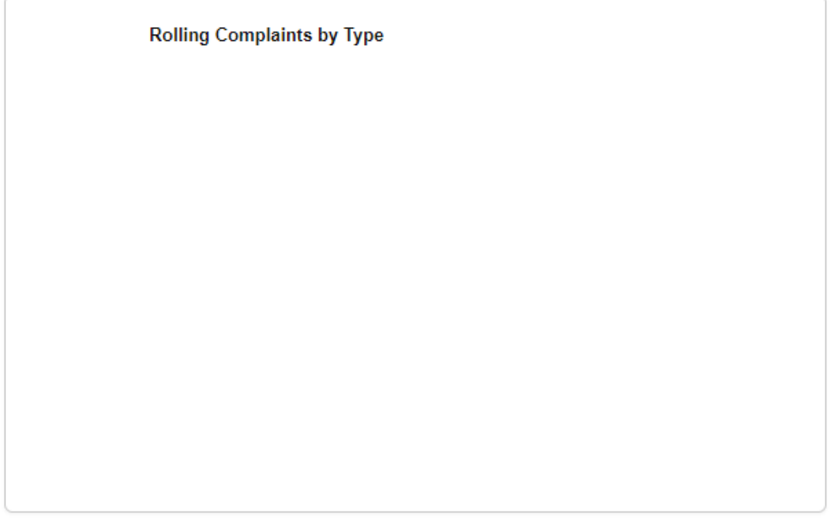


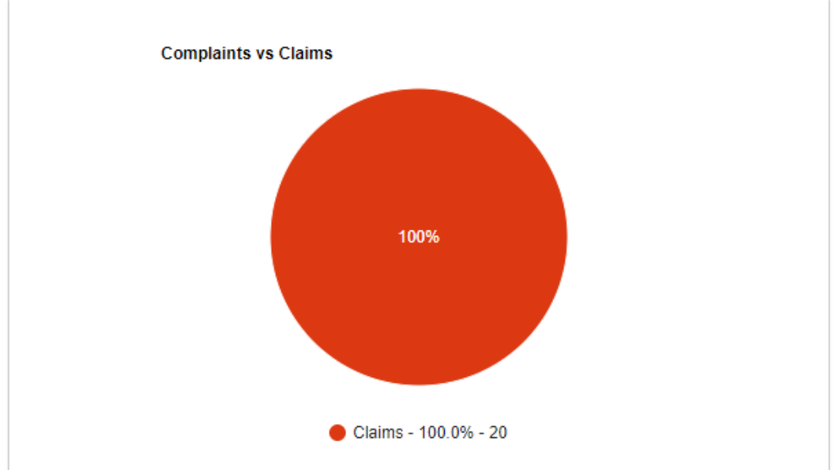
Contracts by Channel - Last 30 Days

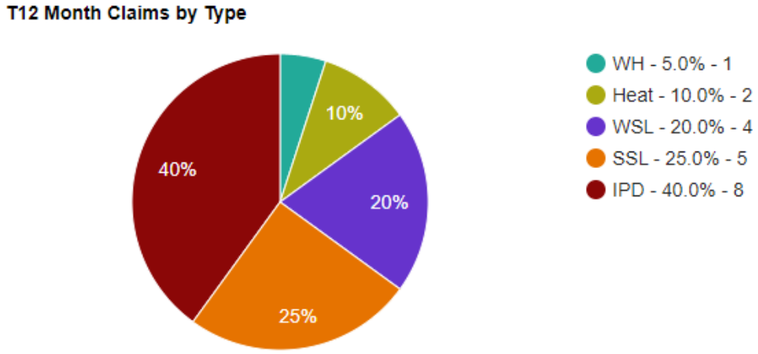


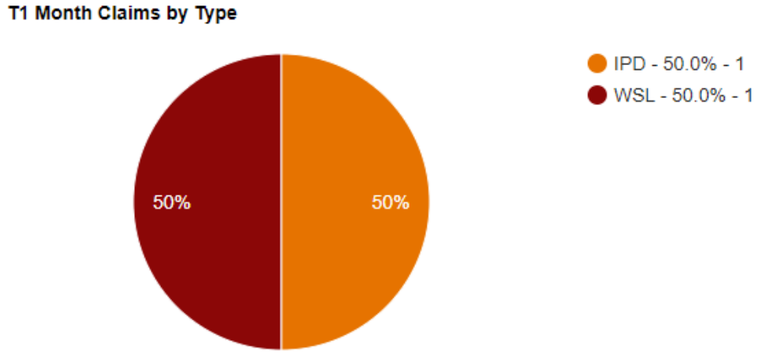

Service Levels And Satisfaction
100%
80%
60%
40%
20%
0%
11/30/2020
12/31/2020
1/31/2021
2/28/2021
3/31/2021
4/30/2021
5/31/2021
6/30/2021
7/31/2021
8/31/2021
9/30/2021
10/31/2021
11/30/2021
12/31/2021
1/31/2022
Aggregated SL
SLA
Satisfaction

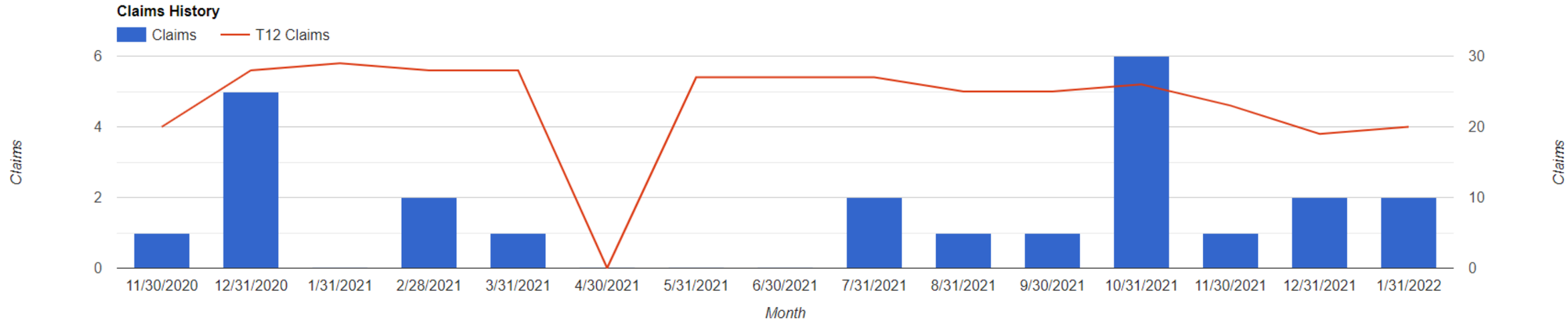

New v. Existing
New
Existing
0
200
400
600
Contracts


Rolling Complaints by Type


Complaints vs Claims
100%
Claims - 100.0% - 20


T12 Month Claims by Type
10%
20%
25%
40%
WH - 5.0% - 1
Heat - 10.0% - 2
WSL - 20.0% - 4
SSL - 25.0% - 5
IPD - 40.0% - 8


T1 Month Claims by Type
50%
50%
IPD - 50.0% - 1
WSL - 50.0% - 1


Claims History
Claims
T12 Claims
6
4
2
0
30
20
10
0
Claims
Claims
11/30/2020
12/31/2020
1/31/2021
2/28/2021
3/31/2021
4/30/2021
5/31/2021
6/30/2021
7/31/2021
8/31/2021
9/30/2021
10/31/2021
11/30/2021
12/31/2021
1/31/2022
Month

APPENDIX 4

WATER MAIN LEAK LOGS

SUEZ
WATER LEAK REPAIR LOG

WO NUMBER: _____

Type of Leak: _____Service Line __X__Main _____Other

Population Affected: Beatric Ave Frey to maple

Address of leak: Beatric & Laurel Ave

Date and time department notified of leak: 1 / 15 / 22 11:00 (am) / pm

Date / Time of arrival on scene: 1 / 15 / 22 ~~12:00~~ 1200 am / (pm)

Time pipe leak is exposed: 2:30 am / (pm)

Time repair started: ~~2:30~~ 3:30 am / (pm)

Time repair finished: 3:45 am / (pm)

Method used for repair: ~~Fack Fore~~ 2 6" romax clamps

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 RO _____ **Date** _____

WORK ORDER #: _____

Line Break or Leak Work Order

Date of Break: 1-15-22

Location Segment number: Beatric & Laurel AVC

Pipe Material: Cast

Pipe Size: 6"

Pipe Age: Dont Know

Pipe Depth: _____

Estimated Quantity of water loss: _____

DESCRIPTION OF PROBLEM: _____

WORK PERFORMED: Dug up And cut a section of 6" water main out (EK Services)

Date	Day of Week (Circle)	Employee 1	Daily Hours	Employee 2	Daily Hours	Employee 3	Daily Hours
1-15-22	M Tu W Th F	RR	5½	CK			
	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)

See back for Cl^2 Disinfection Formula

Formula For Disinfecting Water Mains

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

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

TRI-STAR INC.

P.O. BOX 255
300 VINE STREET
MIDDLETOWN, PA 17057

Voice: (717) 944-1234
Fax:

PACKING SLIP

Invoice Number: 37226
Invoice Date: Feb 8, 2022
Page: 1

Sales Order Number:

Bill To:
SUEZ WATER/ MIDDLETOWN P.O. BOX 1069 PARAMUS, NJ 07653

Ship to:
ATTN: CHRIS HANNAN 453 S. LAWRENCE STREET MIDDLETOWN, PA 17057 USA

Customer ID	Customer PO	Payment Terms	
MTWN	VERBAL	Net 30 Days	
Sales Rep ID	**Shipping Method**	**Ship Date**	**Due Date**
SS			3/10/22

Order Qty	Item	Description	Shipped Prior	This Shipment	Corrections
1.00	PRV	FOR THE QUARTERLY PREVENTIVE SERVICE VISIT FOR Q1 ON 01/04 & 01/21/22. COPY OF REPORTS ENCLOSED. PREVENTIVE SERVICE THANK YOU FOR USING TRI-STAR!		1.00	

Tri-Star Inc.

Instrumentation - Control - SCADA

INVOICE NO:	37226	**ORDER NO:**	VERBAL	**ES:**	**RS:** 12
CONTRACT NO:		**JOB NO:**		☐ COMP. ☐ INC.	
CUSTOMER:	SUEZ/MIDDLETOWN WATER & SEWER			**Mileage:**	60
REPRESENTATIVE:	STEVE SUMMY				
DATE:	Q1- 01/04 & 01/21/22				

DESCRIPTION: **TITLE:** **QUARTERLY PREVENTIVE SERVICE**

REPORT FOR THE FOLLOWING QUARTERLY PREVENTIVE & CALIBRATION SERVICE ON EQUIPMENT LISTED ON ATTACHED "LIST OF COVERED EQUIPMENT" CHECKLISTS. ALL HAVE BEEN INSPECTED & CALIBRATED AS REQUIRED. SEE BELOW FOR NOTES IN REFERENCE TO NOTE #'S ON CHECKLIST.

NOTE #: COMMENTS:

#1- ZEROED METER.
#2-SERVICE DUE NEXT IN APRIL.
#3- WELL IS TEMPORARILY OUT OF SERVICE.
#4- INACCURATE READING WILL OCCUR WHEN FLOW RATE GOES ABOVE "V" NOTCH'S. CUSTOMER IS IN PROGRESS OF LOOKING INTO A REPLACEMENT WEIR.

NOTE: DESICCANT PACK WAS RE-CHARGED FOR WELL 5. GAVE TO CHRIS TO INSTALL.

DUE BY DATE: 04/30/22

CALIBRATION UNITS USED: TRANSMATION M/N 1045 S/N B75174, `TPI 635 MANOMETER S/N 1271024000, STICK RULER & ISCO FLOWTABLE BOOK

TRI-STAR, INC.

REV. 10 10/21

MIDDLETOWN WATER AND SEWER
LIST OF COVERED EQUIPMENT
DATE - JANUARY Q1 VISIT
QUARTERLY

LEGEND: X = CHECKED OK
= REF. SERVICE REPORT

CHECKED BY STEVE SUMMY
SERVICE TECH
AUDIT DAWN BAUMBACH
DATE -02/04/22

NOTE #	ISO	CO. #	LOCATION	MFG.	SERIAL NO.	MODEL NO.	RANGE	MFG./CAL. PROC. #	ACCURACY
			WELL # 1						
#1			FLOW	TOSHIBA	19620A525	LF620F/GF6300	0-1500 GPM		
X			LEVEL- 215' (93.11PSI)	ENDRESS & HAUSER	S600B115128	PMC51	SCALER 215'		
X			RTU PANEL						
			WELL # 2						
#1			FLOW	ROSEMOUNT	1638038	1151 SMART	0-350 GPM (0-72.38")		
X			LEVEL- 308' (133.4 PSI)	ENDRESS & HAUSER	92000615020	PMC41-RC11P6A21N1	SCALER 346'		
X			RTU PANEL						
			WELL #1&2 CHEM BLDG						
#2			CL2 ANALYZER	HACH	182070018902	CL17			
			WELL # 3						
#1			FLOW	TOSHIBA	17820A358	LF620F/GF6300	0-100 GPM		
X			LEVEL- 304' (131.7PSI)	ENDRESS & HAUSER	92000515020	PMC41-RC11P6A21N1	SCALER 346'		
X			RTU PANEL						
			WELL # 4						
#3			FLOW	TOSHIBA	17620A177	LF620/GF630	0-200 GPM 4" MAG		
#3			LEVEL- 400' (173.2 PSI)	ROSEMOUNT	0326Y10	2088	SCALER 400'		
#3			RTU PANEL						
			TURNPIKE TANK						
#3			LEVEL-0-48 FT (20.7 PSI)	ENDRESS & HAUSER					
			WELL # 5						
#1			FLOW	TOSHIBA	17620A704	LF620F/GF6300	0-300 GPM		
X			LEVEL- 290'	DREXELBROOK	54378	408-6332-1	SCALER 300'		
X			RTU PANEL						

TRI-STAR, INC.

REV. 10 10/21

MIDDLETOWN WATER AND SEWER
LIST OF COVERED EQUIPMENT
DATE JANUARY Q1 VISIT
QUARTERLY

LEGEND: X = CHECKED OK
= REF. SERVICE REPORT

CHECKED BY STEVE SUMMY

NOTE #	ISO	CO. #	LOCATION	MFG.	SERIAL NO.	MODEL NO.	RANGE	MFG./CAL. PROC. #	ACCURACY
			WELL # 6						
X			FLOW	PRECISION DGTL	2006-0336315	PD6000-6R0	0-1500 GPM (4/20)		
X			LEVEL- 220'	SIGMA			0-220'		
X			LEVEL INDICATOR	PRECISION DGTL	0912-0002082	PD6000-6R3	0-220' OUTPUT 0-220'		
			WELL #6 TREATMENT						
X			FLOW (WELL)	SENSUS	1104A-S-66123D	ACTPAK	0-1600 GPM		
#1			FLOW (FINISHED WATER)	TOSHIBA	20620A389	LF620F/GF6300	0-1000 GPM		
X			SUMP LEVEL	DREXELBROOK	28223	408-8200	SCALER 480"		
X			RTU PANEL						
			BOOSTER PUMP STA.						
X			FLOW	ROSEMOUNT	1638037	1151 SMART	0-400 GPM (0-27.86")		
X			RTU PANEL						
			HIGH ST. TANK						
X			LEVEL	ROSEMOUNT		1151			
X			RTU PANEL						
			UNION STAND PIPE						
X			LEVEL	ROSEMOUNT	1655785	1151 SMART	5'-105' (4/20)		
X			RTU PANEL						
X			**WWTP OFFICE**	MAIN SCADA					

TRI-STAR INC.
300 VINE STREET
MIDDLETOWN, PA 17057

CERTIFICATE OF CALIBRATION

TO SUEZ-MIDDLETOWN WATER
453 S. LAWRENCE STREET
MIDDLETOWN, PA 1705

Reference to TRI-STAR Job number SERVICE REPORT DATED 01/04 & 01/21/22 FOR THE QUARTERLY PREVENTIVE SERVICE VISIT AT THE WATER PLANT SITES

TRI-STAR's calibration instrument M/N OMEGA CL27 S/N T.312015
THERMO ELECTRIC M/N 311800001 S/N 60110A-3-1, TPI M/N 635 S/N 1271024000

is traceable to the National Institute Standards Technology

Certified by PRECISE TECHNICAL SOLUTIONS, LLC

Report No. 188831, 188807 Date 02/17/21

Code Ref: NONE

Next Certificate of Calibration due: APRIL 30, 2022

Approved for TRI-STAR Inc.

by Steve Summy

title SERVICE TECH

date February 8, 2022

Steve Summy

Authorized Signature

PRECISE
TECHNICAL SOLUTIONS LLC
A woman owned business!

Calibration Certificate

7839 Allentown Blvd., Suite 300
Harrisburg, PA 17112
Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Manufacturer:	THERMO ELECTRIC
Model Number:	311800001
Serial Number:	60110A3-1
Description:	THERMOCOUPLE CALIBRATOR
Department:	MAIN (1634)
Location:	N/A
Temperature:	69.8 °F
Humidity:	22 %
Accuracy:	SEE CALIBRATION DATA SHEET

Procedure:	QI-114
Calibration Location:	IN HOUSE
Received Condition:	IN TOLERANCE
Returned Condition:	IN TOLERANCE
Interval:	12 MONTHS
Date Received:	15-Feb-21
Date Calibrated:	17-Feb-21
Date Due:	17-Feb-22
Technician:	MSKOCZYNSKI

This instrument has been calibrated in accordance with the Precise Technical Solution's quality system. The standards used in this testing are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). This report may not be reproduced, except in full, without the written approval of Precise Technical Solutions LLC.

Remarks

None.

Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-119	FLUKE	5520A	201600007418	31-Jan-22
PTS-122	HEWLETT PACKARD	3458A	1-7243773776-1	31-Jan-22

2/26/21
D. Beaudoin

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Harrisburg, PA 17112
Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate

Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Thermocouple input 1 K-type	50.000	°C	49.500	50.500	49.9	P	49.9	P	-0.100
	100.000	°C	99.500	100.500	100.1	P	100.1	P	0.100
	150.000	°C	149.500	150.500	150.2	P	150.2	P	0.200
	200.000	°C	199.500	200.500	200.3	P	200.3	P	0.300
Thermocouple input 2 K-type	50.000	°C	49.500	50.500	49.8	P	49.8	P	-0.200
	100.000	°C	99.500	100.500	99.9	P	99.9	P	-0.100
	150.000	°C	149.500	150.500	149.7	P	149.7	P	-0.300
	200.000	°C	199.500	200.500	199.6	P	199.6	P	-0.400
D.C Voltage input	2.000	V	1.500	2.500	2.00	P	2.00	P	0.000
	4.000	V	3.500	4.500	4.00	P	4.00	P	0.000
	6.000	V	5.500	6.500	6.00	P	6.00	P	0.000
	8.000	V	7.500	8.500	8.00	P	8.00	P	0.000
	10.000	V	9.500	10.500	10.00	P	10.00	P	0.000
D.C mA input	10.000	mA	9.200	10.800	10.02	P	10.02	P	0.020
	20.000	mA	19.200	20.800	20.03	P	20.03	P	0.030
	30.000	mA	29.200	30.800	30.04	P	30.04	P	0.040
	40.000	mA	39.200	40.800	40.06	P	40.06	P	0.060
	50.000	mA	49.200	50.800	50.07	P	50.07	P	0.070
3 Wire RTD input	10.000	°C	9.600	10.400	10.10	P	10.10	P	0.100
	50.000	°C	49.600	50.400	50.10	P	50.10	P	0.100
	100.000	°C	99.600	100.400	100.10	P	100.10	P	0.100
4 Wire RTD input	10.000	°C	9.600	10.400	10.30	P	10.30	P	0.300
	50.000	°C	49.600	50.400	50.40	P	50.40	P	0.400
	100.000	°C	99.600	100.400	100.40	P	100.40	P	0.400
RTD output module 0°C@100Ohms	100.000	Ohms	99.900	100.100	99.97	P	99.97	P	-0.030
51.565°C @ 120Ohms	120.000	Ohms	119.900	120.100	120.04	P	120.04	P	0.040
103.943°C @ 140Ohms	140.000	Ohms	139.900	140.100	139.96	P	139.96	P	-0.040

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Calibration Certificate

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Harrisburg, PA 17112
Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Approved By:

Matthew Skoczynski
LABORATORY MANAGER

17-Feb-21 2:54 PM

End of Report

PRECISE TECHNICAL SOLUTIONS LLC
A woman owned business!

Calibration Certificate

7839 Allentown Blvd., Suite 300
Harrisburg, PA 17112
Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate No.: 188807

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 1271024000-1634

Manufacturer:	TPI
Model Number:	635
Serial Number:	1271024000
Description:	MANOMETER
Department:	MAIN (1634)
Location:	N/A
Temperature:	69.8 °F
Humidity:	22 %
Accuracy:	SEE CALIBRATION DATA SHEET

Procedure:	QI-101
Calibration Location:	IN HOUSE
Received Condition:	IN TOLERANCE
Returned Condition:	IN TOLERANCE
Interval:	12 MONTHS
Date Received:	15-Feb-21
Date Calibrated:	17-Feb-21
Date Due:	17-Feb-22
Technician:	MSKOCZYNSKI

Remarks

None.

Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-412	FLUKE	6270A	165199	31-Oct-21

2/26/21
M. Baumbach

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Calibration Certificate

7839 Allentown Blvd., Suite 300
Harrisburg, PA 17112
Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate No.: 188807

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 1271024000-1634

Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Pressure	5.000	inAq	4.900	5.100	5.01	P	5.01	P	0.010
	10.000	inAq	9.900	10.100	10.03	P	10.03	P	0.030
	15.000	inAq	14.900	15.100	15.03	P	15.03	P	0.030
	20.000	inAq	19.900	20.100	20.00	P	20.00	P	0.000

Approved By:

Matthew Skoczynski
LABORATORY MANAGER

17-Feb-21 10:52 AM

End of Report

TECH: [signature]

DATE: 1/13/22

AUDIT: [signature] TESTED AGAINST

DATE: 1/13/22 SHOP STANDARD

THERMOELECTRIC ULTRAMITE

MONTHLY TEST METER CALIBRATION

A: NEWPORT HHCT-2 S/N T.141388 SEE REVERSE SIDE OF SHEET

B: TRANSMATION 1045 S/N B75174 SEE REVERSE SIDE OF SHEET

C: OMEGA CL27 S/N T.312015 SEE REVERSE SIDE OF SHEET

D: PLC TOOLS SIM-ALP2 S/N 35333 SEE REVERSE SIDE OF SHEET

METER	RANGE	TP #1	DEV.	TP #2	DEV.	TP #3	DEV.	TP #4	DEV.	TP #5	DEV.	CHECKED BY	COMMENTS
A	J	0	0	50	0	100	0	300	0	600	0	STEVE SUMMAY	WITHIN TOLERANCES
A	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
A	T	-100	0	-50	0	0	0	50	0	100	0	"	"
B	MV IN	0	0	3	0	10	0	20	0	30	0	"	"
B	50V IN	0	0	10	0	20	0	30	0	40	0	"	"
B	10V IN	0	0	1	0	3	0	5	0	7	0	"	"
B	MV OUT	0	0	3	0	10	0	20	0	30	0	"	"
B	V OUT	0	0	1	0	3	0	5	0	7	0	"	"
C	RTD	0	0	50	0	100	0	150	0	200	0	"	"
C	RTD	250	0	300	0	350	0	400	0	450	0	"	"
C	J	0	0	50	0	100	0	300	0	600	0	"	"
C	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
C	S	100	0	1000	0	2450	0	2700	0	3050	0	"	"
C	T	-100	0	-50	0	0	0	50	0	100	0	"	"
D	V OUT	0	0	1	0	3	0	5	0	7	0	"	"
D	MA OUT	4	0	8	0	12	0	16	0	20	0	"	"

TRI-STAR, INC.

REV 10 10/21

MIDDLETOWN WATER AND SEWER
LIST OF COVERED EQUIPMENT
DATE JANUARY Q1 VISIT
QUARTERLY

LEGEND: X = CHECKED OK
= REF. SERVICE REPORT

CHECKED BY STEVE SUMMY

NOTE #	ISO	CO. #	LOCATION	MFG.	SERIAL NO.	MODEL NO.	RANGE	MFG./CAL. PROC. #	ACCURACY
			WWTP						
X			PLANT EFFLUENT	ENDRESS & HAUSER	L90068150E6	FMU90	1585.2 GPM, 90° V-NOTCH WEIR		
X			EFFLUENT RECORDER	HONEYWELL	0419Y463013300001	DR45A2	0-3750 GPM		
#4			PLANT INFLUENT	ENDRESS & HAUSER	D8005C150E6	FMU90	12382 GPM, CUSTOMV-NOTCH WEIR		

TRI-STAR INC.
300 VINE STREET
MIDDLETOWN, PA 17057

CERTIFICATE OF CALIBRATION

TO SUEZ-MIDDLETOWN WATER
453 S. LAWRENCE STREET
MIDDLETOWN, PA 1705

Reference to TRI-STAR Job number SERVICE REPORT DATED 01/04 & 01/21/22 FOR THE QUARTERLY PREVENTIVE SERVICE VISIT AT THE WWTP

TRI-STAR's calibration instrument M/N OMEGA CL27 S/N T.312015
THERMO ELECTRIC M/N 311800001 S/N 60110A-3-1

is traceable to the National Institute Standards Technology

Certified by PRECISE TECHNICAL SOLUTIONS, LLC

Report No. 188831 Date 02/17/21

Code Ref: NONE

Next Certificate of Calibration due: APRIL 30, 2022

Approved for TRI-STAR Inc.

by Steve Summy

title SERVICE TECH

date February 8, 2022

Steve Summy / KDB
Authorized Signature

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Calibration Certificate

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www.PreciseCalibrations.com

Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Manufacturer:	THERMO ELECTRIC
Model Number:	311800001
Serial Number:	60110A3-1
Description:	THERMOCOUPLE CALIBRATOR
Department:	MAIN (1634)
Location:	N/A
Temperature:	69.8 °F
Humidity:	22 %
Accuracy:	SEE CALIBRATION DATA SHEET

Procedure:	QI-114
Calibration Location:	IN HOUSE
Received Condition:	IN TOLERANCE
Returned Condition:	IN TOLERANCE
Interval:	12 MONTHS
Date Received:	15-Feb-21
Date Calibrated:	17-Feb-21
Date Due:	17-Feb-22
Technician:	MSKOCZYNSKI

This instrument has been calibrated in accordance with the Precise Technical Solution's quality system. The standards used in this testing are traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST). This report may not be reproduced, except in full, without the written approval of Precise Technical Solutions LLC.

Remarks

None.

Reference Standards

Reference Standard	Manufacturer	Model	Traceability No.	Cal. Due Date
PTS-119	FLUKE	5520A	201600007418	31-Jan-22
PTS-122	HEWLETT PACKARD	3458A	1-7243773776-1	31-Jan-22

2/24/21
D. Beaulieu

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Phone 1-855-872-3166 Fax 717-545-5077
www.PreciseCalibrations.com

Calibration Certificate

Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Calibration Data

Description	Standard	Units	Tolerance -	Tolerance +	As Found	P/F	As Left	P/F	Deviation
Thermocouple input 1 K-type	50.000	°C	49.500	50.500	49.9	P	49.9	P	-0.100
	100.000	°C	99.500	100.500	100.1	P	100.1	P	0.100
	150.000	°C	149.500	150.500	150.2	P	150.2	P	0.200
	200.000	°C	199.500	200.500	200.3	P	200.3	P	0.300
Thermocouple input 2 K-type	50.000	°C	49.500	50.500	49.8	P	49.8	P	-0.200
	100.000	°C	99.500	100.500	99.9	P	99.9	P	-0.100
	150.000	°C	149.500	150.500	149.7	P	149.7	P	-0.300
	200.000	°C	199.500	200.500	199.6	P	199.6	P	-0.400
D.C Voltage input	2.000	V	1.500	2.500	2.00	P	2.00	P	0.000
	4.000	V	3.500	4.500	4.00	P	4.00	P	0.000
	6.000	V	5.500	6.500	6.00	P	6.00	P	0.000
	8.000	V	7.500	8.500	8.00	P	8.00	P	0.000
	10.000	V	9.500	10.500	10.00	P	10.00	P	0.000
D.C mA input	10.000	mA	9.200	10.800	10.02	P	10.02	P	0.020
	20.000	mA	19.200	20.800	20.03	P	20.03	P	0.030
	30.000	mA	29.200	30.800	30.04	P	30.04	P	0.040
	40.000	mA	39.200	40.800	40.06	P	40.06	P	0.060
	50.000	mA	49.200	50.800	50.07	P	50.07	P	0.070
3 Wire RTD input	10.000	°C	9.600	10.400	10.10	P	10.10	P	0.100
	50.000	°C	49.600	50.400	50.10	P	50.10	P	0.100
	100.000	°C	99.600	100.400	100.10	P	100.10	P	0.100
4 Wire RTD input	10.000	°C	9.600	10.400	10.30	P	10.30	P	0.300
	50.000	°C	49.600	50.400	50.40	P	50.40	P	0.400
	100.000	°C	99.600	100.400	100.40	P	100.40	P	0.400
RTD output module 0°C@100Ohms	100.000	Ohms	99.900	100.100	99.97	P	99.97	P	-0.030
51.565°C @ 120Ohms	120.000	Ohms	119.900	120.100	120.04	P	120.04	P	0.040
103.943°C @ 140Ohms	140.000	Ohms	139.900	140.100	139.96	P	139.96	P	-0.040

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Calibration Certificate

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Calibration Certificate No.: 188831

Customer Name:
TRI-STAR, INC
300 VINE STREET

MIDDLETOWN, PA 17057

Instrument ID: 60110A-3-1-1634

Approved By:

Matthew Skoczynski
LABORATORY MANAGER

17-Feb-21 2:54 PM

End of Report

TECH: [signature]
DATE: 1/13/22
AUDIT: [signature]
DATE: 1/13/22

MONTHLY TEST METER CALIBRATION

TESTED AGAINST
SHOP STANDARD
THERMOELECTRIC ULTRAMITE

A: NEWPORT HHCT-2 S/N T.141388 — SEE REVERSE SIDE OF SHEET
B: TRANSMATION 1045 S/N B75174 — SEE REVERSE SIDE OF SHEET
C: OMEGA CL27 S/N T.312015 — SEE REVERSE SIDE OF SHEET
D: PLC TOOLS SIM-ALP2 S/N 35333 — SEE REVERSE SIDE OF SHEET

METER	RANGE	TP #1	DEV.	TP #2	DEV.	TP #3	DEV.	TP #4	DEV.	TP #5	DEV.	CHECKED BY	COMMENTS
A	J	0	0	50	0	100	0	300	0	600	0	Steve Sumay	Within tolerances
A	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
A	T	-100	0	-50	0	0	0	50	0	100	0	"	"
B	MV IN	0	0	3	0	10	0	20	0	30	0	"	"
B	50V IN	0	0	10	0	20	0	30	0	40	0	"	"
B	10V IN	0	0	1	0	3	0	5	0	7	0	"	"
B	MV OUT	0	0	3	0	10	0	20	0	30	0	"	"
B	V OUT	0	0	1	0	3	0	5	0	7	0	"	"
C	RTD	0	0	50	0	100	0	150	0	200	0	"	"
C	RTD	250	0	300	0	350	0	400	0	450	0	"	"
C	J	0	0	50	0	100	0	300	0	600	0	"	"
C	K	50	0	500	0	1000	0	1500	0	2000	0	"	"
C	S	100	0	1000	0	2450	0	2700	0	3050	0	"	"
C	T	-100	0	-50	0	0	0	50	0	100	0	"	"
D	V OUT	0	0	1	0	3	0	5	0	7	0	"	"
D	MA OUT	4	0	8	0	12	0	16	0	20	0	"	"

APPENDIX 6