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Date: June 24, 2024
Our Ref: 30115971.50010
Subject: 2023 Annual Operation, Maintenance,
and Monitoring (OM&M) Report
Seymour Superfund Site, Seymour, Indiana

Dear Mr. Gore,

On behalf of the Seymour Site Trust, Arcadis is providing the 2023 Annual OM&M Report for the Seymour Superfund Site, Seymour, Indiana. Please feel free to contact Matt Foresman at (314) 694-3744 or myself if you have any questions or comments.

Sincerely,
Arcadis of New York, Inc.

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Project Manager

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Seymour Site Trust

2023 Annual Operation, Maintenance, and Monitoring Report

Seymour Site, Seymour, Indiana

June 2024

2023 Annual Operation, Maintenance, and Monitoring Report

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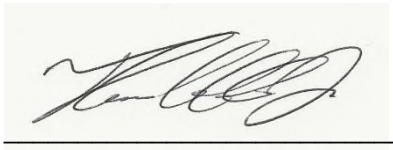
30210154.50010



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Acronyms and Abbreviations

AOP	advanced oxidation process
APT	Applied Process Technology
CA	chloroethane
CD	Consent Decree
cis-1,2-DCE	cis-1,2-dichloroethene
COS	City of Seymour
CSWTF	City of Seymour Wastewater Treatment Plant
DA	deep aquifer
USEPA	United States Environmental Protection Agency
gpm	gallons per minute
GWTS	groundwater treatment system
H2O2	hydrogen peroxide
HDPE	high-density polyethylene
IDEM	Indiana Department of Environmental Management
lb/day	pounds per day
LOTO	Lock out tag out
LS	lower sand
µg/L	micrograms per liter
O3	ozone
O&M	operation and maintenance
OM&M	operation, maintenance, and monitoring
POTW	publicly owned treatment works
PVS	passive venting system
RAO	remedial action objective
ROD	Record of Decision
SA	shallow aquifer
SCADA	Supervisory Control and Data Acquisition
SSSC	Seymour Site-Specific Compound
THF	tetrahydrofuran
TVOC	total volatile organic compound

USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

1 Introduction

Arcadis of New York, Inc. (Arcadis), on behalf of the Seymour Site Trust, has prepared this Annual Operation, Maintenance, and Monitoring (OM&M) Report for submittal to the United States Environmental Protection Agency (USEPA) and the Indiana Department of Environmental Management (IDEM).

The Seymour Site (the Site) is located approximately 2.3 miles southwest of the central business district of Seymour, Indiana, near the northwest corner of Freeman Municipal Airport and Industrial Park (Figure 1). The Site is a federal Superfund site, with remediation of soil and groundwater conducted pursuant to a Consent Decree (CD) dated December 1, 1988. The original Groundwater Treatment System (GWTS) operated from August 1989 to October 2001. The GWTS was shut down and natural attenuation monitoring was initiated in October 2001. Observed increases in concentrations of 1,4-dioxane in groundwater resulted in the modification of the existing system to remediate the 1,4-dioxane impacts. The modified GWTS has been operational since December 15, 2011 (see Figure 2).

This Annual OM&M report summarizes the Seymour Site OM&M activities performed between July 1 and December 31, 2023 (hereinafter referred to as the reporting period). Seymour Site OM&M activities consisted of the following:

- Hydraulic monitoring of environmental effectiveness to assess groundwater flow and the GWTS capture zones in the shallow aquifer (SA) and lower sand (LS) unit (Table 4 and Figures 3 and 4, respectively).
- Site-wide groundwater quality monitoring to assess the areal extent of impacted groundwater and concentration trends of volatile organic compounds (VOCs) and 1,4-dioxane in site-wide groundwater (Tables 5 and 6).
- GWTS performance monitoring to ensure that all components operate in accordance with applicable design standards. Table 3 of the OM&M Plan (Arcadis 2014) includes the performance monitoring program.
- GWTS compliance sampling to monitor the water discharge quality and ensure its compliance with the City of Seymour Publicly Owned Treatment Works (COS POTW) Discharge Authorization for Seymour Recycling Site Groundwater Extraction System and Related Discharges (Discharge Authorization). The original Discharge Authorization is dated October 10, 1988, and the Amended Discharge Authorization is dated May 26, 2011 (refer to Appendix A-8 of the OM&M Plan [Arcadis 2014]). Table 3 of the OM&M Plan also summarizes the compliance monitoring program.
- Collection of a surface water sample immediately downstream of the COS POTW outfall mixing zone for the analysis of 1,4-dioxane.
- Visual inspection of the multi-media cap and passive venting system (PVS) to ensure that all components are operated and maintained in accordance with the applicable design standards. Table 4 of the OM&M Plan (Arcadis 2014) summarizes the multi-media cap and PVS maintenance schedule.

2 Remedial Objectives

The remedial action objectives (RAOs) for the components of the site remedy are as follows:

- GWTS

  - Ensure that concentrations of 1,4-dioxane and VOCs are hydraulically controlled and do not expand beyond the limits of the off-site deed restricted area where groundwater-use restrictions apply (see Figure 15).
  - Treat extracted groundwater to reduce VOCs and 1,4-dioxane concentrations to levels that meet the COS POTW Effluent Discharge Limits, agreed upon by IDEM (Table 1 of OM&M Plan [Arcadis 2014]).
- PVS
  - Maintain a passive flow of air underneath the cap to promote aerobic biodegradation beneath the cap.
  - Provide a venting system to eliminate the build-up of gas and/or VOCs beneath the cap.
- Multi-media cap
  - Provide protection against potential surface exposure of humans, animals, or plant life to impacted soil.
  - Eliminate migration of potentially impacted sediments transported by surface-water runoff.
  - Eliminate migration of dissolved constituents in surface water in contact with potentially impacted site soil.
  - Reduce, to the maximum extent practicable, migration of soluble constituents through the unsaturated zone into groundwater.

In addition, the USEPA has established a residential groundwater criterion for 1,4-dioxane of 5 µg/L at the Site based on IDEM's 2024 Risk Based Closure Guide (R2) listing of 5 µg/L. Although there is currently no federal maximum contaminant level (MCL) established for 1,4-dioxane, a value of 5 µg/L is being implemented as the long-term residential groundwater criterion for 1,4-dioxane, as documented in the April 2024 Explanation of Significant Differences (USEPA 2024).

3 Site Remedial Components

The remedial components of the groundwater remedy are a GWTS, PVS, multi-media cap, and a groundwater monitoring network. The GWTS consists of four (4) SA and three (3) LS unit groundwater recovery wells and a network of underground high-density polyethylene (HDPE) conveyance piping that connects the recovery wells to the treatment system with discharge to the COS POTW. The major components of the GWTS are as follows:

- Seven (7) recovery wells with recommended target pumping rates (as of January 2019) as follows:
  - LS-RW-1: 1.5 - 1.7 gallons per minute (gpm) (when conditions are feasible)
  - LS-RW-2: 2.5 - 5.0 gpm
  - LS-RW-3: 2.5 - 5.0 gpm
  - SA-RW-1: 5.0 - 8.0 gpm
  - SA-RW-2: 14 - 16 gpm
  - SA-RW-3: 10 - 18 gpm
  - EW-6: 20 - 30 gpm
- An APTwater HiPOx® system to remove 1,4-dioxane from the extracted groundwater, if necessary. The HiPOx® system is a continuous, in-line, at-pressure advanced oxidation process (AOP) that uses ozone (O_3) and hydrogen peroxide (H_2O_2) chemistry within an oxidation reactor. The HiPOx® system is currently on standby and was off-line throughout the reporting period. However, H_2O_2 is still being injected to control biological fouling of treatment system components.

- One low-profile air stripper to remove VOCs from the extracted groundwater prior to discharge to the COS POTW.

4 Groundwater Treatment System Operation and Maintenance Activities

In general, the GWTS operated continuously during the reporting period (approximately 97 percent uptime) except for brief shut down periods (approximately 129 cumulative hours) for alarm conditions and routine and non-routine maintenance. The plant was monitored daily by the plant operator and continuously by the Supervisory Control and Data Acquisition (SCADA) system. Routine monthly operation and maintenance (O&M) activities included inspection of all piping, appurtenances, and mechanical equipment for leaks, defects, or other problems, and maintenance of equipment in accordance with the manufacturers' specifications.

System and recovery well shutdowns due to alarm conditions and non-routine O&M were as follows:

- The system was shut down for approximately 14 hours between September 6 and 7, 2023 due to an EQ Tank low level alarm. No major issues were noted and the sensor was reset following alarm.
- The system was shut down for approximately 24 hours between September 25 and 26, 2023 due to system influent low flow alarms. The well lines were power washed and the system was restarted.
- The system was shut down for approximately 15 hours between September 27 and 28, 2023 due to system influent low pressure alarms, and various low flow alarms. The manifold lines were power washed and the system was restarted.
- The system was shut down for approximately 1 hour on December 5, 2023 due to a HiPOx® system communication failure alarm. A new back-up battery was installed for the unit and the system was restarted.
- The system was shut down for approximately 31 hours between December 5 and 7, 2023 due to pump faults in SA-RW-3 and system influent low flow alarms. No major issues were noted and the system was restarted.

The following provides a summary of the recovery well downtime due to treatment system shutdown events, maintenance events, or low-water levels/low-flow rates and average flow rates for the current and previous reporting periods:

Recovery Well	Downtime (hours [days])	Optimum Range (gpm)	Current Reporting Period (gpm)	Previous Reporting Period (gpm)
LS-RW-1	943 [40]	1.5 – 1.7	0.4	0.5
LS-RW-2	1,313 [55]	2.5 – 5.0	0.2	0.4
LS-RW-3	307 [13]	2.5 – 5.0	3.5	2.5
SA-RW-1	129 [5]	5.0 – 8.0	5.9	7.2
SA-RW-2	136 [6]	14 – 16	5.5	7.5
SA-RW-3	2,954 [123]	18 – 21	7.3	15.3
EW-6	1393 [58]	20 - 30	4.4	9.6

Based on the above data, the following summarizes remedial well performance:

- LS-RW-1 continues to exhibit high amounts of down time and low flow rates, which is due to the relatively low permeability of the LS unit and seasonal hydrologic fluctuations.
- LS-RW-2 was below its optimal ranges but was able to be sustained throughout most of the reporting period.
- LS-RW-3 was maintained within its optimal range and exhibited an increase in average flow rate this reporting period versus the previous reporting period.
- SA-RW-1 continues to be maintained within its optimal range, though it did exhibit a decreased average flow rate this reporting period versus the previous reporting period. This decreasing performance is likely due to influent line fouling, well fouling and a loss of specific capacity.
- SA-RW-2 was below its optimal range but was able to be sustained throughout most of the reporting period.
- SA-RW-3 was below its optimal range, exhibiting a decreased average flow rate this reporting period versus the previous reporting period. This decreasing performance is likely due to influent line fouling, well fouling and a loss of specific capacity.
- EW-6 exhibited a decreasing flow rate, which like the other shallow aquifer wells, is likely due to influent line fouling, well fouling and a loss of specific capacity.

A recovery well redevelopment event will be conducted in 2024 to increase recovery well productivity.

5 Groundwater Treatment System Compliance and Performance Monitoring

5.1 Monitoring Activities

In accordance with the long-term monitoring requirements outlined in the OM&M Plan and the Discharge Authorization, quarterly compliance sampling events were completed during the reporting period. The quarterly compliance sampling events consisted of collecting system effluent water samples (SP-710) on September 6 and December 13, 2023, and one system influent water sample (SP-500) on December 13, 2023.

Daily performance monitoring and system operational parameter recordings were also completed during the reporting period to ensure the efficient operation of the treatment system components. The GWTS performance monitoring results are provided in the following discussion along with the tables, figures, and appendices cited below:

- System influent and effluent water sample analytical results are provided in Tables 1 and 2, respectively. Water sample laboratory analytical packages are electronically stored by Arcadis and are available upon request. COS POTW Discharge Authorization reports for the reporting period are submitted to the COS POTW on a monthly basis and are included as Appendix A.
- A summary of the groundwater quantity recovered, 1,4-dioxane and total VOCs (TVOC) mass removed and mass recovery rates are provided in Table 3. Cumulative 1,4-dioxane and TVOC mass removed through December 2023 are shown on Figure 5.
- 1,4-Dioxane and TVOC mass recovery rates through December 2023 are shown on Figure 6.

- Effluent water 1,4-dioxane and TVOC concentrations through December 2023 were below the POTW Discharge Authorization Standard, as shown on Figure 7.
- Effluent water daily maximum and minimum pH measurements through December 2023 were within the acceptable range, as shown and as noted on Figure 8. Effluent water pH briefly fell slightly below the discharge authorization minimum levels for 30 minutes on September 7, 2023 (pH 4.8) and 15 minutes on October 4, 2023 (pH 4.96). The effluent pH levels returned to compliant levels upon system restart in both cases. It is unclear why the effluent pH in September 2023 briefly fell below the discharge authorization minimum. The pH measurements were within the acceptable range for the remainder of the reporting period and will be closely monitored.
- The recovery wells were sampled on October 11 and October 13, 2023 and analytical results are provided in Table 7.

5.2 Summary of OM&M Results

5.2.1 System Operation and Effectiveness

GWTS OM&M results for the reporting period are summarized below:

- Treatment system combined influent concentrations (Table 1):
  - The primary VOCs detected in the highest concentrations were chloroethane (CA), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC). Total VOC concentrations detected during this reporting period decreased from the previous reporting period.
  - 1,4-Dioxane and tetrahydrofuran (THF) concentrations detected during the reporting period decreased when compared with the previous reporting period and is consistent with historic detections.
- Total volume of groundwater recovered and treated (Table 3):
  - Approximately 8.27 million gallons were recovered during the reporting period, which resulted in a total of 14.53 million gallons recovered through 2023. The recovery rate this reporting period increased as compared to the last reporting period (2.01 million gallons more) and decreased from the recovery rate during the 2022 annual reporting period (Arcadis 2023).
  - A total of approximately 261 million gallons have been recovered since the modified system start-up in 2012.
- Total 1,4-dioxane mass recovered and 1,4-dioxane mass recovery rate (Table 3; Figures 5 and 6):
  - Approximately 3.1 pounds (lbs) of 1,4-dioxane were recovered during the reporting period.
  - Compared to historic rates, the GWTS extracted less 1,4-dioxane mass due to lower pumping rates although concentrations of 1,4-dioxane were higher during this reporting period. Overall, the 1,4-dioxane mass recovery rate during the reporting period (0.017 lb/day) was lower than the average recovery rate since system start-up through 2019 (0.044 lbs/day) but similar to recovery rates since 2022 (0.018 lb/day).
  - Approximately 152 lbs of 1,4-dioxane have been recovered since the modified system start up.
- TVOC mass recovered (Table 3; Figures 5 and 6):
  - Approximately 8.0 lbs of TVOCs were recovered during the reporting period.

  - The VOC mass recovery rate during the reporting period (0.044 lb/day) is generally consistent with historical data. The VOC mass recovery rates have generally been consistent since start up in 2012.
  - Approximately 222 lbs of TVOCs have been recovered since the modified system start up.
- Water discharge (Table 2; Figures 7 and 8):
  - The GWTS treated water effluent met COS POTW Discharge Authorization standards throughout the reporting period.
  - Effluent water concentrations of 1,4-dioxane were 68.4 µg/L in September 2023 and 34.2 µg/L in December 2023, which is lower than historic values detected since the HiPOx® system was bypassed in April 2012. Overall, 1,4-dioxane concentrations were significantly lower than the COS POTW Discharge Authorization standard of 590 µg/L and, as a result, the HiPOx® system remained in bypass mode throughout the reporting period.
- Recovery Well Concentrations (Table 7)
  - Concentrations of 1,4-dioxane in the SA recovery wells ranged from 40.5 µg/L at SA-RW-1 to 0.572 µg/L at SA-RW-3 during the reporting period.
  - Concentrations of 1,4-dioxane in the LS recover wells ranged from 1,420 µg/L at LS-RW-1 to 118 µg/L at LS-RW-3 during the reporting period.
- Daily operational monitoring ensured efficient operation of the treatment system components.

6 Passive Venting System and Multi-Media Cap Monitoring

In general, the PVS and multi-media cap were monitored weekly by the plant operator during business days. Routine weekly monitoring included:

- General inspection of the cap, surface runoff controls, fence and access road to ensure that their condition and reliability was being maintained;
- Detailed inspection of the cap for any signs of erosion; and,
- Visual inspection of the PVS wind-driven turbine ventilators to ensure that they were functioning.

The passive ventilation system, which was converted from an active vapor extraction system (VES) in September 2009, consists of nineteen (19) wind-driven turbine ventilators connected to existing vapor extraction points PVS-1 to PVS-19. The system was installed in accordance with the *Vapor Extraction System Evaluation* (ARCADIS, 2008) and began operation after the USEPA and IDEM approval of this document. Routine annual operation, maintenance and monitoring (OM&M) was conducted by Arcadis on December 14, 2023 in accordance with the Passive Venting System Operation and Maintenance Work Plan (ARCADIS, 2010). The Work Plan was approved by the USEPA in an electronic mail transmittal dated March 3, 2010. Routine OM&M consisted of a system inspection and the collection of soil gas samples from the 19 vapor extraction points for field analysis of oxygen, carbon dioxide and percent of the lower explosive limit (LEL) using a four gas meter. In addition, the soil gas samples were field screened for VOCs using a photoionization detector (PID).

During the routine system inspection each turbine was manually operated and was ensured to work and spin freely. Field chemical parameter data collected on December 14, 2023 show that oxygen percentages at all extraction points are at atmospheric levels. These data indicate that atmospheric oxygen is being introduced to

the subsurface as designed and that aerobic conditions are being maintained from the use of the passive venting approach. LEL readings were 0 percent at all extraction points. VOC concentrations ranged from 0.0 to 5.5 parts per million (ppm). A copy of the Soil Gas Sampling Log is provided in Appendix B.

7 Environmental Effectiveness Monitoring

The GWTS environmental effectiveness (i.e., hydraulic monitoring and groundwater quality monitoring) activities were completed during the reporting period in accordance with the OM&M Plan (Arcadis 2014). Results for the reporting period are discussed below.

7.1 Hydraulic Monitoring

7.1.1 Activities

An annual round of groundwater hydraulic monitoring was performed during the reporting period to assess the capture zone of the recovery wells. Specifically, depth-to-water measurements were collected on November 16 through 17, 2023 from forty (40) monitoring wells and seven (7) recovery wells during pumping conditions (Table 4).

7.1.2 Result

The average recovery well pumping rates prior to the water level round were as follows: SA-RW-1 (3.9 gpm); SA-RW-2 (4.8 gpm); SA-RW-3 (20.4 gpm); EW-6 (0 gpm); LS-RW-1 (0.5 gpm); LS-RW-2 (0.2 gpm); and LS-RW-3 (2.6 gpm). The water level contour map depicts the drawdown induced by recovery well pumpage and infers the hydraulic control of groundwater in the SA near pumping areas relative to the October 2023 distribution of 1,4-dioxane. Incorporation of EW-6 into the network of recovery wells provides additional means to further optimize hydraulic containment of impacted groundwater in the SA. In addition, the water level data for the LS unit, along with groundwater quality data for the LS monitoring wells, infers the hydraulic control of 1,4-dioxane impacted groundwater in the LS unit near pumping areas (Figure 4).

A discussion of groundwater quality data describing the areal extent of 1,4-dioxane impacted groundwater is presented in Section 7.2.2.2.

7.2 Groundwater Quality Monitoring

7.2.1 Activities

In accordance with the OM&M Plan (Arcadis, 2014) and the Proposed Monitoring Changes letter submitted on April 8, 2022 and accepted by EPA and IDEM on April 25, 2022, an annual groundwater sampling event was conducted on October 10 through 13, 2023. Groundwater samples were collected from sixteen (16) SA wells and three (3) LS unit wells and were selectively analyzed for VOCs and 1,4-dioxane.

7.2.2 Result

The October 2023 VOC groundwater monitoring data, along with the results for the October 2023 sampling event for each well, are provided for the SA and LS in Tables 5 and 6, respectively. Charts of concentration versus time for key site-related constituents through October 2023 are also provided on Figures 9 through 14. A summary of groundwater quality results is provided below.

7.2.2.1 Volatile Organic Compounds

Collectively, the groundwater data indicate that the overall extent of the TVOC plume in the SA remained stable. CA, cis-1,2-DCE and VC continue to be the primary VOCs present in groundwater in the deed-restricted area at and downgradient of the site boundary. When comparing charts of VOC concentrations over time for representative wells in the SA, the TVOC concentrations have fluctuated within in the same historical range over the past several years (Figures 9 through 13). However, there has been an increase in TVOC concentrations at Well 203A since October 2018. Well 203A is located at the interior of the landfill and the increase in TVOC concentrations (primarily degradation daughter products cis-1,2-DCE and VC) may be attributable to ongoing reductive dechlorination of chlorinated VOCs beneath the capped area.

As indicated in Table 5, the primary VOCs detected beneath the capped area above MCLs were trichloroethene (TCE), cis-1,2-DCE, 1-1 DCE, and VC. In general, the concentrations of individual constituents migrating from beneath the capped area (Well 206C) continue to fluctuate in the same historical range over the past several years (Figure 10).

Downgradient of the capped area at Well 207C and EW-3, VC was the only VOC detected above its MCL of 2.0 µg/L. Concentrations of VC at Well 207C and EW-3 in October 2023 were generally within their historical range. Concentrations of VC continue to decrease in the downgradient direction (i.e., Well 305B and Well 306C), attenuate to lower levels at Well Clusters 131 and 307 to the north of East-West Creek, and are non-detect at the Well 308 cluster.

The VOC data for the LS monitoring wells are generally consistent with the October 2022 data in that chlorinated VOC concentrations continue to remain at trace to non-detectable levels (Table 6). Of note, no acetone was detected in Well 361-LS in 2023 after the anomalous detection of 700 µg/L in 2022.

7.2.2.2 1,4-Dioxane and THF

As indicated in Table 5 and shown on Figures 9 through 13, concentrations of 1,4-dioxane and THF in the SA have been generally stable.

A comparison of 1,4-dioxane concentrations in the SA from the October 2022 and October 2023 sampling events is shown on Figure 3. The highest concentration of 1,4-dioxane in the SA was detected in Well 206C at 526 µg/L in October 2023. Further downgradient of Well 206C, in the area between recovery wells SA-RW-1 and SA-RW-2, concentrations of 1,4-dioxane are significantly lower and remained stable, as exhibited by results at Well 207C and Well EW-3 (see Figure 3).

Further downgradient in the area between SA-RW-2 and SA-RW-3, the October 2023 concentration of 1,4-dioxane of 108 µg/L in Well 305B increased when compared with the October 2022 concentration of 22.7 µg/L. Furthermore, only trace concentrations of 1,4-dioxane were detected at Well 306C.

Concentrations of 1,4-dioxane were detected in the area immediately downgradient of the SA-RW-3 area (i.e., Well Clusters 211, 131, and 307). In general, 1,4-dioxane concentrations in the area north of East-West Creek exhibited a declining trend since 2021 in the Well 211 cluster, low and stable concentrations in the Well 307 cluster, and an increasing trend in the Well 131 cluster. Although October 2023 1,4-dioxane concentrations in the Well 131 cluster increased in comparison with the October 2022 results, the concentrations were generally similar with those observed in October 2021. These 1,4-dioxane concentration trends will be further evaluated based on the results of data collected during 2024.

Wells 308B and 308D, located further downgradient of Well Clusters 131 and 307, were sampled in October 2023 to further assess the downgradient extent of 1,4-dioxane concentrations. Sample results indicated that 1,4-dioxane concentrations attenuate to trace or non-detect levels further downgradient of well clusters 131 and 307.

The THF concentration in the SA downgradient of the capped area remained relatively stable when compared with previous results, and was detected at relatively low concentrations (i.e., maximum concentration of 66.4 µg/L at Well 131C) in October 2023.

Concentrations of 1,4-dioxane in the LS unit monitoring wells observed during October 2023 were generally stable (Figures 4 and 14; Table 6). In the area immediately downgradient of the capped area (Well 361-LS), 1,4-dioxane concentrations increased when compared to the October 2022 results but were generally consistent with historical data (Figure 14). Concentrations of 1,4-dioxane decreased in the downgradient direction from 1,110 µg/L at the downgradient boundary of the Site (Well 361-LS) to 0.161 µg/L near the limit of the deed restricted area (Well 363-LS). There was also a decrease in 1,4-dioxane concentrations at Well 362-LS from 210 µg/L in October 2022 to 127 µg/L in October 2023.

There was a significant decrease in THF concentrations in the downgradient direction from 58 µg/L at Well 361-LS to below the limits of detection at Well 363-LS (Table 6). THF concentrations at Well 361-LS decreased when compared to the October 2022 results.

7.3 Surface Water Quality Monitoring

One surface water sample was collected from the East Fork of the White River on October 23, 2023 at a location within the COS POTW mixing zone (i.e., downstream of the POTW outfall). The sampling location is shown on Figure 16, and the results are provided in Table 8. 1,4-Dioxane was detected at a concentration of 0.06 µg/L in the POTW mixing zone of the East Fork of the White River, which is consistent with the previous sampling result of 0.0623 µg/L.

8 Institutional Controls and Site Security

The 1987 Seymour Record of Decision (ROD) included deed and access restrictions and other institutional controls to prevent future development of the Site and adjacent property, which assure the integrity of the remedial action. These deed restrictions state the following:

- “There shall be no use of the real estate in any manner that could cause exposure of humans or animals to contaminated groundwater in concentrations that present or may present a threat to human health.”
- “There shall be no use of the real estate that will interfere with the remedial action for the Seymour Site as described in the Consent Decree and the Remedial Action Plan.”

- "There shall be no residential or commercial use of the real estate that would allow continued presence of humans, including but not limited to the construction, installation, or use of buildings for residential or commercial use of this real estate that would allow such continued presence. Prohibited uses of this real estate shall not include agricultural crop growing and land application of sludge from the City of Seymour, Indiana publicly owned treatment works."

The deed restricted areas, as described in Exhibits 7, 8, and 9 of the CD, include the approximate 14-acre Superfund site and approximately 70 acres surrounding the Site (Figure 15). The City of Seymour and Seymour Municipal Airport Authority (Authority) have issued no improvement location permits for residential, commercial, or industrial structures of any kind during the reporting period (i.e., no construction has occurred), and the institutional controls remain in full force and effect.

Based on historic data, the deed restriction encompasses an appropriate area to ensure the integrity of the remedial action through extraction and treatment of impacted groundwater at the downgradient extent of the deed restricted area.

Finally, the fenced area that surrounds the Site remains in good condition, is monitored by the Authority, and the locked entry gate is checked weekly by Authority employees. Further, the Seymour Site Trust retains the services of a Site Manager who regularly monitors and inspects the integrity of the fence and gated area. During the growing season, the Authority periodically mows the perimeter of the cap to control vegetation. The Seymour Site Trust arranges for annual mowing of the cap and inspects for erosion due to rainwater runoff.

9 Conclusions

Based on the monitoring data collected during the reporting period, Arcadis concludes the following:

- The GWTS treated water effluent met COS POTW Discharge Authorization standards throughout the reporting period.
- Continued periodic maintenance of the recovery wells and refinement of well redevelopment methodologies is necessary to manage well performance.
- The recovery wells extracted less 1,4-dioxane mass in 2023 when compared to the mass removal that occurred in 2022, primarily due to lower pumping rates.
- Collectively, the groundwater data indicates that the overall extent of the TVOC plume in the SA remained stable and TVOC concentrations in the LS ranged from low to non-detect levels.
- Concentrations of 1,4-dioxane in the SA in October 2023 were generally stable when compared with concentrations detected in October 2022.
- From the area of highest 1,4-dioxane concentrations near the Site boundary, concentrations in the LS decrease in the downgradient direction to approximately 0.161 µg/L near East-West Creek (i.e., Well 363-LS).
- The water level distribution showing the induced drawdown from recovery well pumpage in the SA and LS infers the hydraulic control of groundwater near pumping areas relative to the October 2023 distribution of 1,4-dioxane.
- The PVS and multi-media cap are operating as designed.

10 Recommendations

Based on the monitoring data collected during the reporting period, Arcadis recommends the following:

- Continue monthly O&M activities, as necessary, to ensure continuous operation of the GWTS.
- Continue monitoring the treatment system in accordance with the COS POTW Discharge Authorization and the City of Seymour Wastewater Treatment Facility-approved effluent monitoring and sampling modification (CSWTF 2013a, CSWTF 2013b).
- Continue GWTS environmental effectiveness monitoring activities in accordance with the OM&M Plan (Arcadis 2014) and the EPA and IDEM-approved Proposed Monitoring Changes letter submitted on April 8, 2022.
- Continue to assess the performance of the recovery wells and to further optimize the mass removal rate of 1,4-dioxane.

11 References

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Tables

Table 1
Combined System Influent Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Constituents	POTW Discharge Authorization Standard	Location ID: Sample Date:	SP-500 6/7/2023	SP-500 12/13/2023
Volatile Organic Compounds				
1,1,1-Trichloroethane	22		< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	NL		< 0.50	< 0.50
1,1,2-Trichloroethane	32		< 0.75	< 0.75
1,1-Dichloroethane	22		**2.3**	**1**
1,1-Dichloroethene	22		< 0.50	< 0.50
1,2-Dichlorobenzene	196		< 2.5	< 2.5
1,2-Dichloroethane	180		< 0.50	< 0.50
1,2-Dichloropropane	NL		< 1.8	< 1.8
2-Butanone	NL		< 5.0	< 5.0
2-Hexanone	NL		< 5.0	< 5.0
4-Methyl-2-pentanone	NL		< 5.0	< 5.0
Acetone	NL		< 5.0	< 5.0
Benzene	57		**0.74**	**0.54**
Bromodichloromethane	NL		< 0.50	< 0.50
Bromoform	NL		< 2.0	< 2.0
Bromomethane	NL		< 1.0	< 1.0
Carbon Disulfide	NL		< 5.0	< 5.0
Carbon Tetrachloride	NL		< 0.50	< 0.50
Chlorobenzene	NL		< 0.50	< 0.50
Chloroethane	110		**12**	**4.7**
Chloroform	111		< 0.75	< 0.75
Chloromethane	NL		< 2.5	< 2.5
cis-1,2-Dichloroethene	NL		**66**	**42**
cis-1,3-Dichloropropene	NL		< 0.50	< 0.50
Dibromochloromethane	NL		< 0.50	< 0.50
Ethyl ether	NL		**0.56 J**	**0.23 J**
Ethylbenzene	142		< 0.50	< 0.50
Methylene Chloride	36		< 3.0	< 3.0
o-Xylene	NL		< 1.0	< 1.0
p/m-Xylene	NL		< 1.0	< 1.0
Styrene	NL		< 1.0	< 1.0
Tetrachloroethene	52		< 0.50	< 0.50
Tetrahydrofuran	NL		**5.7**	**2.8 J**
Toluene	28		< 0.75	< 0.75
trans-1,2-Dichloroethene	25		**4**	**1.6**
trans-1,3-Dichloropropene	NL		< 0.50	< 0.50
Trichloroethene	26		< 0.50	< 0.50
Vinyl Acetate	NL		< 5.0	< 5.0
Vinyl Chloride	97		**56**	**31**
TVOCs [2]			**147.3**	**83.87**
Semivolatile Organics				
1,4-Dioxane	590		**52.9**	**35.6**

Notes and abbreviations on last page.

Table 1
Combined System Influent Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [(1)]

Notes and Abbreviations:

Bold value indicates a detection.

J	Compound detected but below its reporting limit; the value is estimated.
NL	No limit established.
TVOC	total volatile organic compounds
µg/L	micrograms per liter
--	not analyzed
<	Compound not detected above its laboratory quantification limit.
(1)	Refer to Figure 2 - Groundwater Treatment System Schematic of this report for the locations of sampling ports.
(2)	TVOC represents the sum of individual concentration of the compounds

Table 2
System Effluent Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Constituent (units in µg/L)	POTW Discharge Authorization Standard	Location ID: / Sample Date:	SP-710 3/21/2023	SP-710 6/7/2023	SP-710 9/6/2023	SP-710 12/13/2023
Volatile Organic Compounds						
1,1,1-Trichloroethane	22		< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	NL		< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	32		< 0.75	< 0.75	< 0.75	< 0.75
1,1-Dichloroethane	22		< 0.75	< 0.75	< 0.75	< 0.75
1,1-Dichloroethene	22		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	196		< 2.5	< 2.5	< 2.5	< 2.5
1,2-Dichloroethane	180		< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	NL		< 1.8	< 1.8	< 1.8	< 1.8
2-Butanone	NL		< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone	NL		< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone	NL		< 5.0	< 5.0	< 5.0	< 5.0
Acetone	NL		< 5.0	< 5.0	< 5.0	< 5.0
Benzene	57		< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane	NL		< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	NL		< 2.0	< 2.0	< 2.0	< 2.0
Bromomethane	NL		< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	NL		< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	NL		< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	NL		< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	110		< 1.0	**0.15 J**	< 1.0	< 1.0
Chloroform	111		< 0.75	< 0.75	< 0.75	< 0.75
Chloromethane	NL		< 2.5	< 2.5	< 2.5	< 2.5
cis-1,2-Dichloroethene	NL		**3.8**	**3.4**	**2.9**	**1.9**
cis-1,3-Dichloropropene	NL		< 0.50	< 0.50	< 0.50	< 0.50
Dibromochloromethane	NL		< 0.50	< 0.50	< 0.50	< 0.50
Ethyl ether	NL		**0.56 J**	**0.16 J**	< 2.5	< 2.5
Ethylbenzene	142		< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	36		< 3.0	< 3.0	< 3.0	< 3.0
o-Xylene	NL		< 1.0	< 1.0	< 1.0	< 1.0
p/m-Xylene	NL		< 1.0	< 1.0	< 1.0	< 1.0
Styrene	NL		< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	52		< 0.50	< 0.50	< 0.50	< 0.50
Tetrahydrofuran	NL		**6.7**	**5.5**	**7.5**	**2.1 J**
Toluene	28		< 0.75	< 0.75	< 0.75	< 0.75
trans-1,2-Dichloroethene	25		**0.16 J**	< 0.75	< 0.75	< 0.75
trans-1,3-Dichloropropene	NL		< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	26		< 0.50	< 0.50	< 0.50	< 0.50
Vinyl Acetate	NL		< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	97		< 1.0	**0.15 J**	< 1.0	< 1.0
TVOCs [2]			**11.2**	**9.4**	**10.4**	**4.0**
Semivolatile Organics						
1,4-Dioxane	590		**75.7**	**75.5**	**68.4**	**34.2**

Notes and abbreviations on last page.

Table 2
System Effluent Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Notes and Abbreviations:

Bold value indicates a detection.

J	Compound detected but below its reporting limit; the value is estimated.
NL	No limit established.
TVOC	total volatile organic compounds
µg/L	micrograms per liter
--	not analyzed
<	Compound not detected above its laboratory quantification limit.
(1)	Refer to Figure 2 - Groundwater Treatment System Schematic of this report for the locations of sampling ports.
(2)	TVOC represents the sum of individual concentration of the compounds detected.

Table 3
Summary of Groundwater Recovered, 1,4-Dioxane and TVOC Mass Removed, and Mass Recovery Rates
Groundwater Treatment System
Seymour Site
Seymour, Indiana

Operating Period	Volume of Groundwater Recovered	Total Mass Recovered [2]		Average Mass Recovery Rate [3]	
	Total (x1,000 gal) [1]	1,4 Dioxane (lbs)	TVOCs (lbs)	1,4 Dioxane (lbs/day)	TVOCs (lbs/day)
Groundwater Treatment System 2012					
01/07/12 - 07/01/12	9,675	7.9	5.3	0.045	0.030
07/01/12 - 01/01/13	10,975	11	6.7	0.060	0.036
Subtotal (2012)	20,650	19	12	0.053	0.033
Groundwater Treatment System 2013					
01/01/13 - 07/01/13 [4]	10,150	11	7.4	0.061	0.041
07/01/13 - 01/01/14	10,560	11	8.3	0.060	0.045
Subtotal (2013)	20,710	22	16	0.060	0.044
Groundwater Treatment System 2014					
01/01/14 - 07/01/14	9,970	9.1	8.7	0.050	0.048
07/01/14 - 01/01/15	10,950	8.8	11	0.048	0.060
Subtotal (2014)	20,920	18	20	0.049	0.055
Groundwater Treatment System 2015					
01/01/15 - 07/01/15	10,090	8.0	11	0.044	0.061
07/01/15 - 01/01/16	10,080	6.9	9.6	0.038	0.052
Subtotal (2015)	20,170	15	21	0.041	0.058
Groundwater Treatment System 2016					
01/01/16 - 07/01/16	10,310	5.7	9.7	0.031	0.053
07/01/16 - 01/01/17	9,210	5.3	9.5	0.029	0.052
Subtotal (2016)	19,520	11	19	0.030	0.052
Groundwater Treatment System 2017					
01/01/17 - 07/01/17	11,790	8.5	9.8	0.047	0.054
07/01/17 - 01/01/18	10,930	9.5	9.0	0.052	0.049
Subtotal (2017)	22,720	18	19	0.049	0.052
Groundwater Treatment System 2018					
01/01/18 - 07/01/18	10,880	8.3	10	0.046	0.055
07/01/18 - 01/01/19	9,400	4.7	8.5	0.026	0.046
Subtotal (2018)	20,280	13	19	0.036	0.052
Groundwater Treatment System 2019					
01/01/19 - 07/01/19	13,360	4.4	10	0.024	0.055
07/01/19 - 01/01/20	13,640	4.2	8.9	0.023	0.048
Subtotal (2019)	27,000	8.6	19	0.024	0.052
Groundwater Treatment System 2020					
01/01/20 - 07/01/20	12,570	4.2	8.5	0.023	0.047
07/01/20 - 01/01/21	13,830	4.1	9.5	0.022	0.052
Subtotal (2020)	26,400	8.3	18	0.023	0.049
Groundwater Treatment System 2021					
01/01/21 - 07/01/21	12,040	3.0	8.7	0.017	0.048
07/01/21 - 01/01/22	13,910	3.6	11.4	0.020	0.062
Subtotal (2021)	25,950	6.6	20.1	0.018	0.055
Groundwater Treatment System 2022					
01/01/22 - 07/01/22	12,570	3.2	10.7	0.018	0.059
07/01/22 - 12/31/22	9,140	3.4	11.4	0.019	0.062
Subtotal (2022)	21,710	6.6	22.1	0.018	0.061
Groundwater Treatment System 2023					
01/01/23 - 07/01/23	6,260	2.9	9.1	0.016	0.050
07/01/23 - 12/31/23	8,270	3.1	8.0	0.017	0.044
Subtotal (2023)	14,530	6.0	17.1	0.017	0.047
Total (Since System Startup) [5]	**260,560**	**152**	**222**		

Footnotes on next page

Table 3
Summary of Groundwater Recovered, 1,4-Dioxane and TVOC Mass Removed, and Mass Recovery Rates
Groundwater Treatment System
Seymour Site
Seymour, Indiana

Notes and Abbreivations

1. Volume of groundwater recovered is based on system effluent totalized flow readings. Listed value is the difference between totalized flow values recorded between the first and the last calendar date of the reporting period. Values shown have been rounded to the nearest gallon.

2. Total mass recovered prior to January 1, 2013 was calculated by multiplying the total volume of groundwater recovered during the 2012 operating period by the influent concentration geometric mean (refer to 2012 Annual OM&M Report [Arcadis 2013a]). Starting January 1, 2013, total mass recovered was calculated by multiplying the average concentrations of two consecutive sampling events by the number of gallons extracted during the respective operating period. Values shown have been rounded to include two significant figures.
3. Average mass recovery rates were calculated by dividing the total mass recovered by the number of calendar days during the respective operating period. Values shown have been rounded to include two significant figures.
4. Influent concentrations on October 17, 2012 and August 21, 2013 were used to calculate the total mass removed. The October 17, 2012 influent concentration was calculated using a mass balance approach. Recovery well influent concentrations and the average flow rate of each recovery well from the October 17, 2012 sampling event were used in the mass balance calculation.
5. "Total (Since System Startup)" refers to the amounts removed since inception of the modified GWTS; January 7, 2012 (Arcadis 2013a).

NA	not applicable	lbs/day	pounds per day
gal	gallons	OM&M	operation, maintenance, and monitoring
GWTS	groundwater treatment system	TVOC	total volatile organic compounds
lbs	pounds		

Table 4
Water-Level Measurements in Monitoring Wells and Recovery Wells
Groundwater Treatment System, Seymour Site
Seymour, Indiana

Well Number	Measuring Point Elevation (ft msl)	Pumping Water Level Measurements (November 16 through 17, 2023)	
		Depth to Water (ft bmp)	Water-Level Elevation (ft msl)
SA-RW-1	563.7	15.49	548.21
SA-RW-2	563.06	10.44	552.62
SA-RW-3	561.69	7.36	554.33
LS-RW-1	563.36	29.17	534.19
LS-RW-2	562.32	37.82	524.50
LS-RW-3	561.95	39.71	522.24
361 LS	565.50	10.36	555.14
362 LS	566.63	11.86	554.77
363 LS	565.31	13.62	551.69
206 A	565.85	9.28	556.57
206 B	568.15	11.56	556.59
206 C	567.05	10.08	556.97
202 A	577.56	19.35	558.21
203 A	579.69	21.81	557.88
142	568.71	11.25	557.46
147	568.54	10.05	558.49
213 A	565.75	8.72	557.03
207 A	566.73	10.54	556.19
208 A	565.52	9.64	555.88
209 A	566.61	9.78	556.83
EW-3	568.25	12.16	556.09
EW-6	--	9.27	--
305 A	565.76	10.21	555.55
306 A	565.18	10.12	555.06
211 A	565.01	10.01	555.00
212 A	563.85	9.28	554.57
220	576.26	17.75	558.51
221	571.41	14.22	557.19
223	573.35	16.39	556.96
225	568.67	13.46	555.21
226	568.04	12.94	555.10
227	563.01	9.92	553.09
131 A	563.95	9.54	554.41
307 A	564.85	10.21	554.64
308 A	560.63	7.52	553.11
308 D	560.68	7.38	553.30
214	--	11.35	--
351	567.68	10.10	557.58
352	568.15	10.26	557.89
353	567.66	9.00	558.66
354	566.96	11.45	555.51
355	563.67	9.38	554.29
356	565.41	8.20	557.21
357	564.62	10.37	554.25
358	566.34	12.05	554.29
359	566.92	12.59	554.33
360	566.45	10.21	556.24

Notes and Abbreviations on next page:

Table 4
Water-Level Measurements in Monitoring Wells and Recovery Wells
Groundwater Treatment System,
Seymour Site
Seymour, Indiana

Notes and Abbreviations:

ft msl	feet relative to mean sea level
ft bmp	feet below measuring point
LS-RW	lower sand unit recovery well
PVC	polyvinyl chloride
SA-RW	shallow aquifer recovery well
--	not available

1. Measuring points for all wells and piezometers are marked on the top of which are marked on the outer protective casings.
2. SA-RW and LS-RW wells were measured from the top of 1 1/2" PVC pipe.

Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	USEPA MCLs	Site:	131A	131A	131B	131B	131B	131C	131C	203A	203A	203A
		Sample ID:	131A-101922-03IS-B	131A-101223-03IS	131B-101922-04IS-b	131B-101223-01IS	531B-101223-01FD	131C-101922-04IS-A	131C-101223-02IS	203A-101822-04IS-A	503A-101822-04FD	203A-101323-01IS
		Date:	10/19/22	10/12/23	10/19/22	10/12/23	10/12/23	10/19/22	10/12/23	10/18/22	10/18/22	10/13/23
Volatile Organic Compounds												
Chloromethane	NE		<2.5	< 2.5	<2.5	< 2.5	< 2.5	<2.5	< 2.5	<100	<120	< 100
Bromomethane	NE		<2.5	< 1.0	<2.5 J	< 1.0 J	< 1.0 J	<2.5	< 1.0	<100	<120	< 40 J
Vinyl chloride	2		**3.9**	**37**	**38**	**51 J**	**44**	**0.10 J**	**0.44 J**	**1,700**	**1,800**	**1300**
Chloroethane	NE		<2.5	< 1.0	<2.5	< 1.0	< 1.0	<2.5	< 1.0	**48 J**	**72 J**	**57**
Methylene chloride	5		<2.5	< 3.0	<2.5	< 3.0	< 3.0	<2.5	< 3.0	<100	<120	< 120
Acetone	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
Carbon disulfide	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
1,1-Dichloroethene	7		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	**12 J**	**12 J**	**11 J**
1,1-Dichloroethane	NE		<2.5	< 0.75	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<100	**35 J**	**33**
1,2-Dichlorobenzene	600		<2.5	< 2.5	<2.5	< 2.5	< 2.5	<2.5	< 2.5	<100	<120	< 100
Chloroform	80		<2.5	< 0.75	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<100	<120	< 30
1,2-Dichloroethane	5		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
2-Butanone	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
1,1,1-Trichloroethane	200		<2.5	< 0.50	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<100	<120	< 20
Carbon tetrachloride	5		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
Bromodichloromethane	80		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
1,2-Dichloropropane	5		<1.0	< 1.8	<1.0	< 1.8	< 1.8	<1.0	< 1.8	<40	<50	< 70
cis-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
Trichloroethene	5		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	**210**	**190**	**160**
Dibromochloromethane	80		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
1,1,2-Trichloroethane	5		<1.5	< 0.75	<1.5	< 0.75	< 0.75	<1.5	< 0.75	<60	<75	< 30
Benzene	5		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
trans-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
Bromoform	80		<2.0	< 2.0	<2.0	< 2.0	< 2.0	<2.0	< 2.0	<80	<100	< 80
4-Methyl-2-pentanone	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
2-Hexanone	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
Tetrachloroethene	5		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
1,1,2,2-Tetrachloroethane	NE		<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<20	<25	< 20
Toluene	1000		<2.5	< 0.75	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<100	<120	< 30
Chlorobenzene	100		<2.5	< 0.50	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<100	<120	< 20
Ethylbenzene	700		<2.5	< 0.50	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<100	<120	**8.6 J**
Styrene	100		<2.5	< 1.0	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<100	<120	< 40
o-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<100	<120	< 40
p/m-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<100	<120	< 40
Vinyl acetate	NE		<5.0	< 5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<200	<250	< 200
cis-1,2-Dichloroethene	70		<2.5	< 0.50	<2.5	< 0.50	< 0.50	<2.5	< 0.50	**4,600**	**4,700**	**4200**
trans-1,2-Dichloroethene	100		<2.5	< 0.75	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<100	<120	< 30
Ethyl ether	NE		<2.5	**0.17 J**	**1.6 J**	**1.0 J**	**1.0 J**	**1.7 J**	**2.1 J**	<100	<120	< 100
Ethylene dibromide	NE		<2.0	NA	<2.0	NA	NA	<2.0	NA	<80	<100	NA
Tetrahydrofuran	NE		<5.0	**1.8 J**	<5.0	**1.3 J**	**1.6 J**	**11**	**5**	<200	<250	< 200
TVOCs[1]			**3.9**	**39.0**	**39.6**	**53.3**	**46.6**	**12.8**	**7.5**	**6570.0**	**6809.0**	**5769.6**
Semivolatile Organics												
1,4-Dioxane	NE		**0.33**	**28.4**	**5.1**	**22.6**	**25.5**	**10.6**	**66.4**	**55.7**	**55.4**	**92.2**

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Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	USEPA MCLs	Site: / Sample ID: / Date:	206C 206C-101722-04IS-A 10/17/22	206C 506C-101722-04FD 10/17/22	206C 206C-101123-01IS 10/11/23	206C 506C-101123-01FD 10/11/23	207C 207C-101722-04IS-A 10/17/22	207C 207-C-101023-02IS 10/10/23	211A 211A-101922-02IS-B 10/19/22	211A 211A-101223-02IS 10/12/23	211B 211B-101922-01IS-B 10/19/22	211B 211B-101223-01IS 10/12/23
Volatile Organic Compounds												
Chloromethane	NE		<2.5	<2.5	< 2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5
Bromomethane	NE		<2.5	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
Vinyl chloride	2		**7.0 J**	**6.8**	**12**	**16**	**190**	**110**	**52**	**5.5**	<1.0	< 1.0
Chloroethane	NE		**0.90 J**	**0.77 J**	**58 J**	**58**	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
Methylene chloride	5		<2.5	<2.5	< 3.0	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0
Acetone	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
Carbon disulfide	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
1,1-Dichloroethene	7		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1-Dichloroethane	NE		**0.94 J**	**0.96 J**	< 0.75	< 0.75	<2.5	< 0.75	<2.5	**0.22 J**	<2.5	< 0.75
1,2-Dichlorobenzene	600		<2.5	<2.5	< 2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5
Chloroform	80		<2.5	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
1,2-Dichloroethane	5		<0.50	<0.50	< 0.50	< 0.50	**0.22 J**	< 0.50	<0.50	< 0.50	<0.50	< 0.50
2-Butanone	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
1,1,1-Trichloroethane	200		<2.5	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Carbon tetrachloride	5		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Bromodichloromethane	80		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,2-Dichloropropane	5		<1.0	<1.0	< 1.8	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8
cis-1,3-Dichloropropene	NE		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Trichloroethene	5		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Dibromochloromethane	80		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1,2-Trichloroethane	5		<1.5	<1.5	< 0.75	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75
Benzene	5		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
trans-1,3-Dichloropropene	NE		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Bromoform	80		<2.0	<2.0	< 2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0
4-Methyl-2-pentanone	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
2-Hexanone	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
Tetrachloroethene	5		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Toluene	1000		<2.5	<2.5	< 0.75	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
Chlorobenzene	100		<2.5	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Ethylbenzene	700		<2.5	<2.5	< 0.50	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Styrene	100		<2.5	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
o-Xylene	NE		<2.5	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
p/m-Xylene	NE		<2.5	<2.5	< 1.0	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
Vinyl acetate	NE		<5.0	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
cis-1,2-Dichloroethene	70		**23 J**	**24**	**34**	**39**	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
trans-1,2-Dichloroethene	100		**4.6 J**	**4.3**	**4.8**	**6.3**	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
Ethyl ether	NE		<2.5 J	<2.5	**2.1 J**	**1.4 J**	<2.5	**0.18 J**	**1.8 J**	< 2.5	<2.5	**3**
Ethylene dibromide	NE		<2.0	<2.0	NA	NA	<2.0	NA	<2.0	NA	<2.0	NA
Tetrahydrofuran	NE		**2.9 J**	**3.2 J**	**77 J**	**47**	<5.0	**1.0 J**	<5.0	< 5.0	<5.0	**6.8**
TVOCs[1]			**39.3**	**40.0**	**187.9**	**167.7**	**190.2**	**111.2**	**53.8**	**5.7**	ND	**9.8**
Semivolatile Organics												
1,4-Dioxane	NE		**441 DJ**	**221 DJ**	**526 D**	**559 D**	**4.93**	**62.1**	**1.57**	**0.516**	**114**	**63.4**

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Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	USEPA MCLs	Site:	305B	305B	306C	306C	307A	307A	307B	307B	307C	307C
		Sample ID:	305B-101722-04IS-A	305B-101023-02IS	306C-101722-04IS-A	306C-101023-01IS	307A-101922-03IS-A	307A-101223-04IS	307A-101922-02IS-A	307B-101223-04IS	307C-101922-01IS-A	307C-101223-03IS
		Date:	10/17/22	10/10/23	10/17/22	10/10/23	10/19/22	10/12/23	10/19/22	10/12/23	10/19/22	10/12/23
Volatile Organic Compounds												
Chloromethane	NE		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5
Bromomethane	NE		<2.5	< 1.0 B	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5 J	< 1.0
Vinyl chloride	2		**61**	**57**	<1.0	**0.08 J**	**0.31 J**	**0.50 J**	<1.0	**0.18 J**	<1.0	< 1.0
Chloroethane	NE		<2.5	**0.30 J**	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
Methylene chloride	5		<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0
Acetone	NE		**3.3 J**	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	**5.1**	< 5.0
Carbon disulfide	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
1,1-Dichloroethene	7		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1-Dichloroethane	NE		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
1,2-Dichlorobenzene	600		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5
Chloroform	80		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
1,2-Dichloroethane	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
2-Butanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
1,1,1-Trichloroethane	200		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Carbon tetrachloride	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Bromodichloromethane	80		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,2-Dichloropropane	5		<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8
cis-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Trichloroethene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Dibromochloromethane	80		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1,2-Trichloroethane	5		<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75
Benzene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
trans-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Bromoform	80		<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0
4-Methyl-2-pentanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
2-Hexanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
Tetrachloroethene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50
Toluene	1000		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
Chlorobenzene	100		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Ethylbenzene	700		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
Styrene	100		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
o-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
p/m-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0
Vinyl acetate	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
cis-1,2-Dichloroethene	70		**5.4**	**2.9**	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50
trans-1,2-Dichloroethene	100		<2.5	**0.20 J**	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75
Ethyl ether	NE		**1.5 J**	**2.6**	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5
Ethylene dibromide	NE		<2.0	NA	<2.0	NA	<2.0	NA	<2.0	NA	<2.0	NA
Tetrahydrofuran	NE		**2.5 J**	**3.3 J**	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
TVOCs[1]			**73.7**	66.3	ND	**0.1**	**0.3**	**0.5**	ND	0.2	**5.1**	ND
Semivolatile Organics												
1,4-Dioxane	NE		**22.7**	**108**	**0.561**	**0.479**	**0.353**	**2.78**	**0.45**	**1.52**	**2.32**	**0.662**

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Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	USEPA MCLs	Site:	308B	308B	308D	308D	EW-3	EW-3	QAQC	QAQC	QAQC	QAQC
		Sample ID:	308B-101822-04IS-A	308-B-101123-02IS	308D-101822-04IS-A	308-D-101123-01IS	EW3-101822-02IS-B	EW-3-101023-03IS	TRIP BLANK-COOLER#3	TRIP BLANK-COOLER#4	TRIP BLANK-COOLER#1	TRIP BLANK-COOLER#2
		Date:	10/18/22	10/11/23	10/18/22	10/11/23	10/18/22	10/10/23	10/18/22	10/18/22	10/19/22	10/19/22
Volatile Organic Compounds												
Chloromethane	NE		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0 B	<2.5	<2.5	<2.5	<2.5
Vinyl chloride	2		<1.0	< 1.0	<1.0	< 1.0	**250 D**	**320 D**	<1.0	<1.0	<1.0	<1.0
Chloroethane	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5	<2.5	<2.5
Methylene chloride	5		<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<2.5	<2.5	<2.5	<2.5
Acetone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0
Carbon disulfide	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	NE		<2.5	< 0.75	<2.5	< 0.75	**0.80 J**	**0.69 J**	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	600		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	<2.5	<2.5	<2.5
Chloroform	80		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0 J
1,1,1-Trichloroethane	200		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5	<2.5	<2.5
Carbon tetrachloride	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	80		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	5		<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	80		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5		<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<1.5	<1.5	<1.5	<1.5
Benzene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	80		<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	<0.50
Toluene	1000		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	100		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	700		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5	<2.5	<2.5
Styrene	100		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5	<2.5	<2.5
o-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5	<2.5	<2.5
p/m-Xylene	NE		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5	<2.5	<2.5
Vinyl acetate	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0 J	<5.0
cis-1,2-Dichloroethene	70		<2.5	< 0.50	<2.5	< 0.50	<2.5	**0.23 J**	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	100		<2.5	< 0.75	<2.5	< 0.75	<2.5	**0.36 J**	<2.5	<2.5	<2.5	<2.5
Ethyl ether	NE		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	<2.5	<2.5	<2.5
Ethylene dibromide	NE		<2.0	NA	<2.0	NA	<2.0	NA	<2.0	<2.0	<2.0	<2.0
Tetrahydrofuran	NE		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<2.5
TVOCs[1]			ND	ND	ND	**ND**	**250.8**	**321.3**	ND	ND	ND	ND
Semivolatile Organics												
1,4-Dioxane	NE		**1.48**	**0.526**	<0.134	< 0.150	**2.4**	**4.68**	--	--	--	--

Notes and abbreviations on last page

Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	USEPA MCLs	Site: / Sample ID: / Date:	QAQC TRIP BLANK-1004-TB 10/04/23	QAQC TRIP BLANK-101123-TB 10/11/23	QAQC TRIP BLANK 10/11/23	QAQC FB-101123-02FB 10/11/23	QAQC FB-101223-04FB 10/12/23	QAQC TRIP BLANK 10/12/23	QAQC TRIP BLANK-101323-TB 10/13/23
Volatile Organic Compounds									
Chloromethane	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Bromomethane	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl chloride	2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Methylene chloride	5		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Acetone	NE		<5.0	<5.0	<5.0	<5.0	<5.0	**2.3 J**	<5.0
Carbon disulfide	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichlorobenzene	600		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chloroform	80		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2-Dichloroethane	5		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	200		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Carbon tetrachloride	5		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	80		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	5		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NE		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	5		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dibromochloromethane	80		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	5		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Benzene	5		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	NE		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	80		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4-Methyl-2-pentanone	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	1000		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Chlorobenzene	100		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ethylbenzene	700		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Styrene	100		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
o-Xylene	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
p/m-Xylene	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Vinyl acetate	NE		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
trans-1,2-Dichloroethene	100		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ethyl ether	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Ethylene dibromide	NE		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Tetrahydrofuran	NE		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
TVOCs[(1)]			ND	ND	ND	ND	ND	**2.3**	ND
Semivolatile Organics									
1,4-Dioxane	NE		--	--	--	--	--	--	--

Notes and abbreviations on last page

Table 5
Concentrations of Volatile
Organic Compounds and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Shallow Aquifer
Seymour Site
Seymour, Indiana

Notes and Abbreviations:

Bold value indicates a detection.

	Compound exceeds Associated maximum contaminant level.
B	Compound was also detected in the associated method blank.
D	Compound detected at a secondary dilution.
J	Compound detected but below its reporting limit; the value is estimated.
NE	not established
ND	not detected
R	The sample results are rejected.
TVOC	total volatile organic compounds
UB	Compound considered non-detect at the listed value due to associated blank contamination
µg/L	micrograms per liter
--	not analyzed
<	Compound not detected above its laboratory quantification limit.
(1)	TVOCs represents the sum of all individual compound concentrations including Seymour Site-Specific compounds, except 1,4-dioxane.

Table 6
Concentrations of Volatile Organic Compounds
and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Lower Sand Unit
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	Federal MCLs	Site: Sample ID: Date:	361-LS 361-LS-101822-03IS-B 10/18/22	361-LS 361-LS-101023-01IS 10/10/23
Volatile Organic Compounds				
Chloromethane	NE		<2.5	< 2.5
Bromomethane	NE		<2.5	< 1.0
Vinyl chloride	2		**0.16 J**	**0.09 J**
Chloroethane	NE		<2.5	**0.14 J**
Methylene chloride	5		<2.5	< 3.0
Acetone	NE		<5.0	< 5.0
Carbon disulfide	NE		<5.0	< 5.0
1,1-Dichloroethene	7		<0.50	< 0.50
1,1-Dichloroethane	NE		<2.5	< 0.75
1,2-Dichlorobenzene	600		<2.5	< 2.5
Chloroform	80		<2.5	< 0.75
1,2-Dichloroethane	5		<0.50	< 0.50
2-Butanone	NE		<5.0	< 5.0
1,1,1-Trichloroethane	200		<2.5	< 0.50
Carbon tetrachloride	5		<0.50	< 0.50
Bromodichloromethane	80		<0.50	< 0.50
1,2-Dichloropropane	5		<1.0	< 1.8
cis-1,3-Dichloropropene	NE		<0.50	< 0.50
Trichloroethene	5		<0.50	< 0.50
Dibromochloromethane	80		<0.50	< 0.50
1,1,2-Trichloroethane	5		<1.5	< 0.75
Benzene	5		<0.50	< 0.50
trans-1,3-Dichloropropene	NE		<0.50	< 0.50
Bromoform	80		<2.0	< 2.0
4-Methyl-2-pentanone	NE		<5.0	< 5.0
2-Hexanone	NE		<5.0	< 5.0
Tetrachloroethene	5		<0.50	< 0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	< 0.50
Toluene	1000		<2.5	< 0.75
Chlorobenzene	100		<2.5	< 0.50
Ethylbenzene	700		<2.5	< 0.50
Styrene	100		<2.5	< 1.0
o-Xylene	NE		<2.5	< 1.0
p/m-Xylene	NE		<2.5	< 1.0
Vinyl acetate	NE		<5.0	< 5.0
cis-1,2-Dichloroethene	70		<2.5	< 0.50
trans-1,2-Dichloroethene	100		<2.5	< 0.75
2-Butanol	NE		--	--
Tert-butyl alcohol	NE		--	--
2-Propanol	NE		--	--
4-Penten-2-ol	NE		--	--
Ethyl ether	NE		<2.5	**0.27 J**
Ethylene dibromide	NE		<2.0	NA
2-Methyl-2-butanol	NE		--	--
4-Methyl-2-pentanol	NE		--	--
Tetrahydrofuran	NE		**76**	**58**
TVOCs[(1)]			**76.16**	**58.5**
Semivolatile Organics				
1,4-Dioxane	NE		**857 D**	**1,110**

Notes and abbreviations on last page.

Table 6
Concentrations of Volatile Organic Compounds
and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Lower Sand Unit
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	Federal MCLs	Site: Sample ID: Date:	362-LS 362-LS-101822-01IS-B 10/18/22	362-LS 362-LS-101023-04IS 10/10/23
Volatile Organic Compounds				
Chloromethane	NE		<2.5	< 2.5
Bromomethane	NE		<2.5	< 1.0 B
Vinyl chloride	2		<1.0	**0.62 J**
Chloroethane	NE		<2.5	< 1.0
Methylene chloride	5		<2.5	< 3.0
Acetone	NE		<5.0	< 5.0
Carbon disulfide	NE		<5.0	< 5.0
1,1-Dichloroethene	7		<0.50	< 0.50
1,1-Dichloroethane	NE		<2.5	< 0.75
1,2-Dichlorobenzene	600		<2.5	< 2.5
Chloroform	80		<2.5	< 0.75
1,2-Dichloroethane	5		<0.50	< 0.50
2-Butanone	NE		<5.0	< 5.0
1,1,1-Trichloroethane	200		<2.5	< 0.50
Carbon tetrachloride	5		<0.50	< 0.50
Bromodichloromethane	80		<0.50	< 0.50
1,2-Dichloropropane	5		<1.0	< 1.8
cis-1,3-Dichloropropene	NE		<0.50	< 0.50
Trichloroethene	5		<0.50	< 0.50
Dibromochloromethane	80		<0.50	< 0.50
1,1,2-Trichloroethane	5		<1.5	< 0.75
Benzene	5		<0.50	< 0.50
trans-1,3-Dichloropropene	NE		<0.50	< 0.50
Bromoform	80		<2.0	< 2.0
4-Methyl-2-pentanone	NE		<5.0	< 5.0
2-Hexanone	NE		<5.0	< 5.0
Tetrachloroethene	5		<0.50	< 0.50
1,1,2,2-Tetrachloroethane	NE		<0.50	< 0.50
Toluene	1000		<2.5	< 0.75
Chlorobenzene	100		<2.5	< 0.50
Ethylbenzene	700		<2.5	< 0.50
Styrene	100		<2.5	< 1.0
o-Xylene	NE		<2.5	< 1.0
p/m-Xylene	NE		<2.5	< 1.0
Vinyl acetate	NE		<5.0	< 5.0
cis-1,2-Dichloroethene	70		<2.5	< 0.50
trans-1,2-Dichloroethene	100		<2.5	< 0.75
2-Butanol	NE		--	--
Tert-butyl alcohol	NE		--	--
2-Propanol	NE		--	--
4-Penten-2-ol	NE		--	--
Ethyl ether	NE		**1.5 J**	**0.25 J**
Ethylene dibromide	NE		<2.0	NA
2-Methyl-2-butanol	NE		--	--
4-Methyl-2-pentanol	NE		--	--
Tetrahydrofuran	NE		<5.0	**7.5**
TVOCs[(1)]			**1.5**	**8.37**
Semivolatile Organics				
1,4-Dioxane	NE		**210 D**	**127**

Notes and abbreviations on last page.

Table 6
Concentrations of Volatile Organic Compounds
and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Lower Sand Unit
Seymour Site
Seymour, Indiana

Constituent (units in µg/L)	Federal MCLs	Site: Sample ID: Date:	363-LS 363LS-101722-02IS-B 10/17/22	363-LS 363-LS-101023-03IS 10/10/23
Volatile Organic Compounds				
Chloromethane	NE		<10	< 2.5
Bromomethane	NE		<10	< 1.0
Vinyl chloride	2		<4.0	**0.10 J**
Chloroethane	NE		<10	< 1.0
Methylene chloride	5		<10	< 3.0
Acetone	NE		**700**	< 5.0
Carbon disulfide	NE		<20	**0.68 J**
1,1-Dichloroethene	7		<2.0	< 0.50
1,1-Dichloroethane	NE		<10	< 0.75
1,2-Dichlorobenzene	600		<10	< 2.5
Chloroform	80		<10	< 0.75
1,2-Dichloroethane	5		<2.0	< 0.50
2-Butanone	NE		<20	< 5.0
1,1,1-Trichloroethane	200		<10	< 0.50
Carbon tetrachloride	5		<2.0	< 0.50
Bromodichloromethane	80		<2.0	< 0.50
1,2-Dichloropropane	5		<4.0	< 1.8
cis-1,3-Dichloropropene	NE		<2.0	< 0.50
Trichloroethene	5		<2.0	< 0.50
Dibromochloromethane	80		<2.0	< 0.50
1,1,2-Trichloroethane	5		<6.0	< 0.75
Benzene	5		<2.0	< 0.50
trans-1,3-Dichloropropene	NE		<2.0	< 0.50
Bromoform	80		<8.0	< 2.0
4-Methyl-2-pentanone	NE		<20	< 5.0
2-Hexanone	NE		<20	< 5.0
Tetrachloroethene	5		<2.0	< 0.50
1,1,2,2-Tetrachloroethane	NE		<2.0	< 0.50
Toluene	1000		<10	< 0.75
Chlorobenzene	100		<10	< 0.50
Ethylbenzene	700		<10	< 0.50
Styrene	100		<10	< 1.0
o-Xylene	NE		<10	< 1.0
p/m-Xylene	NE		<10	< 1.0
Vinyl acetate	NE		<20	< 5.0
cis-1,2-Dichloroethene	70		<10	< 0.50
trans-1,2-Dichloroethene	100		<10	< 0.75
2-Butanol	NE		--	--
Tert-butyl alcohol	NE		--	--
2-Propanol	NE		--	--
4-Penten-2-ol	NE		--	--
Ethyl ether	NE		<10	< 2.5
Ethylene dibromide	NE		<8.0	NA
2-Methyl-2-butanol	NE		--	--
4-Methyl-2-pentanol	NE		--	--
Tetrahydrofuran	NE		<20	< 5.0
TVOCs[(1)]			**700**	**0.78**
Semivolatile Organics				
1,4-Dioxane	NE		**1.16**	**0.161**

Notes and abbreviations on last page.

Table 6
Concentrations of Volatile Organic Compounds
and Seymour Site-Specific Compounds
Detected in Groundwater Samples in the Lower Sand Unit
Seymour Site
Seymour, Indiana

Notes and Abbreviations:

Bold value indicates a detection.

	Compound exceeds Associated maximum contaminant level.
B	Compound was also detected in the associated method blank.
D	Compound detected at a secondary dilution.
J	Compound detected but below its reporting limit; the value is estimated.
NE	not established
R	The sample results are rejected.
TVOC	total volatile organic compounds
UB	Compound considered non-detect at the listed value due to associated blank contamination
µg/L	micrograms per liter
--	not analyzed
<	Compound not detected above its laboratory quantification limit.
(1)	TVOCs represents the sum of all individual compound concentrations including Seymour Site-Specific compounds, except 1,4-dioxane.

Table 7
Recovery Well Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Constituents (Units in µg/L)	Location ID: Recovery Well ID: Date:	SP-101 SA-RW-3-101722-02IS-B 10/17/22	SP-101 SA-RW-3-101323-03IS 10/13/23	SP-102 SA-RW-2-101722-07IS-B 10/17/22	SP-102 SA-RW-2-101123-06IS 10/11/23	SP-103 LS-RW-3-101722-01IS-B 10/17/22	SP-103 LS-RW-3-101123-04IS 10/11/23	SP-104 LS-RW-2-101722-08IS-B 10/17/22	SP-104 LS-RW-2-101123-05IS 10/11/23	SP-105 SA-RW-1-101722-05IS-B 10/17/22	SP-105 SA-RW-1-101323-01IS 10/13/23
Volatile Organic Compounds											
1,1,1-Trichloroethane		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<5.0	< 1.0
1,1,2,2-Tetrachloroethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
1,1,2-Trichloroethane		<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<1.5	< 0.75	<3.0	< 1.5
1,1-Dichloroethane		<2.5	**0.32 J**	<2.5	**0.49 J**	<2.5	< 0.75	<2.5	< 0.75	**12**	**4.9**
1,1-Dichloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	**0.81 J**	< 1.0
1,2-Dichlorobenzene		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<5.0	< 5.0
1,2-Dichloroethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
1,2-Dichloropropane		<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<1.0	< 1.8	<2.0	< 3.5
2-Butanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<10	< 10
2-Hexanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<10	< 10
4-Methyl-2-pentanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<10	< 10
Acetone		<5.0	< 5.0	<5.0	< 5.0	**25**	< 5.0	<5.0	< 5.0	<10	< 10
Benzene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	**4**	**2.4**
Bromodichloromethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Bromoform		<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<2.0	< 2.0	<4.0	< 4.0
Bromomethane		<2.5	< 1.0 J	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<5.0	< 2.0 J
Carbon Disulfide		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<10	< 10
Carbon Tetrachloride		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Chlorobenzene		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<5.0	< 1.0
Chloroethane		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	**40**	**18**
Chloroform		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<5.0	< 1.5
Chloromethane		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<5.0	< 5.0
cis-1,2-Dichloroethene		<2.5	**1**	**3.1**	**2.4**	<2.5	< 0.50	<2.5	< 0.50	**300**	**170**
cis-1,3-Dichloropropene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Dibromochloromethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Ethyl ether		<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	<2.5	< 2.5	**1.7 J**	**1.0 J**
Ethylbenzene		<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<2.5	< 0.50	<5.0	< 1.0
Methylene Chloride		<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<2.5	< 3.0	<5.0	< 6.0
o-Xylene		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<5.0	< 2.0
p/m-Xylene		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<5.0	< 2.0
Styrene		<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<2.5	< 1.0	<5.0	< 2.0
Tetrachloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Tetrahydrofuran		<5.0	< 5.0	<5.0	< 5.0	<5.0	**1.6 J**	**96**	**99**	**3.6 J**	**2.5 J**
Toluene		<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<2.5	< 0.75	<5.0	< 1.5
trans-1,2-Dichloroethene		<2.5	< 0.75	<2.5	**0.38 J**	<2.5	< 0.75	<2.5	< 0.75	**12**	**5.6**
trans-1,3-Dichloropropene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Trichloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<1.0	< 1.0
Vinyl Acetate		<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<10	< 10
Vinyl Chloride		<1.0	< 1.0	**14**	**14**	<1.0	< 1.0	<1.0	< 1.0	**260**	**140**
TVOCs [2]		ND	**1.32**	**17**	**17.27**	**25**	1.6	96	99	**631**	**344.4**
Semivolatile Organics											
1,4-Dioxane		**3.05**	**0.572**	**0.679**	**1.07**	**1.2**	**118**	**452**	**564 D**	**31.1**	**40.5**

Notes and Abbreviations on next page

Table 7
Recovery Well Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Constituents (Units in µg/L)	Location ID: Recovery Well ID: Date:	SP-106 LS-RW-1-101722-06IS-B 10/17/22	SP-106 LS-RW-1-101123-07IS 10/11/23	EW-6 EW-6-101722-04IS-B 10/17/22	EW-6 EW-6-101123-03IS 10/11/23	TRIP BLANK TRIP BLANK-COOLER#1 10/18/22	TRIP BLANK TRIP BLANK-COOLER#2 10/18/22
Volatile Organic Compounds							
1,1,1-Trichloroethane		<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5
1,1,2,2-Tetrachloroethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
1,1,2-Trichloroethane		<1.5	< 0.75	<1.5	< 0.75	<1.5	<1.5
1,1-Dichloroethane		<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5
1,1-Dichloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
1,2-Dichlorobenzene		<2.5	< 2.5	<2.5	< 2.5	<2.5	<2.5
1,2-Dichloroethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
1,2-Dichloropropane		<1.0	< 1.8	<1.0	< 1.8	<1.0	<1.0
2-Butanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
2-Hexanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
4-Methyl-2-pentanone		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
Acetone		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
Benzene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Bromodichloromethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Bromoform		<2.0	< 2.0	<2.0	< 2.0	<2.0	<2.0
Bromomethane		<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5
Carbon Disulfide		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
Carbon Tetrachloride		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Chlorobenzene		<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5
Chloroethane		**1.7 J**	**1.5**	<2.5	< 1.0	<2.5	<2.5
Chloroform		<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5
Chloromethane		<2.5	< 2.5	<2.5	< 2.5	<2.5	<2.5
cis-1,2-Dichloroethene		<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5
cis-1,3-Dichloropropene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Dibromochloromethane		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Ethyl ether		<2.5	**0.56 J**	**1.5 J**	**0.67 J**	<2.5	<2.5
Ethylbenzene		<2.5	< 0.50	<2.5	< 0.50	<2.5	<2.5
Methylene Chloride		<2.5	< 3.0	<2.5	< 3.0	<2.5	<2.5
o-Xylene		<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5
p/m-Xylene		<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5
Styrene		<2.5	< 1.0	<2.5	< 1.0	<2.5	<2.5
Tetrachloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Tetrahydrofuran		**290**	**170**	<5.0	< 5.0	<5.0	<5.0
Toluene		<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5
trans-1,2-Dichloroethene		<2.5	< 0.75	<2.5	< 0.75	<2.5	<2.5
trans-1,3-Dichloropropene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Trichloroethene		<0.50	< 0.50	<0.50	< 0.50	<0.50	<0.50
Vinyl Acetate		<5.0	< 5.0	<5.0	< 5.0	<5.0	<5.0
Vinyl Chloride		**3.8**	**2.3**	**26**	**12**	<1.0	<1.0
TVOCs [2]		**295.5**	**174.36**	**27.5**	**12.67**	ND	ND
Semivolatile Organics							
1,4-Dioxane		**1,260**	**1,420 D**	**4.74**	**2.1**	--	--

Notes and Abbreviations on next page

Table 7
Recovery Well Water Sample Analytical Results
Groundwater Treatment System,
Seymour Site
Seymour, Indiana [1]

Notes and Abbreviations:

Bold	Compound detected above method detection limit.
J	estimated value
LS-RW	lower sand aquifer recovery well
ND	not detected
NA	not applicable
SA-RW	shallow aquifer recovery well
TVOC	total volatile organic compounds
µg/L	micrograms per liter
--	not analyzed
<	Compound not detected above its laboratory quantification limit.
(1)	Refer to Figure 2 - Groundwater Treatment System Schematic of this report for the locations of sampling ports. Data presented in this table correspond to July 1, 2021 through December 31, 2022.
(2)	TVOC represents the sum of the individual concentrations of the compounds detected.

Table 8
Concentrations of 1,4-Dioxane Detected in Surface Water Samples
Collected from the East Fork of the White River, Seymour Site
Seymour, Indiana

Constituent: (units in µg/L)	Site: Sample ID: Sample Date:	EFWR-2 EFWR-2-101922-05IS-B 10/19/2022	EFWR-2 EFWR-2-101323-02IS 10/23/2023
Semivolatile Organics			
1,4-Dioxane		**0.0623 J**	**0.06 J**

Notes and Abbreviations:

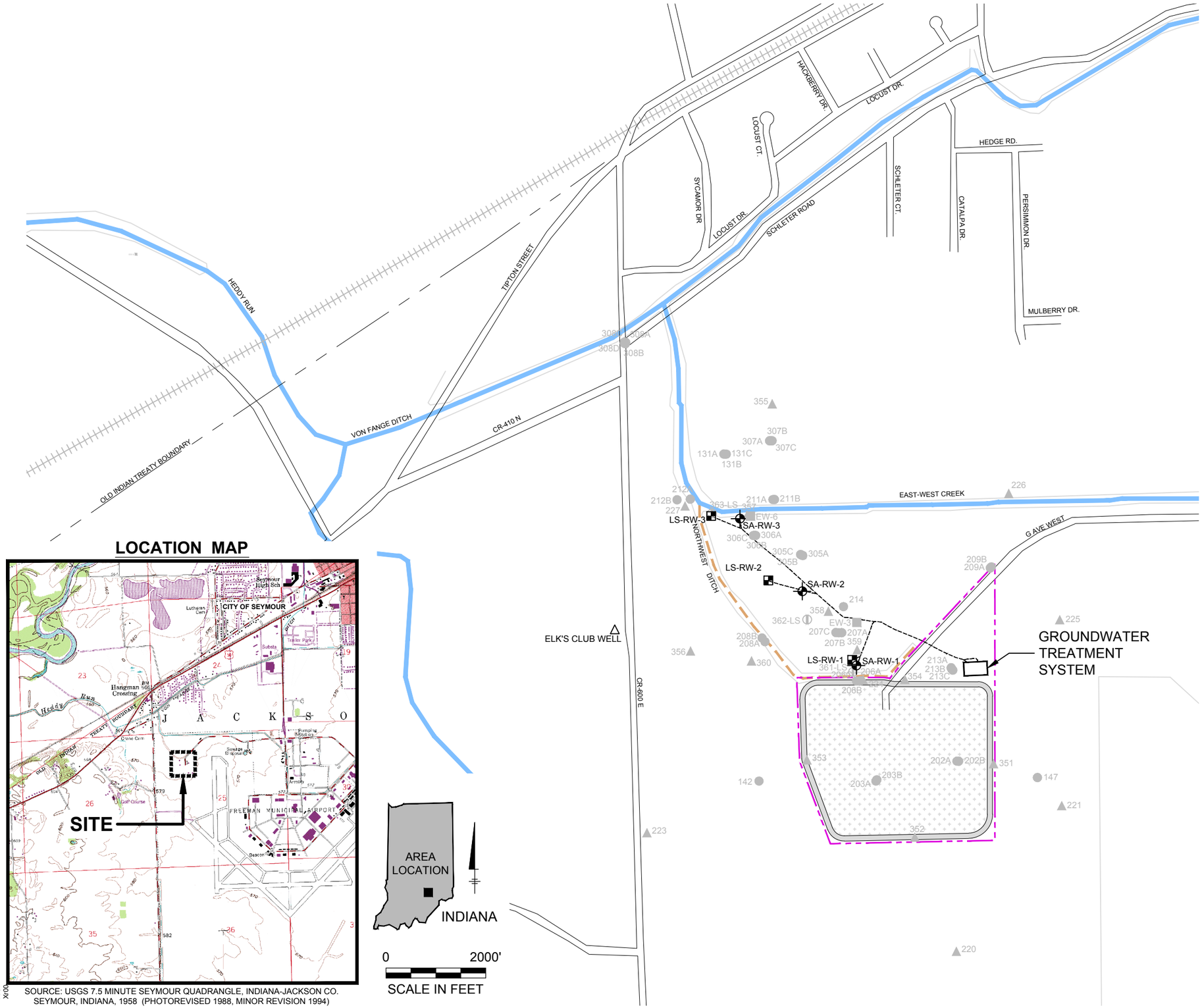
Bold value indicates a detection.

-- not analyzed

< Compound not detected above its laboratory quantification limit.

J Compound detected but below its reporting limit; the value is estimated.

Figures



LOCATION MAP

SOURCE: USGS 7.5 MINUTE SEYMOUR QUADRANGLE, INDIANA-JACKSON CO. SEYMOUR, INDIANA, 1958 (PHOTOREVISED 1988, MINOR REVISION 1994)

0 2000'

SCALE IN FEET

LEGEND:

- SITE BOUNDARY
- SEYMOUR ACCESS ROAD
- SURFACE WATER
- STORMWATER RUN-OFF/ DRAINAGE DITCH
- RECOVERY PIPELINE
- DEEP AQUIFER MONITORING WELL
- SHALLOW AQUIFER MONITORING WELL
- INACTIVE SHALLOW AQUIFER EXTRACTION WELL
- LOWER SAND AQUIFER MONITORING WELL
- SHALLOW AQUIFER RECOVERY WELL
- LOWER SAND RECOVERY WELL
- LANDFILL MULTI-MEDIA CAP AND PASSIVE VENTING SYSTEM

NOTE:

RECORD DRAWINGS DETAILING THE LAYOUT OF THE GROUNDWATER TREATMENT SYSTEM, LANDFILL MULTI-MEDIA CAP AND PASSIVE VENTING SYSTEM, ARE PROVIDED IN APPENDICES A-1 AND B OF THE OM□M PLAN.

0 500' 1000'

APPROXIMATE SCALE IN FEET

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

SITE AREA LOCATION MAP AND GENERAL SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

LIMITS OF TREATMENT BUILDING

PI 101B · SP-101 · FIT 101
PI 102B · SP-102 · FIT 102
PI 103B · SP-103 · FIT 103
PI 104B · SP-104 · FIT 104
PI 105B · SP-105 · FIT 105
PI 106B · SP-106 · FIT 106
PI 500 · FIT 500 · SP-500

PI 107B · FIT 107 · PI 101A · EW-6
PI 102A · SA-RW-3
PI 103A · SA-RW-2
PI 104A · LS-RW-3
PI 105A · LS-RW-2
PI 106A · SA-RW-1
LS-RW-1
RECOVERY WELLS

LIMITS OF TREATMENT BUILDING

AIR EXHAUST TO ATMOSPHERE
AIR EXHAUST TO ATMOSPHERE
AIR EXHAUST TO ATMOSPHERE
ACID WASH RETURN
INFLUENT AIR FROM ATMOSPHERE
DRAIN TO FLOOR
VENT TO ATMOSPHERE

T- 500 INFLUENT EQUALIZATION TANK
AOP RECYCLE LINE

LIMITS OF HIPOX SKIDS
APT-T-600 H2O2 STORAGE TANK
APT-P-600 H2O2 PUMP
SP-510 · PIT 510 · PI 510 · FIT 600
APT-R-100 PRIMARY REACTOR
APT SP-110
APT-R-110 SECONDARY REACTOR
SP-600
AOP BYPASS LINE
AIR STRIPPER BYPASS
SM-600 STATIC MIXER
P-500 HiPOx FEED PUMP

VP-700 · PI 700A
AS-700 LOW PROFILE AIR STRIPPER
PI 700 · PIT 700
B-700 BLOWER
P-710 PUMP
LIMITS OF AIR STRIPPER SKID
AIR STRIPPER BYPASS
P-650 METERING PUMP
T-650 SEQUESTERING AGENT DRUM
ACID WASH PROCESS WATER

ACID WASH DISCHARGE
RAW ACID SUPPLY
P-800 METERING PUMP
T-800 ACID WASH STORAGE TANK
SP-800
PROCESS WATER FEED/ ACID WASH RETURN
T- 810 ACID SUPPLY DRUM
POTABLE WATER RINSE LINE

PI 710 · SP-700
FIT 710 · AIT 710 · SP-710
OUTFALL 001 DISCHARGE TO THE CITY OF SEYMOUR

CONDENSATE LINE
EFFLUENT RECYCLE
P-900A SUMP PUMP
P-900B SUMP PUMP

POTABLE WATER RINSE LINE
SOUTH EMERGENCY EYEWASH/ SHOWER
NORTH EMERGENCY EYEWASH/ SHOWER
TO ORIGINAL CARBON ADSORBER
ORIGINAL BLIND FLANGE
POTABLE WATER

LIMITS OF TREATMENT BUILDING

LEGEND:
- MAIN PROCESS (WATER)
- MINOR PROCESS
- AIR STRIPPER PROCESS AIR
- PROCESS VAPOR
- BACKWASH/ACID WASH PROCESS WATER
- CONDENSATE LINE
- MAIN POTABLE WATER LINE
- SAMPLE PORT
- FIT — FLOW INDICATOR TRANSMITTER
- PI — PRESSURE INDICATOR
- PIT — PRESSURE INDICATOR TRANSMITTER
- AIT — ANALYTICAL INDICATOR TRANSMITTER (pH METER)

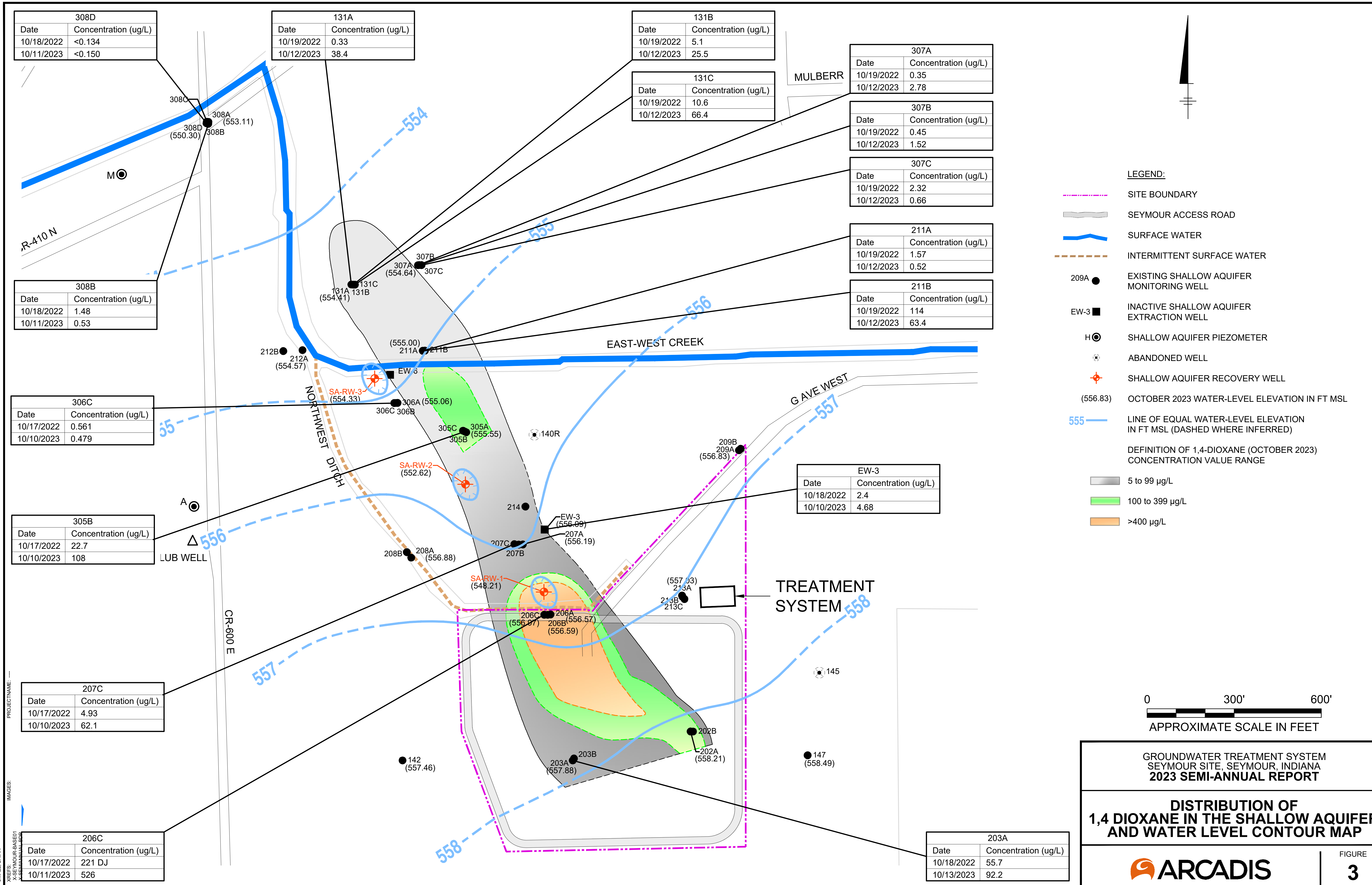
SEYMOUR SITE, SEYMOUR, INDIANA
OPERATIONS, MAINTENANCE, AND MONITORING PLAN

GROUNDWATER TREATMENT SYSTEM SCHEMATIC

ARCADIS

FIGURE **2**

CITY:SYR/MELVILLE DIV/GROUP:ENV DB:A.SANCHEZ LD: PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Users\BSSmall\ACCDocs\Arcadis\AUS-MON&ANTO-SEYMOUR SUPERFUND SITE-SEYMOUR Indiana\Project Files\2023\01-In Progress\01-DWG\OMM-F02-GWTREATMENT.dwg LAYOUT: 2 SAVED: 6/21/2023 9:20 AM ACADVER: 24.2S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 10/23/2023 2:36 PM BY: SMALL, BRIAN
XREFS: IMAGES: PROJECTNAME: ---



MULBERR
R-410 N
EAST-WEST CREEK
G AVE WEST
NORTHWEST DITCH
CR-600 E
LUB WELL
TREATMENT SYSTEM
554
555
556
557
558
308C
308A (553.11)
308D (550.30)
308B
M
131A (554.41) 131B
131C
307A (554.64)
307B
307C
212B
212A (554.57)
(555.00) 211A
211B
EW-6
SA-RW-3 (554.33)
306A (555.06)
306C 306B
305C
305A (555.55)
305B
140R
SA-RW-2 (552.62)
A
214
EW-3 (556.09)
207A (556.19)
207C
207B
208B
208A (556.88)
209B
209A (556.83)
SA-RW-1 (548.21)
(557.03) 213A
213B
213C
206C (556.97)
206A (556.57)
206B (556.59)
145
142 (557.46)
202B
202A (558.21)
203B
203A (557.88)
147 (558.49)
LEGEND:
SITE BOUNDARY
SEYMOUR ACCESS ROAD
SURFACE WATER
INTERMITTENT SURFACE WATER
209A EXISTING SHALLOW AQUIFER MONITORING WELL
EW-3 INACTIVE SHALLOW AQUIFER EXTRACTION WELL
H SHALLOW AQUIFER PIEZOMETER
ABANDONED WELL
SHALLOW AQUIFER RECOVERY WELL
(556.83) OCTOBER 2023 WATER-LEVEL ELEVATION IN FT MSL
555 LINE OF EQUAL WATER-LEVEL ELEVATION IN FT MSL (DASHED WHERE INFERRED)
DEFINITION OF 1,4-DIOXANE (OCTOBER 2023) CONCENTRATION VALUE RANGE
5 to 99 µg/L
100 to 399 µg/L
>400 µg/L
0 300' 600'
APPROXIMATE SCALE IN FEET

308D

Date	Concentration (ug/L)
10/18/2022	<0.134
10/11/2023	<0.150

131A

Date	Concentration (ug/L)
10/19/2022	0.33
10/12/2023	38.4

131B

Date	Concentration (ug/L)
10/19/2022	5.1
10/12/2023	25.5

131C

Date	Concentration (ug/L)
10/19/2022	10.6
10/12/2023	66.4

307A

Date	Concentration (ug/L)
10/19/2022	0.35
10/12/2023	2.78

307B

Date	Concentration (ug/L)
10/19/2022	0.45
10/12/2023	1.52

307C

Date	Concentration (ug/L)
10/19/2022	2.32
10/12/2023	0.66

211A

Date	Concentration (ug/L)
10/19/2022	1.57
10/12/2023	0.52

211B

Date	Concentration (ug/L)
10/19/2022	114
10/12/2023	63.4

308B

Date	Concentration (ug/L)
10/18/2022	1.48
10/11/2023	0.53

306C

Date	Concentration (ug/L)
10/17/2022	0.561
10/10/2023	0.479

305B

Date	Concentration (ug/L)
10/17/2022	22.7
10/10/2023	108

EW-3

Date	Concentration (ug/L)
10/18/2022	2.4
10/10/2023	4.68

207C

Date	Concentration (ug/L)
10/17/2022	4.93
10/10/2023	62.1

206C

Date	Concentration (ug/L)
10/17/2022	221 DJ
10/11/2023	526

203A

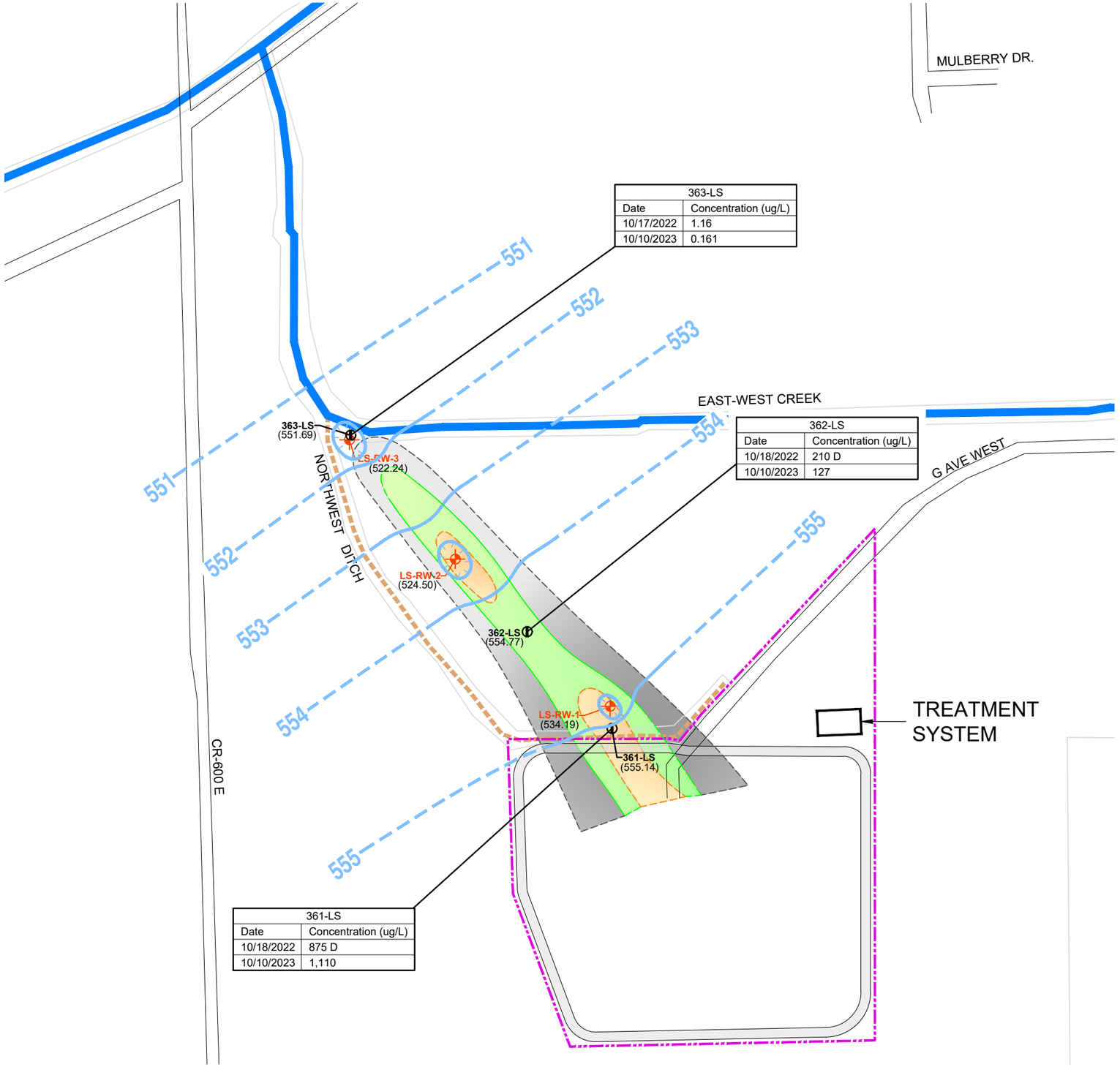
Date	Concentration (ug/L)
10/18/2022	55.7
10/13/2023	92.2

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA
2023 SEMI-ANNUAL REPORT

DISTRIBUTION OF 1,4 DIOXANE IN THE SHALLOW AQUIFER AND WATER LEVEL CONTOUR MAP

ARCADIS

FIGURE 3



363-LS	
Date	Concentration (ug/L)
10/17/2022	1.16
10/10/2023	0.161

362-LS	
Date	Concentration (ug/L)
10/18/2022	210 D
10/10/2023	127

361-LS	
Date	Concentration (ug/L)
10/18/2022	875 D
10/10/2023	1,110

LEGEND:

- SITE BOUNDARY
- SEYMOUR ACCESS ROAD
- SURFACE WATER
- INTERMITTENT SURFACE WATER
- LOWER SAND UNIT MONITORING WELL
- LOWER SAND UNIT RECOVERY WELL
- (534.19) OCTOBER 2023 WATER-LEVEL ELEVATION IN FT. MSL.
- 555 LINE OF EQUAL WATER-LEVEL ELEVATION IN FT MSL (DASHED WHERE INFERRED)

DEFINITION OF 1,4-DIOXANE (OCTOBER 2023) CONCENTRATION VALUE RANGE

- 5 to 99 µg/L
- 100 to 399 µg/L
- >400 µg/L

0 300' 600'

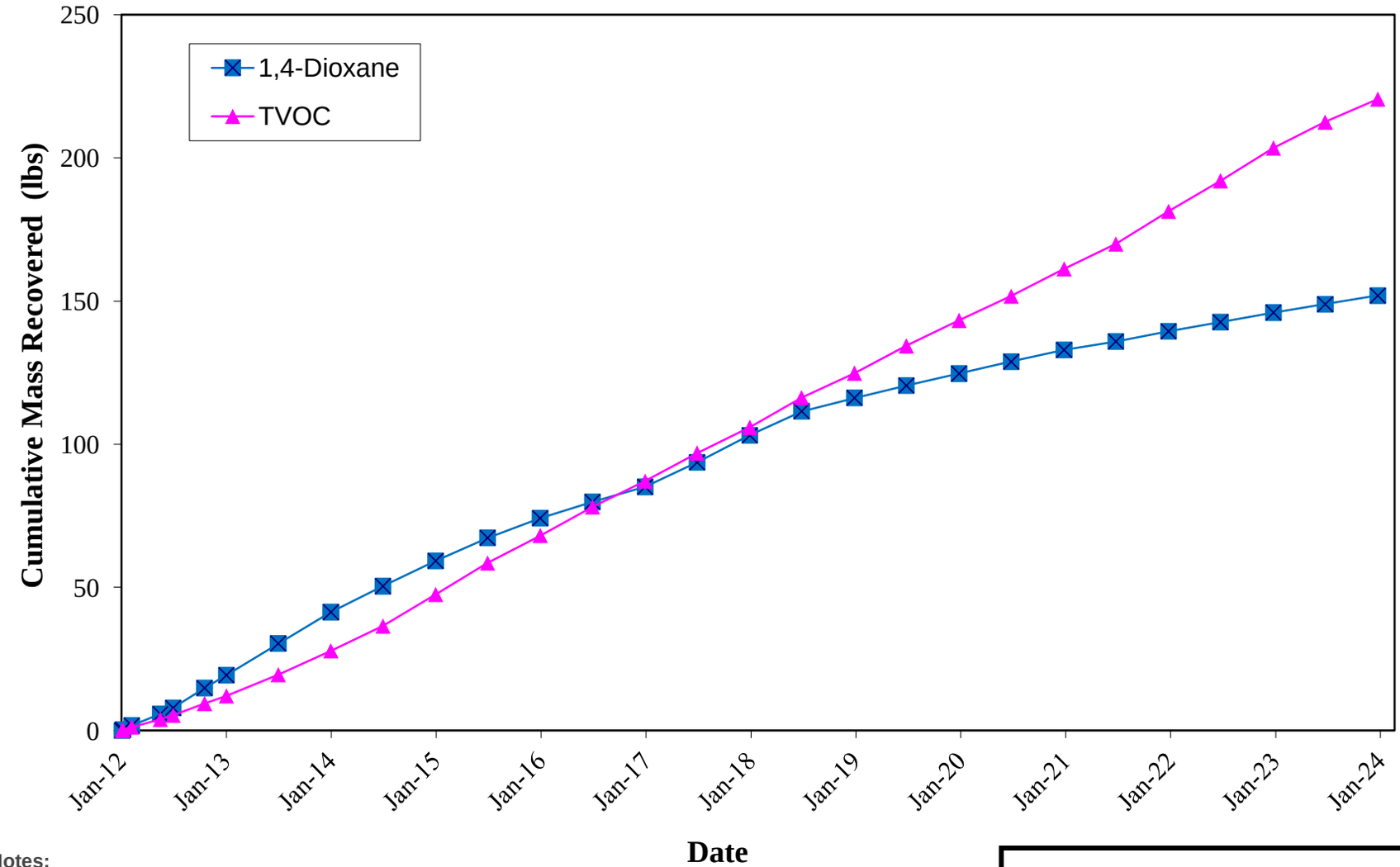
APPROXIMATE SCALE IN FEET

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA
2023 SEMI-ANNUAL REPORT

DISTRIBUTION OF 1,4-DIOXANE IN THE LOWER SAND UNIT AND WATER LEVEL CONTOUR MAP

ARCADIS

FIGURE
4



Notes:

TVOC = total volatile organic compound
lbs = pounds

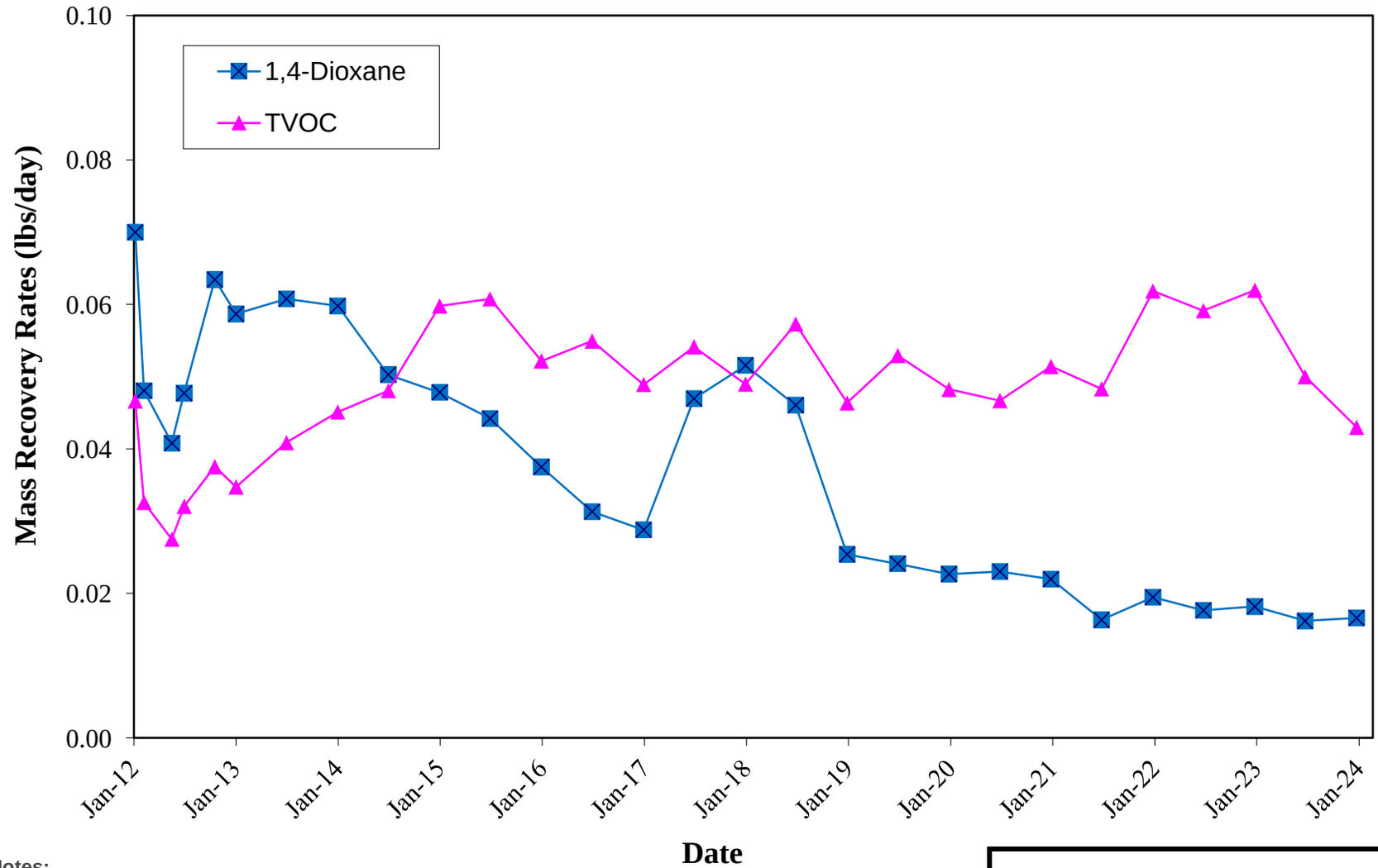
GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

CUMULATIVE 1,4-DIOXANE AND TVOC MASS REMOVED THROUGH DECEMBER 2023

ARCADIS

FIGURE
5

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 5



Notes:

TVOC = total volatile organic compound
lbs/day = pounds per day

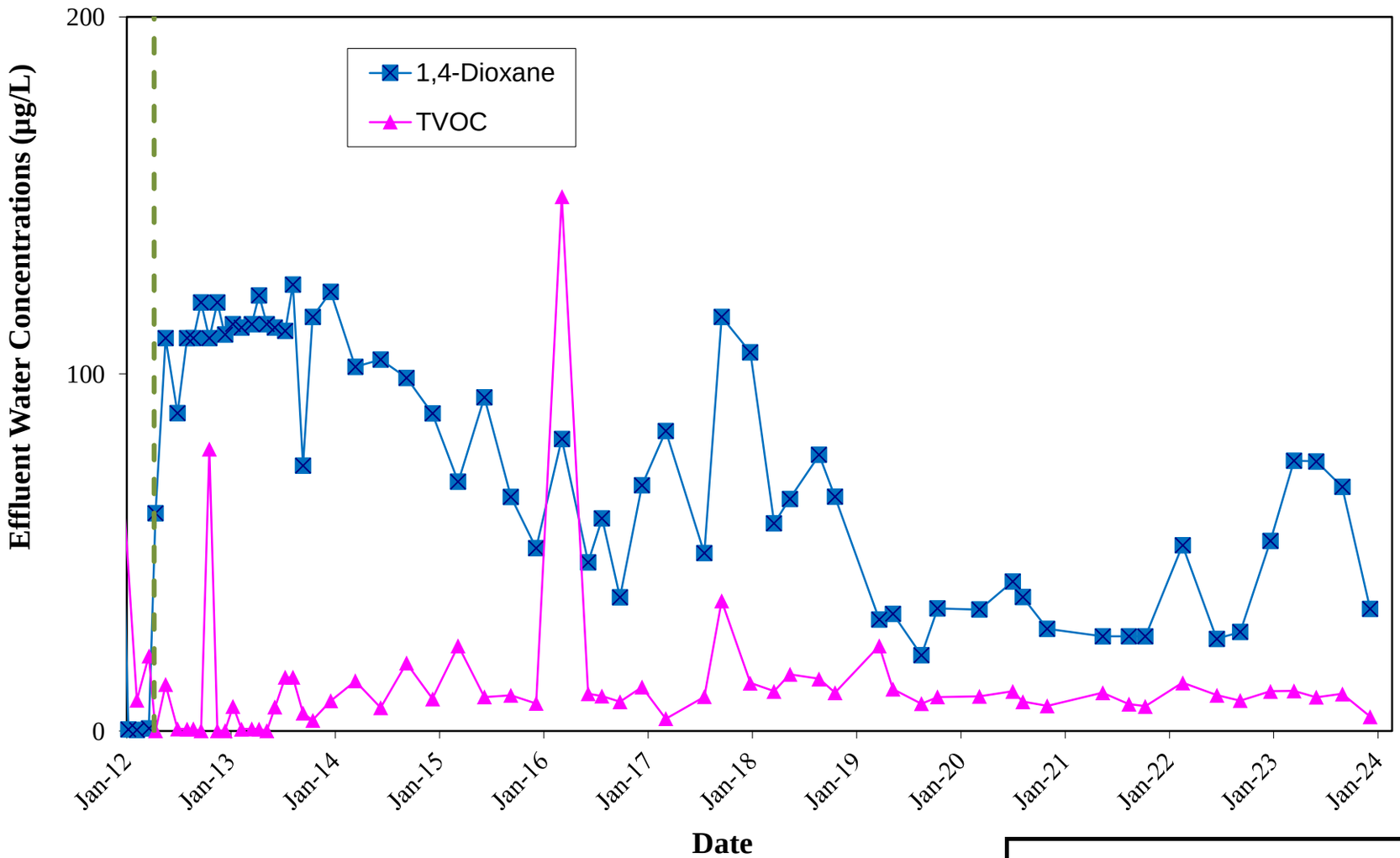
GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

1,4-DIOXANE AND TVOC MASS RECOVERY RATES THROUGH DECEMBER 2023

ARCADIS

FIGURE
6

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 6



Notes:

POTW = Publicaly Owned Treatment Works
TVOC = total volatile organic compound
µg/L = micrograms per liter
= HiPOx™ System Placed Off-Line

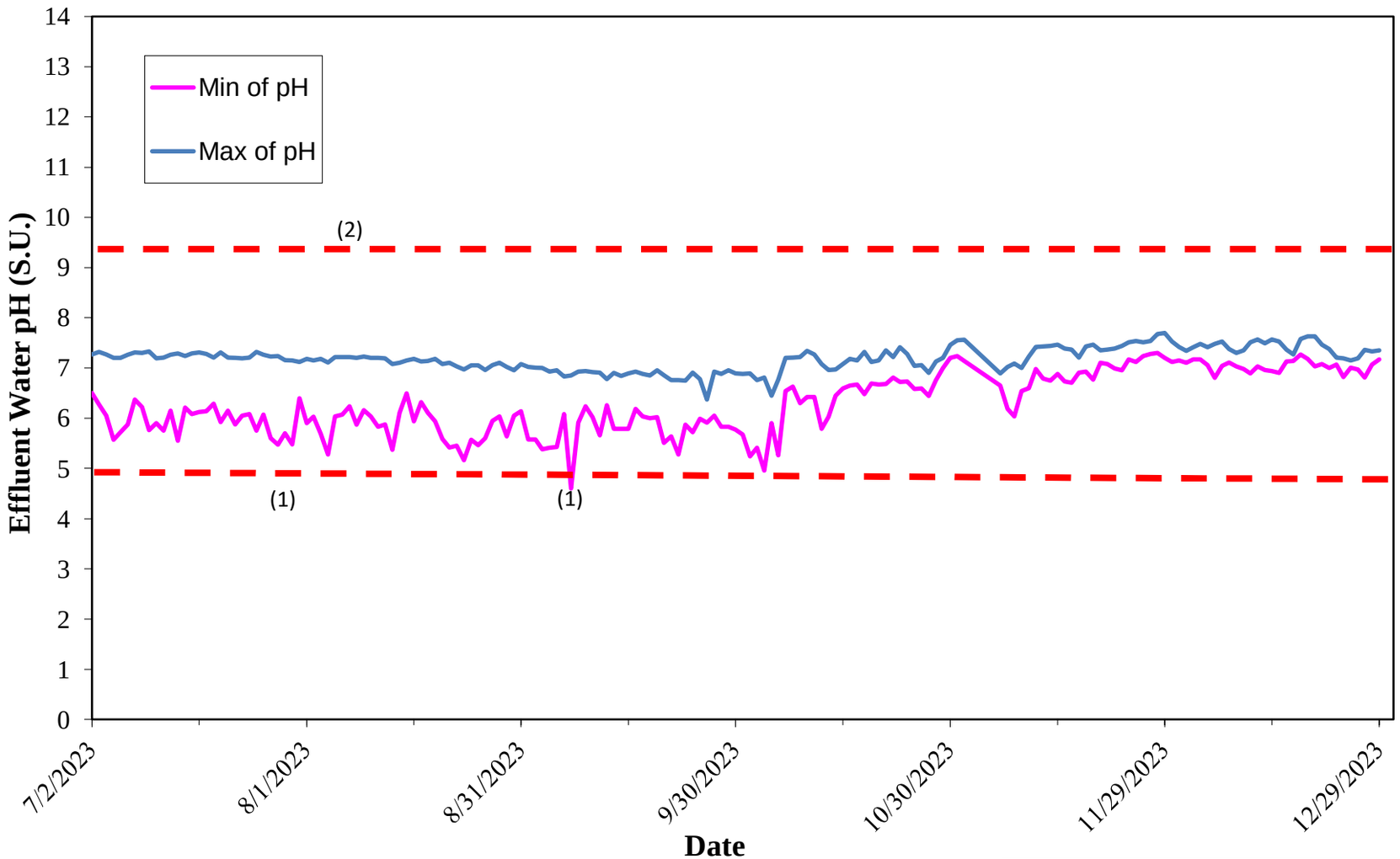
GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

EFFLUENT WATER 1,4-DIOXANE AND TVOC CONCENTRATIONS THROUGH DECEMBER 2023

ARCADIS

FIGURE
7

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 7



Notes:

S.U. = standard units

= Discharge Authorization Maximum/Minimum pH

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

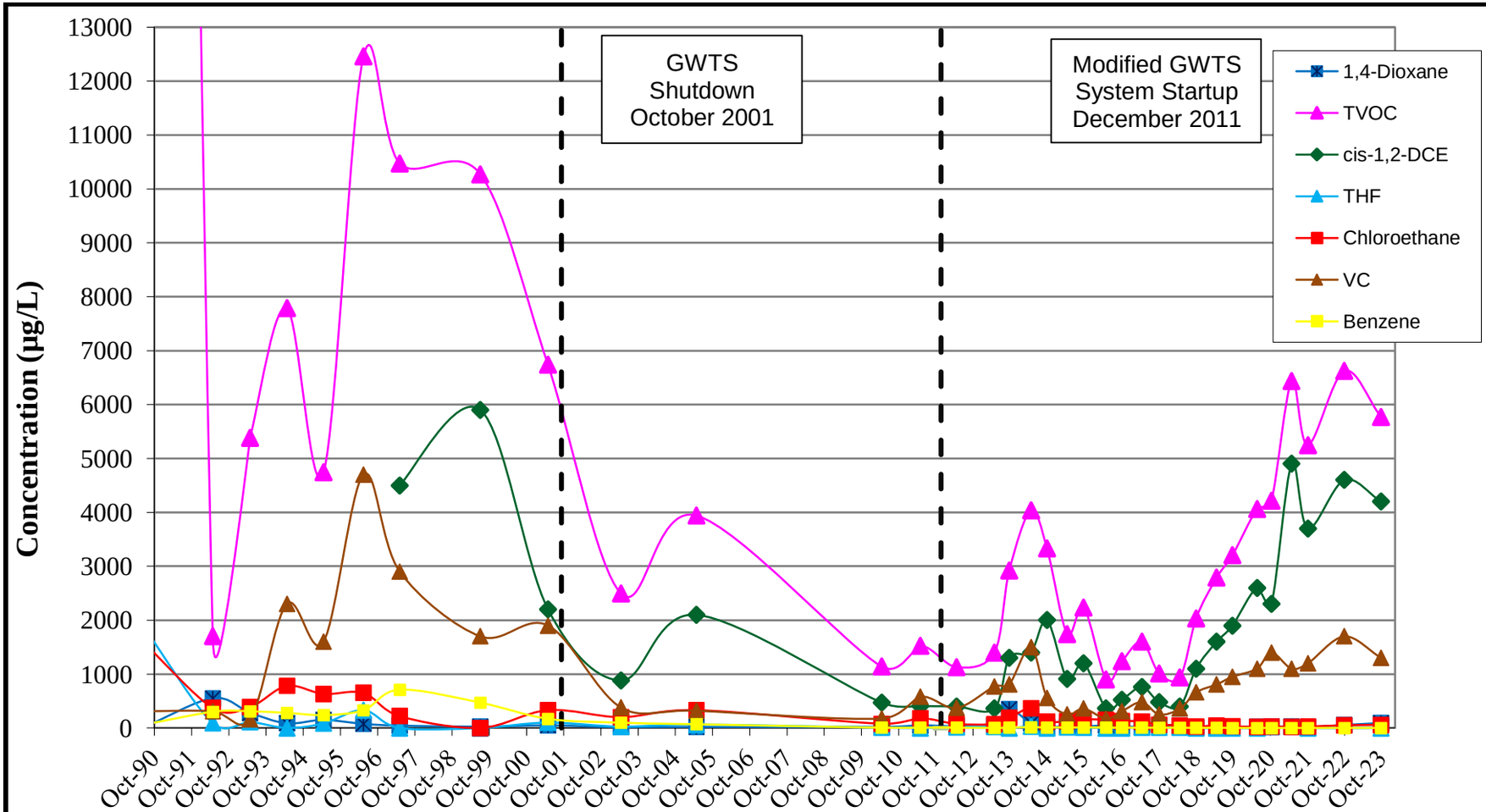
EFFLUENT WATER DAILY MAXIMUM AND MINIMUM pH THROUGH DECEMBER 2023

ARCADIS

FIGURE

8

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 8



Notes:

cis-1,2-DCE = cis-1,2-dichloroethene
GWTS = Groundwater Treatment System
THF = tetrahydrofuran
VC = vinyl chloride
TVOC = total volatile organic compound
µg/L = micrograms per liter

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

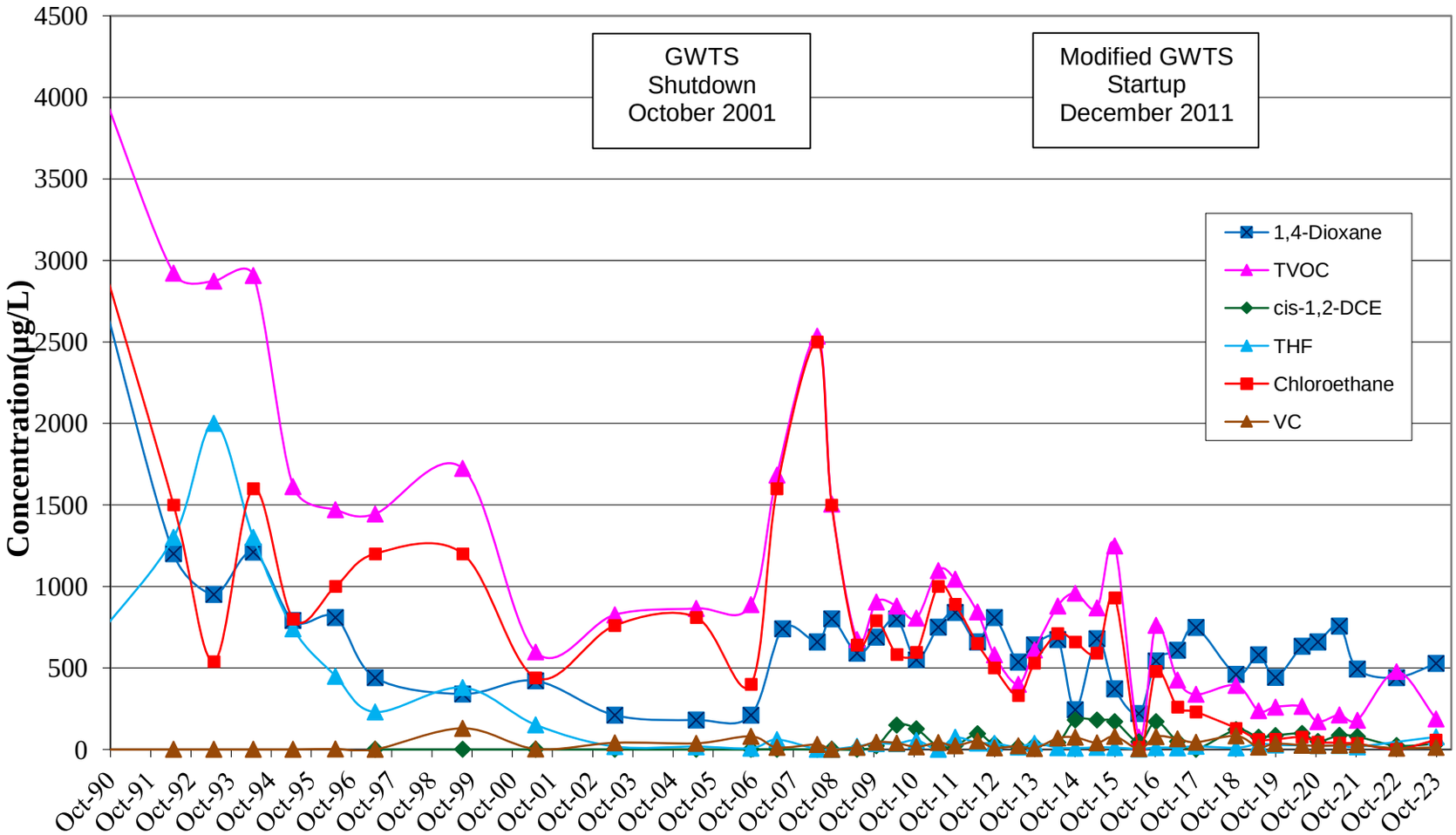
MONITORING WELL 203A

1,4-DIOXANE, cis-1,2-DCE, THF, CHLOROETHANE, VC, BENZENE, AND TVOC CONCENTRATIONS THROUGH OCTOBER 2023

ARCADIS

FIGURE
9

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 9



Notes:

cis-1,2-DCE = cis-1,2-dichloroethene
GWTS = Groundwater Treatment System
THF = tetrahydrofuran
VC = vinyl chloride
TVOC = total volatile organic compound
µg/L = micrograms per liter

(1) May 2018 sample not analyzed.

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

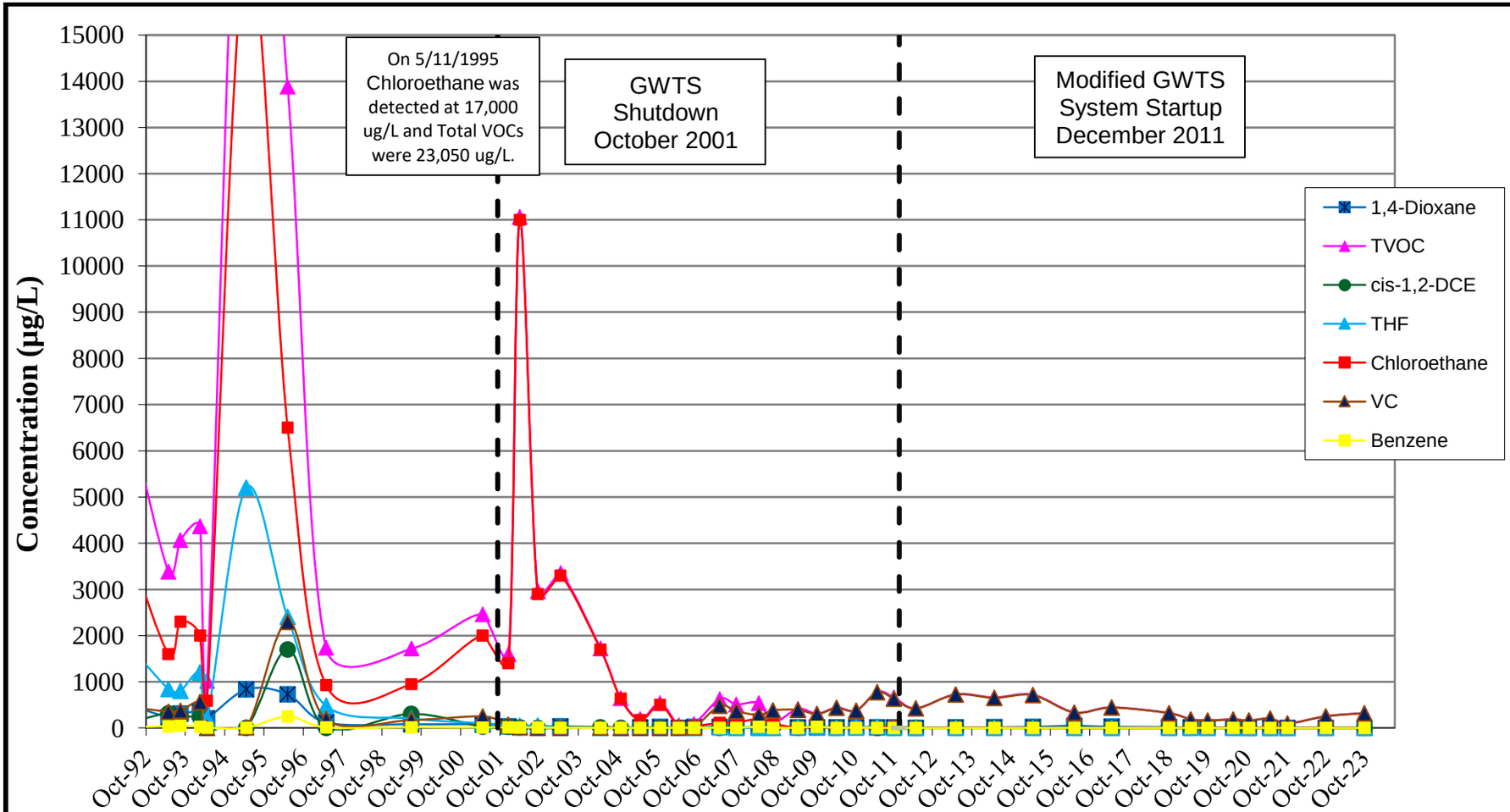
MONITORING WELL 206C

1,4-DIOXANE, cis-1,2-DCE, THF, CHLOROETHANE, VC, AND TVOC CONCENTRATIONS THROUGH OCTOBER 2023

ARCADIS

FIGURE
10

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 10



Notes:

cis-1,2-DCE = cis-1,2-dichloroethene
GWTS = Groundwater Treatment System
THF = tetrahydrofuran
VC = vinyl chloride
TVOC = total volatile organic compound
µg/L = micrograms per liter

(1) May 2018 sample not analyzed.

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

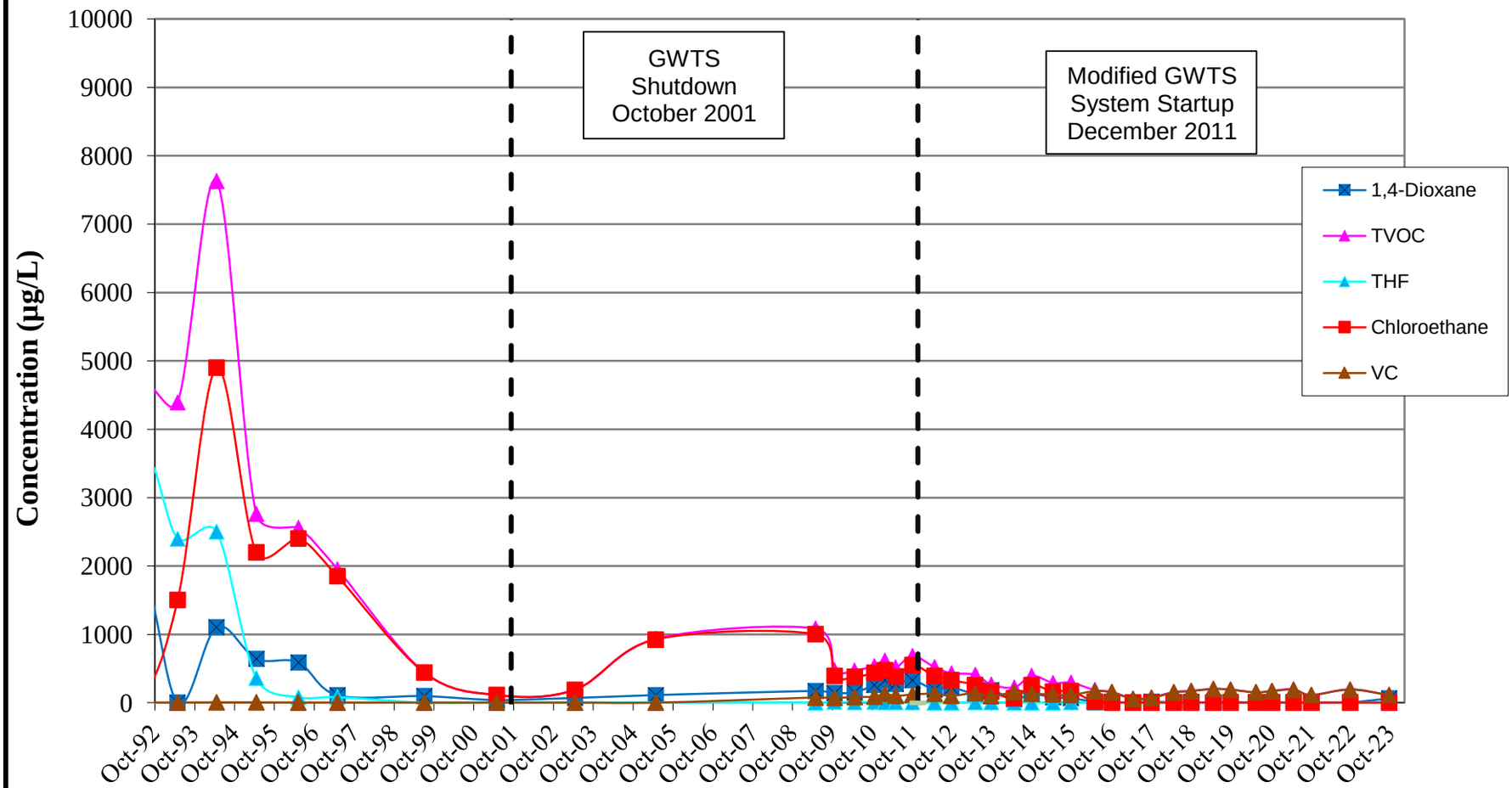
MONITORING WELL EW-3

1,4-DIOXANE, cis-1,2-DCE, THF, CHLOROETHANE, VC, BENZENE, AND TVOC CONCENTRATIONS THROUGH OCTOBER 2023

ARCADIS

FIGURE
11

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 11



Notes:

GWTS = Groundwater Treatment System
THF = tetrahydrofuran
VC = vinyl chloride
TVOC = total volatile organic compound
µg/L = micrograms per liter

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

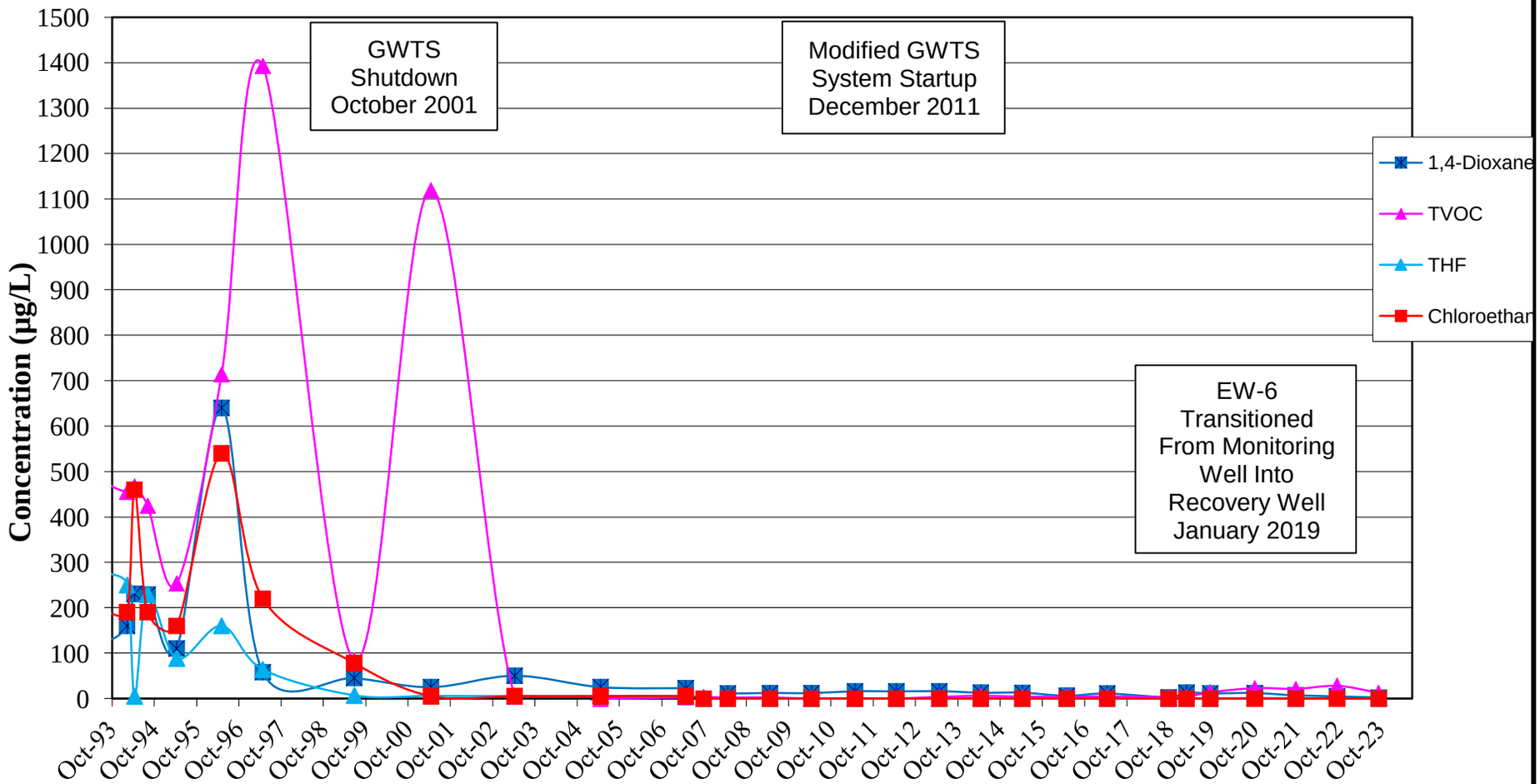
MONITORING WELL 207C

1,4-DIOXANE, THF, CHLOROETHANE, VC, AND TVOC CONCENTRATIONS THROUGH OCTOBER 2023

ARCADIS

FIGURE
12

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 12



Notes:

GWTS = Groundwater Treatment System
THF = tetrahydrofuran
VC = vinyl chloride
TVOC = total volatile organic compound
µg/L = micrograms per liter

(1) May 2018 sample not analyzed.

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

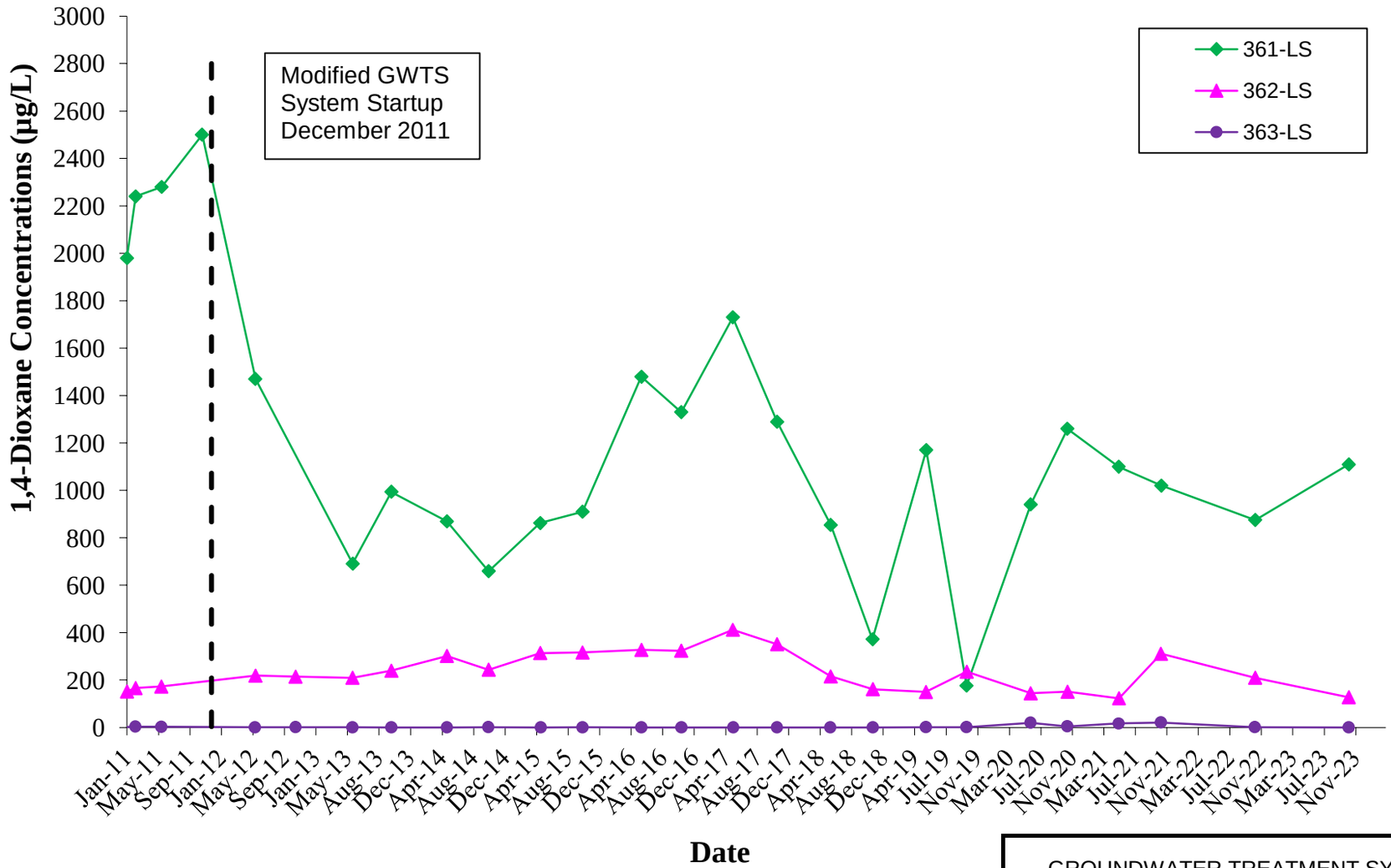
RECOVERY WELL EW-6

1,4-DIOXANE, THF, CHLOROETHANE, AND TVOC CONCENTRATIONS THROUGH OCTOBER 2023

ARCADIS

FIGURE
13

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 13



Notes:

µg/L = micrograms per liter

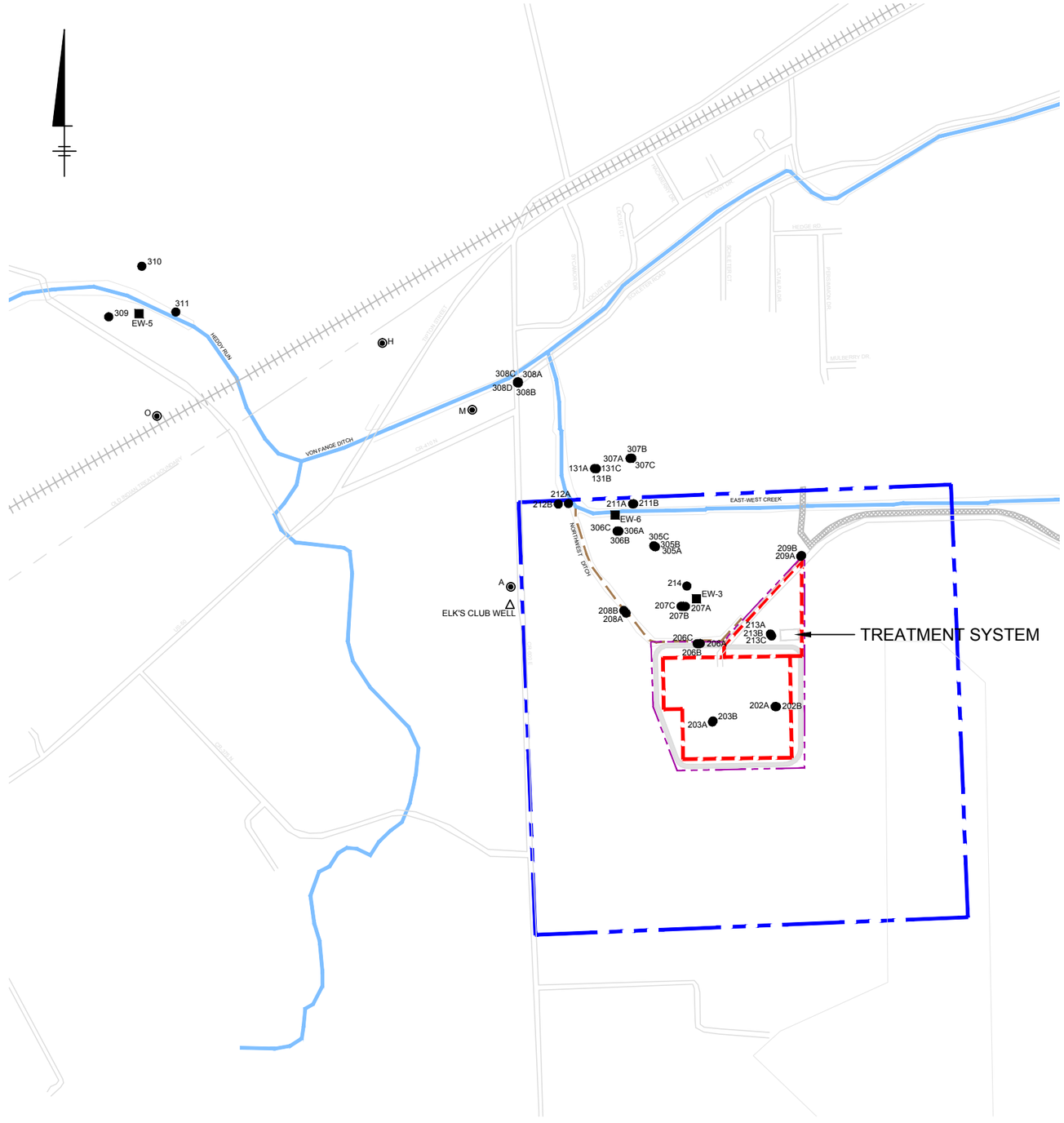
GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

LOWER SAND UNIT MONITORING WELLS
1,4-DIOXANE CONCENTRATIONS
THROUGH OCTOBER 2023

ARCADIS

FIGURE
14

\\arcadis-us.com\officedata\Melville-NY\APROJECT\SEYMOUR\NY0713.2023\Reports\Annual\Figures\Groundwater Treatment System Figures- Annual 2023Figure 14



LEGEND:

SITE BOUNDARY

DEED RESTRICTION THAT IMPOSES THE FOLLOWING CONDITIONS:

1. THERE SHALL BE NO CONSUMPTIVE OR OTHER USE OF THE GROUNDWATER UNDERLYING THE SEYMOUR SITE THAT COULD CAUSE EXPOSURE OF HUMANS OR ANIMALS TO THE GROUNDWATER UNDERLYING THE SEYMOUR SITE.

2. THERE SHALL BE NO RESIDENTIAL OR COMMERCIAL USE OF THE SEYMOUR SITE, INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION, INSTALLATION, OR USE OF ANY STRUCTURES OR BUILDINGS FOR RESIDENTIAL OR COMMERCIAL PURPOSES.

3. THERE SHALL BE NO USE OF THE SEYMOUR SITE THAT WOULD ALLOW THE CONTINUED PRESENCE OF HUMANS AT THE SEYMOUR SITE, OTHER THAN ANY PRESENCE NECESSARY FOR IMPLEMENTATION OF REMEDIAL ACTION UNDER THE CONSENT DECREE. PROHIBITED USES WHICH WOULD ALLOW THE CONTINUED PRESENCE OF HUMANS AT THIS PARTICULAR REAL ESTATE WILL INCLUDE BUT NOT NECESSARILY BE LIMITED TO RECREATIONAL OR EDUCATIONAL USES.

4. THERE SHALL BE NO INSTALLATION, CONSTRUCTION, OR USE OF ANY BUILDINGS, WELLS, PIPES, ROADS, DITCHES, OR ANY OTHER STRUCTURES AT THE SEYMOUR SITE EXCEPT AS APPROVED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ("U.S. EPA") AS CONSISTENT WITH THE CONSENT DECREE AND THE REMEDIAL ACTION PLAN, WHICH IS EXHIBIT 5 TO THE CONSENT DECREE.

DEED RESTRICTION THAT IMPOSES THE FOLLOWING CONDITIONS:

1. THERE SHALL BE NO USE OF THE REAL ESTATE IN ANY MANNER THAT COULD CAUSE EXPOSURE OF HUMANS OR ANIMALS TO CONTAMINATED GROUNDWATER IN CONCENTRATIONS THAT PRESENT OR MAY PRESENT A THREAT TO HEALTH (i.e., CONCENTRATIONS ABOVE THE CLEANUP STANDARDS SET FORTH IN PARAGRAPH 17 OF THE CONSENT DECREE).

2. THERE SHALL BE NO USE OF THE REAL ESTATE THAT WILL INTERFERE WITH THE REMEDIAL ACTION FOR THE SEYMOUR SITE AS DESCRIBED IN THE CONSENT DECREE AND THE REMEDIAL ACTION PLAN, WHICH IS ATTACHED TO THE CONSENT DECREE AS EXHIBIT 5.

3. THERE SHALL BE NO RESIDENTIAL OR COMMERCIAL USE OF THE REAL ESTATE THAT WOULD ALLOW CONTINUED PRESENCE OF HUMANS, INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION, INSTALLATION, OR USE OF BUILDINGS FOR RESIDENTIAL OR COMMERCIAL USE OF THIS REAL ESTATE THAT WOULD ALLOW SUCH CONTINUED PRESENCE. PROHIBITED USES OF THIS REAL ESTATE SHALL NOT INCLUDE AGRICULTURAL CROP GROWING AND LAND APPLICATION OF SLUDGES FROM THE CITY OF SEYMOUR, INDIANA PUBLICLY OWNED TREATMENT WORKS.

SEYMOUR ACCESS ROAD

SURFACE WATER

INTERMITTENT SURFACE WATER

RAILROAD TRACKS

307C EXISTING SHALLOW AQUIFER MONITORING WELL

EW-6 INACTIVE SHALLOW AQUIFER EXTRACTION WELL

A SHALLOW AQUIFER PIEZOMETER (SHOWN FOR REFERENCE ONLY)

0 800' 1600'

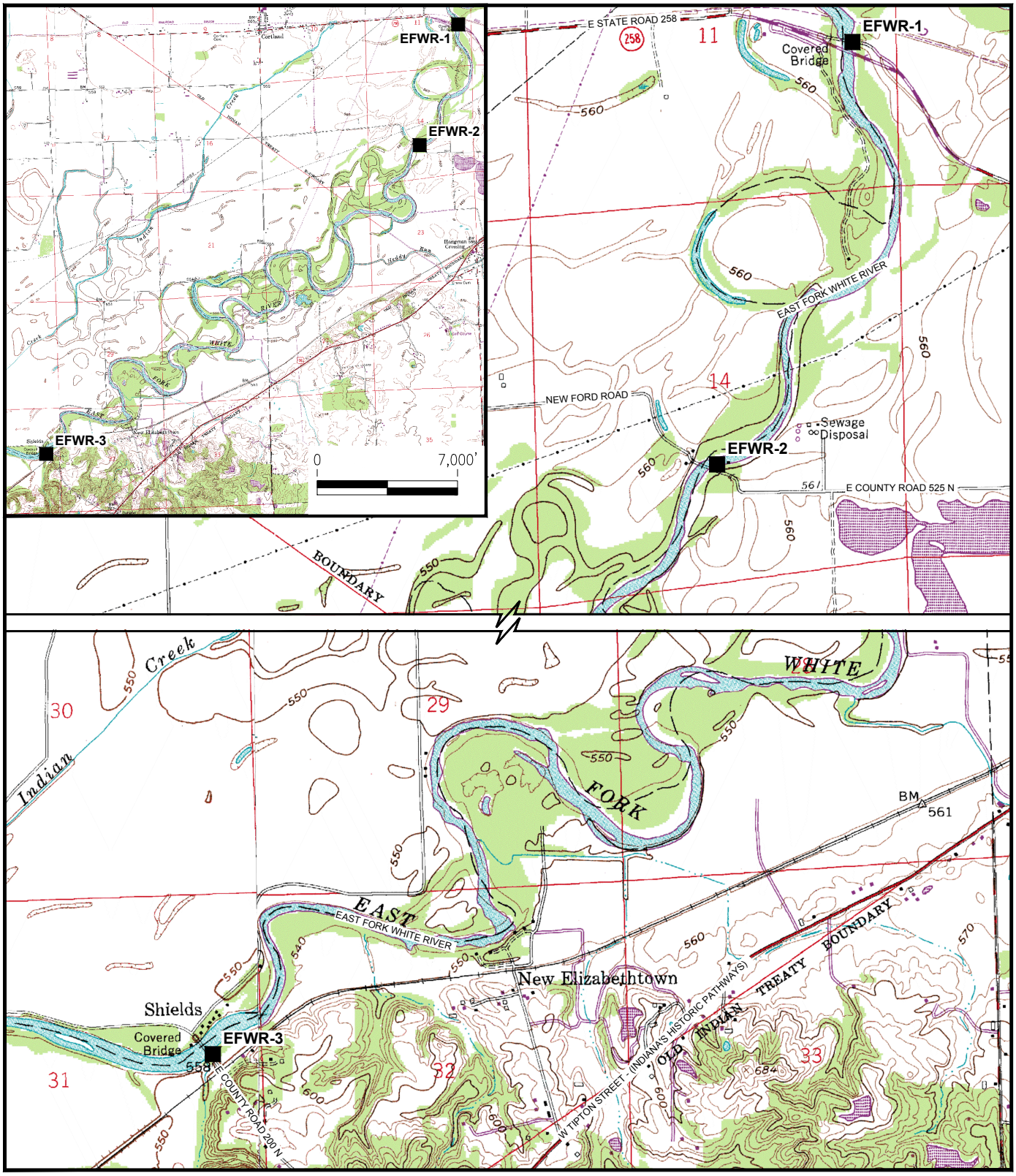
SCALE IN FEET

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

MAP DEPICTING AREAS WHERE DEED RESTRICTIONS HAVE BEEN IMPLEMENTED

ARCADIS Design & Consultancy for natural and built assets

FIGURE
15



SOURCE: USGS 7.5 MINUTE SEYMOUR QUADRANGLE, AND BROWNSTOWN QUADRANGLE
INDIANA-JACKSON CO. SEYMOUR, INDIANA, 1958 (PHOTOREVISED 1988, MINOR REVISION 1994)

EFWR-3 ■ SURFACE WATER SAMPLING LOCATION

0 2000' 4000'

GRAPHIC SCALE

AREA LOCATION

INDIANA

GROUNDWATER TREATMENT SYSTEM
SEYMOUR SITE, SEYMOUR, INDIANA

SURFACE WATER SAMPLING LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 16

CITY:MELVILLE/SYR DIV/GROUP:ENV DB:A.SANCHEZ LD: PIC:(Opt) PM:(Req'd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
\\ar.adi.-u.□om\o.□\data\S.ra.u.e-NY\ENVCAD\SYRACUSE\ACTNY000713\21\5500\10\713N01.dwg LAYOUT: 16 SAVED: 2/17/2016 10:09 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/12/2016 1:21 PM BY: IAMICELI, KIMBERLY

XREFS: IMAGES: PROJECTNAME: ----
XrNAD83 Brown□town.ti□
Se□mour.ti□

Appendix A

POTW Discharge Authorization Reports

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

August 25, 2023

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of July, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	August 2022	September 2022	October 2022	November 2022	December 2022	Janusry 2023
	Ph	pH	pH	pH	pH	pH
1	7.6	7.6	7.8	7.8	7.8	8.O
2	7.5	7.6	7.9		7.8	7.9
3	7.6	7.6	7.8		7.7	7.4
4	7.5	7.8	7.8		7.8	7.5
5	7.4	7.6	7.9	7.7	7.7	7.5
6	7.6	7.6	8.O	7.8	7.7	7.5
7	7.7	7.6	7.8	7.7	7.7	7.5
8	7.3	7.6	7.9	7.7	7.7	7.6
9	7.4	7.7	7.9	7.7	7.7	7.5
10	7.5	7.6	7.9	7.7	7.7	7.5
11	7.6	7.6	7.8	7.7	7.7	7.6
12	7.5	7.6	7.8	7.8	7.7	7.5
13	7.6	7.7	7.8	7.9	7.7	7.5
14	7.6	7.6	7.7	7.8	7.6	7.5
15	7.5	7.7	7.9	7.8	7.6	7.5
16	7.5	7.7	7.9	7.8	7.6	7.5
17	7.6	7.7	7.9	7.8	7.4	7.4
18	7.6	7.7	7.9	7.8	7.5	7.5
19	7.6	7.8	7.8	7.8	7.5	7.4
20	7.8	7.4	7.8		7.6	7.5
21	7.6	7.6	7.9	7.8	7.7	7.5
22	7.6	7.6	7.9	7.6	7.4	7.6
23	7.6	7.8	7.8	7.7	7.5	7.5
24	7.6	7.8	7.9	7.7	7.6	7.5
25	7.6	7.8	7.7	7.7	7.6	7.5
26	7.5	7.8	7.9	7.7	7.5	7.5
27	7.6	7.8	7.9	7.7	7.5	7.5
28	7.8	7.9	7.9	7.7	7.5	7.5
29	7.5	7.9	7.9	7.7	7.4	7.5
30	7.5	7.9	7.9	7.8	7.4	7.5
31	7.6		7.7		7.4	7.5

Attachment 2: Daily pH Values

February 2023	March 2023	April 2023	May 2023	June 2023	July 2023
pH	pH	pH	pH	pH	pH
7.3	7.4	7.7	7.6	7.4	7.2
7.4	7.6	7.8	7.8	7.2	6.9
7.4	7.6	7.8	7.5	7.2	7.1
7.5	7.6	7.6	7.6	7.4	7.1
7.4	7.6	7.5	7.7	6.7	6.7
7.5	7.1	7.6	7.6	7.2	6.9
7.4	7.6	7.6	7.6	7.3	7.2
7.4	7.7	7.7	7.4	6.8	7.O
7.3	7.6	7.7	7.4	7.8	7.O
7.4	7.7	7.7	7.4	7.3	6.3
7.5	7.7	7.5	7.4	7.3	6.8
7.5	7.8	7.6	7.1	7.4	7.O
7.5	7.8	7.7	7.4	7	6.3
7.4	7.9	7.6	7.5	7.3	6.7
7.3	7.9	7.5	7.5	7.3	6.9
7.4	7.8	7.5	7.4	7.3	7.2
7.5	7.8	7.7	7.4	7.4	6.3
7.6	7.9	7.7	7.5	7.2	7.1
7.5	7.9	7.7	7.4	7.2	7.2
7.5	7.9	7.5	7.5	6.8	6.6
7.4	7.9	7.7	7.5	6.8	6.3
7.4	7.6	7.8	7.5	7.1	7.1
7.3	7.7	7.9	7.5	7.2	7.1
7.6	7.8	7.8	7	7.2	6.9
7.6	7.8	7.8	7.3	7	7.O
7.6	7.9	7.8	7.4	7.1	6.4
7.5	7.8	7.5	7.5	7.1	6.7
7.5	7.9	7.8	7.5	6.3	6.2
	7.9	7.8	7.4	7.1	6.8
	7.8		7.3	7.1	6.8
	7.8		7.3		6.6

	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023
Date						
1	73,243	79,194	37,526	14,968	19,748	32,083
2	77,954	74,978	43,508		19,828	32,083
3	78,135	80,665	39,188		19,636	31,646
4	77,093	80,094	41,654	30,053	19,596	32,516
5	81,401	78,859	41,648	36,973	19,621	33,208
6	78,151	77,126	38,306	37,411	20,613	32,647
7	84,175	79,559	42,871	33,703	21,220	32,646
8	48,202	81,705	37,920	33,721	20,613	35,057
9	19,495	81,194	41,983	39,767	20,238	32,955
10	25,760	76,296	39,898	34,612	20,238	33,870
11	61,569	74,099	37,912	33,801	19,589	31,930
12	69,972	71,836	43,320	34,664	11,338	33,104
13	68,403	72,579	36,022	38,582	7,322	32,481
14	66,085	61,296	39,360	34,518	12,389	33,835
15	68,332	69,224	39,930	33,834	8,248	33,885
16	67,655	66,659	36,133	36,181	12,776	34,833
17	67,674	67,048	38,669	38,664	13,019	33,816
18	70,713	70,192	38,141	31,834	13,009	33,429
19	75,566	72,427	35,871	31,833	13,345	36,968
20	83,533	68,737	41,726		17,998	36,662
21	80,737	67,753	37,856	34,474	20,862	36,462
22	80,070	66,973	37,950	34,991	28,886	38,490
23	82,666	66,407	39,622	36,753	26,702	36,652
24	82,686	71,999	34,990	38,130	30,171	37,470
25	83,506	67,468	41,351	36,945	2,218	37,945
26	81,948	65,795	35,130	34,838	0	37,092
27	73,120	66,645	39,519	35,634	84,249	36,387
28	75,504	64,826	35,873	37,782	31,160	37,667
29	77,867	45,571	36,713	22,390	32,901	38,474
30	83,476	43,698	38,390	19,778	32,083	36,650
31	78,199		37,159		32,083	37,111
Total	2,222,890	2,110,902	1,206,139	906,834	651,699	1,080,054

Attachment 1: Effluent Discharge Volumes (gal)

February 2023	March 2023	April 2023	May 2023	June 2023	July 2023
36,851	34,991	34,460	35,892	37,156	34,803
37,092	34,625	34,441	35,953	37,362	39,719
36,628	34,939	34,529	36,113	36,781	34,897
37,208	34,800	34,590	36,280	34,981	33,839
38,156	38,551	36,403	36,058	35,900	40,424
37,385	39,060	36,000	36,057	38,826	32,987
36,950	37,697	36,000	35,633	36,461	35,277
36,839	37,038	36,070	36,016	34,028	39,054
36,729	35,641	36,355	36,135	34,487	38,759
35,442	33,846	36,358	35,887	35,939	35,299
36,490	30,759	35,808	35,192	26,910	39,786
37,734	35,500	35,260	35,719	6,454	37,488
35,848	32,890	34,252	36,966	26,905	35,320
37,442	32,551	34,326	38,754	38,618	37,836
37,390	33,638	34,325	35,104	35,294	39,483
37,421	34,804	35,312	34,660	32,697	35,120
37,588	32,510	12,519	34,613	32,770	38,664
35,178	32,010	8,080	36,453	35,644	39,018
35,396	35,182	31,920	35,617	36,243	31,661
36,915	33,062	36,690	37,719	33,521	35,443
36,520	34,052	36,392	30,930	34,957	39,383
37,632	34,829	33,825	34,757	36,036	37,786
37,124	35,585	30,042	34,736	36,858	37,025
33,780	36,243	37,041	36,980	33,731	41,043
34,397	31,766	36,413	38,838	38,795	35,582
36,494	34,795	36,409	35,382	36,449	38,616
33,142	36,516	36,325	34,623	34,710	39,332
35,777	35,979	36,205	34,838	36,123	36,716
	35,696	36,127	40,671	38,267	36,715
	34,376	35,892	35,276	34,956	39,329
	35,438		34,741		35,135
1,021,548	1,079,369	1,008,369	1,112,593	1,027,859	1,151,539

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

September 21, 2023

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of August, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	September 2022	October 2022	November 2022	December 2022	Janusry 2023	February 2023
	pH	pH	pH	pH	pH	pH
1	7.6	7.8	7.8	7.8	8.O	7.3
2	7.6	7.9		7.8	7.9	7.4
3	7.6	7.8		7.7	7.4	7.4
4	7.8	7.8		7.8	7.5	7.5
5	7.6	7.9	7.7	7.7	7.5	7.4
6	7.6	8.O	7.8	7.7	7.5	7.5
7	7.6	7.8	7.7	7.7	7.5	7.4
8	7.6	7.9	7.7	7.7	7.6	7.4
9	7.7	7.9	7.7	7.7	7.5	7.3
10	7.6	7.9	7.7	7.7	7.5	7.4
11	7.6	7.8	7.7	7.7	7.6	7.5
12	7.6	7.8	7.8	7.7	7.5	7.5
13	7.7	7.8	7.9	7.7	7.5	7.5
14	7.6	7.7	7.8	7.6	7.5	7.4
15	7.7	7.9	7.8	7.6	7.5	7.3
16	7.7	7.9	7.8	7.6	7.5	7.4
17	7.7	7.9	7.8	7.4	7.4	7.5
18	7.7	7.9	7.8	7.5	7.5	7.6
19	7.8	7.8	7.8	7.5	7.4	7.5
20	7.4	7.8		7.6	7.5	7.5
21	7.6	7.9	7.8	7.7	7.5	7.4
22	7.6	7.9	7.6	7.4	7.6	7.4
23	7.8	7.8	7.7	7.5	7.5	7.3
24	7.8	7.9	7.7	7.6	7.5	7.6
25	7.8	7.7	7.7	7.6	7.5	7.6
26	7.8	7.9	7.7	7.5	7.5	7.6
27	7.8	7.9	7.7	7.5	7.5	7.5
28	7.9	7.9	7.7	7.5	7.5	7.5
29	7.9	7.9	7.7	7.4	7.5	
30	7.9	7.9	7.8	7.4	7.5	
31		7.7		7.4	7.5	

Attachment 2: Daily pH Values

March 2023	April 2023	May 2023	June 2023	July 2023	August 2023
pH	pH	pH	pH	pH	pH
7.4	7.7	7.6	7.4	7.2	6.8
7.6	7.8	7.8	7.2	6.9	7.0
7.6	7.8	7.5	7.2	7.1	6.6
7.6	7.6	7.6	7.4	7.1	6.8
7.6	7.5	7.7	6.7	6.7	6.7
7.1	7.6	7.6	7.2	6.9	6.8
7.6	7.6	7.6	7.3	7.2	6.8
7.7	7.7	7.4	6.8	7.0	6.9
7.6	7.7	7.4	7.8	7.0	6.6
7.7	7.7	7.4	7.3	6.3	6.8
7.7	7.5	7.4	7.3	6.8	7.0
7.8	7.6	7.1	7.4	7.0	
7.8	7.7	7.4	7	6.3	6.8
7.9	7.6	7.5	7.3	6.7	6.5
7.9	7.5	7.5	7.3	6.9	6.9
7.8	7.5	7.4	7.3	7.2	6.7
7.8	7.7	7.4	7.4	6.3	7.0
7.9	7.7	7.5	7.2	7.1	7.1
7.9	7.7	7.4	7.2	7.2	7.2
7.9	7.5	7.5	6.8	6.6	6.8
7.9	7.7	7.5	6.8	6.3	6.8
7.6	7.8	7.5	7.1	7.1	6.4
7.7	7.9	7.5	7.2	7.1	6.7
7.8	7.8	7	7.2	6.9	5.7
7.8	7.8	7.3	7	7.0	6.4
7.9	7.8	7.4	7.1	6.4	6.5
7.8	7.5	7.5	7.1	6.7	6.8
7.9	7.8	7.5	6.3	6.2	6.4
7.9	7.8	7.4	7.1	6.8	6.8
7.8		7.3	7.1	6.8	6.8
7.8		7.3		6.6	6.8

Date	September 2022	October 2022	November 2022	December 2022	January 2023	February 2023
1	79,194	37,526	14,968	19,748	32,083	36,851
2	74,978	43,508		19,828	32,083	37,092
3	80,665	39,188		19,636	31,646	36,628
4	80,094	41,654	30,053	19,596	32,516	37,208
5	78,859	41,648	36,973	19,621	33,208	38,156
6	77,126	38,306	37,411	20,613	32,647	37,385
7	79,559	42,871	33,703	21,220	32,646	36,950
8	81,705	37,920	33,721	20,613	35,057	36,839
9	81,194	41,983	39,767	20,238	32,955	36,729
10	76,296	39,898	34,612	20,238	33,870	35,442
11	74,099	37,912	33,801	19,589	31,930	36,490
12	71,836	43,320	34,664	11,338	33,104	37,734
13	72,579	36,022	38,582	7,322	32,481	35,848
14	61,296	39,360	34,518	12,389	33,835	37,442
15	69,224	39,930	33,834	8,248	33,885	37,390
16	66,659	36,133	36,181	12,776	34,833	37,421
17	67,048	38,669	38,664	13,019	33,816	37,588
18	70,192	38,141	31,834	13,009	33,429	35,178
19	72,427	35,871	31,833	13,345	36,968	35,396
20	68,737	41,726		17,998	36,662	36,915
21	67,753	37,856	34,474	20,862	36,462	36,520
22	66,973	37,950	34,991	28,886	38,490	37,632
23	66,407	39,622	36,753	26,702	36,652	37,124
24	71,999	34,990	38,130	30,171	37,470	33,780
25	67,468	41,351	36,945	2,218	37,945	34,397
26	65,795	35,130	34,838	0	37,092	36,494
27	66,645	39,519	35,634	84,249	36,387	33,142
28	64,826	35,873	37,782	31,160	37,667	35,777
29	45,571	36,713	22,390	32,901	38,474	
30	43,698	38,390	19,778	32,083	36,650	
31		37,159		32,083	37,111	
Totals	2,110,902	1,206,139	906,834	651,699	1,080,054	1,021,548

Attachment 1: Effluent Discharge Volumes (gal)

March 2023	April 2023	May 2023	June 2023	July 2023	August 2023
34,991	34,460	35,892	37,156	34,803	41,613
34,625	34,441	35,953	37,362	39,719	36,696
34,939	34,529	36,113	36,781	34,897	36,965
34,800	34,590	36,280	34,981	33,839	31,613
38,551	36,403	36,058	35,900	40,424	31,986
39,060	36,000	36,057	38,826	32,987	40,911
37,697	36,000	35,633	36,461	35,277	34,781
37,038	36,070	36,016	34,028	39,054	36,542
35,641	36,355	36,135	34,487	38,759	33,243
33,846	36,358	35,887	35,939	35,299	41,540
30,759	35,808	35,192	26,910	39,786	36,280
35,500	35,260	35,719	6,454	37,488	36,279
32,890	34,252	36,966	26,905	35,320	39,954
32,551	34,326	38,754	38,618	37,836	36,906
33,638	34,325	35,104	35,294	39,483	40,707
34,804	35,312	34,660	32,697	35,120	36,070
32,510	12,519	34,613	32,770	38,664	39,319
32,010	8,080	36,453	35,644	39,018	39,538
35,182	31,920	35,617	36,243	31,661	36,296
33,062	36,690	37,719	33,521	35,443	42,741
34,052	36,392	30,930	34,957	39,383	35,786
34,829	33,825	34,757	36,036	37,786	42,175
35,585	30,042	34,736	36,858	37,025	36,501
36,243	37,041	36,980	33,731	41,043	39,051
31,766	36,413	38,838	38,795	35,582	10,853
34,795	36,409	35,382	36,449	38,616	35,676
36,516	36,325	34,623	34,710	39,332	37,417
35,979	36,205	34,838	36,123	36,716	33,766
35,696	36,127	40,671	38,267	36,715	39,599
34,376	35,892	35,276	34,956	39,329	33,581
35,438		34,741		35,135	38,242
1,079,369	1,008,369	1,112,593	1,027,859	1,151,539	1,132,627

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

October 20, 2023

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of September, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	October 2022	November 2022	December 2022	Janusry 2023	February 2023	March 2023
	pH	pH	pH	pH	pH	pH
1	7.8	7.8	7.8	8.O	7.3	7.4
2	7.9		7.8	7.9	7.4	7.6
3	7.8		7.7	7.4	7.4	7.6
4	7.8		7.8	7.5	7.5	7.6
5	7.9	7.7	7.7	7.5	7.4	7.6
6	8.O	7.8	7.7	7.5	7.5	7.1
7	7.8	7.7	7.7	7.5	7.4	7.6
8	7.9	7.7	7.7	7.6	7.4	7.7
9	7.9	7.7	7.7	7.5	7.3	7.6
10	7.9	7.7	7.7	7.5	7.4	7.7
11	7.8	7.7	7.7	7.6	7.5	7.7
12	7.8	7.8	7.7	7.5	7.5	7.8
13	7.8	7.9	7.7	7.5	7.5	7.8
14	7.7	7.8	7.6	7.5	7.4	7.9
15	7.9	7.8	7.6	7.5	7.3	7.9
16	7.9	7.8	7.6	7.5	7.4	7.8
17	7.9	7.8	7.4	7.4	7.5	7.8
18	7.9	7.8	7.5	7.5	7.6	7.9
19	7.8	7.8	7.5	7.4	7.5	7.9
20	7.8		7.6	7.5	7.5	7.9
21	7.9	7.8	7.7	7.5	7.4	7.9
22	7.9	7.6	7.4	7.6	7.4	7.6
23	7.8	7.7	7.5	7.5	7.3	7.7
24	7.9	7.7	7.6	7.5	7.6	7.8
25	7.7	7.7	7.6	7.5	7.6	7.8
26	7.9	7.7	7.5	7.5	7.6	7.9
27	7.9	7.7	7.5	7.5	7.5	7.8
28	7.9	7.7	7.5	7.5	7.5	7.9
29	7.9	7.7	7.4	7.5		7.9
30	7.9	7.8	7.4	7.5		7.8
31	7.7		7.4	7.5		7.8

Attachment 2: Daily pH Values

April 2023	May 2023	June 2023	July 2023	August 2023	September 2023
pH	pH	pH	pH	pH	pH
7.7	7.6	7.4	7.2	6.8	7.O
7.8	7.8	7.2	6.9	7.O	6.9
7.8	7.5	7.2	7.1	6.6	6.7
7.6	7.6	7.4	7.1	6.8	6.9
7.5	7.7	6.7	6.7	6.7	6.5
7.6	7.6	7.2	6.9	6.8	6.5
7.6	7.6	7.3	7.2	6.8	5.4
7.7	7.4	6.8	7.O	6.9	6.9
7.7	7.4	7.8	7.O	6.6	6.9
7.7	7.4	7.3	6.3	6.8	6.8
7.5	7.4	7.3	6.8	7.O	6.8
7.6	7.1	7.4	7.O		6.6
7.7	7.4	7	6.3	6.8	6.8
7.6	7.5	7.3	6.7	6.5	6.8
7.5	7.5	7.3	6.9	6.9	6.8
7.5	7.4	7.3	7.2	6.7	6.8
7.7	7.4	7.4	6.3	7.O	6.8
7.7	7.5	7.2	7.1	7.1	6.8
7.7	7.4	7.2	7.2	7.2	6.9
7.5	7.5	6.8	6.6	6.8	6.6
7.7	7.5	6.8	6.3	6.8	6.3
7.8	7.5	7.1	7.1	6.4	6.7
7.9	7.5	7.2	7.1	6.7	6.8
7.8	7	7.2	6.9	5.7	6.8
7.8	7.3	7	7.O	6.4	6.7
7.8	7.4	7.1	6.4	6.5	6.3
7.5	7.5	7.1	6.7	6.8	6.4
7.8	7.5	6.3	6.2	6.4	6.2
7.8	7.4	7.1	6.8	6.8	6.9
	7.3	7.1	6.8	6.8	6.6
	7.3		6.6	6.8	

Date	October 2022	November 2022	December 2022	January 2023	February 2023	March 2023
1	37,526	14,968	19,748	32,083	36,851	34,991
2	43,508		19,828	32,083	37,092	34,625
3	39,188		19,636	31,646	36,628	34,939
4	41,654	30,053	19,596	32,516	37,208	34,800
5	41,648	36,973	19,621	33,208	38,156	38,551
6	38,306	37,411	20,613	32,647	37,385	39,060
7	42,871	33,703	21,220	32,646	36,950	37,697
8	37,920	33,721	20,613	35,057	36,839	37,038
9	41,983	39,767	20,238	32,955	36,729	35,641
10	39,898	34,612	20,238	33,870	35,442	33,846
11	37,912	33,801	19,589	31,930	36,490	30,759
12	43,320	34,664	11,338	33,104	37,734	35,500
13	36,022	38,582	7,322	32,481	35,848	32,890
14	39,360	34,518	12,389	33,835	37,442	32,551
15	39,930	33,834	8,248	33,885	37,390	33,638
16	36,133	36,181	12,776	34,833	37,421	34,804
17	38,669	38,664	13,019	33,816	37,588	32,510
18	38,141	31,834	13,009	33,429	35,178	32,010
19	35,871	31,833	13,345	36,968	35,396	35,182
20	41,726		17,998	36,662	36,915	33,062
21	37,856	34,474	20,862	36,462	36,520	34,052
22	37,950	34,991	28,886	38,490	37,632	34,829
23	39,622	36,753	26,702	36,652	37,124	35,585
24	34,990	38,130	30,171	37,470	33,780	36,243
25	41,351	36,945	2,218	37,945	34,397	31,766
26	35,130	34,838	0	37,092	36,494	34,795
27	39,519	35,634	84,249	36,387	33,142	36,516
28	35,873	37,782	31,160	37,667	35,777	35,979
29	36,713	22,390	32,901	38,474		35,696
30	38,390	19,778	32,083	36,650		34,376
31	37,159		32,083	37,111		35,438
Totals	1,206,139	906,834	651,699	1,080,054	1,021,548	1,079,369

Attachment 1: Effluent Discharge Volumes (gal)

April 2023	May 2023	June 2023	July 2023	August 2023	September 2023
34,460	35,892	37,156	34,803	41,613	36,887
34,441	35,953	37,362	39,719	36,696	26,791
34,529	36,113	36,781	34,897	36,965	29,263
34,590	36,280	34,981	33,839	31,613	30,517
36,403	36,058	35,900	40,424	31,986	36,370
36,000	36,057	38,826	32,987	40,911	15,496
36,000	35,633	36,461	35,277	34,781	33,531
36,070	36,016	34,028	39,054	36,542	35,593
36,355	36,135	34,487	38,759	33,243	35,545
36,358	35,887	35,939	35,299	41,540	38,012
35,808	35,192	26,910	39,786	36,280	39,362
35,260	35,719	6,454	37,488	36,279	38,647
34,252	36,966	26,905	35,320	39,954	34,143
34,326	38,754	38,618	37,836	36,906	36,800
34,325	35,104	35,294	39,483	40,707	38,092
35,312	34,660	32,697	35,120	36,070	39,103
12,519	34,613	32,770	38,664	39,319	36,252
8,080	36,453	35,644	39,018	39,538	34,933
31,920	35,617	36,243	31,661	36,296	39,348
36,690	37,719	33,521	35,443	42,741	38,901
36,392	30,930	34,957	39,383	35,786	35,721
33,825	34,757	36,036	37,786	42,175	35,057
30,042	34,736	36,858	37,025	36,501	38,660
37,041	36,980	33,731	41,043	39,051	38,075
36,413	38,838	38,795	35,582	10,853	21
36,409	35,382	36,449	38,616	35,676	-0-
36,325	34,623	34,710	39,332	37,417	30,764
36,205	34,838	36,123	36,716	33,766	34,052
36,127	40,671	38,267	36,715	39,599	26,811
35,892	35,276	34,956	39,329	33,581	31,715
	34,741		35,135	38,242	
1,008,369	1,112,593	1,027,859	1,151,539	1,132,627	964,462

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

November 17, 2023

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of October, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	November 2022	December 2022	Janusry 2023	February 2023	March 2023	April 2023
	pH	pH	pH	pH	pH	pH
1	7.8	7.8	8.O	7.3	7.4	7.7
2		7.8	7.9	7.4	7.6	7.8
3		7.7	7.4	7.4	7.6	7.8
4		7.8	7.5	7.5	7.6	7.6
5	7.7	7.7	7.5	7.4	7.6	7.5
6	7.8	7.7	7.5	7.5	7.1	7.6
7	7.7	7.7	7.5	7.4	7.6	7.6
8	7.7	7.7	7.6	7.4	7.7	7.7
9	7.7	7.7	7.5	7.3	7.6	7.7
10	7.7	7.7	7.5	7.4	7.7	7.7
11	7.7	7.7	7.6	7.5	7.7	7.5
12	7.8	7.7	7.5	7.5	7.8	7.6
13	7.9	7.7	7.5	7.5	7.8	7.7
14	7.8	7.6	7.5	7.4	7.9	7.6
15	7.8	7.6	7.5	7.3	7.9	7.5
16	7.8	7.6	7.5	7.4	7.8	7.5
17	7.8	7.4	7.4	7.5	7.8	7.7
18	7.8	7.5	7.5	7.6	7.9	7.7
19	7.8	7.5	7.4	7.5	7.9	7.7
20		7.6	7.5	7.5	7.9	7.5
21	7.8	7.7	7.5	7.4	7.9	7.7
22	7.6	7.4	7.6	7.4	7.6	7.8
23	7.7	7.5	7.5	7.3	7.7	7.9
24	7.7	7.6	7.5	7.6	7.8	7.8
25	7.7	7.6	7.5	7.6	7.8	7.8
26	7.7	7.5	7.5	7.6	7.9	7.8
27	7.7	7.5	7.5	7.5	7.8	7.5
28	7.7	7.5	7.5	7.5	7.9	7.8
29	7.7	7.4	7.5		7.9	7.8
30	7.8	7.4	7.5		7.8	
31		7.4	7.5		7.8	

Attachment 2: Daily pH Values

May 2023	June 2023	July 2023	August 2023	September 2023	October 2023
pH	pH	pH	pH	pH	pH
7.6	7.4	7.2	6.8	7.0	6.6
7.8	7.2	6.9	7.0	6.9	6.5
7.5	7.2	7.1	6.6	6.7	6.7
7.6	7.4	7.1	6.8	6.9	6.2
7.7	6.7	6.7	6.7	6.5	6.4
7.6	7.2	6.9	6.8	6.5	6.3
7.6	7.3	7.2	6.8	5.4	7
7.4	6.8	7.0	6.9	6.9	7.2
7.4	7.8	7.0	6.6	6.9	6.9
7.4	7.3	6.3	6.8	6.8	7.3
7.4	7.3	6.8	7.0	6.8	7.1
7.1	7.4	7.0		6.6	6.5
7.4	7	6.3	6.8	6.8	6.8
7.5	7.3	6.7	6.5	6.8	6.9
7.5	7.3	6.9	6.9	6.8	6.8
7.4	7.3	7.2	6.7	6.8	7.2
7.4	7.4	6.3	7.0	6.8	6.8
7.5	7.2	7.1	7.1	6.8	7.3
7.4	7.2	7.2	7.2	6.9	6.8
7.5	6.8	6.6	6.8	6.6	6.9
7.5	6.8	6.3	6.8	6.3	7.3
7.5	7.1	7.1	6.4	6.7	7.2
7.5	7.2	7.1	6.7	6.8	7.4
7	7.2	6.9	5.7	6.8	7.2
7.3	7	7.0	6.4	6.7	7.0
7.4	7.1	6.4	6.5	6.3	7.0
7.5	7.1	6.7	6.8	6.4	6.9
7.5	6.3	6.2	6.4	6.2	7.0
7.4	7.1	6.8	6.8	6.9	7.2
7.3	7.1	6.8	6.8	6.6	7.3
7.3		6.6	6.8		7.5

Date	November 2022	December 2022	January 2023	February 2023	March 2023	April 2023
1	14,968	19,748	32,083	36,851	34,991	34,460
2		19,828	32,083	37,092	34,625	34,441
3		19,636	31,646	36,628	34,939	34,529
4	30,053	19,596	32,516	37,208	34,800	34,590
5	36,973	19,621	33,208	38,156	38,551	36,403
6	37,411	20,613	32,647	37,385	39,060	36,000
7	33,703	21,220	32,646	36,950	37,697	36,000
8	33,721	20,613	35,057	36,839	37,038	36,070
9	39,767	20,238	32,955	36,729	35,641	36,355
10	34,612	20,238	33,870	35,442	33,846	36,358
11	33,801	19,589	31,930	36,490	30,759	35,808
12	34,664	11,338	33,104	37,734	35,500	35,260
13	38,582	7,322	32,481	35,848	32,890	34,252
14	34,518	12,389	33,835	37,442	32,551	34,326
15	33,834	8,248	33,885	37,390	33,638	34,325
16	36,181	12,776	34,833	37,421	34,804	35,312
17	38,664	13,019	33,816	37,588	32,510	12,519
18	31,834	13,009	33,429	35,178	32,010	8,080
19	31,833	13,345	36,968	35,396	35,182	31,920
20		17,998	36,662	36,915	33,062	36,690
21	34,474	20,862	36,462	36,520	34,052	36,392
22	34,991	28,886	38,490	37,632	34,829	33,825
23	36,753	26,702	36,652	37,124	35,585	30,042
24	38,130	30,171	37,470	33,780	36,243	37,041
25	36,945	2,218	37,945	34,397	31,766	36,413
26	34,838	0	37,092	36,494	34,795	36,409
27	35,634	84,249	36,387	33,142	36,516	36,325
28	37,782	31,160	37,667	35,777	35,979	36,205
29	22,390	32,901	38,474		35,696	36,127
30	19,778	32,083	36,650		34,376	35,892
31		32,083	37,111		35,438	
Total:	906,834	651,699	1,080,054	1,021,548	1,079,369	1,008,369

Attachment 1: Effluent Discharge Volumes (gal)

May 2023	June 2023	July 2023	August 2023	September 2023	October 2023
35,892	37,156	34,803	41,613	36,887	31,627
35,953	37,362	39,719	36,696	26,791	24,854
36,113	36,781	34,897	36,965	29,263	24,193
36,280	34,981	33,839	31,613	30,517	30,167
36,058	35,900	40,424	31,986	36,370	24,616
36,057	38,826	32,987	40,911	15,496	30,281
35,633	36,461	35,277	34,781	33,531	26,844
36,016	34,028	39,054	36,542	35,593	27,418
36,135	34,487	38,759	33,243	35,545	29,544
35,887	35,939	35,299	41,540	38,012	24,794
35,192	26,910	39,786	36,280	39,362	30,294
35,719	6,454	37,488	36,279	38,647	24,512
36,966	26,905	35,320	39,954	34,143	38,605
38,754	38,618	37,836	36,906	36,800	24,117
35,104	35,294	39,483	40,707	38,092	30,071
34,660	32,697	35,120	36,070	39,103	23,945
34,613	32,770	38,664	39,319	36,252	29,206
36,453	35,644	39,018	39,538	34,933	24,648
35,617	36,243	31,661	36,296	39,348	30,074
37,719	33,521	35,443	42,741	38,901	64,322
30,930	34,957	39,383	35,786	35,721	69,069
34,757	36,036	37,786	42,175	35,057	68,510
34,736	36,858	37,025	36,501	38,660	72,894
36,980	33,731	41,043	39,051	38,075	68,220
38,838	38,795	35,582	10,853	21	69,912
35,382	36,449	38,616	35,676	-0-	70,740
34,623	34,710	39,332	37,417	30,764	67,788
34,838	36,123	36,716	33,766	34,052	72,267
40,671	38,267	36,715	39,599	26,811	71,252
35,276	34,956	39,329	33,581	31,715	68,276
34,741		35,135	38,242		68,388
1,112,593	1,027,859	1,151,539	1,132,627	964,462	1,361,448

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

December 21, 2023

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of November, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	December 2022	Janusry 2023	February 2023	March 2023	April 2023	May 2023
	pH	pH	pH	pH	pH	pH
1	7.8	8.O	7.3	7.4	7.7	7.6
2	7.8	7.9	7.4	7.6	7.8	7.8
3	7.7	7.4	7.4	7.6	7.8	7.5
4	7.8	7.5	7.5	7.6	7.6	7.6
5	7.7	7.5	7.4	7.6	7.5	7.7
6	7.7	7.5	7.5	7.1	7.6	7.6
7	7.7	7.5	7.4	7.6	7.6	7.6
8	7.7	7.6	7.4	7.7	7.7	7.4
9	7.7	7.5	7.3	7.6	7.7	7.4
10	7.7	7.5	7.4	7.7	7.7	7.4
11	7.7	7.6	7.5	7.7	7.5	7.4
12	7.7	7.5	7.5	7.8	7.6	7.1
13	7.7	7.5	7.5	7.8	7.7	7.4
14	7.6	7.5	7.4	7.9	7.6	7.5
15	7.6	7.5	7.3	7.9	7.5	7.5
16	7.6	7.5	7.4	7.8	7.5	7.4
17	7.4	7.4	7.5	7.8	7.7	7.4
18	7.5	7.5	7.6	7.9	7.7	7.5
19	7.5	7.4	7.5	7.9	7.7	7.4
20	7.6	7.5	7.5	7.9	7.5	7.5
21	7.7	7.5	7.4	7.9	7.7	7.5
22	7.4	7.6	7.4	7.6	7.8	7.5
23	7.5	7.5	7.3	7.7	7.9	7.5
24	7.6	7.5	7.6	7.8	7.8	7
25	7.6	7.5	7.6	7.8	7.8	7.3
26	7.5	7.5	7.6	7.9	7.8	7.4
27	7.5	7.5	7.5	7.8	7.5	7.5
28	7.5	7.5	7.5	7.9	7.8	7.5
29	7.4	7.5		7.9	7.8	7.4
30	7.4	7.5		7.8		7.3
31	7.4	7.5		7.8		7.3

Attachment 2: Daily pH Values

June 2023	July 2023	August 2023	September 2023	October 2023	November 2023
pH	pH	pH	pH	pH	pH
7.4	7.2	6.8	7.0	6.6	7.6
7.2	6.9	7.0	6.9	6.5	
7.2	7.1	6.6	6.7	6.7	
7.4	7.1	6.8	6.9	6.2	
6.7	6.7	6.7	6.5	6.4	
7.2	6.9	6.8	6.5	6.3	7.3
7.3	7.2	6.8	5.4	7	7.0
6.8	7.0	6.9	6.9	7.2	6.0
7.8	7.0	6.6	6.9	6.9	6.9
7.3	6.3	6.8	6.8	7.3	7.1
7.3	6.8	7.0	6.8	7.1	7.4
7.4	7.0		6.6	6.5	7.3
7	6.3	6.8	6.8	6.8	7.3
7.3	6.7	6.5	6.8	6.9	7.1
7.3	6.9	6.9	6.8	6.8	7.3
7.3	7.2	6.7	6.8	7.2	7.1
7.4	6.3	7.0	6.8	6.8	7.1
7.2	7.1	7.1	6.8	7.3	7.4
7.2	7.2	7.2	6.9	6.8	7.3
6.8	6.6	6.8	6.6	6.9	7.3
6.8	6.3	6.8	6.3	7.3	7.2
7.1	7.1	6.4	6.7	7.2	7.3
7.2	7.1	6.7	6.8	7.4	7.3
7.2	6.9	5.7	6.8	7.2	7.5
7	7.0	6.4	6.7	7.0	7.5
7.1	6.4	6.5	6.3	7.0	7.5
7.1	6.7	6.8	6.4	6.9	7.5
6.3	6.2	6.4	6.2	7.0	7.6
7.1	6.8	6.8	6.9	7.2	7.6
7.1	6.8	6.8	6.6	7.3	7.4
	6.6	6.8		7.5	

c	December 2022	January 2023	February 2023	March 2023	April 2023	May 2023
Date						
1	19,748	32,083	36,851	34,991	34,460	35,892
2	19,828	32,083	37,092	34,625	34,441	35,953
3	19,636	31,646	36,628	34,939	34,529	36,113
4	19,596	32,516	37,208	34,800	34,590	36,280
5	19,621	33,208	38,156	38,551	36,403	36,058
6	20,613	32,647	37,385	39,060	36,000	36,057
7	21,220	32,646	36,950	37,697	36,000	35,633
8	20,613	35,057	36,839	37,038	36,070	36,016
9	20,238	32,955	36,729	35,641	36,355	36,135
10	20,238	33,870	35,442	33,846	36,358	35,887
11	19,589	31,930	36,490	30,759	35,808	35,192
12	11,338	33,104	37,734	35,500	35,260	35,719
13	7,322	32,481	35,848	32,890	34,252	36,966
14	12,389	33,835	37,442	32,551	34,326	38,754
15	8,248	33,885	37,390	33,638	34,325	35,104
16	12,776	34,833	37,421	34,804	35,312	34,660
17	13,019	33,816	37,588	32,510	12,519	34,613
18	13,009	33,429	35,178	32,010	8,080	36,453
19	13,345	36,968	35,396	35,182	31,920	35,617
20	17,998	36,662	36,915	33,062	36,690	37,719
21	20,862	36,462	36,520	34,052	36,392	30,930
22	28,886	38,490	37,632	34,829	33,825	34,757
23	26,702	36,652	37,124	35,585	30,042	34,736
24	30,171	37,470	33,780	36,243	37,041	36,980
25	2,218	37,945	34,397	31,766	36,413	38,838
26	0	37,092	36,494	34,795	36,409	35,382
27	84,249	36,387	33,142	36,516	36,325	34,623
28	31,160	37,667	35,777	35,979	36,205	34,838
29	32,901	38,474		35,696	36,127	40,671
30	32,083	36,650		34,376	35,892	35,276
31	32,083	37,111		35,438		34,741
Total:	651,699	1,080,054	1,021,548	1,079,369	1,008,369	1,112,593

Attachment 1: Effluent Discharge Volumes (gal)

June 2023	July 2023	August 2023	September 2023	October 2023	November 2023
37,156	34,803	41,613	36,887	31,627	69,490
37,362	39,719	36,696	26,791	24,854	69,490
36,781	34,897	36,965	29,263	24,193	69,490
34,981	33,839	31,613	30,517	30,167	69,490
35,900	40,424	31,986	36,370	24,616	69,490
38,826	32,987	40,911	15,496	30,281	69,491
36,461	35,277	34,781	33,531	26,844	50,380
34,028	39,054	36,542	35,593	27,418	53,860
34,487	38,759	33,243	35,545	29,544	53,154
35,939	35,299	41,540	38,012	24,794	50,416
26,910	39,786	36,280	39,362	30,294	53,546
6,454	37,488	36,279	38,647	24,512	50,648
26,905	35,320	39,954	34,143	38,605	52,708
38,618	37,836	36,906	36,800	24,117	49,198
35,294	39,483	40,707	38,092	30,071	53,500
32,697	35,120	36,070	39,103	23,945	50,816
32,770	38,664	39,319	36,252	29,206	52,475
35,644	39,018	39,538	34,933	24,648	51,906
36,243	31,661	36,296	39,348	30,074	52,131
33,521	35,443	42,741	38,901	64,322	54,949
34,957	39,383	35,786	35,721	69,069	54,892
36,036	37,786	42,175	35,057	68,510	50,730
36,858	37,025	36,501	38,660	72,894	52,169
33,731	41,043	39,051	38,075	68,220	54,939
38,795	35,582	10,853	21	69,912	55,102
36,449	38,616	35,676	-0-	70,740	56,253
34,710	39,332	37,417	30,764	67,788	54,795
36,123	36,716	33,766	34,052	72,267	54,723
38,267	36,715	39,599	26,811	71,252	55,669
34,956	39,329	33,581	31,715	68,276	55,932
	35,135	38,242		68,388	
1,027,859	1,151,539	1,132,627	964,462	1,361,448	1,691,832

Seymour Site Trust

Melvin Hunsucker, Operations Manager
1275 G. Avenue West
P O Box 287
Seymour, IN 47274

February 6, 2024

City of Seymour
Water Pollution Control Facility
5716 E. Co. Rd. 525 N
Seymour, IN 47274

Re: Monthly Discharge Report

To Whom It May concern:

Attached is the monthly effluent data for the month of December, 2023. The two attachments include the following information:

* Daily pH values.
* Daily and monthly discharge volumes.

If you have any questions or would like the report presented in a different format, please let me know.

Melvin Hunsucker

Melvin Hunsucker

Date	Janusry 2023	February 2023	March 2023	April 2023	May 2023	June 2023
	pH	pH	pH	pH	pH	pH
1	8.O	7.3	7.4	7.7	7.6	7.4
2	7.9	7.4	7.6	7.8	7.8	7.2
3	7.4	7.4	7.6	7.8	7.5	7.2
4	7.5	7.5	7.6	7.6	7.6	7.4
5	7.5	7.4	7.6	7.5	7.7	6.7
6	7.5	7.5	7.1	7.6	7.6	7.2
7	7.5	7.4	7.6	7.6	7.6	7.3
8	7.6	7.4	7.7	7.7	7.4	6.8
9	7.5	7.3	7.6	7.7	7.4	7.8
10	7.5	7.4	7.7	7.7	7.4	7.3
11	7.6	7.5	7.7	7.5	7.4	7.3
12	7.5	7.5	7.8	7.6	7.1	7.4
13	7.5	7.5	7.8	7.7	7.4	7
14	7.5	7.4	7.9	7.6	7.5	7.3
15	7.5	7.3	7.9	7.5	7.5	7.3
16	7.5	7.4	7.8	7.5	7.4	7.3
17	7.4	7.5	7.8	7.7	7.4	7.4
18	7.5	7.6	7.9	7.7	7.5	7.2
19	7.4	7.5	7.9	7.7	7.4	7.2
20	7.5	7.5	7.9	7.5	7.5	6.8
21	7.5	7.4	7.9	7.7	7.5	6.8
22	7.6	7.4	7.6	7.8	7.5	7.1
23	7.5	7.3	7.7	7.9	7.5	7.2
24	7.5	7.6	7.8	7.8	7	7.2
25	7.5	7.6	7.8	7.8	7.3	7
26	7.5	7.6	7.9	7.8	7.4	7.1
27	7.5	7.5	7.8	7.5	7.5	7.1
28	7.5	7.5	7.9	7.8	7.5	6.3
29	7.5		7.9	7.8	7.4	7.1
30	7.5		7.8		7.3	7.1
31	7.5		7.8		7.3	

Attachment 2: Daily pH Values

July 2023	August 2023	September 2023	October 2023	November 2023	December 2023
pH	pH	pH	pH	pH	pH
7.2	6.8	7.0	6.6	7.6	7.4
6.9	7.0	6.9	6.5		7.3
7.1	6.6	6.7	6.7		
7.1	6.8	6.9	6.2		7.4
6.7	6.7	6.5	6.4		7.4
6.9	6.8	6.5	6.3	7.3	7.4
7.2	6.8	5.4	7	7.0	7.1
7.0	6.9	6.9	7.2	6.0	7.4
7.0	6.6	6.9	6.9	6.9	7.3
6.3	6.8	6.8	7.3	7.1	
6.8	7.0	6.8	7.1	7.4	7.2
7.0		6.6	6.5	7.3	7.4
6.3	6.8	6.8	6.8	7.3	7.5
6.7	6.5	6.8	6.9	7.1	7.4
6.9	6.9	6.8	6.8	7.3	7.5
7.2	6.7	6.8	7.2	7.1	7.4
6.3	7.0	6.8	6.8	7.1	7.3
7.1	7.1	6.8	7.3	7.4	7.2
7.2	7.2	6.9	6.8	7.3	7.4
6.6	6.8	6.6	6.9	7.3	7.6
6.3	6.8	6.3	7.3	7.2	7.5
7.1	6.4	6.7	7.2	7.3	7.4
7.1	6.7	6.8	7.4	7.3	7.2
6.9	5.7	6.8	7.2	7.5	7.2
7.0	6.4	6.7	7.0	7.5	7.1
6.4	6.5	6.3	7.0	7.5	7.0
6.7	6.8	6.4	6.9	7.5	7.3
6.2	6.4	6.2	7.0	7.6	7.3
6.8	6.8	6.9	7.2	7.6	7.3
6.8	6.8	6.6	7.3	7.4	7.4
6.6	6.8		7.5		

ol	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023
Date						
1	32,083	36,851	34,991	34,460	35,892	37,156
2	32,083	37,092	34,625	34,441	35,953	37,362
3	31,646	36,628	34,939	34,529	36,113	36,781
4	32,516	37,208	34,800	34,590	36,280	34,981
5	33,208	38,156	38,551	36,403	36,058	35,900
6	32,647	37,385	39,060	36,000	36,057	38,826
7	32,646	36,950	37,697	36,000	35,633	36,461
8	35,057	36,839	37,038	36,070	36,016	34,028
9	32,955	36,729	35,641	36,355	36,135	34,487
10	33,870	35,442	33,846	36,358	35,887	35,939
11	31,930	36,490	30,759	35,808	35,192	26,910
12	33,104	37,734	35,500	35,260	35,719	6,454
13	32,481	35,848	32,890	34,252	36,966	26,905
14	33,835	37,442	32,551	34,326	38,754	38,618
15	33,885	37,390	33,638	34,325	35,104	35,294
16	34,833	37,421	34,804	35,312	34,660	32,697
17	33,816	37,588	32,510	12,519	34,613	32,770
18	33,429	35,178	32,010	8,080	36,453	35,644
19	36,968	35,396	35,182	31,920	35,617	36,243
20	36,662	36,915	33,062	36,690	37,719	33,521
21	36,462	36,520	34,052	36,392	30,930	34,957
22	38,490	37,632	34,829	33,825	34,757	36,036
23	36,652	37,124	35,585	30,042	34,736	36,858
24	37,470	33,780	36,243	37,041	36,980	33,731
25	37,945	34,397	31,766	36,413	38,838	38,795
26	37,092	36,494	34,795	36,409	35,382	36,449
27	36,387	33,142	36,516	36,325	34,623	34,710
28	37,667	35,777	35,979	36,205	34,838	36,123
29	38,474		35,696	36,127	40,671	38,267
30	36,650		34,376	35,892	35,276	34,956
31	37,111		35,438		34,741	
Total:	1,080,054	1,021,548	1,079,369	1,008,369	1,112,593	1,027,859

Attachment 1: Effluent Discharge Volumes (gal)

July 2023	August 2023	September 2023	October 2023	November 2023	December 2023
34,803	41,613	36,887	31,627	69,490	54,081
39,719	36,696	26,791	24,854	69,490	55,736
34,897	36,965	29,263	24,193	69,490	56,676
33,839	31,613	30,517	30,167	69,490	55,484
40,424	31,986	36,370	24,616	69,490	16,881
32,987	40,911	15,496	30,281	69,491	28,835
35,277	34,781	33,531	26,844	50,380	68,243
39,054	36,542	35,593	27,418	53,860	68,461
38,759	33,243	35,545	29,544	53,154	68,459
35,299	41,540	38,012	24,794	50,416	1,031
39,786	36,280	39,362	30,294	53,546	73,734
37,488	36,279	38,647	24,512	50,648	78,128
35,320	39,954	34,143	38,605	52,708	73,709
37,836	36,906	36,800	24,117	49,198	77,710
39,483	40,707	38,092	30,071	53,500	75,866
35,120	36,070	39,103	23,945	50,816	77,005
38,664	39,319	36,252	29,206	52,475	74,999
39,018	39,538	34,933	24,648	51,906	76,818
31,661	36,296	39,348	30,074	52,131	68,238
35,443	42,741	38,901	64,322	54,949	76,238
39,383	35,786	35,721	69,069	54,892	71,830
37,786	42,175	35,057	68,510	50,730	68,974
37,025	36,501	38,660	72,894	52,169	73,433
41,043	39,051	38,075	68,220	54,939	67,096
35,582	10,853	21	69,912	55,102	70,490
38,616	35,676	-0-	70,740	56,253	69,865
39,332	37,417	30,764	67,788	54,795	68,820
36,716	33,766	34,052	72,267	54,723	69,016
36,715	39,599	26,811	71,252	55,669	64,489
39,329	33,581	31,715	68,276	55,932	64,489
35,135	38,242		68,388		64,489
1,151,539	1,132,627	964,462	1,361,448	1,691,832	1,979,323

Appendix B

PVS Soil Gas Sampling Log

Soil Gas Sampling Log
Seymour Site
Seymour, Indiana

Date: 12/14/2023 Weather: 40's

Sampler: RJW + TL Wind: 4 mph from SE

Riser Pipe Readings

Extraction Point	Oxygen (%)	Carbon Dioxide (ppm)	VOCs (ppm)	LEL (%)
1	20.8	0.0	2.6	0.0
2	20.8	0.0	2.2	0.0
3	20.6	0.0	1.5	0.0
4	20.6	0.0	1.2	0.0
5	20.8	0.0	1.3	0.0
6	20.8	0.0	5.5	0.0
7	20.6	0.0	0.2	0.0
8	20.5	0.0	0.0	0.0
9	20.8	0.0	0.0	0.0
10	20.8	0.0	0.0	0.0
11	20.8	0.0	0.5	0.0
12	20.8	0.0	0.0	0.0
13	20.6	0.0	0.0	0.0
14	20.6	0.0	0.0	0.0
15	20.8	0.0	2.2	0.0
16	20.8	0.0	0.0	0.0
17	20.8	0.0	0.0	0.0
18	20.8	0.0	0.0	0.0
19	20.8	0.0	5.3	0.0

Ambient Air Readings

Extraction Point	Oxygen (%)	Carbon Dioxide (ppm)	VOCs (ppm)	LEL (%)
Air	20.9	0.0	0.0	0.0

Notes:

% Percent
ppm Parts per million
VOCs Volatile organic compounds
LEL Lower explosive limit

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