

CENTER TOWNSHIP SANITARY AUTHORITY
Beaver County, Pennsylvania

ANNUAL REPORT
Municipal Wasteload Management
(Chapter 94 Report)

OPERATING YEAR 2025

Elkhorn Run Sewage Treatment Plant

NPDES Permit No. PA0037940

MARCH 2026



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CENTER TOWNSHIP SANITARY AUTHORITY
MUNICIPAL WASTELOAD MANAGEMENT REPORT
OPERATING YEAR 2025

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CENTER TOWNSHIP SANITARY AUTHORITY MUNICIPAL WASTELOAD MANAGEMENT REPORT OPERATING YEAR 2025

PURPOSE AND SCOPE

This report is submitted to satisfy the requirements of Chapter 94 - Municipal Wasteload Management, of the Pennsylvania Code for National Pollutant Discharge Elimination System (NPDES) Permit No. PA0037940. This report presents the following:

1. Hydraulic loading graph.
2. Organic loading graph.
3. A discussion of the hydraulic and organic loadings and projections methodology.
4. A description of all sewer extensions approved and all sewer extensions constructed in the year reported.
5. A description of the operation and maintenance program for the sewer system including monitoring.
6. A discussion of the condition of the sewer system.
7. A discussion of the condition and capacity of the sewage lift stations within the collection system.
8. A description of industrial waste dischargers.
9. A sludge management inventory report.

Center Township Sanitary Authority (CTSA) owns, operates, and maintains one Sewage Treatment Plant (Elkhorn Run), eleven wastewater pumping stations, and the wastewater collection and conveyance system.

SECTION 1: HYDRAULIC LOADING GRAPH (§ 94.12.(a)(1))

Figure 1 contained in Appendix A presents the hydraulic loading graph illustrating flows as recorded at the Elkhorn Run Sewage Treatment Plant (STP) for the period of time between 2021 and 2025. Figure 1 also presents flow projections for the coming five-year period (2026 through 2030). The data is presented in tabular form appended as Table 1. Section 3 of this report provides discussion of the past and projected future hydraulic loadings. Also shown on Figure 1 is the permitted hydraulic capacity (2.5 mgd).

SECTION 2: ORGANIC LOADING GRAPH (§ 94.12.(a)(2))

Figure 2 contained in Appendix A presents the organic loading tributary to the Elkhorn Run STP for the most recent five-year period (2021 and 2025) and projects organic loading for the coming five-year period (2026 through 2030). Historic loading data is provided in tabular form appended as Table 2. Section 3 of this report discusses past and projected future organic loading. Figure 2 also presents the design influent BOD₅ loading (3,400 lbs/day).

SECTION 3: DISCUSSION OF HISTORIC HYDRAULIC AND ORGANIC LOADINGS AND PROJECTIONS (§ 94.12.(a)(3))

Historic Hydraulic Loading

The annual average flow to the STP during 2025 was 1.048 mgd as shown on Table 1 and Figure 1. The five-year average of the annual average flow (2021 through 2025 period of record) is 1.085 mgd.

The 90-day sustained flow recorded at the STP is computed at 1.400 mgd in 2025, occurring during the months of February, March, and April. The five-year average of the annual 90-day sustained flow rate is computed at 1.446 mgd, and the five-year average of the 90-day sustained hydraulic loading / annual average hydraulic loading is 1.33.

During the most recent five-year period of record, the 90-day sustained recorded flow rates did not exceed the hydraulic design flow capacity of 2.5 mgd. There were no three consecutive months where the monthly average flow exceeded the hydraulic design capacity of the plant. Therefore, based upon reporting criteria as defined by Title 25, Chapter 94.1 of the Pennsylvania Code, the Sewage Treatment Plant was not hydraulically overloaded in 2024.

As required by Chapter 94 regulations, the calibration certificate for the sewage treatment plant flow meter is provided in Appendix B.

Historic Organic Loadings

The annual average loading to the treatment plant in 2025 was computed to be 1,137 lbs BOD₅/day as shown on Table 2 and Figure 2. The 2025 maximum month loading (May) was found to be 1,910 lbs BOD₅/day. The maximum month organic loading was below the design organic loading of 3,400 lbs. BOD₅/day. Therefore, based upon reporting criteria as defined by Title 25, Chapter 94.1 of the Pennsylvania Code, the STP was not organically overloaded in 2025.

Projected Future Hydraulic Loadings

The base datum for hydraulic loading projections is the five-year annual average hydraulic loading of 1.085 mgd. Per PaDEP regulations, 100 gpcd was utilized. Projections of yearly increases are based upon additional EDUs as detailed in Section 4 of this report. The 5-year 90-day sustained hydraulic loading / annual average hydraulic loading (1.33) was used to project maximum flow rates. Table 3 presents a summary of the projected hydraulic loading. As shown on Figure 1, the projected 90-day sustained flow does not exceed the hydraulic design capacity in years 2026 through 2030. No hydraulic overload is projected.

Projected Future Organic Loadings

Projected future organic loadings were computed similarly to the projected hydraulic loadings using a “base datum”. The base datum for the organic loading projections is the 5-year annual average organic loading of 1,063 lbs BOD₅ per day. Projections of yearly increases are based upon additional EDUs as detailed in Section 4 of this report. Per PaDEP regulations, 0.17 lbs BOD₅ per day per person was utilized. Table 4 presents a summary of the projected organic load. Maximum monthly loads were projected based upon a historic ratio of maximum month to annual average of 1.52 derived as shown on Table 2. As shown on Figure 2, the maximum month loading is not projected to exceed the design BOD₅ Loading (3,400 lbs/day) in the coming 5-year period. Therefore, an organic overload is not projected.

SECTION 4: SEWER EXTENSIONS (§ 94.12.(a)(4))

In 2025, 28 taps/EDUs were made according to CTSA records. Appendix C contains a detailed listing of these taps and also a summary of anticipated taps for 2026-2030. The table below summarizes the current status of known developments in the CTSA service area.

Development	Type	Estimated EDUs/Flow	Status / Phase
Heritage Valley	Commercial	22 EDU	Completed 2018
Village at Riverside NVR/Ryan Homes	Residential	79 EDU	Completed 2018-2021
Allegheny Health Network Cancer Center	Commercial	32 EDU	Completed 2018
Shell – Main Plant	Commercial	21,000 gpd	Completed 2018-2022
Shell – Support Buildings	Commercial	7,375 gpd	Completed 2018-2022
Beaver Valley Mall Outparcels	Commercial	6 EDU	Completed 2019
Western PA Surgery Center	Commercial	20 EDU	Completed 2019
Eagles Landing at Mateer Farms	Residential	125 EDU	Completed 2018
Hilton Garden Inn	Commercial	52 EDU	Completed 2018
CTWA Temporary Water Plant Sludge Discharge	Commercial	15 EDU	Completed 2018

Development	Type	Estimated EDUs/Flow	Status / Phase
Primanti's Restaurant	Commercial	7 EDU	Completed 2019
BASF Corporation	Commercial	11 EDU	Completed 2021
GetGo	Commercial	5 EDU	Completed 2021
Firehouse Subs	Commercial	2 EDU	Completed 2023
Chipotle	Commercial	7 EDU	Completed 2023
Planet Fitness	Commercial	5 EDU	Completed 2023
Brodhead Apartments–Building 1	Residential	23 EDU	Completed 2024
Highland Meadows Phase 1	Residential	25 EDU	Completed 2019-2024
Highland Meadows Phase 2	Residential	17 EDU 9 EDU	Completed 2024-2025 Future Construction
Highland Meadows Phase 3	Residential	25 EDU	Future Construction
Lakeview Farms Phase 5	Residential	83 EDU	Completed 2025
Joe Hall Apartments	Residential	4 EDU 38 EDU	Completed 2025 Future Construction
Glade Bluffs Apartments	Residential	182 EDU	Planning
Glade Bluffs Phase III	Commercial	50 EDU	Planning
Lincoln Learning Center	Commercial	10 EDU	Planning
Old Glass Dump Property	Commercial	10 EDU	Planning
Vacant 3-Acre Parcel	Commercial	5 EDU	Planning
Medical Clinic	Commercial	22 EDU	Planning
Valley Village	Residential	90 EDU	Planning

For purposes of Chapter 94 reporting, the table below provides estimates for the coming five-year period based upon known information and historic data.

Year	Number of EDUs	Notes/Explanation
2016 (Actual)	141	Taps Purchased
2017 (Actual)	284	Taps Purchased (includes Shell)
2018 (Actual)	258	Taps Purchased
2019 (Actual)	76	Taps Purchased
2020 (Actual)	39	Taps Purchased
2021 (Actual)	51	Taps Purchased
2022 (Actual)	26	Taps Purchased
2023 (Actual)	63	Taps Purchased
2024 (Actual)	72	Taps Purchased
2025 (Actual)	28	Taps Purchased

2026 (Estimated)	97	Refer to Sewer Tap Summary Table (Appendix C)
2027 (Estimated)	291	Refer to Sewer Tap Summary Table (Appendix C)
2028 (Estimated)	78	Refer to Sewer Tap Summary Table (Appendix C)
2029 (Estimated)	35	Refer to Sewer Tap Summary Table (Appendix C)
2030 (Estimated)	15	Refer to Sewer Tap Summary Table (Appendix C)

No sanitary sewer line extensions were constructed in 2025.

**SECTION 5: SEWER SYSTEM MONITORING, MAINTENANCE, REPAIR
AND REHABILITATION (§ 94.12.(a)(5))**

The Center Township Sanitary Authority (CTSA) owns, operates and maintains the sewage collection, conveyance, pumping and treatment facilities within its service area. The CTSA system includes separate sanitary sewers, eleven lift stations, and one sewage treatment plant. Responsibilities include the administration, operation, maintenance, and monitoring of the plant, pump stations, and sewer system.

CTSA maintains a staff of employees to perform maintenance and operate the sewers, pumping stations and wastewater treatment facility. Part-time and seasonal personnel are hired as needed. The Operations Supervisor, under the direction of the Authority Board of Directors, is responsible for the operation and administration of the sewer system, pumping stations and wastewater treatment facility. Two full-time employees are responsible for the administrative duties. The operations crew includes:

- Robert J. Martini, Operations Supervisor, Certification Number: S16819
- Lance Elias, Lab Supervisor/Lab Technician, Certification Number: S16821
- Kirk Johns, Former Chief Operator/Laborer, Certification Number: S18605
(now retired)
- Richard Nicasro, Chief Operator, Certification Number: S20891
- Nate Stobart

Sampling is conducted by CTSA personnel. The 2025 Lab Equipment Calibration Report is provided in Appendix B. As of July 2018, all samples are analyzed at the CTSA Certified Laboratory onsite (Lab ID # 04-03013). Required monitoring parameters per the NPDES Permit are presented in the table below.

PARAMETER	FREQUENCY	LOCATION	SAMPLE TYPE
Total Flow	Continuous	Effluent	Recorded
pH	Once per day	Effluent	Grab
Dissolved Oxygen	Once per day	Effluent	Grab
Total Residual Chlorine	Once per day	Effluent	Grab
BOD₅ / CBOD₅	Twice per week	Influent and Effluent	24-hour composite
Suspended Solids	Twice per week	Influent and Effluent	24-hour composite
Fecal Coliform	Twice per week	Effluent	Grab
E. Coli	Once per month	Effluent	Grab
Total Nitrogen	Quarterly	Effluent	24-hour composite
Ammonia (as Nitrogen)	Twice per week	Effluent	24-hour composite
Total Phosphorus	Quarterly	Effluent	24-hour composite
Total Mercury	Once per month	Effluent	24-hour composite
PFOA	Once per year	Effluent	Grab
PFOS	Once per year	Effluent	Grab
PFBS	Once per year	Effluent	Grab
HFPO-DA	Once per year	Effluent	Grab

The NPDES Permit became effective on May 1, 2025 and will expire on April 30, 2030.

The following provides a summary of repair and maintenance performed within the collection and conveyance system in past years. Appendix D contains a more detailed listing of repairs and maintenance performed in 2025. Appendix D also includes a listing of preventative maintenance performed at each lift station.

CTSA utilized outside contractors for heavy / specialty maintenance and repair of the gravity sewers, force mains and lift stations, including:

- Penn Power
- Stefanik's Next Generation Contracting Company, Inc.
- PumpMan
- Halama Brothers Electric, Inc.
- Lanco Controls Group, LLC
- Tri-State
- Trombold Equipment Co., Inc. (Tepco)
- Robinson Pipe

Equipment owned by CTSA for operation and maintenance of the system includes a skid loader, dump truck, tractor, two utility trucks, two pick-up trucks, two mowers, tow trailer, safety equipment, push camera, and various hand tools and equipment.

In 2014, approximately 1,180 feet of sewer main was inspected and 8,000 feet of sewer main was cleaned. The Authority made an emergency repair of an 8-inch sewer line located off of Woods Avenue and 18-inch sewer line located along Elkhorn Run. During the repair of the sewer off of Woods Avenue, the Authority televised sewer runs upstream of the repair and confirmed the pipes need replaced. The construction project consisted of the replacement (by pipe bursting method) of two 8-inch sewer runs totaling approximately 520 LF. 58 manhole inspections were completed and 5 repairs were made.

In 2015, approximately 2,265 feet of sewer main was inspected and 14,400 feet of sewer main was cleaned. 404 feet of service lateral was inspected and 6,400 feet of sewer was smoke tested. The Authority replaced approximately 570 feet of 8-inch sewer main. Three manholes and reestablished service connection along Woods Avenue. Forty-two (42) manhole inspections were completed and five repairs were made.

In 2016, approximately 4,000 feet of sewer was televised and approximately 12,000 feet of sewer was cleaned in 2016. Construction was completed on the Moon Run Trunk Sewer Replacement project in 2016. The project involved replacement of approximately 1,100 LF of 8-inch and 15-inch sewer. Approximately 960 LF of sewer main was lined on Bainbridge Drive and 120 LF of sewer main was lined on Shadyside Drive. Approximately 215 LF of 10-inch sewer was replaced in the vicinity of the Community College of Beaver County during the summer of 2016. A program was initiated in 2016

to prepare a Geographic Information System (GIS) for mapping and management of the sewer system over a three-year period. This resulted in approximately 50 manholes being located that were previously unable to be located. Three manholes were rehabilitated on Chapel Road. The pumps, controls and generator were replaced at the New College Lift Station. Increasing its capacity to 2,000 gpm for the Shell Project.

In 2017, approximately 13,000 feet of sewer was televised and approximately 8,100 feet of sewer was cleaned. Approximately 75 LF of sewer was replaced and approximately 1,875 of sewer was CIPP lined. Additionally, 14 manholes were rehabilitated. Approximately 1,900 LF of sewer was rehabilitated via pipe bursting on Woods Avenue and Wilhelm Drive.

In 2018, approximately 15,250 feet of sewer was televised and approximately 16,975 feet of sewer was cleaned. Additionally, one lamp hole was replaced. A nighttime flow isolation study was performed on the Sylvan Crest area tributary to the Markey's Run Lift Station.

In 2019, approximately 2,500 feet of sewer line was televised and approximately 14,450 feet of sewer line was cleaned. Approximately 225 feet of 6-inch sewer line was replaced; 40 feet of 8-inch sewer line was replaced by conventional excavation and 193 feet of 8-inch sewer line was replaced by pipe bursting method; and 807 feet of 8-inch sewer line was lined with a cured-in-place liner.

In 2020, approximately 12,200 feet of sewer line was televised and approximately 3,100 feet of sewer line was cleaned. Approximately 1,300 feet of 12-inch sewer line and 70 feet of 10-inch sewer line were replaced by conventional excavation. Additionally, a forcemain was repaired at Gardenview Estates; 4,556 linear feet of 8-inch diameter sanitary sewer line and 31 sanitary manholes were installed within the Lakeview Farms Phase 5 development; 424 linear feet of 8-inch diameter sanitary sewer line and one sanitary manhole were installed to serve Children's Choice Daycare; and a private

wastewater pumping station and 953 linear feet of sanitary forcemain were constructed to serve BASF Corporation.

In 2021, approximately 4,865 feet of sewer line was televised and approximately 10,400 feet of sewer line was cleaned. Approximately 3,826 feet of 10-inch sewer line was replaced with 15-inch PVC and/or 16-inch HDPE by conventional excavation and pipe burst along Upper Moon Run Interceptor. Two clarifiers at the sanitary sewer plant were replaced and the remaining two clarifiers were rehabilitated.

In 2022, approximately 1,750 feet of sewer line was televised and approximately 11,450 feet of sewer line was cleaned. Construction was completed on the Upper Moon Run Interceptor Upgrade including 3,826 feet of 15" PVC. Design of the Chapel Road Interceptor Upgrade was completed; the expected construction start date is April 2023. This project includes approximately 4,000 linear feet of 10-inch sewer line to be upsized to 15-inch PVC and/or 16-inch DIP.

In 2023, approximately 8,883 feet of sewer line was televised and approximately 14,083 feet of sewer line was cleaned. Construction was completed on the Chapel Road Interceptor Upgrade including 96 feet of 8" PVC, 42 feet of 12" SRJ DIP, 3,249 feet of 15" PVC, 207 feet of 16" SRJ DIP and 28 sanitary manholes. Influent and Effluent flow-proportioned automatic samplers were installed at the Elkhorn Run Sewage Treatment Plant to comply with the forthcoming NPDES Permit. Four (4) 1,200 GPM Return Activated Sludge Pumps were replaced with four (4) 1,700 GPM Return Activated Sludge Pumps to comply with the NPDES Permit to be issued by PaDEP increasing the permitted hydraulic loading from 2.0 MGD to 2.5 MGD.

In 2024, approximately 2,285 feet of sewer line was televised and approximately 10,850 feet of sewer line was cleaned. 19 manholes were opened and inspected, with an additional 2 being located, raised, and inspected. 7 residential sewer lines were inspected, 5 residential traps were plunged, and 1 residential line was serviced. At the Elkhorn Run STP, all tanks were vacuum cleaned. Various repairs and replacements

were completed at the plant including: replacements of a chlorine injector, an effluent pump, a shaft on an effluent pump, the coupling on a blower air pipe, a motor on a blower, a mud valve, the HMI control screen and the polymer pump for the belt press as well as the bearings and repairs to an effluent pump, storm sewer and aggregate, the bar screen, the chlorine unit and troubleshooting the roller press program. Wet wells at Spruce Drive, Stoney Ridge, and Walnut Grove Lift Stations (L/S) were cleaned. Additionally various services, replacements, and repairs were made in the collections system including: electrical repairs and maintenance, replacement of relays for SCADA and the block heater on the generator, replacement of the soft start, field service, replacement of the vacuum pump and a check valve at Logstown L/S; replacement of the battery charger on the generator at Franklin L/S; replacement of the roof and the fan on the control panel as well as rewired faulty relays for SCADA on the generator at Markey's Run L/S; troubleshooting and a service call for the transfer switch on the generator, repairing the priming system, replacing the suction pipes in the wet well at Spruce Drive L/S; replacement of the block heater and the battery on the generator, installation of two storm catch basins and repair of the access road milling, additional drainage added to the lower part of the access road at Biggins L/S; service repairs at Shirley Drive, Stobo, and New College L/S; and other miscellaneous repairs including repairing invert pipe and invert of a manhole as well as the replacement of three air release valves on the Shell Forced Main.

In 2025, approximately 800 feet of sewer line was televised and approximately 3,700 feet of sewer line was cleaned. 18 manholes were opened and inspected, 5 were located and inspected, and 4 were repaired and inspected. 23 residential sewer lines were inspected, and 3 residential traps were plunged. WQM Part II Permits for New College Lift Station Improvements and Lower Moon Run Interceptor Upgrade were submitted with construction anticipated to begin in 2026. Construction for the replacement of Final Clarifiers 3 & 4 at the Elkhorn Run STP began in 2025, with completion projected for 2026. Additionally various services, replacements, and repairs were made in the collections system including: updating firmware for SCADA, miscellaneous yearly SCADA tasks, replacement of a heater in the lab, and replacement of a motor on one

waste pump and troubleshooting another waste pump. Wet wells at Gardenview, Stoney Ridge, Markey's Run and New College Lift Stations (L/S) were cleaned. Additionally various services, replacements, and repairs were made in the collections system including: replacement of motor starter contacts and the linear actuator on the generator at Spruce Drive L/S; replacement of relay on pump control panel at Markey's Run L/S; repair and replacement of block heater on generator, repair of wet well pump at Franklin L/S; replaced time delay relay on both pumps at Walnut Grove L/S; repair of seal and shaft of pump, replacement of vacuum tubes, emergency repair replacing 4" D.I. pipe from pumps to 4' outside the station, repair of the forced main at Biggins L/S; installation of two new Sulzer pump, inspection of transducer at New College L/S; emergency repair of broken forced main, after hours repair of forced main on Chapel Road, replacement of starter contactors at Logstown L/S; replacement of the E-one pump at Gardenview; and other miscellaneous items including repair of a gravity line on Chapel Road, installation of a manhole on Center Grange Road, repair of a sewer lateral on Harvard Drive, and installation of a backwater valve at Chapel Pool.

Flow monitoring and sewer system modeling were conducted in 2017 in response to potential development interest, particularly in the vicinity of the Beaver Valley Mall. As a result of the information provided by this study, the below listed capital improvements are recommended to address potential hydraulic capacity needs resulting from proposed future development.

- Upgrade Markey's Run Interceptor Sewer (Completed 2019)
- Upgrade Markey's Run Lift Station (Completed 2019)
- Upgrade a portion of the Upper Moon Run Interceptor Sewer Line (Completed in 2021)
- Perform a rerating study at the Elkhorn Run Sewage Treatment Plant to pursue additional available hydraulic capacity. (Completed in 2021)
- Upgrade a portion of the Chapel Road Interceptor Sewer Line (Completed in 2023)

- Upgrade a portion of the Moon Run Interceptor Sewer Line (Design / Permitting)

The 2018 Hydraulic and Hydrologic (H&H) Model Report for the Moon Run Sewershed was based upon flow monitoring conducted from January through December 2017. The H&H Model Report was submitted as part of the Act 537 Plan Special Study, approved by the Pennsylvania Department of Environmental Protection (PaDEP) on May 20, 2022. The calibrated H&H model is a critical tool for planning, designing, and analysis of the sanitary sewer system serving areas tributary to the New College Lift Station.

Following approval of the Act 537 Plan Special Study; CTSA upgraded the Upper Moon Run Interceptor in September 2022. This project involved increasing the diameter from 10-inches to 15-inches / 16 inches (dependent upon material of construction) to increase available capacity. CTSA conducted post-construction flow monitoring from February 2025 to June 2025 to validate the Act 537 Plan Special Study recommendations. This data was used to confirm/confirm/update calibration with current 2025 flow conditions in the Moon Run Interceptor; and verified the H&H Model Report's planned improvements, including equalization storage and wet well augmentation at the New College Lift Station.

SECTION 6: CONDITION OF THE SEWER SYSTEM (§ 94.13.(a)(6))

Center Township is divided into four drainage areas: Elkhorn Run, Moon Run, Markey's Run and Raccoon Creek. Construction of the sewer system began in January 1961 and additions to the sewer system were constructed in 1972-1973. Later, sewer extensions were constructed in the Todd Lane and Stobo areas. Most of the development has occurred in the Elkhorn Run and Moon Run drainage areas. The Elkhorn Run area is served by approximately 43 miles of sanitary sewers and six sewage pumping stations. The Moon Run area is served by approximately 45 miles of sanitary sewers and three sewage pumping stations. The Markey's Run area is served by approximately 7.5 miles of sanitary sewers and two sewage pumping stations.

SECTION 7: LIFT STATIONS (§ 94.12.(a)(7))

Eleven sewage lift stations receive and convey wastewater flow within the CTSA system to the Elkhorn Run Sewage Treatment Plant. A summary of the lift station operating data is provided on Table 5 included in Appendix A.

SECTION 8: INDUSTRIAL WASTE DISCHARGES (§ 94.12.(a)(8))

Presently, there are no industrial dischargers to the sewage system. The Authority does not have ordinances or regulations controlling industrial discharge to the system as they are currently not necessary.

During 2019, the Center Township Sanitary Authority accepted wastewater used for hydrostatic testing of water storage tanks at the Shell ethane cracker plant. A summary of the volume of hydrostatic testing wastewater is detailed below:

Month	Volume (Gallons)
May, 2019	150,000
June, 2019	500,000
July, 2019	900,000
August, 2019	2,000,000
September, 2019	1,450,000
October, 2019	500,000
November, 2019	710,000
Total	6,210,000

SECTION 9: SLUDGE MANAGEMENT INVENTORY

Aerobically digested sewage sludge is dewatered on site using a belt filter press. Dewatered sludge is disposed at the Joseph J. Brunner Landfill. According to Discharge Monitoring Reports completed by CTSA in 2025, approximately 80 dry tons of dewatered sludge was disposed. Appended to the report is a copy of the sludge management inventory sludge generation calculation for the 2025 calendar year and a

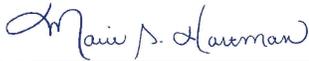
summary table. The calculation represents the mass balance of influent vs. effluent solids. It is noted that the actual dry tons of sludge leaving the plant for calendar year 2025 is less than 15% of the projected amount of sludge calculated by the sludge generation calculator. Actual sludge produced in 2025 was 80 dry tons; theoretical sludge production for 2025 is 123 dry tons.

SECTION 10: SIGNATURES

To comply with the requirements of the Chapter 94 Municipal Wasteload Management Program, the following signatures are provided.

Preparer:

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).



Marie S. Hartman, P.E.
LSSE Civil Engineers and Surveyors

March 11, 2026

Date

Permittee:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).



Robert J. Martini, Operations Supervisor
Center Township Sanitary Authority

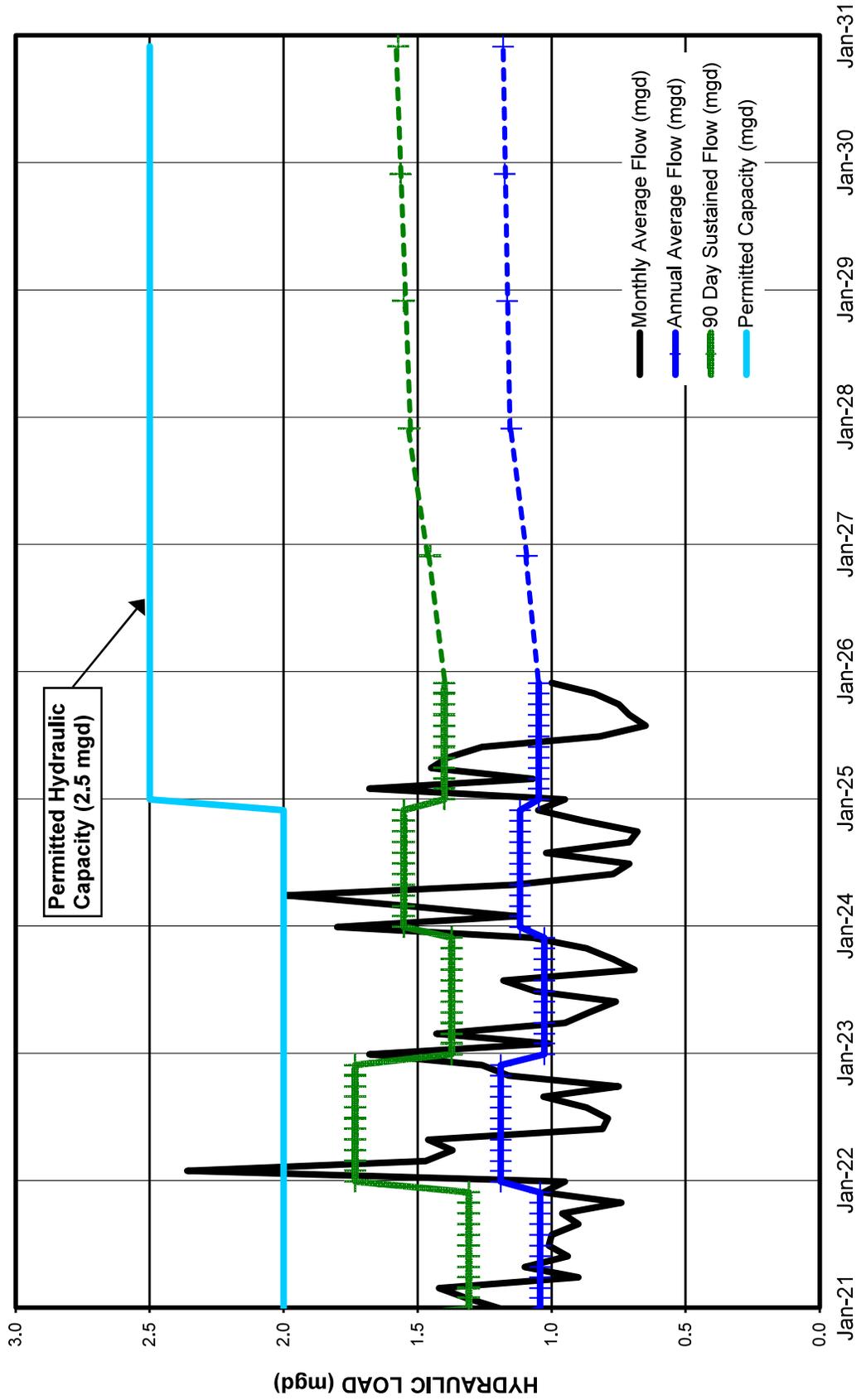
March 11, 2026

Date

APPENDIX A

TABLES AND FIGURES

**Sewage Treatment Plant Hydraulic Loading Graph
Center Township Sanitary Authority, Beaver County, PA
Figure 1**



**Sewage Treatment Plant Organic Loading Graph
Center Township Sanitary Authority, Beaver County, PA
Figure 2**

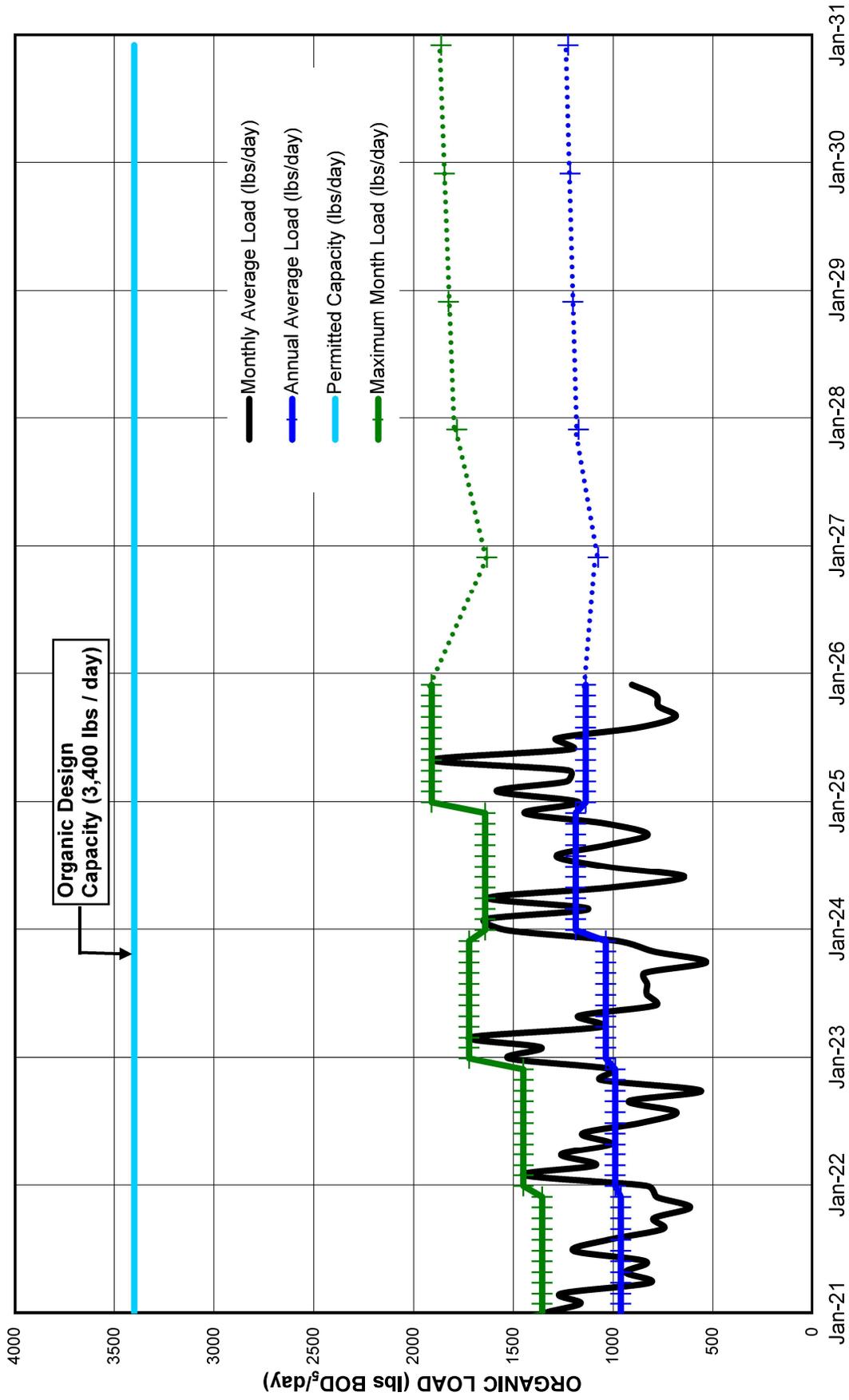


TABLE 1
CENTER TOWNSHIP SANITARY AUTHORITY
ELKHORN RUN SEWAGE TREATMENT PLANT
HYDRAULIC LOADING DATA SUMMARY
JANUARY 2021 THROUGH DECEMBER 2025

DATE	2021		2022		2023		2024		2025	
	January	1.190	*	0.950		1.680	*	1.800		0.950
February	1.320	*	2.360	*	1.010	*	1.130		1.680	*
March	1.420	*	1.470	*	1.430	*	1.530	*	1.070	*
April	0.900		1.370	*	0.950		1.990	*	1.450	*
May	1.100		1.460		0.860		1.140	*	1.390	
June	0.940		0.810		0.760		0.770		1.260	
July	1.010		0.790		1.060		0.710		0.820	
August	1.000		0.870		1.180		1.020		0.650	
September	0.900		1.030		0.690		0.710		0.710	
October	0.960		0.750		0.770		0.680		0.750	
November	0.740		1.160		0.870		0.880		0.840	
December	1.030		1.260		1.070		1.050		1.000	
Annual Average (mgd)	1.043		1.190		1.028		1.118		1.048	
90 Day Sustained Flow Rate (mgd)	1.310		1.593		1.373		1.553		1.400	
Ratio (90-Day Sustained to Annual Average)	1.26		1.34		1.34		1.39		1.34	
5-Year 90-Day Sustained/Annual Average Ratio	1.33									
5-Year Annual Average Hydraulic Loading (mgd)	1.085									
5-Year 90-Day Sustained Hydraulic Loading (mgd)	1.446									

*Maximum 3-month flow period.

TABLE 2
CENTER TOWNSHIP SANITARY AUTHORITY
ELKHORN RUN SEWAGE TREATMENT PLANT
ORGANIC LOADING DATA SUMMARY
JANUARY 2021 THROUGH DECEMBER 2025

DATE	2021	2022	2023	2024	2025
January	1,356	830	1,521	1,538	1,174
February	1,163	1,450	1,361	1,641	1,585
March	1,262	1,089	1,721	1,124	1,232
April	815	1,261	1,055	1,627	1,221
May	938	1,008	1,175	1,016	1,910
June	839	1,155	787	643	1,205
July	1,200	861	831	1,039	1,287
August	1,024	683	830	1,285	877
September	750	921	842	1,024	689
October	797	560	534	828	773
November	614	1,064	798	1,041	787
December	784	999	986	1,444	906
Annual Average (LBS BOD₅/Day)	962	990	1,037	1,187	1,137
Maximum Month (LBS BOD₅/Day)	1,356	1,450	1,721	1,641	1,910
Ratio (Maximum Month to Annual Average)	1.41	1.46	1.66	1.38	1.68
5-Year Maximum Month/Annual Ratio Average	1.52				
5-Year Annual Average Organic Loading (LBS BOD₅/Day)	1,063				

**TABLE 3
CENTER TOWNSHIP SANITARY AUTHORITY
5 YEAR HYDRAULIC LOADING PROJECTION**

PROJECTED HYDRAULIC LOAD						
YEAR	ANNUAL AVERAGE FLOW (mgd)			90 DAY SUSTAINED FLOW (mgd)		
	BASE FLOW	ADDITIONAL FLOW ⁽²⁾	TOTAL	AVERAGE	RATIO ⁽³⁾	FLOW
2026 ⁽¹⁾	1.085	0.0071	1.092	1.092	1.33	1.454
2027	1.092	0.0580	1.150	1.150	1.33	1.532
2028	1.150	0.0162	1.166	1.166	1.33	1.553
2029	1.166	0.0082	1.175	1.175	1.33	1.564
2030	1.175	0.0063	1.181	1.181	1.33	1.573

⁽¹⁾ 2026 Base Flow utilizes the 5-year Annual Average Hydraulic Loading (2021 to 2025).

⁽²⁾ Additional flow assumes 2.35 pph (2020-2024 Center Township US Census Data), 100 gpcd, and the annual additional EDUs discussed in the report (Appendix C).

⁽³⁾ 5-Year 90-Day Sustained /Annual Average Ratio.

**TABLE 4
CENTER TOWNSHIP SANITARY AUTHORITY
5 YEAR ORGANIC LOADING PROJECTION**

YEAR	PROJECTED ORGANIC LOAD					
	ANNUAL AVERAGE LOAD (lbs/day)			MAXIMUM MONTH LOAD (lbs/day)		
	BASE LOADING	ADDITIONAL LOADING ⁽²⁾	TOTAL	ANNUAL AVERAGE	RATIO ⁽³⁾	TOTAL
2026 ⁽¹⁾	1,063	12	1,075	1,075	1.52	1,633
2027	1,075	99	1,173	1,173	1.52	1,782
2028	1,173	28	1,201	1,201	1.52	1,824
2029	1,201	14	1,215	1,215	1.52	1,846
2030	1,215	11	1,226	1,226	1.52	1,862

⁽¹⁾ 2026 Base Organic Loading utilizes the 5-year Annual Average Organic Loading (2021 to 20

⁽²⁾ Additional organic loading assumes 2.35 pph (2020 - 2024 Center Township US Census Data), 0.17 lb/cap/day, and the annual additional EDUs discussed in the report (Appendix C).

⁽³⁾ 5-Year Maximum Month / Annual Ratio Average.

TABLE 5
Center Township Sanitary Authority
2024 Chapter 94 Report

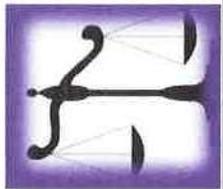
Lift Station Data ⁽¹⁾

Pumping Capacity (gpm)	New College ⁽³⁾	Logstown Run	Stobbo	Markey's Run	Shirley Drive	Cherrywood (Walnut Grove)	Spruce Drive	Bunker Hill (Biggins)		Krisana Woods	Franklin (SR18)	Stoney Ridge
								80	80			
Pumping Capacity (gpd)	2,000	300	80	400	80	80	100	80	80	80	312	80
	2,880,000	432,000	115,200	576,000	115,200	115,200	144,000	115,200	115,200	115,200	449,280	115,200
January	581,806	78,503	5,930	47,535	743	24,124	18,600	3,639	3,546	10,870	10,870	21,941
February	1,389,536	146,057	9,411	70,029	840	34,886	20,700	6,274	7,080	11,366	11,366	24,686
March	561,484	82,742	5,032	54,890	666	25,874	22,877	2,632	3,701	12,017	12,017	27,577
April	749,700	279,960	7,408	68,720	800	30,096	28,340	4,160	5,520	13,790	13,790	47,152
May	704,323	114,155	6,612	68,284	774	33,414	32,903	3,221	4,630	13,104	13,104	54,689
June	588,000	119,580	6,752	63,040	928	31,088	37,400	3,024	5,344	14,851	14,851	54,720
July	408,484	61,490	4,521	49,781	852	23,690	34,897	2,477	4,521	16,727	16,727	51,453
August	402,097	52,897	3,561	48,852	883	18,534	30,542	2,338	3,577	22,524	22,524	56,950
September	442,200	54,960	4,144	51,040	768	19,840	26,020	1,936	2,176	13,603	13,603	69,936
October	476,129	61,665	4,490	49,548	774	19,974	29,748	2,137	2,323	12,561	12,561	71,195
November	496,500	67,800	5,040	54,480	816	21,104	28,060	2,240	3,280	10,733	10,733	66,272
December	581,806	84,658	6,410	60,077	759	23,443	26,516	2,648	5,404	12,259	12,259	68,733
Annual Average	615,172	100,372	5,776	57,190	800	25,506	28,050	3,060	4,258	13,700	13,700	51,275
Maximum Month	1,389,536	279,960	9,411	70,029	928	34,886	37,400	6,274	7,080	22,524	22,524	71,195
2-Year Projected Monthly Max ⁽²⁾	1,454,631	285,559	9,600	71,429	947	35,583	38,148	6,400	7,222	22,975	22,975	72,619

⁽¹⁾ Flow (gpd) calculated from total hours pumped as reported by operations staff and pumping capacity of each pump.
⁽²⁾ Flow projections based on "Added Flow" from Table 3 for New College Lift Station and the addition of 1% of the maximum month flow base flow per year for each of the remaining 9 lift stations.
⁽³⁾ New College Pump Station flow (gpd) calculated from total hours pumped as reported by operations staff and typical pump operation point of 1500 gpm.

APPENDIX B

CALIBRATION CERTIFICATE



Total SP LLC

Laboratory & Pharmacy Balances & Scales
Service, Sales, Calibration & Repair

22 Crest Drive Monongahela PA 15063-1081

Phone (724) 825-6872 or email: totalsp22@gmail.com

CALIBRATION REPORT

DATE OF SERVICE: September 15, 2025

NEXT CALIBRATION DUE DATE: September 30, 2026

CENTER TOWNSHIP
ELKHORN TREATMENT PLANT
ATTN: LANCE ELIAS
996 BISKUP LANE
MONACA PA 15061

Procedures:

- A.) Toploading balances > one kilogram capacity use procedure A5A.
- B.) Toploading balances <= one kilogram capacity use procedure A4A.
- C.) Analytical balances use calibration procedure A1A.
- D.) Micro balances use procedure A2A.

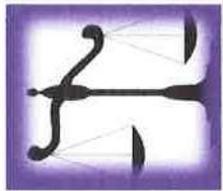
Nr.	Manuf.	Model	Serial Nr.	Location	Cal. Weight/ Procedure	Readability ±mg	Pre-Service Reading	Post-Service Reading	Repeatability ±mg	Condition or Not / Serviced
1	METTLER	HB43	119513375	LAB	20 g / B	1	1.000 / 5.001 9.999 / 39.999	1.000 / 5.000 20.000 / 40.000	1	GOOD SC EXT
2	METTLER	AE100	K17105	LAB	100 g / C	0.1	0.0999 / 1.0000 9.9999 / 49.9999 100.0001	0.1000 / 1.0000 10.0000 / 50.0000 100.0000	0.1	GOOD SC INT

Notes: Condition "good" means that the unit meets Total SP's and manufacturer's tolerances for repeatability and readability in the environment found unless otherwise noted. "INT" means internal weight is used for calibration, "EXT" means external weight is used for calibration; "SC" means unit is self calibrating, and "SE" means unit is calibrated by means of manually setting the calibration potentiometer. Balance calibrations and balance internal weights, if any, are checked against technician's test weights of TOTAL SP LLC. Test weights are calibrated annually against the primary standards of TOTAL SP LLC Set No. 4000011832, which have been certified by Henry Troemner, LLC through Certificate No. 220791037 dated 4-OCTOBER 2024 and expires 4-OCTOBER 2025. This Certification is directly traceable to the National Standards of the National Institute of Standards and Technology through NIST Test No. 822-275872-11. Traceability documents are on file in the offices of TOTAL SP LLC and are available upon request. Calibrations comply with ANSI-NCSL Z 540-1-1994, MIL-STD-45662A and ISO 10012-1 specifications regarding calibration service and procedures.

Marian E. Bma, Pres.

September 16, 2025
Date

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CALIBRATION REPORT

DATE OF SERVICE: September 15, 2025
 NEXT CALIBRATION DUE DATE: September 30, 2026

CENTER TOWNSHIP
 ELKHORN TREATMENT PLANT
 ATTN: LANCE ELIAS
 996 BISKUP LANE
 MONACA PA 15061

TEMPERATURE: 25.7 °C
 RELATIVE HUMIDITY: 57.8 %

Nr.	ID	Model Nr	Serial Nr.	Location	Cal. Procedure	Service Reading	Total SP Reading	Correction Factor	In Tolerance or Not / Serviced
1	THERMO INCUBATOR THERMOMETER	ERTCO 2020	268394	LAB	TO-02	20.5 °C	20.4 °C	-0.1 °C	IN TOLERANCE
2	HEATING BLOCK THERMOMETER	DRB200	11060C0159	LAB	TO-02	LEFT 120 °C	119.0 °C	-1.0 °C	IN TOLERANCE
						RIGHT 120 °C	118.8 °C	-1.8 °C	
						LEFT 150 °C	149.5 °C	-0.5 °C	
						RIGHT 150 °C	151.3 °C	+1.3 °C	
3	HEATING BLOCK THERMOMETER	DR104115	4133	LAB	TO-02	NOT SERVICED			
4	KENMORE REFRIGERATOR THERMOMETER	ERTCO	23195	LAB	TO-02	5.0 °C	5.1 °C	+0.1 °C	IN TOLERANCE
5	QUINCY OVEN THERMOMETER	30	68N010556 8221	LAB	TO-02	104 °C	104.0 °C	±0.0 °C	IN TOLERANCE
6	MUFFLE FURNACE THERMOMETER	126	96N10003	LAB	TO-02	551 °C	549.9 °C	-1.1 °C	IN TOLERANCE
7	VWR THERMOMETER		201824	LAB	TO-02	27 °C	26.3 °C	-0.7 °C	IN TOLERANCE
8	WATER BATH	TSCOL19	300524393 1921	LAB	TO-02	35 °C	35.1 °C	+0.1 °C	IN TOLERANCE
						44.5 °C	44.6 °C	+0.1 °C	IN TOLERANCE
9	THERMOMETER		1921	LAB	TO-02	35 °C	35.1 °C	+0.1 °C	IN TOLERANCE
						44.5 °C	44.6 °C	+0.1 °C	IN TOLERANCE

CALIBRATION INSTRUMENT(S): FLUKE ASSETS #53760403MV, SOP #TO-02. CALIBRATION INFORMATION: CALIBRATED 23 DECEMBER 2024, EXPIRES 23 DECEMBER 2025. CERTIFICATE #937791. CALIBRATION PERFORMED IS TO THE MANUFACTURERS SPECIFICATIONS FOLLOWING DOCUMENTED PROCEDURE, USING N.I.S.T. TRACEABLE EQUIPMENT IN ACCORDANCE WITH ANSI-NCSL Z 540-1-1994, MIL STANDARDS 45662A AND ISO 10012-1. COLLECTIVE UNCERTAINTY OF THE CALIBRATION PROCEDURES ARE DECLARED AT A 95% CONFIDENCE LEVEL. UNCERTAINTY RATIO IS NOMINALLY FOUR TO ONE UNLESS OTHERWISE NOTED. TOTAL SP LLC WILL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OF THIS INSTRUMENT.

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September 16, 2025
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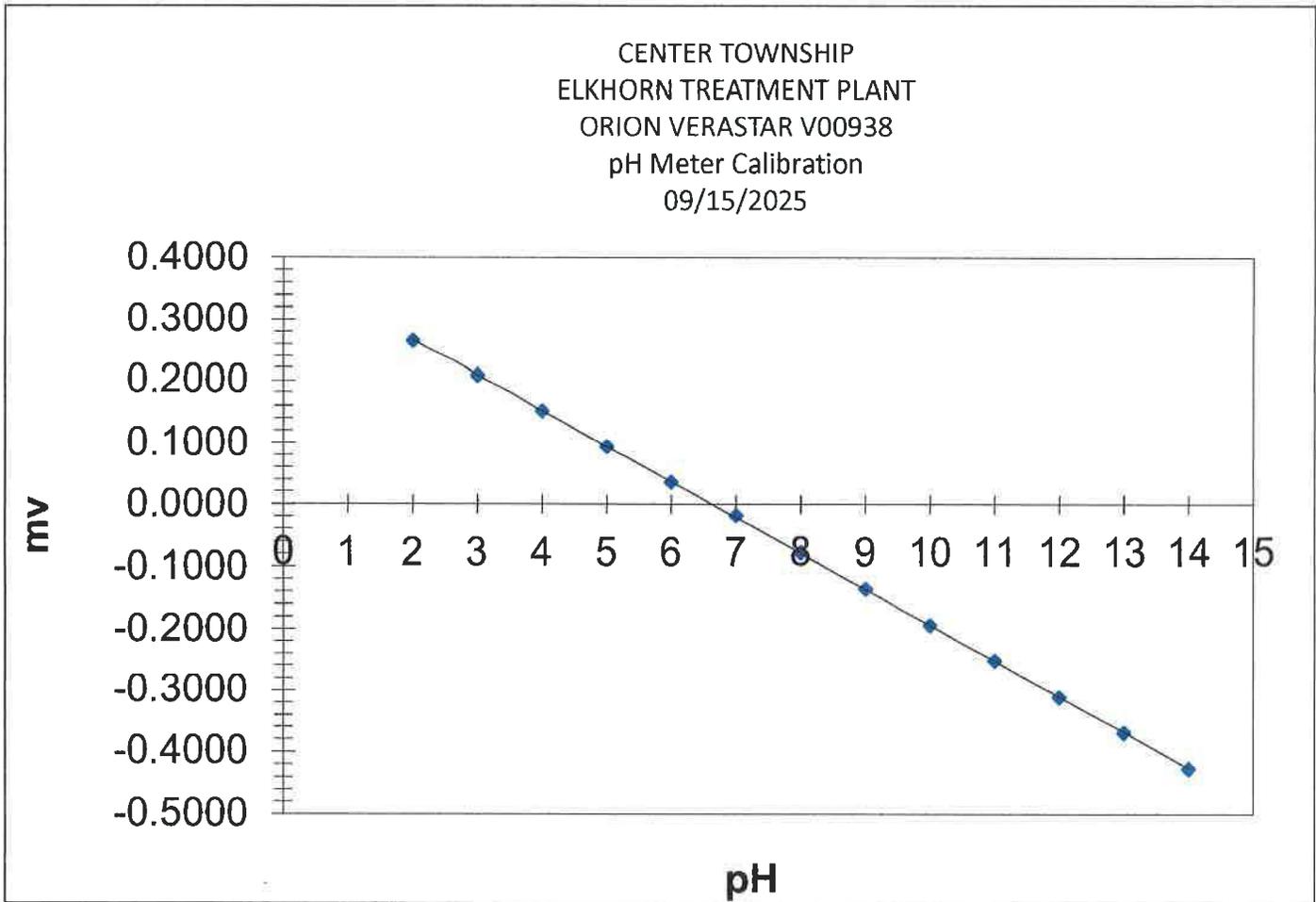
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 Phone (724) 825-6872 or email:
 totalsp22@gmail.com

CALIBRATION REPORT

DATE OF SERVICE: September 15, 2025

**NEXT CALIBRATION DUE DATE:
 September 30, 2026**

CENTER TOWNSHIP
 ELKHORN TREATMENT PLANT
 ATTN: LANCE ELIAS
 996 BISKUP LANE
 MONACA PA 15061



ZERO CROSSING = 6.63

CALIBRATION INSTRUMENT(S): REED R5800 ASSET #201090017726, SOP #PH-01, CALIBRATION INFORMATION: CALIBRATED 23 DECEMBER 2024, EXPIRES 23 DECEMBER 2025, CERTIFICATE #937795. CALIBRATION PERFORMED IS TO THE MANUFACTURERS SPECIFICATIONS FOLLOWING DOCUMENTED PROCEDURE, USING N.I.S.T. TRACEABLE EQUIPMENT IN ACCORDANCE WITH ANSI-NCSL Z 540-1-1994, MIL STANDARDS 45662A AND ISO 10012-1. COLLECTIVE UNCERTAINTY OF THE CALIBRATION PROCEDURES ARE DECLARED AT A 95% CONFIDENCE LEVEL. UNCERTAINTY RATIO IS NOMINALLY FOUR TO ONE UNLESS OTHERWISE NOTED. TOTAL SP LLC WILL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OF THIS INSTRUMENT.

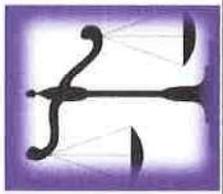
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September 16, 2025

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DATE OF SERVICE: September 15, 2025

NEXT CALIBRATION DUE DATE: September 30, 2026

CENTER TOWNSHIP
ELKHORN TREATMENT PLANT
ATTN: LANCE ELIAS
996 BISKUP LANE
MONACA PA 15061

TEMPERATURE: 25.7 °C

RELATIVE HUMIDITY: 57.8 %

Nr.	ID	Model	Serial Nr	Set Point	Total SP Reading	Standard Deviation	% Standard Deviation	In Tolerance or Not / Serviced
1	HACH SPECTROPHOTOMETER	DR6000	1644742					
	Absorbance Check			546.1 nm	0.529 abs	0.000	0.00 %	IN TOLERANCE
	Stray Light Check			340 nm	0.000 abs	0.000	0.00 %	IN TOLERANCE
	Wavelength Check			656.1 nm	656 nm	0.071	0.01 %	IN TOLERANCE
	Drift Check			546.1 nm	0.0000 to 0.0006 ABS	0.0000	0.00 %	IN TOLERANCE
	Noise Check			546.1 nm	0.000 abs	0.000	0.00 %	IN TOLERANCE

CALIBRATION INSTRUMENT(S): AZZOTA FILTER SET Q808. CALIBRATION INFORMATION: CALIBRATED 20 OCTOBER 2023. CERTIFICATE #A21121-06. CALIBRATION PERFORMED IS TO THE MANUFACTURERS SPECIFICATIONS FOLLOWING DOCUMENTED PROCEDURE, USING N.I.S.T. TRACEABLE EQUIPMENT IN ACCORDANCE WITH ANSI-NCSL Z 540-1-1994, ML STANDARDS 45662A AND ISO 10012-1. COLLECTIVE UNCERTAINTY OF THE CALIBRATION PROCEDURES ARE DECLARED AT A 95% CONFIDENCE LEVEL. UNCERTAINTY RATIO IS NOMINALLY FOUR TO ONE UNLESS OTHERWISE NOTED. TOTAL SP LLC WILL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OF THIS INSTRUMENT.

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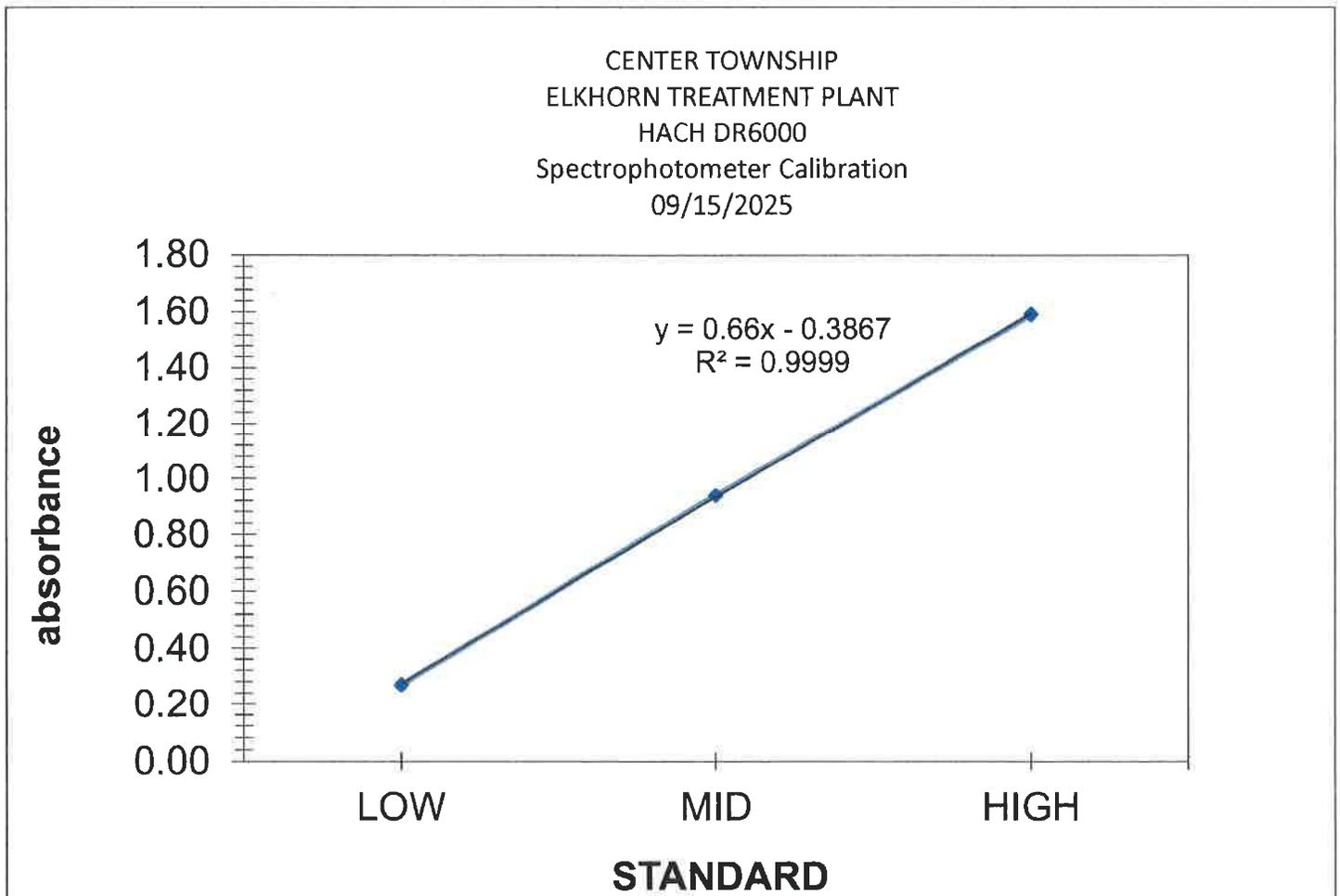
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CALIBRATION REPORT

DATE OF SERVICE: September 15, 2025
NEXT CALIBRATION DUE DATE: September 30, 2026

CENTER TOWNSHIP
 ELKHORN TREATMENT PLANT
 ATTN: LANCE ELIAS
 996 BISKUP LANE
 MONACA PA 15061

TEMPERATURE: 25.7 °C
 RELATIVE HUMIDITY: 57.8 %



SLOPE = 0.9999

CALIBRATION INSTRUMENT(S): HACH STANDARDS KIT #2635300, CALIBRATION INFORMATION: CALIBRATED DECEMBER 2023, EXPIRES DECEMBER 2025. CALIBRATION PERFORMED IS TO THE MANUFACTURERS SPECIFICATIONS FOLLOWING DOCUMENTED PROCEDURE, USING N.I.S.T. TRACEABLE EQUIPMENT IN ACCORDANCE WITH ANSI-NCSL Z 540-1-1994, MIL STANDARDS 45662A AND ISO 10012-1. COLLECTIVE UNCERTAINTY OF THE CALIBRATION PROCEDURES ARE DECLARED AT A 95% CONFIDENCE LEVEL. UNCERTAINTY RATIO IS NOMINALLY FOUR TO ONE UNLESS OTHERWISE NOTED. TOTAL SP LLC WILL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OF THIS INSTRUMENT.

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September 16, 2025

Date

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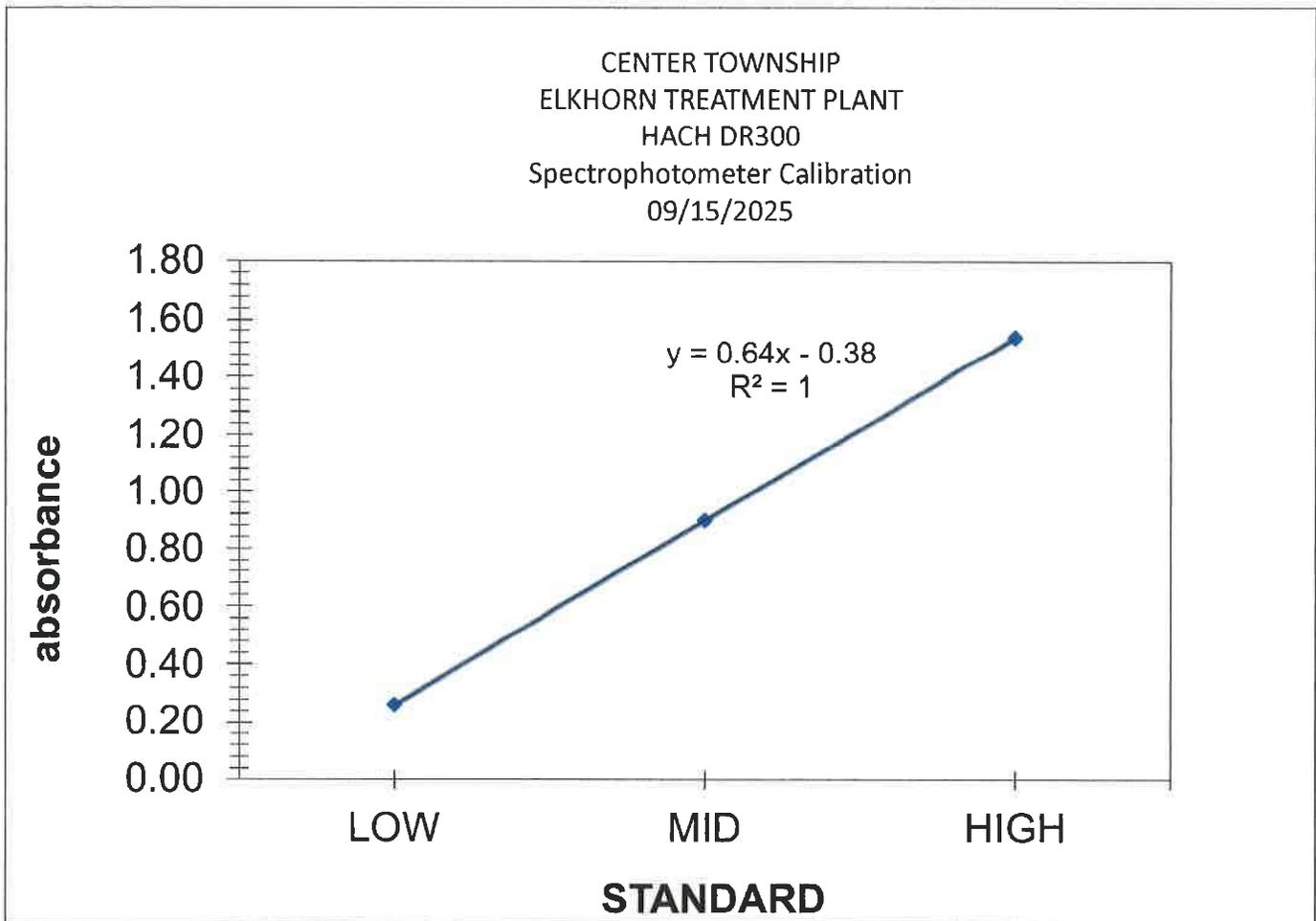
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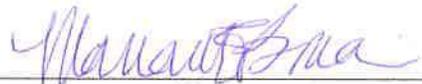
CENTER TOWNSHIP
 ELKHORN TREATMENT PLANT
 ATTN: LANCE ELIAS
 996 BISKUP LANE
 MONACA PA 15061

TEMPERATURE: 25.7 °C
 RELATIVE HUMIDITY: 57.8 %



SLOPE = 1.0000

CALIBRATION INSTRUMENT(S): HACH STANDARDS KIT #2635300, CALIBRATION INFORMATION: CALIBRATED DECEMBER 2023, EXPIRES DECEMBER 2025. CALIBRATION PERFORMED IS TO THE MANUFACTURERS SPECIFICATIONS FOLLOWING DOCUMENTED PROCEDURE, USING N.I.S.T. TRACEABLE EQUIPMENT IN ACCORDANCE WITH ANSI-NCSL Z 540-1-1994, MIL STANDARDS 45662A AND ISO 10012-1. COLLECTIVE UNCERTAINTY OF THE CALIBRATION PROCEDURES ARE DECLARED AT A 95% CONFIDENCE LEVEL. UNCERTAINTY RATIO IS NOMINALLY FOUR TO ONE UNLESS OTHERWISE NOTED. TOTAL SP LLC WILL NOT BE HELD RESPONSIBLE FOR DAMAGES RESULTING FROM THE USE OF THIS INSTRUMENT.

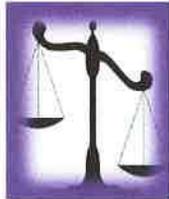


 Marian E Brna, Pres.

September 16, 2025

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EIN 47-2835493

INVOICE

INVOICE NO: 25-3035

Date: 30 September 2025

INVOICE TO:

PAID

SHIP TO:

CENTER TOWNSHIP SANITARY AUTHORITY
ATTN: ACCOUNTS PAYABLE
224 CENTER GRANGE ROAD
ALIQUIPPA PA 15001

CENTER TOWNSHIP
ELKHORN TREATMENT PLANT
ATTN: LANCE ELIAS
996 BISKUP LANE
MONACA PA 15061

OCT 14 2025

BY: BAM
CK# C.C.

TECHNICIAN	P.O. NUMBER	DATE SERVICED	V.P.A. / CAL	VENDOR NO.	TERMS	PAST DUE CHARGES
R STAUFFER	VERBAL	09/15/2025	1--10 / YES		Net 30 Days	10% PER MONTH

Service & calibration of the following balances:

ITEM:	MANUF.	MODEL	SERIAL NR	LOCATION	QUANTITY	UNIT PRICE	AMOUNT
1	METTLER	HB43	119513375	LAB	1	\$85.00	\$85.00
2	METTLER	AE100	K17105	LAB	1	\$110.00	\$110.00
3	THERMO INCUBATOR THERMOMETER	ERTCO 2020	268394	LAB	1	\$35.00	\$35.00
4	HEATING BLOCK THERMOMETER	DRB200	11060C0159	LAB	1	\$35.00	\$35.00
5	HEATING BLOCK THERMOMETER	DR104115	4133	LAB	N/S	\$35.00	\$0.00
6	KENMORE REFRIGERATOR THERMOMETER	ERTCO	23195	LAB	1	\$35.00	\$35.00
7	QUINCY OVEN THERMOMETER	30	68N010556	LAB	1	\$35.00	\$35.00
8	MUFFLE FURNACE THERMOMETER	126	96N10003	LAB	1	\$35.00	\$35.00
9	VWR THERMOMETER		201824	LAB	1	\$35.00	\$35.00
10	WATER BATH	TSCOL19	300524393	LAB	1	\$35.00	\$35.00
11	THERMOMETER		1921	LAB	1	\$35.00	\$35.00
12	THERMO ORION pH METER	VERASTAR	V00938	LAB	1	\$60.00	\$60.00
13	HACH SPECTROPHOTOMETER	DR6000	1720127	LAB	1	\$85.00	\$85.00
14	HACH SPECTROPHOTOMETER	DR300	2111013000535	LAB	1	\$60.00	\$60.00

THIS PAGE SUBTOTAL: \$680.00

SALES TAX (NTAX: MUNICIPALITY) EXEMPT

TOTAL DUE: \$680.00

Seller represents that with respect to the production of the articles and/or the performance of the services covered by the this invoice, it has fully complied with section 12(A) of the Fair Labor Standards Act of 1938 as amended. Seller also assures that the provisions of 10CFR21 shall apply.

We welcome American Express®, MasterCard, Visa, Purchase Orders, COD Checks, and ACH Payments

Make checks payable to: TOTAL SP LLC - 22 CREST DRIVE MONONGAHELA PA 15063-1081

If you have any questions concerning this invoice, please call: Marian Brna at (724) 825-6872
or email us at totalsp22@gmail.com

PAGE 1 OF 1

*Service, Sales, Calibration & Repair of Balances & Scales from New York to California
More than 55 years of laboratory experience*

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APPENDIX C

TAP SUMMARY

Center Township Sanitary Authority Sewer Tap Summary

Development	Actual 2018	Actual 2019	Actual 2020	Actual 2021	Actual 2022	Actual 2023	Actual 2024	Actual 2025	2026	2027	Estimated 2028	2029	2030	Remaining	Total Estimated
Heritage Valley - Glade Bluffs	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Village at Riverside - NVR/Ryan Homes	5	29	21	24	0	0	0	0	0	0	0	0	0	0	79
Allegheny Health Network Cancer Center	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Beaver Valley Mall Outparcels	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Western PA Surgery Center	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Eagles Landing at Mateer Farms	125	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Hilton Garden Inn	52	0	0	0	0	0	0	0	0	0	0	0	0	0	52
CTWA Temporary Water Treatment Facility Sludge Discharge	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Primanti's Restaurant	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
BASF Corporation	0	0	0	7	4	0	0	0	0	0	0	0	0	0	11
Get Go #3016	0	0	0	3	0	2	0	0	0	0	0	0	0	0	5
Firehouse Subs	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Chipotle	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Planet Fitness	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Brodhead Apartments - Building 1	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23
Highland Meadows Phase 1	0	3	6	5	4	6	1	0	0	0	0	0	0	0	25
Highland Meadows Phase 2	0	0	0	0	0	0	7	10	5	4	0	0	0	9	26
Highland Meadows Phase 3	0	0	0	0	0	0	0	0	0	0	13	12	0	25	25
Lakeview Farms Phase 5	0	0	0	3	4	33	36	7	0	0	0	0	0	0	83
Joe Hall Apartments	0	0	0	0	0	0	0	4	10	10	10	8	0	38	42
Glade Bluffs Apartments	0	0	0	0	0	0	0	0	0	182	0	0	0	182	182
Glade Bluffs Phase III	0	0	0	0	0	0	0	0	0	25	25	0	0	50	50
Lincoln Learning Center	0	0	0	0	0	0	0	0	0	10	0	0	0	10	10
Old Glass Dump Property	0	0	0	0	0	0	0	0	0	0	10	0	0	10	10
Vacant 3 Acre Parcel	0	0	0	0	0	0	0	0	0	0	5	0	0	5	5
Medical Clinic	0	0	0	0	0	0	0	0	22	0	0	0	0	22	22
Valley Village	0	0	0	0	0	0	0	0	0	30	30	30	0	90	90
Miscellaneous	7	11	12	9	14	8	5	7	15	15	15	15	15	75	148
Total	258	76	39	51	26	63	72	28	52	276	108	65	15	516	1129

Completed / Built-Out.

Construction in Progress.

Planning Phase.

APPENDIX D

MAINTENANCE SUMMARY



Center Township Sanitary Authority

2025 CTSA Maintenance & Camera Report

- Inspections completed on all authority vehicles.
- Monthly pest control.
- Yearly weed control at WWTP.
- All calibrations completed for meters.
- Yearly PM's on all generators completed by Penn Power.

Collections System

COMPANY	DATE	ITEM	NOTE
Halama	1/10/2025	Relay on pump control panel at Markey's Run inop. Replaced with new relay.	Replaced – \$225
Penn Power	3/31/2025	Repair block heater on Franklin L/S generator	Repair - \$730
Penn Power	1/3/2025	Replaced linear actuator on generator. Spruce Drive L/S	Replaced - \$2,939
Pumpman	2/10/2025	Replaced time delay relay on both pumps. Walnut Grove L/S	Replaced - \$1,325
Pumpman	2/10/2025	Pulled pump at Biggins L/S and brought to shop for repair of seal and shaft.	Eval - \$4,981
Pumpman	2/24/2025	Installed new Sulzer pump at New College L/S.	Replaced - \$2,144
Pumpman	3/10/2025	Replace vacuum tubes in Biggins L/S wet well.	Replaced - \$3,117
Penn Power	4/1/2025	Replaced block heater on Franklin L/S generator	Replaced - \$730
Pumpman	4/14/2025	Repair wet well pump at Franklin L/S. Parts \$7,214	Halama \$10,539
Stefanik's	3/13/2025	Install manhole on Center Grange Road.	Install - \$12,131
Stefanik's	4/1/2025	Repair sewer lateral on Harvard Drive under the road.	Repair - \$8,408
Stefanik's	4/1/2025	Repair broken forced main off of Logstown L/S. Emergency	Repair - \$13,051
Stefanik's	4/14/2025	Emergency repair of Biggins lift station. Replace 4" ductile pipe from pumps to 4' outside of station.	Repair - \$19,594

Stefanik's	4/29/2025	Install backwater valve at Chapel Pool.	Install - \$5,965
Stefanik's	5/1/2025	Repair forced main on Biggins L/S	Repair - \$4,024
Pumpman	5/2/2025	Replaced seal on pump #2	Repair - \$2,810
Tepco	5/12/2025	Replace E-one pump at Gardenview booster pump station.	Replace - \$4,040
CTSA	6/26/2026	Repair gravity line on Chapel Rd. Hole in line from storm sewer.	Repair 235.00
Stefanik's	7/18/2025	After hours repair of Logstown force main on Chapel Road.	Repair - \$20,778
Pumpman	8/25/2025	New College L/S. Checked transducer and determined in need of repair. Installed new Sultzzer pump.	Repair - \$2,700
Pumpman	11/18/2025	Replace starter contactors due to lightning strike.	Replace - \$888

Manhole Repairs / Replacements

MANHOLE #		ISSUE	SOLUTION
MR 455A	UTL		Located and inspected
MR 425B	UTL		Located and inspected
MR 462A	UTL		Located and inspected
MR 1078	CNO		Opened and inspected
MR 483E	UTL		Located and inspected
ER 2551	CNO		Opened and inspected
ER 2546	CNO		Opened and inspected
ER 2550	UTL		Located and inspected
ER 2454	CNO		Opened and inspected
ER 2542	CNO		Opened and inspected
LR 1683	CNO		Opened and inspected
MR 572	CNO		Opened and inspected
LR 1682	CNO		Opened and inspected
ER 2643	CNO		Opened and inspected
ER 2530	CNO		Opened and inspected
ER 2495	CNO		Opened and inspected
ER 2500	CNO		Opened and inspected
ER 2509	CNO		Opened and inspected
MR 561	Repair Required		Repaired and inspected
LR 1646	CNO		Opened and inspected
MR 552	CNO		Opened and inspected
MR 1156	CNO		Opened and inspected

MR 555	CNO	Opened and inspected
MR 551	CNO	Opened and inspected
MR 703	Repair Required	Repaired and inspected
MR 559	Repair Required	Repaired and inspected
MR 560	Repair Required	Repaired and inspected

Plant & Associated Equipment

COMPANY	DATE	ITEM	NOTE
CTSA	3/20/2025	Replace motor on #4 waste pump	Repair - \$816
CTSA	4/20/2025	Replace heater in the Laboratory	Replace – \$160
Lanco Controls	2/17/2025	Updated firmware for Scada / PSA visit.	Repair - \$1,685
Halama Electric	3/24/2025	Troubleshoot #2 waste pump.	Repair - \$691
Lanco Controls	5/9/2025	Misc yearly Scada tasks.	Repair - \$2,479
Halama Electric	6/2/2025	Install new heater in Lab & Misc.	Repair - \$1,293
Halama Electric	11/13/2025	Spruce Lift station. Replaced #2 motor starter contacts.	Repair - \$935

Sanitary Sewer Lines High Pressure Cleaned

COMPANY	DATE	LOCATION	LENGTH
Tri - State	1/10/2025	Lincoln Drive	800'
Tri - State	7/15/2025	Stone Quarry Road	500'
Tri – State	7/28/2025	Grim Street	700'
Tri – State	7/30/2025	Monaca Road	800'
Tri - State	9/15/2025	Grim Street	700'
Tri – State	11/8/2025	Markey's Run L/S & Old Brodhead.	200'

Sanitary Wet Wells / Tanks Vacuumed Cleaned / Manholes Flushed

COMPANY	DATE	LOCATION	ITEM
Tri – State	5/10/2025	Gardenview	Wet Well
Tri – State	5/11/2025	Gardenview	Wet Well
Tri - State	5/12/2025	Gardenview	Wet Well
Tri - State	7/30/2025	Stoney Ridge / Markey Run	Wet Well
Tri – State	12/19/2025	Markey's Run / New College	Wet Well

Residential Plunge of Trap & Sewer Line Inspections

COMPANY	DATE	LOCATION	ITEM
CTSA	2/5/2025	136 West Shaffer Road	Plunge
CTSA	3/1/2025	248 West Shaffer Road	Inspection
CTSA	3/5/2025	1278 Chapel Road	Inspection
CTSA	3/10/2025	528 Cornell Drive	Inspection
CTSA	3/11/2025	143 Winter Street	Inspection

CTSA	3/12/2025	200 Biskup Lane	Inspection
CTSA	4/8/2025	110 Center Grange Road Rear	Inspection
CTSA	4/14/2025	3124 Main Street	Inspection
CTSA	4/21/2025	996 Monaca Road	Inspection
CTSA	5/8/2025	1261 Chapel Road	Inspection
CTSA	5/14/2025	112 Heather Drive	Inspection
CTSA	5/29/2025	138 Terry Lane	Inspection
CTSA	6/18/2025	167 Geneva Drive	Inspection
CTSA	6/20/2025	165 Center Grange Road	Inspection
CTSA	6/23/2025	143 Pleasantview Drive	Inspection
CTSA	7/2/2025	230 Center Grange Road	Inspection
CTSA	7/22/2025	126 Gross Drive	Inspection
CTSA	8/1/2025	150 Ridge Road	Inspection
CTSA	8/27/2025	102 Amy Drive	Inspection
CTSA	9/10/2025	117 Heather Drive	Inspection
CTSA	9/5/2025	126 Bainbridge Drive	Inspection
CTSA	9/14/2025	109 Bainbridge Drive	Inspection
CTSA	9/21/2025	137 Gourley Lane	Inspection
CTSA	8/11/2025	395 Center Grange Road	Plunge
CTSA	11/5/2025	3369 Brodhead Road	Inspection
CTSA	11/19/2025	132 Cardiff Drive	Plunge

Camera Inspection on Sanitary Sewer Lines

COMPANY	DATE	LOCATION	LENGTH
Robinson Pipe	2/14/2025	118 Bainbridge Drive	200'
Tri – State	4/2/2025	Baker Road	600'

APPENDIX E

SLUDGE MANAGEMENT INVENTORY REPORT

