

30 March 2026

Ms. Brenda Fruchtl, PG

Pennsylvania Department of Environmental Protection
Clean Water Program
Southcentral Regional Office Building
909 Elmerton Avenue
Harrisburg, PA 17110-8200



**Re: 2025 Annual Operations Report
Former York Naval Ordnance Plant, York, Pennsylvania
Harley-Davidson NPDES Permit No. PA 0085677**

Dear Brenda:

On behalf of Harley-Davidson Motor Company Operations, Inc. (Harley-Davidson), Hydro-Terra Group (HTG) is providing you with a copy of the attached report entitled "Groundwater Extraction and Treatment System Annual Operations Report for the Period January 1, 2025, through December 31, 2025."

Please contact me with any questions or comments.

Respectfully submitted,

HYDRO-TERRA GROUP



Emily M. Wade
Senior Geologist/Project Manager

Attachment

cc: James Rea – PADEP (w/ enclosure)
Ignazio Sabella - Harley-Davidson (w/ electronic copy)
Timothy Scripko – Harley-Davidson (w/ electronic copy)
Ralph Golia – AMO Environmental Decisions (w/ electronic copy)
Hamid Rafiee – USACE (w/ electronic copy)
Kristin Koroncai – USEPA (w/ electronic copy)
Eric Ricci – NorthPoint Development (w/ electronic copy)
Chantelle Jackson-Gaines - NorthPoint Development (w/ electronic copy)
Todd Eaby – Susquehanna River Basin Commission (w/ electronic copy)
Chris O'Neil – Groundwater Sciences Corporation (w/ electronic copy)
Rodney Myers – HTG (w/enclosure)



**GROUNDWATER EXTRACTION
AND TREATMENT SYSTEM
ANNUAL OPERATIONS REPORT
FOR THE PERIOD
JANUARY 1 THROUGH DECEMBER 31, 2025
FORMER YORK NAVAL ORDNANCE PLANT**

Prepared for:

former York Naval Ordnance Plant Remediation Team

March 2026

**Groundwater Extraction and Treatment System
Annual Operations Report
for the Period
January 1 through December 31, 2025
Former York Naval Ordnance Plant**

Prepared for:

former York Naval Ordnance Plant Remediation Team

By:

Hydro-Terra Group
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March 2026

Respectfully submitted,



Emily M. Wade
Senior Geologist/Project Manager



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LIST OF ACRONYMS

1,1-DCE	- 1,1-dichloroethene
Act 2	- Land Recycling and Environmental Remediation Standards Act
AWQC	- applicable water quality criteria
cfm	- cubic feet per minute
cis-1,2-DCE	- cis-1,2-dichloroethene
DMR	- Discharge Monitoring Report
EPA	- United States Environmental Protection Agency
fYNOP	- former York Naval Ordnance Plant
GAC	- granular-activated carbon
GIS	- Global Information Services
gpd	- gallons per day
gpm	- gallons per minute
GSC	- Groundwater Sciences Corporation
GWTS	- groundwater extraction and treatment system
Harley-Davidson	- Harley-Davidson Motor Company Operations, Inc.
HDPE	- high density polyethylene
HTG	- Hydro-Terra Group
lbs/day	- pounds per day
MMRP	- Military Munitions Response Program
NB4	- North Building 4
NPBA	- Northeast Property Boundary Area
NPDES	- National Pollutant Discharge Elimination System
NP York	- NP York 58, LLC
O&M	- operation and maintenance
PADEP	- Pennsylvania Department of Environmental Protection
PCE	- tetrachloroethene
PLC	- programmable logic controller
ppm	- parts per million
PRCP	- Post-Remediation Care Plan
PTA	- packed tower aerator
SPBA	- Southern Property Boundary Area
SRBC	- Susquehanna River Basin Commission
TCA	- 1,1,1-trichloroethane
TCE	- trichloroethene
µg/L	- micrograms per liter
VFD	- variable frequency drive
VOCs	- volatile organic compounds
WPL	- West Parking Lot

EXECUTIVE SUMMARY

This report presents a summary of the groundwater extraction and treatment system (GWTS) operations and maintenance (O&M) and groundwater extraction well monitoring during 2025 at the former York Naval Ordnance Plant (fYNOP). The fYNOP GWTS is located at the Harley-Davidson Motor Company Operations, Inc. (Harley-Davidson) facility in York, Pennsylvania. The fYNOP GWTS has been in operation for over 35 years (since November 1990) and consists of collection wells in two areas (the West Parking Lot (WPL) and Southern Property Boundary Area (SPBA) of fYNOP.

During 2025, three active collection wells (CW-21, CW-22, and CW-23) were operational in the SPBA and five collection wells (CW-9, CW-13, CW-15A, CW-17, and CW-20) in the WPL were off, but remain functional.

Approximately one and three tenths (1.3) pounds of volatile organic compounds (VOCs) were removed by the GWTS during 2025. The total amount of groundwater extracted during 2025 was approximately 2.8 million gallons. Cumulatively, approximately 49,132 pounds of VOCs and 3.89 billion gallons of groundwater have been removed by the GWTS since 1990.

Monthly, quarterly, and annual sampling data were collected in 2025, and site-wide groundwater elevations were collected in September 2025. These data, along with laboratory analytical data, will be presented in the Annual Post-Remediation Care Plan Report for 2025 (to be prepared by Groundwater Sciences Corporation [GSC]).

1.0 INTRODUCTION

This report presents a summary of the operating record for the fYNOP GWTS and includes collection well water quality data obtained during 2025. The fYNOP facility consists of the Harley-Davidson York facility and the West Campus property (as described below). The fYNOP is located in Springettsbury Township, York County, Pennsylvania, as shown on **Figure 1-1**. This report covers the 12-month period from January 1 through December 31, 2025. Hydro-Terra Group (HTG) operated the GWTS during the reporting period.

Harley-Davidson sold 58 acres of the western portion of the fYNOP in June 2012. NP York 58, LLC (NP York) constructed a 755,000 square-foot warehouse in 2016. The parcel is now addressed as 1445 Eden Road, York, Pennsylvania, and extends from west of the current manufacturing operations through the WPL and is identified as the “West Campus”. The fYNOP retains responsibility for the cleanup of the East and West Campus and maintains an easement agreement with the owners of the West Campus to continue remediation, monitoring, and maintenance activities.

The GWTS consists of a groundwater extraction system, a groundwater treatment plant, and a force main discharge system. Collectively, the fYNOP GWTS was designed to extract and treat groundwater containing VOCs of concern that consist of trichloroethene (TCE), tetrachloroethene (PCE), 1,1,1-trichloroethane (TCA), and their degradation products, including cis-1,2-dichloroethene (cis-1,2-DCE) and 1,1-dichloroethene (1,1-DCE). The extraction wells, conveyance piping, treatment plant, and force main discharge piping locations are shown on **Figure 1-2**.

Operation, monitoring, and maintenance of the SPBA groundwater extraction system is a required engineering control necessary to comply with the approved Post-Remediation Care Plan (PRCP, GSC, 2024a). During 2025, groundwater was extracted from three (3) collection wells (CW-21, CW-22, and CW-23) operating in the SPBA. The SPBA groundwater extraction system operates to capture shallow groundwater containing VOCs and mitigates potential vapor intrusion in off-site inhabited structures along the southeast corner of the property.

According to the approved PRCP, the WPL groundwater extraction system is to remain off while surface water monitoring and data evaluation is conducted. If the results verify continued compliance with applicable water quality criteria (AWQC) in the Codorus Creek under non-pumping conditions, proposed changes to discontinue or modify the frequency of surface water monitoring will be submitted for approval of PADEP and EPA prior to implementation.

According to the results of ongoing surface water monitoring conducted during 2025, the results confirm continued compliance with AWQC in Codorus Creek. Therefore, the WPL system will remain off, but operational, while continued surface water sampling is conducted in accordance with the PRCP.

The SPBA conveyance line was rerouted outside of the military munitions response program (MMRP) cleanup area in May 2025. The conveyance line was moved to the north in the central portion of the east campus (**Figure 1-2**), and a portion of the original SPBA conveyance pipeline was abandoned in place. The MMRP areas were remediated in accordance with the approved cleanup plan (MMRP, EA, 2019). The details of the cleanup will be provided and discussed in a separate Act 2 Final Report for the MMRP areas.

All extracted groundwater is piped to the groundwater treatment building (Building 41A) for processing through a packed tower aerator (PTA) prior to discharge to the Codorus Creek, designated as Outfall No. 003 (see **Figures 1-1** and **1-2**). Operation, monitoring and maintenance of the groundwater treatment system is also a required engineering control necessary to comply with the approved PRCP (GSC, 2024a).

Figure 1-3 presents a schematic flow diagram for the treatment system. A chemical sequestering agent (Redux 525) injection system reduces mineral fouling of the GWTS PTA, effluent discharge pumps, and components. This sequestrant chemical injection system continued to operate throughout 2025. PTA off-gases are treated by a vapor phase, granular-activated carbon (GAC) filter system for removal of VOCs prior to emitting to the atmosphere.

Treated groundwater is collected in a wet well pump station located immediately north of Building 41A and pumped from the wet well through a force main, to Outfall 003 near the confluence of Johnsons Run and Codorus Creek (refer to **Figure 1-2**).

The treatment system operates and discharges under a National Pollutant Discharge Elimination System (NPDES) permit No. PA0085677 issued by PADEP. The permit is effective through November 20, 2024. The GWTS operated in full compliance with the NPDES permit throughout 2025. The permit renewal application was submitted to the PADEP on May 23, 2024. The PADEP requested additional sampling of the GWTS influent and effluent in July 2025. The samples were collected in August 2025, and the data was submitted to the PADEP in September 2025. The application is pending PADEP review.

2.0 GEOLOGY AND HYDROGEOLOGY

Two geologic rock formations underlie the site. Solution-prone (karst) gray carbonate bedrock (limestone and dolostone) underlies the flat lowland (western) portion of the site (i.e. the WPL extraction area). Quartzitic sandstone underlies the more steeply sloping hills or upland area present on the eastern part of the site. The SPBA extraction area lies near a contact between the quartzitic sandstone and limestone geologic formations. Natural groundwater flow direction is generally westward, from the upland area at the eastern part of the site towards Codorus Creek. A detailed discussion of the regional and site geology and hydrogeology is included in the revised report entitled "Supplemental Remedial Investigation Groundwater Report (Part 2)." (GSC, 2018).

3.0 SITE-WIDE GROUNDWATER AND SURFACE WATER MONITORING

Groundwater monitoring was performed in 2025 consistent with the PRCP as follows:

- Measuring depth to water in all available monitoring and observation wells one time.
- Sampling and chemical analysis of groundwater from the collection wells throughout the year (see results summary in **Table A-1 in Appendix A**).
- Sampling and chemical analysis of the GWTS influent from the combined active collection wells throughout the year (see results summary in **Table A-2 in Appendix A**).
- Site-wide groundwater and surface water sampling (onsite and offsite wells, and Codorus Creek) was conducted monthly, quarterly, or annually.

The results of this monitoring will be documented in the Annual Post-Remediation Care Plan Report for 2025.

4.0 GROUNDWATER TREATMENT SYSTEM

4.1 System Description

Collection wells within the WPL groundwater extraction area and the SPBA remove groundwater by means of electric submersible pumps. The pumping water level within each collection well in the WPL is maintained by liquid level probes and control circuitry between the “on” and “off” probes. The pumping water level is controlled by a transducer in the SPBA wells. The groundwater extraction portion of the system consists of eight (8) potentially active wells (CW-9, CW-13, CW-15A, CW-17, CW-20, CW-21, CW-22, and CW-23). The WPL wells were shutdown in 2021, and remained shutdown during 2025. An average of 5.2 gpm is extracted by the SPBA wells. The extracted groundwater is conveyed via underground piping to the treatment system where the dissolved VOCs are removed from the groundwater.

The GWTS is housed in Building 41A. The process flow diagram for the system is presented on **Figure 1-3**. The treatment system consists of a 2,600-gallon equalization tank; a PTA capable of treating up to 400 gallons per minute (gpm) of groundwater; and a 10,000-pound vapor-phase GAC unit for PTA off-gas treatment. Operation of the GWTS was modified from continuous treatment to batch treatment in 2021 when the WPL wells were shutdown. In batch treatment mode the PTA will cycle on and off in response to the equalization tank level. The PTA remains off until the equalization tank fills to a level of 100 inches. Then the influent/transfer pump will activate, once the blower has established adequate airflow, and extracted groundwater will be pumped out of the equalization tank and through the PTA until the tank level reaches a level of 25 inches, then the influent/transfer pump will cycle off, but the blower will continue to run while the tower drains for three minutes before cycling off.

Extracted groundwater is pumped from the equalization tank through the PTA for treatment. Redux 525 sequestering agent is injected into this flow at a rate of approximately 20 parts per million (ppm) to prevent calcium scale deposits on the packing material and effluent pumping system. Simultaneous with the downward flow of contaminated water, a 4,000-cubic-foot-per-minute (cfm) centrifugal blower directs fresh air into the lower section of the tower, and up through the packing material. VOCs present in the influent groundwater are “stripped” from the water, transferred into the air, and then adsorbed to the GAC in the air-phase. The treated groundwater flows by gravity to a wet well (effluent pump station) on the north side of Building 41A. It is then pumped approximately 1,600 feet via an 8-inch underground force main to Outfall No. 003 and discharged to Codorus Creek (see **Figure 1-2**).

Automated monitoring and control of the GWTS are facilitated through a series of control panels, Allen-Bradley programmable logic controllers (PLCs) and patented operator software packages called RS View® and Factory View Talk®. Remote computer terminals monitor collection well pumping rates and treatment processes, and the collection wells may be remotely adjusted. System operational data, recorded in an Excel® database during 2025, are provided in **Appendix B**.

4.2 System Maintenance and Modifications

One preventive maintenance inspection and one general maintenance visit are completed each month when the GWTS is operating. These inspections help maintain effective operation of the system. A summary of O&M data recorded during these visits is included in **Appendix C**.

Inspections include the following:

- Check for system alarms and address as required.
- Inspect control panels for proper conditions and settings.
- Check water conveyance line pressures.
- Check pressure differential across the stripping tower.
- Check piping and pumps for leaks.
- Clean Y-strainers of buildup, etc., as necessary.
- Check and record amperage draw on all motors (quarterly).
- Record flow rates on recovery wells and transfer pump.

The GWTS operated under normal conditions in 2025, except for the following interruptions:

- A brief shutdown occurred on April 3 for annual PTA blower maintenance. The belts were replaced, and the blower was balanced.
- Brief shutdowns occurred on May 3, May 6, May 26, July 6, October 30, and November 29 due to power outages in the SPBA or SPBA radio transmitter communication faults.
- A brief shutdown occurred to tie in the rerouted SPBA conveyance line to the GWTS piping on May 14.
- A shutdown occurred on October 10 for a planned site-wide plant power outage. The GWTS was restarted within 24 hours.
- Brief shutdowns occurred on December 29 and 30 for planned site power outages to prune trees around the site power lines.

Several noteworthy treatment system maintenance, repairs, or modifications were identified and addressed during 2025. A summary is presented below:

- Two GWTS effluent discharge pumps were removed for annual routine inspection, cleaning, and repair. The oil was changed and the terminal blocks were replaced in pump P1 and the oil was changed in pump P2.
- Annual pH meter calibration was completed.
- Annual maintenance was completed to clean the PTA tower windows, remove debris from the PTA sump pit, calibrate the influent pH meter, check PTA tower plumbness, exercise effluent pump valves, and verify that the sequestrant (Redux 525) chemical pump is dosing at 20 ppm.
- Both HMI computers were updated to Windows 11.
- The water level transducer in the wet well was replaced.

4.3 Groundwater Withdrawal and VOC Removal

Table 4-1 presents the recorded monthly and annual groundwater withdrawals and VOC mass removals by the GWTS. A system-wide total of approximately 49,132 pounds of VOCs were removed since the GWTS began operation in November 1990.

The total amount of groundwater extracted during 2025 was approximately 2.78 million gallons (an average of 7,610 gallons per day [gpd] or 5.3 gpm) using individual well flow meters. A graphical comparison of groundwater volumes treated is presented on **Figure 4-1**. The 2025 extraction volumes are slightly lower than the previous year (2024) when the flows were approximately 3.29 million gallons (or 8,977 gpd, or 6 gpm). The primary reason for the slight decrease in treatment systems flows during 2025 is due to drought conditions during the spring, summer and fall. The five WPL collection wells were activated for a short duration in May 2025 to test the functionality of the WPL extraction system. The GWTS treated approximately 69,000 gallons from the WPL wells and ran in continuous operation mode during the function testing in May 2025.

Quarterly PTA influent (untreated) analyses (shown in **Table A-2, Appendix A**), along with the measured extraction volumes, are used to calculate the mass of VOCs removed from site groundwater during the reporting period. Quarterly influent samples were collected in January, April, July, and October 2025. These samples represent combined flow-weighted sampling of the three active collection wells in the SPBA (CW-21, CW-22, and CW-23).

The untreated influent samples contained total VOCs ranging in concentrations from 52 micrograms per liter ($\mu\text{g/L}$) to 61 $\mu\text{g/L}$ during 2025. Using these data, the total estimated mass of VOCs removed from January through December 2025 was approximately 1.3 pounds. The calculated VOC mass removal rates (pounds per day [lbs/day]) extracted by the GWTS for the last five calendar years are shown below:

- 2025 – 0.004 lbs/day
- 2024 – 0.004 lbs/day
- 2023 – 0.005 lbs/day
- 2022 – 0.005 lbs/day
- 2021 Average – 1.1 lbs/day
 - 2021 January through August - 1.7 lbs/day
 - 2021 September through December - 0.007 lbs/day

The predominant VOCs identified in the PTA influent samples have historically included TCE, TCA, and PCE (see **Figure 4-2**). Levels of influent total VOCs were somewhat stable over the last few years. The predominant influent VOC that was treated during 2025 was PCE, with traces of TCE (see **Figure 4-2**).

4.4 Groundwater System Inspection and Reporting

Groundwater system compliance reporting includes routine monthly and quarterly NPDES permit required Discharge Monitoring Reports (DMRs), and an annual operations report for the GWTS. Additionally, PADEP requires an annual Chapter 110 (formerly Act 220) groundwater withdrawal report for this facility.

In accordance with the NPDES permit, the PTA effluent was sampled and reported quarterly in 2025. Analytical testing results for the 2025 PTA effluent and influent sampling is presented in **Table A-2 (Appendix A)**. The treatment system effluent has maintained non-detectable concentrations of target VOCs during this reporting period.

The Susquehanna River Basin Commission (SRBC) requires submittal of quarterly groundwater withdrawal reports regarding non-consumptive groundwater withdrawals under SRBC General Permit (GP-01) [was previously under docket No. 19880901-1]. On January 23, 2024, the SRBC issued approval of General Permit No. GP-01-20240101 to Harley-Davidson for the GWTS withdrawals. The GP-01 permit applies only to groundwater withdrawals associated with remediation systems having state or federal environmental regulatory agency oversight; is valid for groundwater discharges averaging up to 0.576 million gpd; and expires on December 31, 2050.

5.0 WEST PARKING LOT GROUNDWATER EXTRACTION SYSTEM

Four (4) groundwater collection wells (CW-9, CW-13, CW-17, and CW-20) are in the WPL Area of the West Campus. One additional collection well (CW-15A) is in a trailer parking area of the West Campus (formerly NB4 area).

Groundwater extraction from the five WPL wells is conducted via underground piping to the GWTS in Building 41A. The wells are individually piped to the GWTS so that flow control, flow measurements, and water samples may be obtained for each well at this central location. Water is piped the following distances from the wells to the treatment plant: CW-20 (1,600 feet), CW-9 (1,400 feet), CW-13 (890 feet), CW-15A (310 feet), and CW-17 (590 feet).

The WPL wells were shutdown on August 31, 2021, but will remain functional.

5.1 Maintenance

The WPL wells were briefly cycled on in May 2025 to ensure operation and CW-17 was briefly cycled on in November 2025 to fill up the EQ tank to test effluent pumps. All the pumps and the system were functioning as designed.

5.2 Groundwater Chemistry

Groundwater samples were not collected from the WPL collection wells in 2025.

6.0 SPBA GROUNDWATER EXTRACTION SYSTEM

The SPBA groundwater extraction system captures shallow groundwater containing PCE and TCE from the fine-grained residual soil and bedrock along the eastern-most portion of the south FYNOP property boundary. Three SPBA collection wells (CW-21, CW-22, CW-23) were installed, and the SPBA collection wells pumping started on October 31, 2018. Following startup, an effectiveness report concluded “the SPBA groundwater extraction system is currently operating as designed and meets the objective of pumping to establish a groundwater gradient that slopes from off-Site wells located along Canterbury Lane toward on-site wells located in the SPBA” (GSC, 2019). The effectiveness of the SPBA system is evaluated quarterly.

Each SPBA collection well is fitted with an electric submersible pump controlled by variable frequency drives (VFDs) and a submersible level transducer to maintain design drawdown conditions. Groundwater extracted from the SPBA wells is conducted via underground piping from the well heads to the SPBA control building (located in the SPBA). The SPBA control building houses the PLC, control panel, and separate pressure and flow transmitters, piping and valves for each of the extraction wells. The wells are individually piped to the SPBA control building so that flow control, flow measurements, and water samples may be obtained for each well at this central

location. Untreated groundwater is combined into a manifold in the SPBA control building and then discharged together via a single conveyance pipe that extends approximately 4,900 feet to the treatment plant in Building 41A. The conveyance line was rerouted in May 2025 around the MMRP cleanup area adding approximately 1,000 feet of length to the total SPBA conveyance pipeline, and abandoning approximately 2,000 feet of the prior discharge line in place.

The SPBA collection well pumping rates generally range from 0.5 to 6 gpm among the three wells. Approximately 2,715,499 gallons of groundwater were extracted from the SPBA during 2025 (see **Table 5-1**).

6.1 Maintenance

A summary of maintenance actions for the SPBA in 2025 is presented below:

- Collection Well CW-23 pitless adapter was replaced in April.
- The SPBA system experienced brief electrical shutdowns in May and July due to storms in the area.
- The SPBA systems experienced brief shutdowns in May, October, and November due to radio communication faults between the SPBA and Building 41A.
- The system shutdown due to a high sump level fault in May. The fitting was tightened and the system was restarted within 24 hours [and there was no release from the sump].
- CW-22 experienced a VFD fault in June. The pump end and motor were replaced.
- Stainless steel pitless adapter extensions were installed in CW-21, CW-22, and CW-23 in June.
- Annual maintenance was completed on the collection wells in May. Collection wells CW-22 and CW-23 pump assemblies were pulled and inspected for damage and mineral fouling, the transducer setting was verified, and the high-pressure switch was tested.

6.2 Groundwater Chemistry

The groundwater quality analytical data from the 2025 collection well sampling is presented in **Table A-1 (Appendix A)**. Samples were collected in March, June, September, and December. The concentrations and trends of the dominant VOCs (TCE, PCE, TCA, and cis-1,2-DCE) are also illustrated in **Figures 6-1 through 6-3** for CW-21, CW-22, and CW-23, respectively.

7.0 REFERENCES

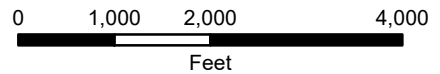
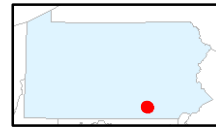
- Groundwater Sciences Corporation (GSC), 2018. Supplemental Remedial Investigation Groundwater Report (Part 2), Former York Naval Ordnance Plant, March (Revised).
- GSC, 2019. Southern Property Boundary Area Groundwater Extraction System Operation Effectiveness Report, Former York Naval Ordnance Plant, October 28.
- EA Engineering, Science, and Technology, Inc., PBC, 2019. Military Munitions Response Program Cleanup Plan for the Former York Naval Ordnance Plant, November 27.
- GSC, 2024a. Post-Remediation Care Plan, Former York Naval Ordnance Plant, 1425 Eden Road, Springettsbury Township, York, Pennsylvania, January 30 Revised.
- GSC, 2024b. Final Report, Former York Naval Ordnance Plant, 1425 Eden Road, Springettsbury Township, York, Pennsylvania, January 30 Revised.


FIGURES



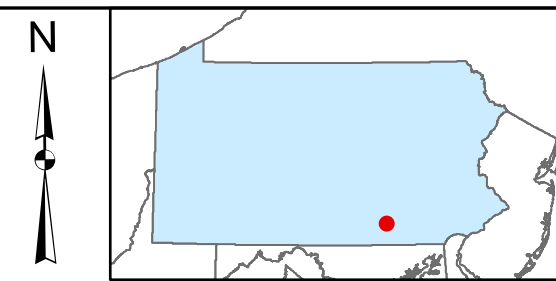
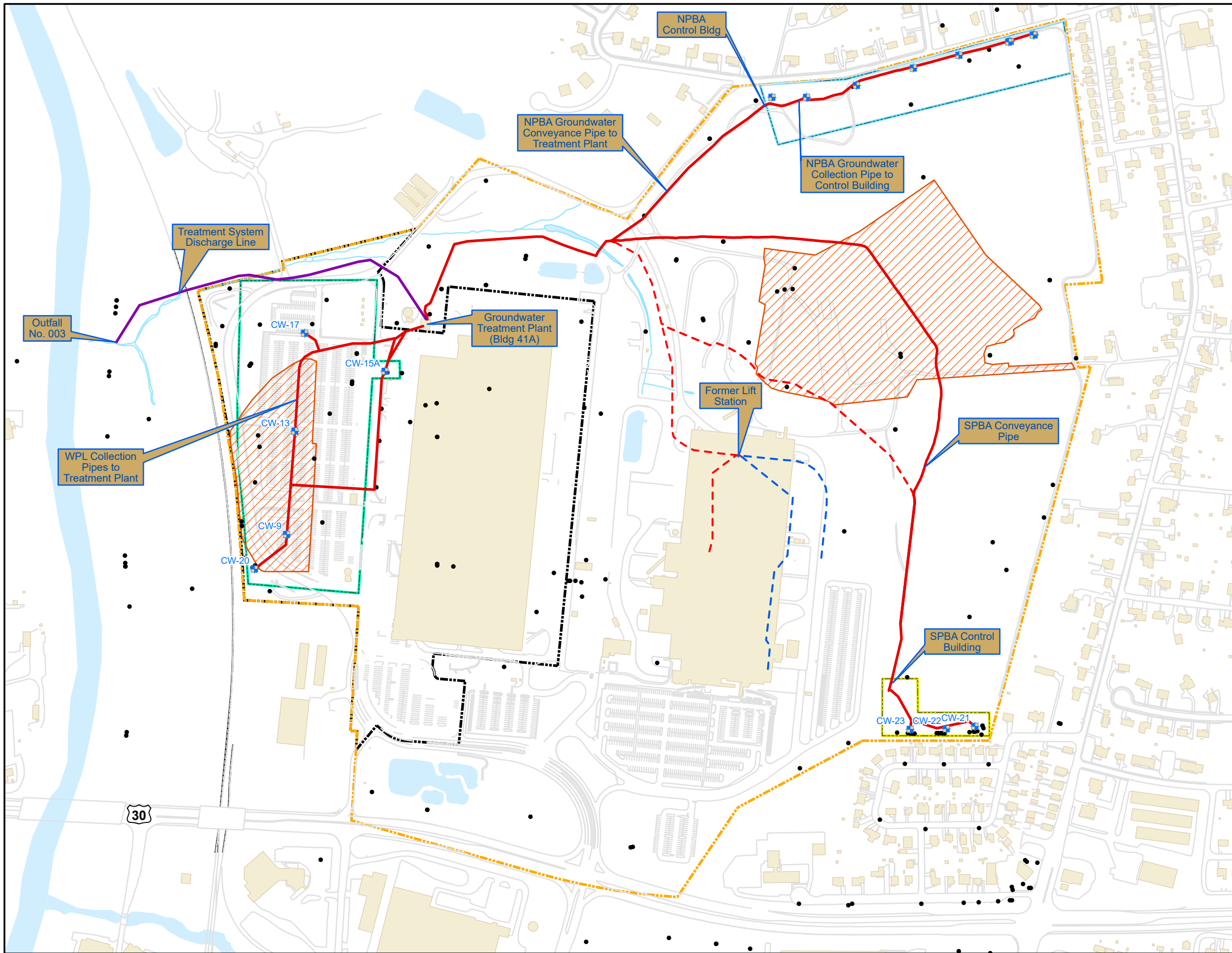
Legend

- Property Boundary (Former York Naval Ordnance Plant; Approximately 229 Acres)
- York Naval Ordnance Plant; Approximately 229 Acres)
- West Campus Boundary



Former York Naval Ordnance Plant													
1425 Eden Road York, Pennsylvania													
 www.hydro-terra.com	Groundwater Systems Operations												
	Site Location Map												
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approved:	<i>RGM</i>	03/18/21											

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- Monitoring Well
- ⊠ Extraction Well & Designation
- Groundwater Treatment System Conveyance Line
- Groundwater Treatment Discharge Line
- - - Former Groundwater Treatment System Conveyance Line (Abandoned)
- - - Former Building 3 Groundwater Dewatering System Interceptor Trench (Abandoned)
- Road, Curb, or Walkway
- Water Feature
- Existing Building
- Northeast Property Boundary Area (NPBA)
- Southern Property Boundary Area (SPBA)
- West Parking Lot (WPL) Area
- Ordnance Hazard Area - MMRP
- - - West Campus Boundary
- - - Property Boundary



Former York Naval Ordnance Plant

1425 Eden Road York, PA 17402



Groundwater System Operations		
Groundwater Treatment System Location		
drawn:	LPS	03/13/26
checked:	EMW	03/13/26
approved:	RGM	03/13/26

Figure: **1-2**

FIGURE 1-3
GROUNDWATER TREATMENT SYSTEM FLOW DIAGRAM
former York Naval Ordnance Plant

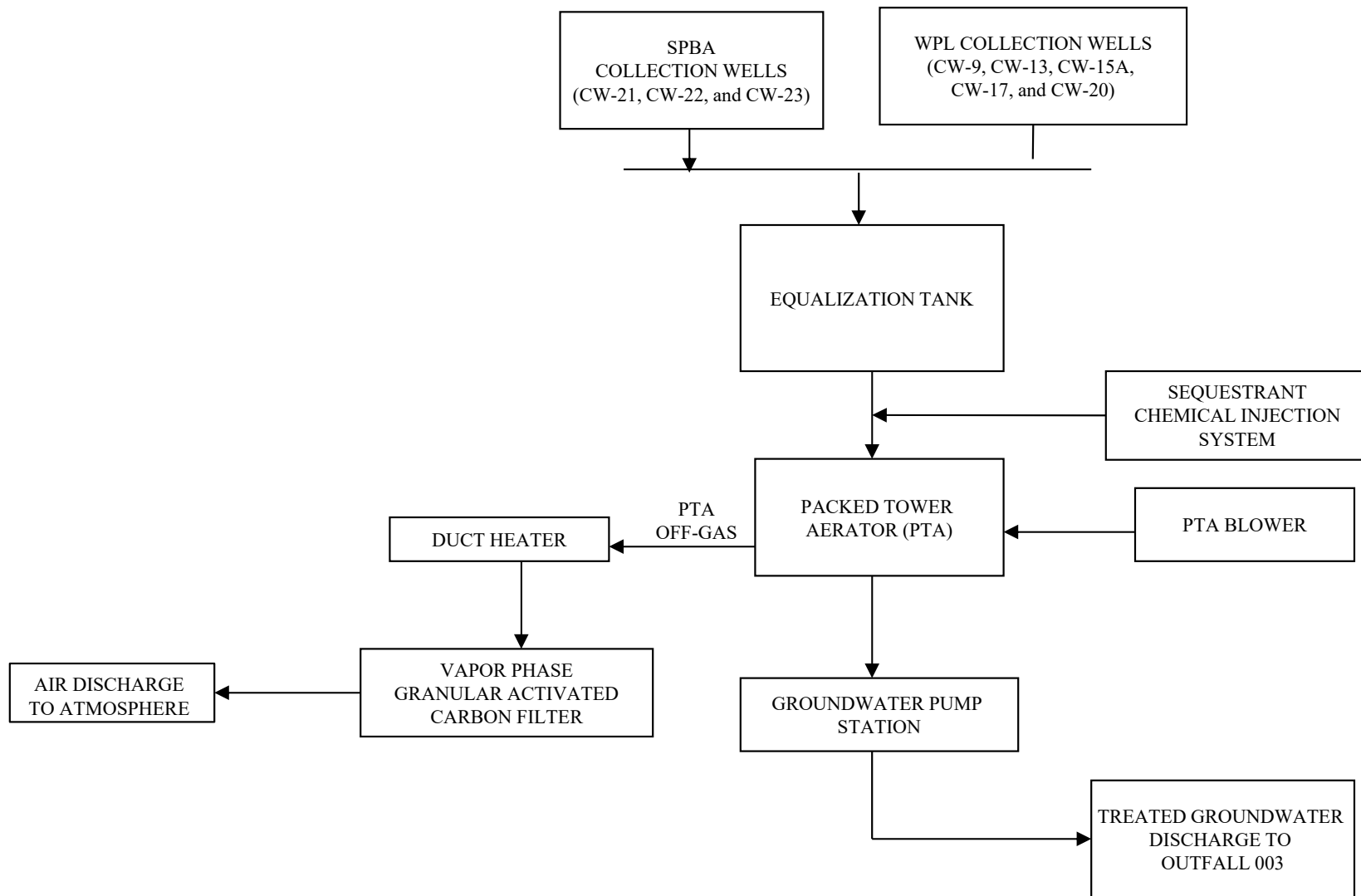
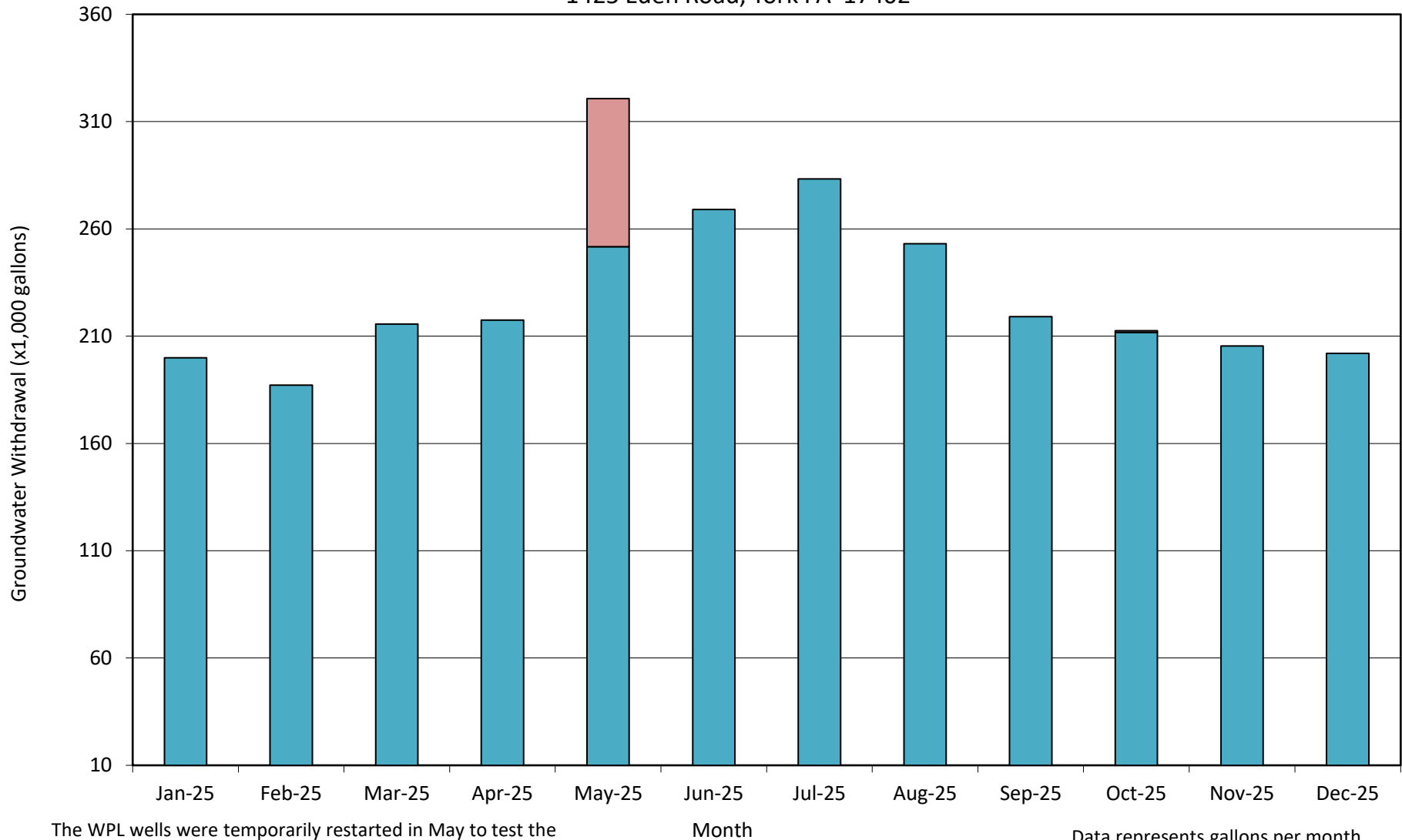


Figure 4-1
 2025 Groundwater Withdrawals
 Former York Naval Ordnance Plant
 1425 Eden Road, York PA 17402



The WPL wells were temporarily restarted in May to test the functionality of the wells and in October to fill the EQ tank to test effluent pumps.

Data represents gallons per month for each extraction area.

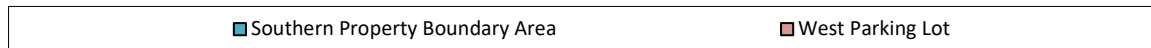


Figure 4-2
Packed Tower Aerator Influent Chemistry
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

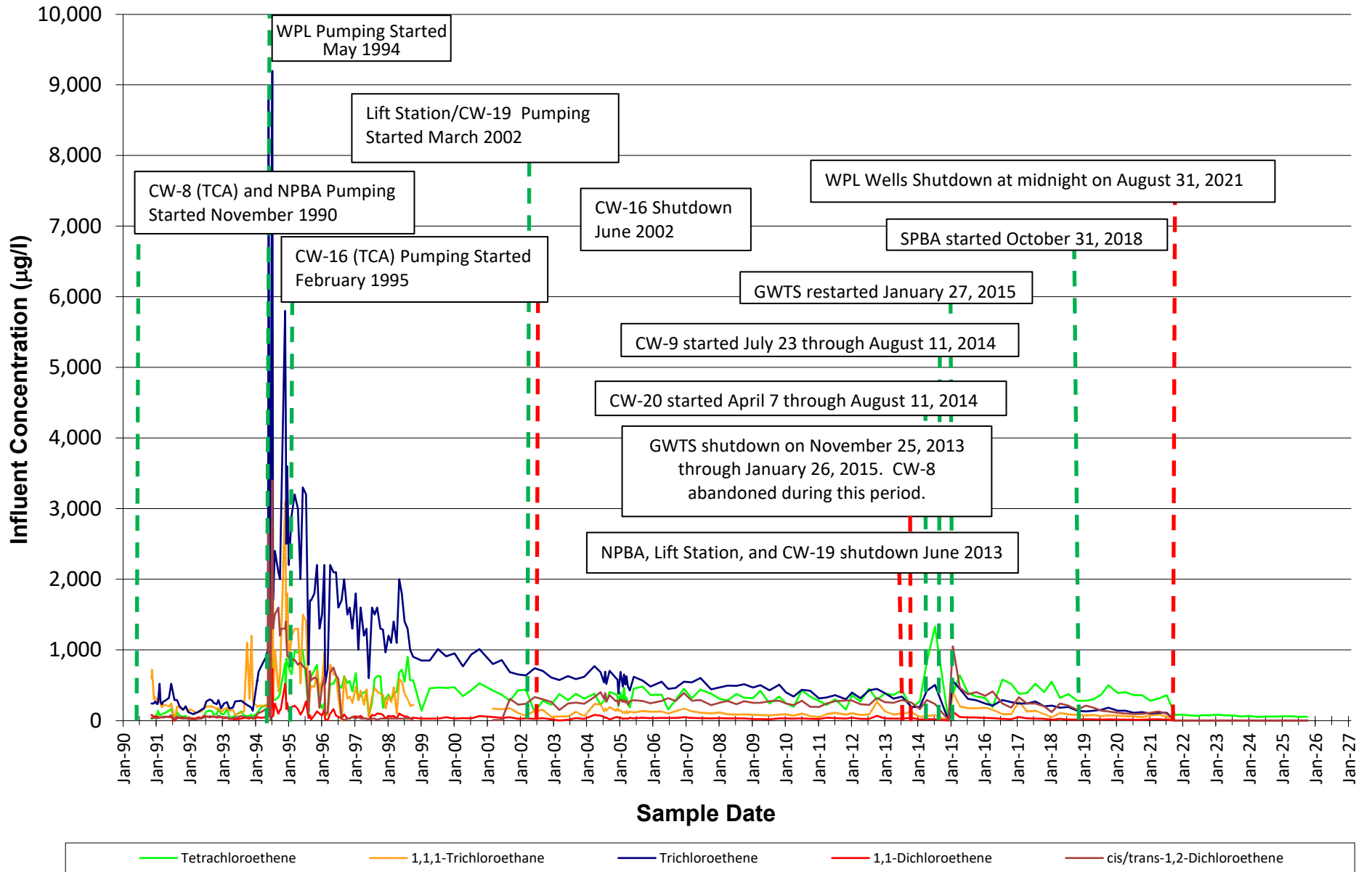


Figure 6-1
Predominate VOC Concentrations - Collection Well CW-21
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

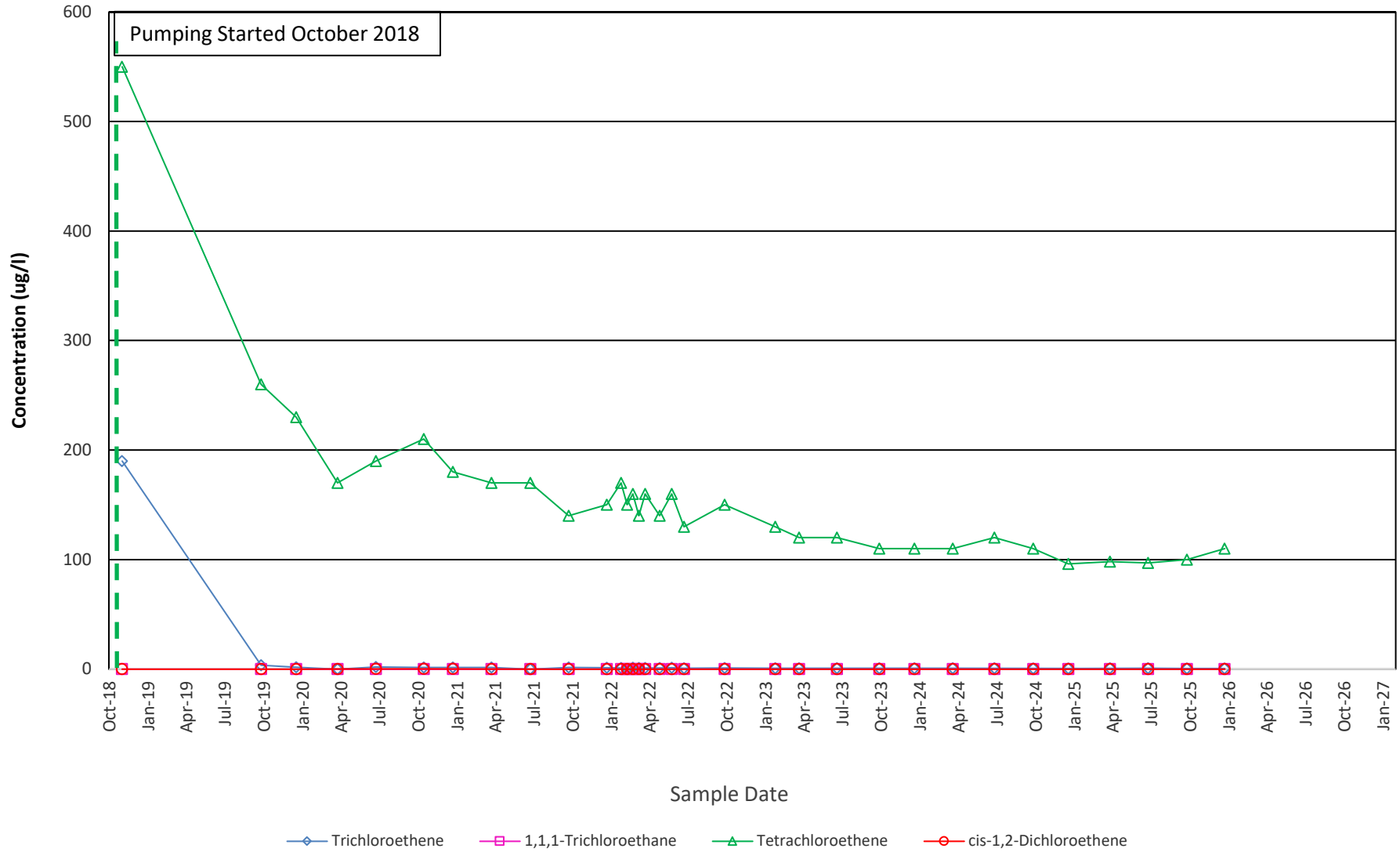


Figure 6-2
Predominate VOC Concentrations - Collection Well CW-22
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

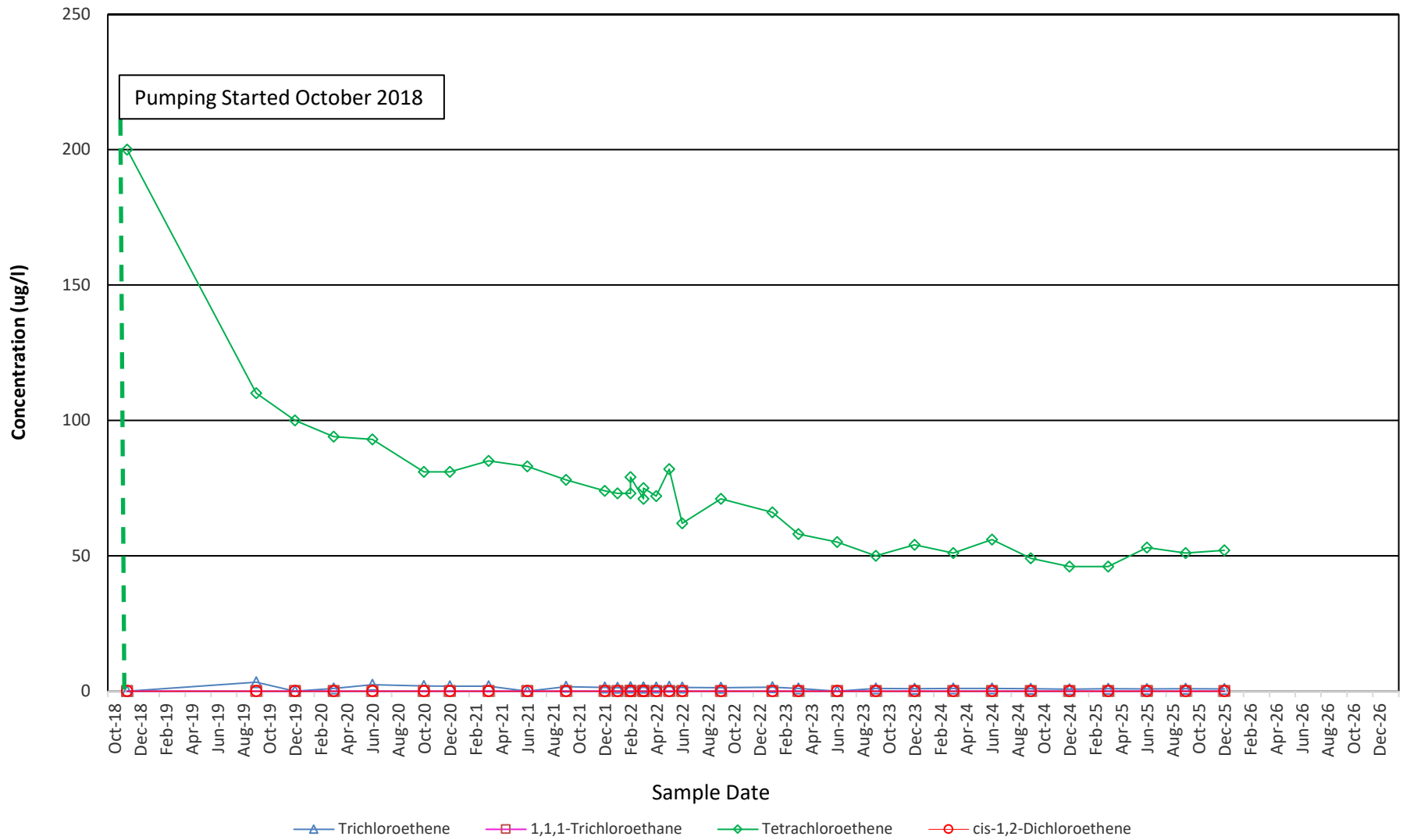
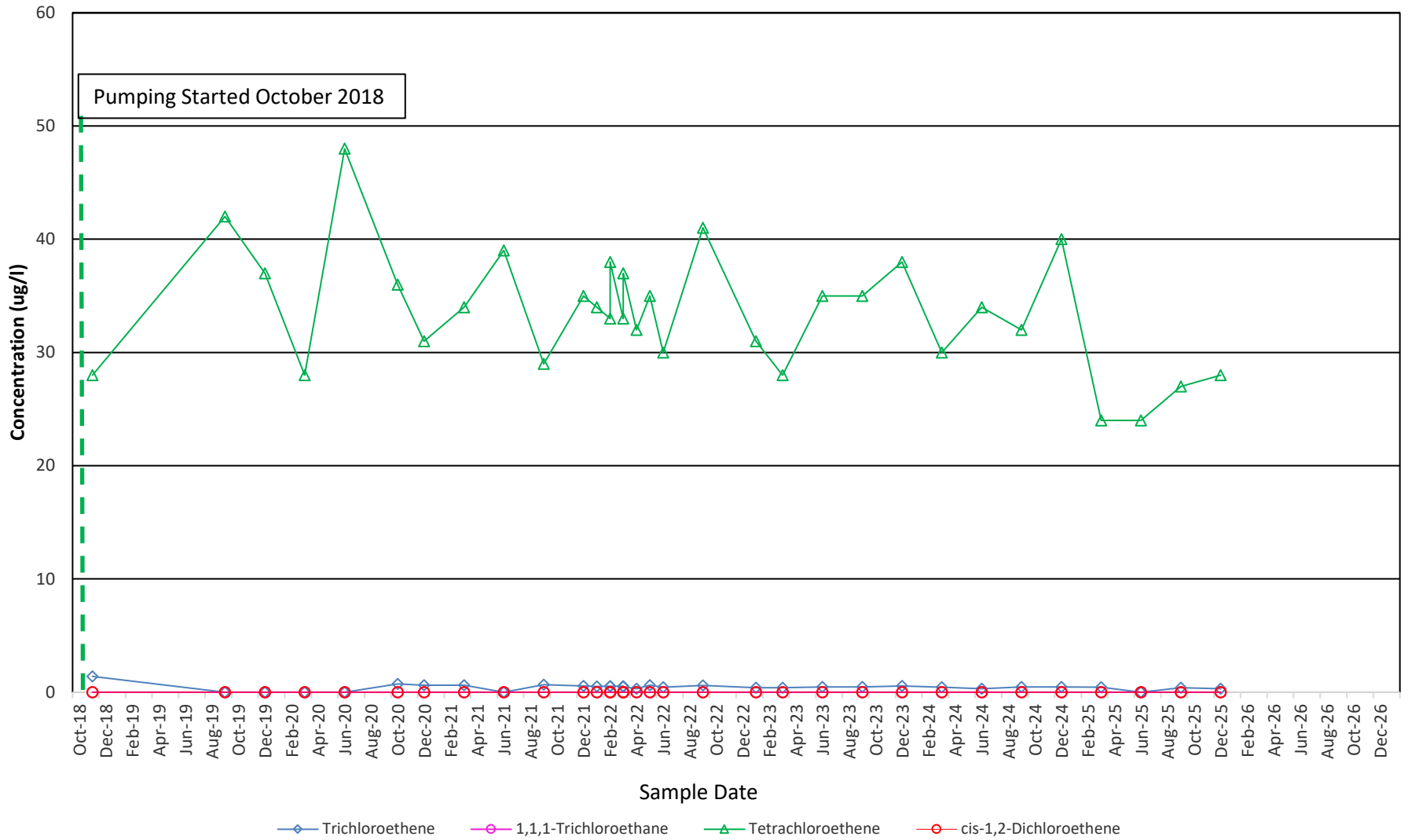


Figure 6-3
Predominate VOC Concentrations - Collection Well CW-23
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402



TABLES

TABLE 4-1
VOCs REMOVED FROM COLLECTED GROUNDWATER
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

JANUARY 1, 2025 - DECEMBER 31, 2025			
DATE	MONTHLY GROUNDWATER WITHDRAWAL (Well Totalizers, gallons)	AVERAGE MONTHLY TOTAL VOCs (ppb)	ESTIMATED MONTHLY VOC REMOVAL (pounds)
Jan-25	199,865	60	0.10
Feb-25	187,165	60 *	0.09
Mar-25	215,603	60 *	0.11
Apr-25	217,502	61	0.11
May-25	320,667	61 *	0.16
Jun-25	269,082	61 *	0.14
Jul-25	283,323	52	0.12
Aug-25	253,044	52 *	0.11
Sep-25	219,112	52 *	0.10
Oct-25	212,571	52	0.09
Nov-25	205,401	52 *	0.09
Dec-25	202,009	52 *	0.09
TOTAL	2,785,344	NA	1.31

NOTES:

* - No sample collected this month; concentration is the most recent

As part of the approved Post Remediation Care Plan, the collection wells in the WPL were inactive during 2025, but remain functional.

ANNUAL TOTALS		
YEAR	GROUNDWATER WITHDRAWAL (gallons)	ESTIMATED VOC REMOVAL (pounds)
1990 (NOV & DEC)	12,954,886	92
1991	62,458,393	357
1992	66,081,120	322
1993	72,198,940	421
1994	88,387,251	3,905
1995	141,357,856	5,572
1996	152,168,899	3,631
1997	150,246,400	2,675
1998	157,461,800	2,795
1999	133,687,100	1,464
2000	152,839,477	1,785
2001	134,557,249	1,659
2002	121,290,897	1,269
2003	153,097,508	1,599
2004	140,725,167	1,786
2005	134,503,508	1,550
2006	125,192,364	1,295
2007	149,331,940	1,734
2008	155,341,655	1,560
2009	161,171,721	1,584
2010	159,042,802	1,388
2011	154,368,351	1,196
2012	153,624,656	1,519
2013	145,516,783	1,321
2014	17,300,548	262
2015	105,746,121	1,501
2016	113,974,022	1,058
2017	112,873,883	1,041
2018	121,853,402	856
2019	127,551,117	821
2020	121,622,926	694
2021	79,954,253	413
2022	3,371,466	2.06
2023	3,638,700	2.18
2024	3,285,764	1.56
2025	2,785,344	1.31
Total	3,891,564,269	49,132

TABLE 5-1
 2025 RECORD OF GROUNDWATER WITHDRAWALS
 Former York Naval Ordnance Plant
 1425 Eden Road, York PA 17402

MONTH	West Parking Lot (WPL) Wells (gallons) ¹						Southern Property Boundary Area (SPBA) Wells (gallons) ²				Monthly ³ TOTAL (gallons)
	CW-9	CW-13	CW-15A	CW-17	CW-20	SUBTOTAL	CW-21	CW-22	CW-23	SUBTOTAL	
January-25	0	0	0	0	0	0	126,458	71,875	1,532	199,865	199,865
February-25	0	0	0	0	0	0	114,752	65,978	6,435	187,165	187,165
March-25	0	0	0	0	0	0	127,763	72,154	15,686	215,603	215,603
Apr-25	0	0	0	0	0	0	128,879	75,067	13,556	217,502	217,502
May 2025 ⁴	15,128	7,460	1,727	18,505	26,172	68,992	141,886	84,731	25,058	251,675	320,667
June-25	0	0	0	0	0	0	161,181	72,186	35,715	269,082	269,082
July-25	0	0	0	0	0	0	165,372	80,629	37,322	283,323	283,323
August-25	0	0	0	0	0	0	148,277	73,051	31,716	253,044	253,044
September-25	0	0	0	0	0	0	130,799	66,702	21,611	219,112	219,112
October 2025 ⁵	0	0	0	853	0	853	130,720	67,627	13,371	211,718	212,571
November-25	0	0	0	0	0	0	122,967	73,295	9,139	205,401	205,401
December-25	0	0	0	0	0	0	121,016	75,303	5,690	202,009	202,009
TOTALS	15,128	7,460	1,727	19,358	26,172	69,845	1,620,070	878,598	216,831	2,715,499	2,785,344

Notes:

- ¹ As part of the approved Site-Wide Cleanup Plan, the collection wells in the WPL were shutdown on August 31, 2021 for attainment testing.
- ² SPBA collection wells pumping started October 31, 2018.
- ³ Monthly groundwater withdrawal value from Table 4-1 differs slightly from the monthly total. The value in Table 4-1 is taken from the PTA totalizer.
The monthly total is the sum of the individual well totalizers.
- ⁴ The WPL wells were briefly restarted to test the functionality of the wells.
- ⁵ CW-17 was used to fill the Equalization Tank to test effluent pumps.

APPENDIX A

Data Tables

Table A-1.
2025 Groundwater Data Summary - Collection Wells
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

Parameter	SPBA Collection Wells											
	Location/ID Sample Date	CW-21 3/27/2025	Qual	CW-22 3/27/2025	Qual	CW-23 3/27/2025	Qual	CW-21 6/25/2025	Qual	CW-22 6/25/2025	Qual	CW-23 6/25/2025
1,1,1,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U ^c cn	10	U ^c cn	10	U ^c cn	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U ^c cn	10	U ^c cn	10	U ^c cn	10	U	10	U	10	U
Acetone	20	U	20	U	20	U	20	U ^c cn	20	U ^c cn	20	U ^c cn
Benzene	1	U	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	1	U	1	U	0.27	J	1	U	1	U	1	U
Bromoform	4	U	4	U	4	U	4	U	4	U	4	U
Bromomethane	1	U	1	U	1	U	1	U	1	U	1	U
Carbon Disulfide	5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	0.55	J	0.73	J	1.6		0.54	J	0.72	J	0.79	J
Chloromethane	2	U	2	U	2	U	2	U	2	U	2	U
cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	98		46		24		97		53		24	
Toluene	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	2	U	2	U	2	U	2	U	2	U	2	U
trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	0.66	J	0.87	J	0.43	J	0.65	J	0.82	J	1	U
Vinyl Chloride	1	U	1	U	1	U	1	U	1	U	1	U
Xylenes (Total)	1	U	1	U	1	U	1	U	1	U	1	U

U - Indicates the analyte was analyzed for but not detected.

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

^c - Continuing calibration verification recovery is outside acceptance limits.

cn - Refer to case narrative for further detail.

NA - Not analyzed

Table A-1.
2025 Groundwater Data Summary - Collection Wells
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

Location/ID Sample Date Parameter	SPBA Collection Wells											
	CW-21 9/25/2025	Qual	CW-22 9/25/2025	Qual	CW-23 9/25/2025	Qual	CW-21 12/23/2025	Qual	CW-22 12/23/2025	Qual	CW-23 12/23/2025	Qual
1,1,1,2-Tetrachloroethane	NA	-	NA	-	NA	-	1	U	1	U	1	U ^c *- cn
1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U	1	U ^c cn
1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U	1	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-Pentanone	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	20	U ^c cn	20	U ^c cn	20	U ^c cn	20	U ^c cn	20	U ^c cn	20	U ^c cn
Benzene	1	U	1	U	1	U	5	U	5	U	1	U
Bromochloromethane	NA	-	NA	-	NA	-	1	U	1	U	5	U
Bromodichloromethane	1	U	1	U	1	U	4	U	4	U	0.21	J
Bromoform	4	U	4	U	4	U	1	U	1	U	4	U
Bromomethane	1	U	1	U	1	U	5	U	5	U	1	U
Carbon Disulfide	5	U	5	U	5	U	1	U	1	U	5	U
Carbon Tetrachloride	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	1	U	1	U	1	U	1	U	1	J	1	U
Chloroethane	1	U	1	U	1	U	2	U	2	U	1	U
Chloroform	0.58	J	0.73	J	2.1		0.63	J	0.92	J	3	
Chloromethane	2	U ^c cn	2	U ^c cn	2	U ^c cn	1	U	1	U	2	U
cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U	1	U
Ethylbenzene	1	U	1	U	1	U	1	U	1	U	1	U
Methyl tert-butyl ether	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	1	U	1	U	1	U	1	U	1	U	1	U
Styrene	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	100		51		27		110		52		28	
Toluene	1	U	1	U	1	U	1	U	1	U	1	U
trans-1,2-Dichloroethene	2	U	2	U	2	U	2	U	2	U	2	U
trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethene	0.53	J	0.84	J	0.39	J	0.38	J	0.82	J	0.31	J
Vinyl Chloride	1	U ^c cn	1	U ^c cn	1	U ^c cn	1	U	1	U	1	U
Xylenes (Total)	1	U	1	U	1	U	1	U	1	U	1	U

U - Indicates the analyte was analyzed for
J - Result is less than the reporting limit bu
^c - Continuing calibration verification rec
cn - Refer to case narrative for further det
NA - Not analyzed

TABLE A-2
WATER QUALITY ANALYSES
2025 PACKED TOWER AERATOR SAMPLES SUMMARY
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

Sample ID Lab ID Sample Date Parameter	Units	Outfall #003 410-202498-2 1/2/2025	Outfall #003 410-215235-2 4/3/2025	Outfall #003 410-230119-2 7/1/2025	Outfall #003 410-245678-2 10/7/2025
1,1-DICHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
CIS 1,2-DICHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
TETRACHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
TRICHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
VINYL CHLORIDE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
TOTAL VOCs	ug/l	0	0	0	0

Sample ID Lab ID Sample Date Parameter	Units	Influent to #003 410-202498-1 1/2/2025	Influent to #003 410-215235-1 4/3/2025	Influent to #003 410-230119-1 7/1/2025	Influent to #003 410-245678-1 10/7/2025
1,1,2-TRICHLOROETHANE	ug/L	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
1,1,1-TRICHLOROETHANE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
1,1-DICHLOROETHANE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
1,1-DICHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
1,2-DICHLOROETHANE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
CHLOROBENZENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
CHLOROFORM	ug/l	0.49 J	0.60 J	0.49 J	0.58 J
METHYLENE CHLORIDE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
TETRACHLOROETHENE	ug/l	60	61	52	52
TRICHLOROETHENE	ug/l	0.62 J	0.60 J	0.58 J	0.57 J
VINYL CHLORIDE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
CIS 1,2-DICHLOROETHENE	ug/l	N.D. @ 1	N.D. @ 1	N.D. @ 1	N.D. @ 1
TRANS 1,2-DICHLOROETHENE	ug/l	N.D. @ 2	N.D. @ 2	N.D. @ 2	N.D. @ 2
TOTAL VOCs	ug/l	60	61	52	52

Notes:

- All Analysis Performed by Eurofins Lancaster Laboratories Environmental (ELLE) - Lancaster, PA
- ug/l - micrograms per liter
- J - Estimated value \geq the Method Detection Limit (MDL) N.D. < the Limit of Quantitation (LOQ or RL)
- N.D. @ 1 - not detected at indicated concentration
- PTA Infl. - Official sample name is "influent to #003 GWTS"
- PTA Effl. - Official sample name is "outfall #003 GWTS"

APPENDIX B

2025 Excel® Database Summary Groundwater Treatment Plant Operations

Table B-1
2025

Groundwater Treatment Plant Operations Summary
Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
1/1/2025	6	1.1	6	0.8	7320	6.18974972	115	3	3	0.4	0.4
1/2/2025	7	1.3	7	0.9	8529	5.82574987	120	4	3	0.5	0.4
1/3/2025	6	1.1	6	0.8	7320	6.09787464	114	3	3	0.4	0.4
1/4/2025	6	1.1	6	0.8	7319	6.15649986	121	3	3	0.4	0.4
1/5/2025	7	1.3	7	0.9	8515	5.76887512	121	3	4	0.4	0.5
1/6/2025	7	1.1	6	0.8	7306	6.04362488	117	3	4	0.4	0.4
1/7/2025	6	1.1	6	0.8	7300	6.12762499	115	3	3	0.4	0.4
1/8/2025	6	1.1	6	0.8	7301	6.1704998	115	3	3	0.4	0.4
1/9/2025	7	1.3	7	0.9	8514	5.76012516	123	4	3	0.5	0.4
1/10/2025	6	1.1	6	0.8	7319	5.9692502	113	3	3	0.4	0.4
1/11/2025	6	1.1	6	0.8	7298	6.10400009	113	3	3	0.4	0.4
1/12/2025	6	1.1	6	0.8	7285	6.125	109	3	3	0.4	0.4
1/13/2025	7	1.3	7	0.9	8511	5.64725018	121	3	4	0.4	0.5
1/14/2025	6	1.1	6	0.8	7299	5.83974981	114	3	4	0.4	0.4
1/15/2025	6	1.1	6	0.8	7283	5.94387531	115	3	3	0.4	0.4
1/16/2025	6	1.1	6	0.8	7314	6.03137493	126	3	3	0.4	0.4
1/17/2025	6	1.1	6	0.8	7308	6.0383749	113	3	3	0.4	0.4
1/18/2025	6	1.1	6	0.8	7295	6.09437513	114	3	3	0.4	0.4
1/19/2025	6	1.1	6	0.8	7296	6.13987541	117	3	3	0.4	0.4
1/20/2025	6	1.1	6	0.8	7295	6.13112497	122	3	3	0.4	0.4
1/21/2025	6	1.1	6	0.8	7291	6.13199997	129	3	3	0.4	0.4
1/22/2025	7	1.3	7	0.9	8399	5.75487518	131	4	3	0.4	0.4
1/23/2025	6	1.1	6	0.8	7294	5.7329998	120	4	3	0.4	0.4
1/24/2025	6	1.1	6	0.8	7290	5.74437523	117	3	3	0.4	0.4
1/25/2025	6	1.1	6	0.8	7288	5.72949982	120	3	3	0.4	0.4
1/26/2025	6	1.1	6	0.8	7287	5.73999977	118	3	3	0.4	0.4
1/27/2025	6	1.1	6	0.8	7280	5.73912525	113	3	3	0.4	0.4
1/28/2025	6	1.1	6	0.8	7297	5.79512501	114	3	3	0.4	0.4
1/29/2025	6	1.1	6	0.8	7280	5.78462505	114	3	3	0.4	0.4
1/30/2025	6	1.1	6	0.8	7277	5.73474979	114	3	3	0.4	0.4
1/31/2025	6	1.1	6	0.8	7280	5.72949982	118	3	3	0.4	0.4
2/1/2025	6	1.1	6	0.8	7285	5.76625013	116	3	3	0.4	0.4
2/2/2025	6	1.1	6	0.8	7274	5.73650026	123	3	3	0.4	0.4
2/3/2025	6	1.1	6	0.8	7288	5.80299997	116	3	3	0.4	0.4
2/4/2025	6	1.1	6	0.8	7205	5.86162472	116	3	3	0.4	0.4
2/5/2025	6	1.1	6	0.8	7279	5.83012486	115	3	3	0.4	0.4
2/6/2025	6	1.1	6	0.8	7289	5.85200024	114	3	3	0.4	0.4
2/7/2025	6	1.1	6	0.8	7285	5.90362501	110	3	3	0.4	0.4
2/8/2025	6	1.1	6	0.8	7289	5.91849995	119	3	3	0.4	0.4
2/9/2025	6	1.1	6	0.8	7303	5.95962477	116	3	3	0.4	0.4
2/10/2025	6	1.1	6	0.8	7283	5.97275019	112	3	3	0.4	0.4
2/11/2025	7	1.3	7	0.9	8507	5.39524984	118	3	4	0.4	0.5
2/12/2025	6	1.1	6	0.8	7280	5.62800026	110	3	3	0.4	0.4
2/13/2025	6	1.1	6	0.8	7273	5.75487518	106	3	3	0.4	0.4
2/14/2025	6	1.1	6	0.8	7304	5.81524992	105	3	3	0.4	0.4
2/15/2025	6	1.1	6	0.8	7297	5.8423748	110	3	3	0.4	0.4
2/16/2025	7	1.3	7	0.9	8493	5.57462502	118	4	3	0.5	0.4
2/17/2025	6	1.1	6	0.8	7297	5.77237511	109	3	3	0.4	0.4
2/18/2025	6	1.1	6	0.8	7292	5.905375	116	3	3	0.4	0.4
2/19/2025	7	1.3	7	0.9	8502	5.70587492	125	3	4	0.4	0.5
2/20/2025	6	1.1	6	0.8	7297	5.85287523	120	3	3	0.4	0.4
2/21/2025	7	1.3	7	0.9	8511	5.62887526	119	4	3	0.5	0.4
2/22/2025	6	1.1	6	0.8	7300	5.81262493	112	3	3	0.4	0.4
2/23/2025	7	1.3	7	0.9	8496	5.50374985	115	3	4	0.4	0.5
2/24/2025	6	1.1	6	0.8	7299	5.73999977	104	3	3	0.4	0.4
2/25/2025	7	1.3	7	0.9	8518	5.3821249	115	4	3	0.5	0.4
2/26/2025	6	1.1	6	0.8	7283	5.65600014	103	3	3	0.4	0.4
2/27/2025	7	1.3	7	0.9	8502	5.11175013	114	3	4	0.4	0.5
2/28/2025	6	1.1	6	0.8	7290	5.55275011	108	3	3	0.4	0.4
3/1/2025	6	1.1	6	0.8	7283	5.77762508	109	3	3	0.4	0.4
3/2/2025	7	1.3	7	0.9	8500	5.37162495	116	4	3	0.5	0.4
3/3/2025	6	1.1	6	0.8	7294	5.64899969	108	3	3	0.4	0.4
3/4/2025	6	1.1	6	0.8	7299	5.71199989	106	3	3	0.4	0.4

Table B-1
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Groundwater Treatment Plant Operations Summary
Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
3/5/2025	7	1.3	7	0.9	8520	5.4057498	113	3	4	0.4	0.5
3/6/2025	6	1.1	6	0.8	7315	5.65862513	117	3	3	0.4	0.4
3/7/2025	7	1.3	7	0.9	8509	5.04437494	113	4	3	0.5	0.4
3/8/2025	6	1.1	6	0.8	7293	5.54049969	112	3	3	0.4	0.4
3/9/2025	6	1.1	6	0.8	7295	5.55187464	107	3	3	0.4	0.4
3/10/2025	6	1.1	6	0.8	7300	5.70674992	103	3	3	0.4	0.4
3/11/2025	7	1.3	7	0.9	8514	5.31212521	109	3	4	0.4	0.5
3/12/2025	6	1.1	6	0.8	7296	5.56150007	106	3	3	0.4	0.4
3/13/2025	6	1.1	6	0.8	7291	5.69537497	111	3	3	0.4	0.4
3/14/2025	7	1.3	7	0.9	8525	5.25262499	113	4	3	0.5	0.4
3/15/2025	6	1.1	6	0.8	7300	5.48099995	112	3	3	0.4	0.4
3/16/2025	6	1.1	6	0.8	7295	5.61399984	102	3	3	0.4	0.4
3/17/2025	7	1.3	7	0.9	8527	5.24650002	114	3	4	0.4	0.5
3/18/2025	6	1.1	6	0.8	7307	5.51250029	107	3	3	0.4	0.4
3/19/2025	6	1.1	6	0.8	7307	5.60787487	103	3	3	0.4	0.4
3/20/2025	7	1.3	7	0.9	8526	5.3357501	109	4	3	0.5	0.4
3/21/2025	6	1.1	6	0.8	7299	5.57025003	107	3	3	0.4	0.4
3/22/2025	7	1.3	7	0.9	8526	5.00325012	115	3	4	0.4	0.5
3/23/2025	6	1.1	6	0.8	7292	5.38474989	108	3	3	0.4	0.4
3/24/2025	6	1.1	6	0.8	7306	5.52387524	108	3	3	0.4	0.4
3/25/2025	6	1.1	6	0.8	7287	5.61224985	104	3	3	0.4	0.4
3/26/2025	7	1.3	7	0.9	8524	5.07500029	117	4	3	0.5	0.4
3/27/2025	6	1.1	6	0.8	7302	5.30687523	105	3	3	0.4	0.4
3/28/2025	6	1.1	6	0.8	7305	5.41974974	107	3	3	0.4	0.4
3/29/2025	6	1.1	6	0.8	7310	5.48187494	101	3	3	0.4	0.4
3/30/2025	6	1.1	6	0.9	7903	4.85100031	101	3	3	0.4	0.5
3/31/2025	7	1.2	7	0.9	7903	4.85100031	101	3	4	0.4	0.5
4/1/2025	6	1.1	6	0.8	7305	5.28937531	106	3	3	0.4	0.4
4/2/2025	6	1.1	6	0.8	7297	5.37599993	108	3	3	0.4	0.4
4/3/2025	7	1.3	7	0.8	7307	5.3585	110	3	3	0.4	0.4
4/4/2025	6	1.1	6	0.8	7317	5.57025003	98	3	3	0.4	0.4
4/5/2025	7	1.3	7	0.9	8534	5.29900026	110	4	3	0.5	0.4
4/6/2025	6	1.1	6	0.8	7317	5.5326252	108	3	3	0.4	0.4
4/7/2025	7	1.3	7	0.9	8556	5.38562536	116	3	4	0.4	0.5
4/8/2025	7	1.2	7	0.8	7668	5.32612514	112	3	3	0.4	0.4
4/9/2025	7	1.2	7	0.9	7896	5.52387524	110	4	3	0.5	0.4
4/10/2025	7	1.3	7	0.9	8563	5.37687492	119	3	4	0.4	0.5
4/11/2025	7	1.3	7	0.9	8555	5.1415	121	4	3	0.5	0.4
4/12/2025	6	1.1	6	0.8	7333	5.52037525	114	3	3	0.4	0.4
4/13/2025	7	1.3	7	0.9	8560	5.47487497	113	3	4	0.4	0.5
4/14/2025	7	1.3	7	0.9	8571	5.2963748	108	4	3	0.5	0.4
4/15/2025	7	1.3	7	0.9	8567	5.23425007	106	3	4	0.4	0.5
4/16/2025	6	1.1	6	0.8	7337	5.67437506	103	3	3	0.3	0.4
4/17/2025	7	1.3	7	0.9	8558	5.30600023	114	4	3	0.5	0.4
4/18/2025	7	1.3	7	0.9	8581	5.25524998	108	3	4	0.4	0.5
4/19/2025	7	1.3	7	0.9	8585	5.03649998	102	4	3	0.5	0.4
4/20/2025	7	1.3	7	0.9	8565	4.93324995	103	3	4	0.4	0.5
4/21/2025	6	1.1	6	0.8	7341	5.44075012	101	3	3	0.4	0.4
4/22/2025	7	1.3	7	0.9	8580	5.40837526	104	4	3	0.5	0.4
4/23/2025	7	1.3	7	0.9	8580	5.28762531	105	3	4	0.4	0.5
4/24/2025	7	1.3	7	0.9	8576	4.99362469	104	4	3	0.5	0.4
4/25/2025	6	1.1	6	0.8	7343	5.39349985	99	3	3	0.4	0.4
4/26/2025	7	1.3	7	0.9	8571	4.85362482	107	3	3	0.4	0.5
4/27/2025	7	1.3	7	0.9	8571	4.85362482	108	3	3	0.4	0.5
4/28/2025	7	1.3	7	0.9	8571	4.85362482	107	3	3	0.4	0.5
4/29/2025	6	1.1	6	0.8	7342	5.28237534	98	3	3	0.4	0.4
4/30/2025	7	1.3	7	0.9	8571	5.19312477	101	4	3	0.5	0.4
5/1/2025	7	1.3	7	0.9	8577	4.6576252	104	3	4	0.4	0.5
5/2/2025	6	1.1	6	0.8	7353	5.19050026	95	3	3	0.4	0.4
5/3/2025	7	1.3	7	0.9	8575	5.04174995	102	4	3	0.5	0.4
5/4/2025	6	1.1	6	0.8	7345	5.42587519	98	3	3	0.4	0.4
5/5/2025	7	1.3	7	0.9	8479	5.40224981	102	3	4	0.4	0.5
5/6/2025	7	1.3	7	0.9	8613	5.3585	105	4	3	0.5	0.4

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Groundwater Treatment Plant Operations Summary
Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
5/7/2025	7	1.3	7	0.9	8605	5.23775005	103	3	4	0.4	0.5
5/8/2025	7	1.3	7	0.9	8601	5.0548749	115	4	3	0.5	0.4
5/9/2025	7	1.3	7	0.9	8600	5.27799988	121	3	4	0.4	0.5
5/10/2025	7	1.3	7	0.9	8603	5.29812479	122	4	3	0.5	0.4
5/11/2025	7	1.3	7	0.9	8615	5.2281251	124	3	4	0.3	0.5
5/12/2025	7	1.3	7	0.9	8615	5.24737501	110	4	3	0.5	0.4
5/13/2025	8	1.5	8	1.1	9845	4.93587494	108	4	4	0.5	0.5
5/14/2025	6	1.1	6	0.8	7400	5.07587528	96	3	3	0.3	0.4
5/15/2025	8	1.5	8	1.1	9912	4.9437499	108	4	4	0.5	0.5
5/16/2025	8	1.5	8	1.1	9892	4.80200005	109	4	4	0.5	0.5
5/17/2025	7	1.3	7	0.9	8647	5.2045002	106	3	4	0.4	0.5
5/18/2025	8	1.5	8	1.1	9920	5.18262482	111	4	4	0.5	0.5
5/19/2025	8	1.6	8	1.1	10144	5.31212521	113	4	4	0.5	0.5
5/20/2025	8	1.5	8	1.1	9882	5.02600002	107	4	4	0.5	0.4
5/21/2025	7	1.3	7	0.9	8640	5.37687492	101	4	4	0.5	0.4
5/22/2025	8	1.5	8	1.1	9873	5.15462494	106	4	4	0.5	0.5
5/23/2025	7	1.3	7	0.9	8644	5.38824987	100	3	4	0.3	0.5
5/24/2025	8	1.5	8	1.1	9890	5.23950005	108	4	4	0.5	0.5
5/25/2025	7	1.3	7	0.9	8643	5.41450024	103	4	3	0.5	0.4
5/26/2025	8	1.5	8	1.1	9871	5.22287464	110	4	4	0.5	0.5
5/27/2025	7	1.3	7	0.9	8659	5.37337494	103	3	4	0.3	0.5
5/28/2025	8	1.5	8	1.1	9880	5.2736249	107	4	4	0.5	0.5
5/29/2025	9	6.5	9	6	75044	6.54237509	379	6	4	0.4	5.6
5/30/2025	9	1.6	9	1.1	10164	6.60712528	107	5	4	0.6	0.5
5/31/2025	8	1.5	8	1.1	9988	6.96412516	105	4	4	0.5	0.5
6/1/2025	8	1.5	8	1.1	9968	7.04637527	105	4	4	0.5	0.5
6/2/2025	8	1.5	8	1.1	9953	6.96850014	105	4	4	0.5	0.5
6/3/2025	8	1.5	8	1.1	9968	6.80137491	106	4	4	0.5	0.5
6/4/2025	8	1.5	8	1.1	9948	6.5388751	106	4	4	0.5	0.5
6/5/2025	6	1.1	6	0.8	7376	6.31400013	93	3	3	0.3	0.4
6/6/2025	7	1.3	7	0.9	8648	5.6638751	104	3	4	0.3	0.5
6/7/2025	7	1.3	7	0.9	8658	5.9937501	101	4	3	0.5	0.4
6/8/2025	7	1.3	7	0.9	8678	6.29212475	101	3	4	0.3	0.5
6/9/2025	7	1.3	7	0.9	8683	6.55375004	99	4	3	0.5	0.4
6/10/2025	8	1.5	8	1.1	9953	6.44525003	116	4	4	0.5	0.5
6/11/2025	8	1.5	8	1.1	9987	6.57912493	113	4	4	0.5	0.5
6/12/2025	9	1.7	9	1.2	11255	6.18187523	121	4	5	0.5	0.7
6/13/2025	9	1.7	9	1.2	11252	6.04887486	121	5	4	0.6	0.5
6/14/2025	9	1.6	9	1.1	10428	6.17837477	112	4	4	0.5	0.5
6/15/2025	9	1.6	9	1.1	10478	6.80750036	113	4	5	0.5	0.7
6/16/2025	9	1.7	9	1.2	11254	6.63687515	115	5	4	0.6	0.5
6/17/2025	8	1.5	8	1.1	9993	6.76025009	111	4	4	0.5	0.5
6/18/2025	9	1.7	9	1.2	11233	6.28512526	119	4	5	0.5	0.7
6/19/2025	8	1.5	8	1.1	10004	6.61237526	123	4	4	0.5	0.5
6/20/2025	9	1.7	9	1.2	11267	6.27724981	138	5	4	0.6	0.5
6/21/2025	9	1.7	9	1.2	11252	5.43375015	140	4	5	0.5	0.7
6/22/2025	8	1.5	8	1.1	10004	5.9517498	136	4	4	0.5	0.5
6/23/2025	9	1.7	9	1.2	11252	5.2263751	143	5	4	0.6	0.5
6/24/2025	8	1.5	8	1.1	10018	5.81699991	130	4	4	0.5	0.5
6/25/2025	9	1.7	9	1.2	11225	4.92974997	122	4	5	0.5	0.6
6/26/2025	9	1.5	8	1.1	10004	5.82925034	118	4	5	0.5	0.6
6/27/2025	8	1.5	8	1.1	9980	6.52662516	111	4	4	0.5	0.5
6/28/2025	8	1.5	8	1.1	9980	6.453125	114	4	4	0.5	0.5
6/29/2025	8	1.5	8	1.1	9975	6.39799976	116	4	4	0.5	0.5
6/30/2025	8	1.5	8	1.1	9971	6.48374987	115	4	4	0.5	0.5
7/1/2025	9	1.6	9	1.1	10599	5.82574987	120	4	4	0.5	0.5
7/2/2025	9	1.6	9	1.1	10282	5.85900021	116	5	4	0.6	0.5
7/3/2025	8	1.5	8	1.1	9995	6.06287479	116	4	4	0.5	0.5
7/4/2025	8	1.5	8	1.1	9985	6.26762486	115	4	4	0.5	0.5
7/5/2025	8	1.5	8	1.1	9984	6.09175014	117	4	4	0.5	0.5
7/6/2025	6	1.1	6	0.8	7517	6.39187479	106	3	3	0.4	0.4
7/7/2025	9	1.7	9	1.2	11268	5.95000029	121	4	5	0.5	0.7
7/8/2025	8	1.5	8	1.1	10001	6.27549982	116	4	4	0.5	0.5

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Groundwater Treatment Plant Operations Summary
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Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
7/9/2025	8	1.5	8	1.1	10005	6.52750015	114	4	4	0.5	0.5
7/10/2025	8	1.5	8	1.1	9978	6.59049988	113	4	4	0.5	0.5
7/11/2025	9	1.7	9	1.2	11256	5.8187499	121	5	4	0.6	0.5
7/12/2025	8	1.5	8	1.1	10009	6.2571249	116	4	4	0.5	0.5
7/13/2025	8	1.5	8	1.1	9997	6.48199987	115	4	4	0.5	0.5
7/14/2025	8	1.5	8	1.1	9998	6.78649998	114	4	4	0.5	0.5
7/15/2025	9	1.7	9	1.2	11266	6.41549969	120	4	5	0.5	0.7
7/16/2025	9	1.7	9	1.2	11284	6.2973752	120	5	4	0.6	0.5
7/17/2025	9	1.7	9	1.2	11291	5.99637508	122	4	5	0.5	0.7
7/18/2025	9	1.7	9	1.2	11288	6.14424992	121	5	4	0.6	0.5
7/19/2025	9	1.7	9	1.2	11292	6.19412518	119	4	5	0.5	0.7
7/20/2025	9	1.7	9	1.2	11289	6.02787495	121	5	4	0.6	0.5
7/21/2025	9	1.6	9	1.1	10298	6.03487492	115	4	4	0.5	0.5
7/22/2025	9	1.7	9	1.2	10695	6.64737511	76	4	5	0.5	0.7
7/23/2025	9	1.7	9	1.2	11262	6.33587503	120	5	4	0.6	0.5
7/24/2025	8	1.5	8	1.1	10011	6.65262508	116	4	4	0.5	0.5
7/25/2025	9	1.7	9	1.2	11267	6.25012493	124	4	5	0.5	0.7
7/26/2025	8	1.5	8	1.1	9999	6.57212496	114	4	4	0.5	0.5
7/27/2025	9	1.7	9	1.2	11253	6.1486249	121	5	4	0.6	0.5
7/28/2025	8	1.5	8	1.1	10005	6.44437504	116	4	4	0.5	0.5
7/29/2025	8	1.5	8	1.1	9997	6.54150009	118	4	4	0.5	0.5
7/30/2025	8	1.5	8	1.1	10012	6.69199991	118	4	4	0.5	0.5
7/31/2025	9	1.7	9	1.2	11254	6.08912516	121	4	5	0.5	0.7
8/1/2025	8	1.5	8	1.1	9966	6.65087509	111	4	4	0.5	0.5
8/2/2025	8	1.5	8	1.1	9964	6.6500001	113	4	4	0.5	0.5
8/3/2025	8	1.5	8	1.1	9967	6.56949997	114	4	4	0.5	0.5
8/4/2025	8	1.5	8	1.1	9971	6.41900015	113	4	4	0.5	0.4
8/5/2025	7	1.3	7	0.9	8708	6.96412516	110	4	4	0.5	0.4
8/6/2025	8	1.5	8	1.1	9975	7.02975035	112	4	4	0.5	0.5
8/7/2025	8	1.5	8	1.1	9953	6.92387486	113	4	4	0.5	0.5
8/8/2025	8	1.5	8	1.1	9958	6.86087513	113	4	4	0.5	0.5
8/9/2025	8	1.5	8	1.1	9969	6.51349974	112	4	4	0.4	0.5
8/10/2025	7	1.3	7	0.9	8696	6.99825001	108	4	4	0.4	0.5
8/11/2025	8	1.5	8	1.1	9956	6.77600002	114	4	4	0.5	0.5
8/12/2025	8	1.5	8	1.1	9943	6.05500031	115	4	4	0.5	0.5
8/13/2025	7	1.3	7	0.9	8714	6.79787493	108	4	3	0.5	0.4
8/14/2025	8	1.5	8	1.1	9950	6.71037531	113	4	4	0.5	0.5
8/15/2025	7	1.3	7	0.9	8686	6.95537472	109	3	4	0.4	0.5
8/16/2025	8	1.5	8	1.1	9963	6.64474964	115	4	4	0.5	0.5
8/17/2025	7	1.3	7	0.9	8703	6.98512459	111	4	3	0.5	0.4
8/18/2025	8	1.5	8	1.1	9906	6.97462511	113	4	4	0.5	0.5
8/19/2025	7	1.3	7	0.9	8703	7.17587519	111	3	4	0.4	0.5
8/20/2025	8	1.5	8	1.1	9948	7.15049982	108	4	4	0.5	0.5
8/21/2025	7	1.3	7	0.9	8691	7.30887461	101	4	3	0.5	0.4
8/22/2025	8	1.5	8	1.1	9930	7.05774975	112	4	4	0.5	0.5
8/23/2025	7	1.3	7	0.9	8673	7.13475037	107	3	4	0.4	0.5
8/24/2025	8	1.5	8	1.1	9905	6.82937479	111	4	4	0.5	0.5
8/25/2025	7	1.3	7	0.9	8683	7.08837509	107	4	3	0.5	0.4
8/26/2025	7	1.3	7	0.9	8688	7.24937487	104	3	4	0.3	0.5
8/27/2025	8	1.5	8	1.1	9903	7.02362537	110	4	4	0.5	0.5
8/28/2025	7	1.3	7	0.9	8666	7.22837448	105	4	3	0.5	0.4
8/29/2025	7	1.3	7	0.9	8657	7.28087521	104	3	4	0.3	0.5
8/30/2025	7	1.3	7	0.9	8666	7.37274981	105	4	3	0.5	0.4
8/31/2025	7	1.3	7	0.9	8646	7.29575014	104	3	4	0.3	0.5
9/1/2025	7	1.3	7	0.9	8660	7.29224968	105	4	3	0.5	0.4
9/2/2025	8	1.5	8	1.1	9900	6.8451252	107	4	4	0.5	0.5
9/3/2025	7	1.3	7	0.9	8665	6.86175013	100	3	4	0.3	0.5
9/4/2025	7	1.3	7	0.9	8663	6.98075008	99	4	3	0.5	0.4
9/5/2025	7	1.3	7	0.9	8659	6.8267498	100	3	4	0.4	0.5
9/6/2025	7	1.3	7	0.9	8666	6.83200026	101	4	3	0.5	0.4
9/7/2025	7	1.3	7	0.9	8653	6.93000031	101	3	4	0.4	0.5
9/8/2025	7	1.3	7	0.9	8651	7.00437498	100	4	3	0.5	0.4
9/9/2025	7	1.2	7	0.9	8127	7.03499985	98	3	3	0.3	0.4

Table B-1
2025

Groundwater Treatment Plant Operations Summary
Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
9/10/2025	7	1.2	7	0.8	7609	7.26075029	96	3	4	0.4	0.5
9/11/2025	7	1.3	7	0.9	8652	7.20037508	103	4	3	0.5	0.4
9/12/2025	7	1.3	7	0.9	8651	7.13387489	105	3	4	0.4	0.5
9/13/2025	7	1.3	7	0.9	8655	7.0454998	107	4	3	0.5	0.4
9/14/2025	7	1.3	7	0.9	8661	6.89937496	108	3	4	0.4	0.5
9/15/2025	7	1.3	7	0.9	8646	6.76637459	105	4	3	0.5	0.4
9/16/2025	6	1.1	6	0.8	7424	7.28174973	96	3	3	0.4	0.4
9/17/2025	7	1.3	7	0.9	8646	7.25287437	101	3	4	0.4	0.5
9/18/2025	7	1.3	7	0.9	8644	7.09800053	105	4	3	0.5	0.4
9/19/2025	7	1.3	7	0.9	8647	6.83812523	108	3	4	0.4	0.5
9/20/2025	6	1.1	6	0.8	7404	7.2012496	101	3	3	0.4	0.4
9/21/2025	7	1.3	7	0.9	8669	7.21525002	103	4	3	0.5	0.4
9/22/2025	7	1.3	7	0.9	8636	7.07349968	104	3	4	0.4	0.5
9/23/2025	7	1.3	7	0.9	8656	6.68937492	104	4	3	0.4	0.4
9/24/2025	7	1.1	6	0.8	7405	7.22749996	97	4	3	0.4	0.4
9/25/2025	7	1.3	7	0.9	8649	7.14349937	104	3	4	0.4	0.5
9/26/2025	7	1.3	7	0.9	8651	6.94662523	106	4	3	0.5	0.4
9/27/2025	6	1.1	6	0.8	7422	7.25724983	99	3	3	0.4	0.4
9/28/2025	7	1.3	7	0.9	8652	7.12862539	108	3	4	0.4	0.5
9/29/2025	7	1.3	7	0.9	8639	7.07875013	103	4	3	0.5	0.4
9/30/2025	7	1.3	7	0.9	8628	6.96062469	104	3	4	0.4	0.5
10/1/2025	7	1.3	7	0.9	8674	7.06912518	102	4	3	0.5	0.4
10/2/2025	6	1.1	6	0.8	7436	7.37274981	98	3	3	0.4	0.4
10/3/2025	7	1.3	7	0.9	8649	7.30274963	104	3	4	0.4	0.5
10/4/2025	7	1.3	7	0.9	8643	6.96149969	106	4	3	0.5	0.4
10/5/2025	6	1.1	6	0.8	7401	7.22049999	100	3	3	0.4	0.4
10/6/2025	7	1.3	7	0.9	8634	7.03762531	105	3	4	0.4	0.5
10/7/2025	7	1.3	7	0.9	8644	6.88100004	109	4	3	0.5	0.4
10/8/2025	6	1.1	6	0.8	7404	7.32724953	96	3	3	0.4	0.4
10/9/2025	7	1.3	7	0.9	8644	7.40774965	102	3	4	0.5	0.7
10/10/2025	4	0.7	4	0.5	4972	7.46549988	63	2	2	0.4	0.2
10/11/2025	6	1.1	6	0.8	7330	7.35699987	95	3	3	0.4	0.5
10/12/2025	5	0.9	5	0.6	6114	7.48649979	88	3	2	0.4	0.3
10/13/2025	7	1.3	7	0.9	8638	7.3508749	99	3	4	0.4	0.7
10/14/2025	7	1.3	7	0.9	8648	7.43487453	99	4	3	0.6	0.5
10/15/2025	7	1.3	7	0.9	8647	7.43662453	107	3	4	0.5	0.7
10/16/2025	7	1.3	7	0.9	8611	7.44099998	118	4	3	0.7	0.6
10/17/2025	7	1.3	7	0.9	8623	7.33774948	119	3	4	0.5	0.9
10/18/2025	6	1.1	6	0.8	7380	7.27737522	113	3	3	0.5	0.6
10/19/2025	7	1.3	7	0.9	8379	7.25462532	118	4	3	0.6	0.5
10/20/2025	7	1.3	7	0.9	8632	7.40250015	117	3	4	0.5	0.8
10/21/2025	8	1.5	8	1	9233	7.18812513	114	4	8	0.8	0.9
10/22/2025	6	1.1	6	0.8	7372	7.40162468	97	3	3	0.6	0.9
10/23/2025	7	1.3	7	0.9	8462	7.40599966	106	4	3	0.9	1
10/24/2025	7	1.3	7	0.9	8613	7.35874987	109	3	4	0.8	1.7
10/25/2025	7	1.3	7	0.9	8497	7.20912552	110	3	3	2.1	7.5
10/26/2025	7	1.2	6	0.8	7373	7.39287519	114	2	2	2.6	14.2
10/27/2025	7	1.3	7	0.9	8613	7.29137516	116	3	2	2.2	13.7
10/28/2025	7	1.2	7	0.8	7446	7.3920002	109	3	3	10.3	0.7
10/29/2025	7	1.3	7	0.9	8577	7.3053751	106	1	1	0.1	0.1
10/30/2025	6	1.1	6	0.8	7385	7.32025003	98	1	1	0.1	0.1
10/31/2025	7	1.3	7	0.9	8612	7.32375002	104	1	1	0.1	0.1
11/1/2025	7	1.3667	7	0.966667	8602.6667	7.28962517	107	1	1	0.2	0.2
11/2/2025	7	1.3667	7	0.966667	8602.6667	7.28962517	107	1	1	0.2	0.2
11/3/2025	7	1.3667	7	0.966667	8602.6667	7.28962517	107	1	1	0.2	0.2
11/4/2025	7	1.3	7	0.9	8598	7.23800039	107	1	2	0.1	0.3
11/5/2025	7	1.3	7	0.9	8607	7.05862522	105	1	1	0.1	0.1
11/6/2025	7	1.3	7	0.9	8334	7.02799988	112	4	4	0.3	0.3
11/7/2025	6	1.1	6	0.8	7364	7.30362511	96	3	3	0.3	0.4
11/8/2025	7	1.3	7	0.9	8594	7.23274994	103	4	3	0.5	0.4
11/9/2025	7	1.3	7	0.9	8598	7.14787483	105	3	4	0.3	0.5
11/10/2025	7	1.3	7	0.9	8596	6.96937513	109	4	3	0.5	0.4
11/11/2025	6	1.1	6	0.8	7357	7.29400063	108	3	3	0.3	0.4

Table B-1
2025

Groundwater Treatment Plant Operations Summary
Former York Naval Ordnance Plant
1425 Eden Road, York, PA 17402

Date	AST Blower Cycles	AST Blower Hours	AST Pump Cycles	AST Pump Hours	Discharge Flow (gallons)	Influent pH (S.U.)	GWTS KWH	Effluent Pump P1 Cycles	Effluent Pump P2 Cycles	Effluent Pump P1 Hours	Effluent Pump P2 Hours
11/12/2025	7	1.3	7	0.9	8582	7.13387489	104	3	4	0.3	0.5
11/13/2025	6	1.1	6	0.8	7346	7.31324959	110	3	3	0.3	0.4
11/14/2025	7	1.3	7	0.9	8567	7.16537523	124	4	3	0.5	0.4
11/15/2025	7	1.3	7	0.9	8571	6.81537485	128	3	4	0.3	0.5
11/16/2025	6	1.1	6	0.8	7343	7.18899965	117	3	3	0.3	0.4
11/17/2025	7	1.3	7	0.9	8575	6.90987492	127	4	3	0.5	0.4
11/18/2025	6	1.1	6	0.8	7351	7.17412519	112	3	3	0.3	0.4
11/19/2025	7	1.2	7	0.9	8066	6.90287495	128	3	3	0.3	0.4
11/20/2025	7	1.2	7	0.8	7517	7.09275007	105	3	4	0.3	0.5
11/21/2025	6	1.1	6	0.8	7341	7.23974991	102	3	3	0.3	0.4
11/22/2025	7	1.3	7	0.9	8563	7.10325003	110	4	3	0.5	0.4
11/23/2025	6	1.1	6	0.8	7330	7.20825005	102	3	3	0.3	0.4
11/24/2025	7	1.3	7	0.9	8566	7.01487541	106	3	4	0.3	0.5
11/25/2025	6	1.1	6	0.8	7331	7.16362524	105	3	3	0.3	0.4
11/26/2025	7	1.3	7	0.9	8567	7.00962448	106	4	3	0.5	0.4
11/27/2025	6	1.1	6	0.8	7339	7.15750027	108	3	3	0.3	0.4
11/28/2025	7	1.3	7	0.9	8558	6.94487476	111	3	4	0.3	0.5
11/29/2025	6	1.1	6	0.8	7355	6.98250008	-27	3	3	0.3	0.4
11/30/2025	7	1.3	7	0.9	8580	6.76987505	111	4	3	0.5	0.4
12/1/2025	6	1.1	6	0.8	7329	7.12774992	102	3	3	0.3	0.4
12/2/2025	7	1.3	7	0.9	8572	6.96237469	111	3	4	0.3	0.5
12/3/2025	7	1.3	7	0.9	8565	6.49250031	106	4	3	0.5	0.4
12/4/2025	6	1.1	6	0.8	7333	7.00700045	106	3	3	0.3	0.4
12/5/2025	7	1.3	7	0.9	8556	6.77512503	117	3	4	0.3	0.5
12/6/2025	6	1.1	6	0.8	7330	7.07525063	104	3	3	0.3	0.4
12/7/2025	7	1.3	7	0.9	8550	6.87925005	111	4	3	0.5	0.4
12/8/2025	6	1.1	6	0.8	7337	7.07787466	109	3	3	0.3	0.4
12/9/2025	7	1.3	7	0.9	8504	6.86437464	119	3	4	0.3	0.5
12/10/2025	7	1.3	7	0.9	8552	6.41112518	120	4	3	0.5	0.4
12/11/2025	6	1.1	6	0.8	7334	6.90024996	112	3	3	0.3	0.4
12/12/2025	7	1.3	7	0.9	8477	6.37612534	108	3	4	0.3	0.4
12/13/2025	7	1.1	6	0.8	7332	6.75499964	106	3	4	0.3	0.4
12/14/2025	6	1.1	6	0.8	7323	6.97550011	109	3	3	0.3	0.4
12/15/2025	7	1.3	7	0.9	8542	6.56424999	120	4	3	0.5	0.4
12/16/2025	6	1.1	6	0.8	7322	6.80137491	107	3	3	0.3	0.4
12/17/2025	7	1.1	7	0.8	7317	6.95187521	107	3	3	0.3	0.4
12/18/2025	7	1.3	7	0.9	8190	6.57299995	107	3	4	0.3	0.5
12/19/2025	6	1.1	6	0.8	7322	6.89937496	103	3	3	0.3	0.4
12/20/2025	7	1.3	7	0.9	8526	6.39537525	111	4	3	0.5	0.4
12/21/2025	6	1.1	6	0.8	7317	6.77250004	103	3	3	0.3	0.4
12/22/2025	7	1.3	7	0.9	8521	6.01387501	110	3	4	0.3	0.5
12/23/2025	6	1.1	6	0.8	7311	6.66225004	107	3	3	0.3	0.4
12/24/2025	6	1.1	6	0.8	7314	6.89237499	105	3	3	0.3	0.4
12/25/2025	7	1.3	7	0.9	8542	6.57299995	111	4	3	0.5	0.4
12/26/2025	6	1.1	6	0.8	7315	6.84950018	109	3	3	0.3	0.4
12/27/2025	7	1.3	7	0.9	8542	6.30350018	110	3	4	0.3	0.5
12/28/2025	6	1.1	6	0.8	7319	6.68149996	104	3	3	0.3	0.4
12/29/2025	5	0.9	5	0.6	5547	6.41462469	69	3	2	0.3	0.2
12/30/2025	9	0.9	6	0.6	5388	6.64562464	74	2	2	0.2	0.2
12/31/2025	8	1.5	8	1.1	9800	5.89050007	120	4	4	0.4	0.5
12/31/2024	6	1.1	6	0.8	7318	6.09000015	108	3	3	0.4	0.4

APPENDIX C

2025 Operation and Maintenance Data Summary

Table C-1
2025 OPERATION AND MAINTENANCE DATA SUMMARY
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

TECHNICIAN	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN		
Date	1/2/2025	1/16/2025	2/4/2025	2/25/2025	3/6/2025	3/18/2025	4/3/2025	4/17/2025	5/6/2025	5/19/2025	6/10/2025	6/17/2025	7/1/2025	7/22/2025	8/5/2025	8/19/2025	9/9/2025	9/30/2025	10/3/2025	10/21/2025	11/11/2025	11/18/2025	12/9/2025	12/23/2025	
PTA INFL. PUMP																									
Full Load = 17																									
AMPS	NM	7.5	NM	NM	NM	NM	NM	NM	7.60	NM	NM	NM	NM	7.50	NM	NM	NM	NM	NM	7.70	NM	NM	NM	NM	
FLOW RATE gpm	161	161	161	161	161	161	161	161	160	157	161	163	251	152	161	162	158	155	165	159	159	160	188	158	
PTA BLOWER																									
Full Load = 24																									
AMP READINGS	NM	24.39	NM	NM	NM	NM	NM	NM	22.14	NM	NM	NM	NM	23.00	NM	NM	NM	NM	NM	23.6	NM	NM	NM	NM	
PRESSURE inches water	15.7	16.4	15.3	15.6	15.3	15.6	15.4	15.6	14.6	15	14.7	14.6	14.1	13.6	14.8	13.6	13.5	14.7	13.3	14	15.3	15.5	15.9	15.9	
TOWER PANEL																									
VISUAL INSPECT	OK	OK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	OK	NA	NA	NA	NA	NA	OK	NA	NA	NA	NA	
WARWICK SECURE	OK	OK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	OK	NA	NA	NA	NA	NA	OK	NA	NA	NA	NA	
TOWER SAMPLING																									
AST EFFLUENT pH	7.29	NM	7.16	NM	7.2	NM	7.27	NM	7.77	NM	7.3	NM	7.19	NM	7.4	NM	7.2	NM	6.5	NM	7.0	NM	6.7	NM	
AST INFLUENT pH	6.38	6.08	6.18	5.49	6.41	5.7	6.44	5.11	6.48	5.1	6.1	6.72	5.83	6.43	6.2	6.84	6.4	4.31	6.2	6.40	6.8	7.06	6.3	6.20	
REDUX CHEMICAL INJECTION																									
LMI PUMP SPEED (%)	28	29	28	28	28	29	29	28	28	29	29	29	27	28	28	29	28	29	28	27	28	28	28	28	
LMI INJECTION RATE (mills/min)	8.1	8	8.6	8.4	8.2	8.3	8.5	8.2	7.9	8.8	8.8	8.8	8.6	8.7	8.7	8.5	7.7	8.3	8.5	8.7	8.2	8.3	7.9	8.7	
WPL WELLS																									
TOTAL FLOW RATE gpm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW-9; Full Load = 5.5																									
AMPS	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
FLOW RATE gpm	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
PRESSURE psi	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CLEAN "Y" STRAINER	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
HIGH LEVEL ALARM?	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CW-13; Full Load = 11.5																									
AMPS	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
FLOW RATE gpm	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
PRESSURE psi	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CLEAN "Y" STRAINER	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
HIGH LEVEL ALARM?	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CW-17; Full Load = 11.5																									
AMPS	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
FLOW RATE gpm	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
PRESSURE psi	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CLEAN "Y" STRAINER	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
HIGH LEVEL ALARM?	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CW-15A; Full Load = 1.6																									
AMPS	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
FLOW RATE gpm	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
PRESSURE psi	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CLEAN "Y" STRAINER	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
HIGH LEVEL ALARM?	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CW-20 Full Load = 17.3																									
AMPS	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
FLOW RATE gpm	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
PRESSURE psi	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
CLEAN "Y" STRAINER	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
HIGH LEVEL ALARM?	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
AST influent pressure	inches of water	10.5	10.2	10.0	10.1	10.0	10	10	10.1	9.5	9.6	9.5	9.6	12.9	13.6	9.7	9.7	9.6	9.7	9.6	9.5	10.1	10.1	10.5	10.3
GAC influent pressure	inches of water	8.5	8.8	8.2	8.2	8.2	8.3	8.3	8.4	7.8	7.8	7.7	7.8	7.2	9.6	7.9	7.9	7.8	7.9	7.9	8.3	8.1	8.2	8.6	8.4
AST pitot pressure	inches of water	0.23	0.23	0.22	0.22	0.22	0.23	0.23	0.23	0.21	0.21	0.22	0.21	0.20	0.23	0.22	0.22	0.21	0.21	0.22	0.21	0.21	0.22	0.23	

Table C-1
2025 OPERATION AND MAINTENANCE DATA SUMMARY
Former York Naval Ordnance Plant
1425 Eden Road, York PA 17402

TECHNICIAN	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN	
Date	1/2/2025	1/16/2025	2/4/2025	2/25/2025	3/6/2025	3/18/2025	4/3/2025	4/17/2025	5/6/2025	5/19/2025	6/10/2025	6/17/2025	7/1/2025	7/22/2025	8/5/2025	8/19/2025	9/9/2025	9/30/2025	10/3/2025	10/21/2025	11/11/2025	11/18/2025	12/9/2025	12/23/2025
SPBA WELLS																								
TOTAL FLOW RATE gpm	4.9	4.8	4.8	5	4.9	4.8	4.8	4.9	5.9	6	6.3	6.6	6.3	6.8	6	5.5	5.1	5	5	4.9	5.1	5	4.9	4.8
CW-21; Full Load = 5																								
AMPS	NM	2.58	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.1	NM	NM	NM	NM	NM	3.4	NM	NM	NM	NM
FLOW-RATE gpm	3	3	2.8	2.9	2.9	2.8	3	3.0	3.3	3.1	4.2	3.9	3.6	3.8	3.5	3.3	3.0	3.1	2.9	2.9	3.1	2.8	2.9	2.9
PRESSURE psi	9.1	9.1	9.1	8.9	9.2	9.2	9.4	9.2	10.1	17.6	18.3	18.3	18.2	18.2	18.3	18.3	17.9	18	17.7	17.5	17	16.7	16.3	16.2
TARGET LEVEL	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
TRANSDUCER READING	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
PUMP SPEED %	74	73	73	74	74	73	74	74	75	79	83	81	80	82	80	79	79	79	79	78	78	77	77	77
CLEAN TRANSDUCER	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
WATER CLARITY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
HIGH LEVEL ALARM?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CW-22; Full Load = 3.9																								
AMPS	NM	2.2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.3	NM	NM	NM	NM	NM	NM	2.8	NM	NM	NM
FLOW-RATE gpm	1.7	1.7	1.6	1.8	1.7	1.5	1.6	1.6	1.9	2	1.3	2.1	1.9	1.8	1.6	1.6	1.5	1.5	1.6	1.9	1.9	1.7	1.8	1.8
PRESSURE psi	9	9	9	8.8	9.2	9.1	9.3	9.2	10.1	17.6	18.4	18.3	18.2	18.2	18.3	18.2	17.9	17.9	17.8	17.5	17.1	16.7	16.3	16.1
TARGET LEVEL	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
TRANSDUCER READING	97	97	97	97	97	97	97	97	97.4	97	77.1	86.1	97	97	97	97	97	97	97	97	97.4	97	97	97
PUMP SPEED %	73	72	73	73	72	72	73	73	73	78	85	95	95	95	94	93	92	92	91	94	92	93	93	93
CLEAN TRANSDUCER	N	N	N	N	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N
WATER CLARITY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
HIGH LEVEL ALARM?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CW-23; Full Load = 3.9																								
AMPS	NM	1.68	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	1.8	NM	NM	NM	NM	NM	NM	1.6	NM	NM	NM
FLOW-RATE gpm	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.5	0.5	0.8	0.7	0.9	0.8	1.0	0.7	0.7	0.5	0.4	0.3	0.3	0.2	0.4	0.3	0.4
PRESSURE psi	9	9.1	9.1	8.8	9.2	9	9.4	9.2	10.1	17.6	18.3	18.3	18.2	18.1	18.1	18.2	17.6	17.6	17.9	17.3	16.9	16.5	16.1	16.1
TARGET LEVEL	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
TRANSDUCER READING	57	57	57.1	57	56.9	57	57	57	57	57	55.4	57	57	57	57	57	56.9	57	57	57	57.1	57	57	57
PUMP SPEED %	68	68	68	68	68	68	68	68	69	75	75	75	75	75	75	75	74	74	73	73	73	73	73	73
CLEAN TRANSDUCER	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
WATER CLARITY	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
HIGH LEVEL ALARM?	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Notes: Y - Yes N - No NA - Not Applicat. - Not Applicable - Not Measured - Not Measured OL - Off Line