2018 Annual Corrective Measures Implementation Summary Report Eastman Business Park Rochester, New York Site No. 828177

April 2019

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEPARTMENT OF ENVIRONMENTAL REMEDIATION
625 Broadway, 12th FLOOR
Albany, New York 12233-7013

Prepared by:

ECOLOGY AND ENVIRONMENT ENGINEERING AND GEOLOGY, P.C.
368 Pleasant View Drive
Lancaster, New York 14086

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List of Abbreviations and Acronyms

EBP	Eastman Business Park
EBP-E	Eastman Business Park – East (also referred to as KPE in Appendix B)
EBP-M	Eastman Business Park – Mount Read (also referred to as KPM in Appendix B)
EBP-W	Eastman Business Park – West (also referred to as KPW in Appendix B)
EBP-X	Eastman Business Park – Extension (also referred to as KPX in Appendix B)
E & E	Ecology and Environment Engineering and Geology, P.C.
GQ	Grimsby-Queenston
GSAP	Groundwater Sampling and Analysis Plan
Kodak	Eastman Kodak Company
Lot 50 MCS	Parking Lot 50 Migration Control System
mg/L	milligrams per liter
NEBP-M MCS	Northern EBP-M Migration Control System
NE-EBP-E	Northeast Section of EBP-E (also referred to as NE-KPE)
NE-EBPX MCS	Northeast EBP-X Overburden Migration Control System
NFCS	North Fence-line Containment System
NYSDEC	New York State Department of Environmental Conservation
SVOC	semivolatile organic compound
TOR	top-of-rock
VOC	volatile organic compound
WIA-EBPW	EBP-W North Fence-line Containment System
WRLF	Weiland Road Landfill

1 Introduction

1.1 General

Ecology and Environment Engineering and Geology, P.C. (E & E) is conducting site management activities for remedies that have been implemented under the Kodak Park Corrective Action Program for the Eastman Kodak Company (Kodak)/Eastman Business Park (EBP) facility (herein referred to as "the site") in Rochester, New York (Site No. 828177). E & E began performing these activities in May 2014, as tasked by the New York State Department of Environmental Conservation (NYSDEC) under contract number D007617, Work Assignment No. 28. As a consequence of Kodak's Chapter 11 filing in United States Bankruptcy Court and subsequent settlement agreements made in relation to the bankruptcy, NYSDEC has become responsible for implementing the site management activities of existing remedial programs.

The pumping wells and associated systems collectively represent components of the final corrective measures implemented by Kodak at the EBP facility with NYSDEC's approval to address groundwater hydraulic control and contaminant mass removal. This report presents summarized data on the operation and performance of groundwater remedial measures conducted at the EBP facility from January 1 through December 31, 2018. During this time period, 37 pumping wells were operated, maintained, and monitored at the site. In addition, the Site Management Plan for the site includes maintenance of soil protective covers that are part of the final corrective measures for a number of EBP investigation areas (Kodak 2016). This report also summarizes inspection and maintenance activities for the soil covers.

The pumping wells that comprise the remediation systems each extract groundwater using downhole pumps. There are 37 active pumping wells in 10 remediation areas, plus one currently inactive dual-phase extraction system (MIA-333/M-95 system). Each individual well and/or well system is physically inspected weekly. The weekly physical checks are made to ensure that the pumping and control systems function and maintain the prescribed groundwater control elevation (setpoint). There are currently no remote monitoring features available for these systems. A system is considered to be non-functional when it is not pumping or is unable to maintain hydraulic containment. When a system is non-functional, maintenance is performed to return the system to operational status.

Table 1 identifies the name of each active remediation system, the individual pumping wells that comprise each system, and the purpose of the system. An overall map showing the site's four delineated sections, namely Eastman Business Park – East (EBP-E), Eastman Business Park – West (EBP-W), Eastman Business Park – Extension (EBP-X), and Eastman Business Park – Mount Read (EBP-M), and the location of pumping wells is included as Figure 1. Section 1.2 describes the methods performance data were collected and reported, including groundwater level measurements, water quality monitoring, and volume of extracted groundwater. Section 2 provides an overview of the operational condition of each system and any associated maintenance performed during the reporting period along with an overall summary of performance.

1.2 System Performance Measurement

This report presents three measures of system performance: 1) the volume of groundwater extracted by each well; 2) the potentiometric groundwater surface near the respective well; and 3) the concentration of organic constituents in the well water. Extraction rates for the systems are monitored by magnetic or mechanical flow meter instrumentation. These instruments monitor flow rates and record totalized flow values for each system.

The total monthly volume of groundwater extracted by the individual pumping wells for the period of January 1 through December 31, 2018, is summarized in Table 2 and the annual volume of groundwater extracted from 1988 to 2018 is summarized in Table 3.

The potentiometric surface for the principal hydrostratigraphic flow zones at EBP (overburden, top-of-rock [TOR], and Grimsby-Queenston [GQ]) was determined based on site-wide water level measurements conducted between August 24 and October 18, 2018. Two additional pumping wells were sampled on January 16, 2019, because they were inactive during the initial round of pumping well sampling. The reactivated pumping wells were operating for at least one week prior to sampling. Maps illustrating these respective flow-zone surfaces are presented in Figures 2 through 13 for EBP-E, EBP-M, EBP-W, and EBP-X. Hydraulic flow conditions are illustrated on these maps based on the 2018 field measurements.

In 2015, groundwater elevations were collected prior to sampling and a sitewide potentiometric surface map was created for the overburden, TOR, and GQ flow-zones depicting overall groundwater flow patterns across the site. In the following years and including 2018, groundwater measurements were collected on a park-section-by-section basis to provide more contemporaneous readings by section and increase groundwater elevation collection and sampling efficiencies. Because multiple weeks may pass between groundwater elevation collection and sampling in adjacent park sections, the groundwater potentiometric surface maps are depicted by park section for the overburden, TOR, and GQ zones. Pumping well areas of influence are depicted in these potentiometric surface maps prepared by section in this report. Captures zones are not explicitly depicted on these figures because overall hydraulic containment is collectively affected by pumping

well systems across the park. The section-specific groundwater flow patterns are similar in 2018 to those determined in 2015 resulting in similar capture zones. Therefore, it is expected that the majority of groundwater throughout the EBP is contained by the pumping well systems.

The areas of groundwater influence for each pumping well system depicted for the time of measurement in late summer/fall 2018 show that the systems met remedial objectives for containment, with one potential exception: the Northern EBP-M Migration Control System (NEBP-M MCS) redirects flow towards the collection trench and pumping wells, but the groundwater potentiometric surface contours do not depict full containment along the length of the collection trench. Detailed groundwater modeling of the effects of the blast-fractured trench is not part of the scope of work and would be required to fully understand the effects of the trench on the local capture zone. See Section 2.4 for additional discussion.

Potentiometric surfaces were created using set-point levels in a well if the average recorded water level in that well was below the set point over the course of the year. For wells where this condition was not met, the following methods were used:

- WIA-EBPW North Fence line Containment System pumping wells PB119ER, PB119NER, PL54E, PL54W, and PL54NE water levels were consistently over the set-point level, thus each well's average 2018 water level was used. Pumping well PB135ER was inoperable for more than half of the year, thus the well's average 2018 water level was used.
- Parking Lot 50 Migration Control System (Lot 50 MCS) pumping well PL50N3 water level was consistently over the set-point level, thus the well's average 2018 water level was used.
- Building 329/349 Area Remedial systems pumping well PB329E2 water level was consistently over the set-point level, thus the well's average 2018 water level was used.
- NEBP-M MCS pumping well PB319N water level was consistently over the set-point level, thus the well's average 2018 water level was used.
- MIA-301 Groundwater Remediation System pumping well PB303SW was inoperable for most of the year, thus it was not included in the development of the potentiometric surface.
- Weiland Road Landfill (WRLF) pumping well PWRNW3 was running for most of the year, but was inoperable during sampling. As a result, the set-point level was used due to its operation for the majority of the year.
- Northeast EBP-E Migration Control System pumping well PL41N water level was consistently over the set-point level, thus the well's average 2018 water level was used.
- Individual containment well PB307N3 uses the actual groundwater elevation measured in January 2019.

- Groundwater elevations for pumping wells PB307E2, PB322NE2, and PB322NE4 are based on the top of pump elevations manually recorded in January 2019. The pneumatic pumps at these locations are capable of sustaining groundwater elevation at the top of the pump.

In 2018, E & E collected groundwater samples from 29 pumping wells, 101 monitoring wells, and two storm sewer manholes. All pumping well samples were analyzed for volatile organic compounds (VOCs). Pumping wells in the EBP-M section of the EBP were tested for semivolatile organic compounds (SVOCs), specifically 1,4-dioxane, as described in the 2018 Groundwater Sampling and Analysis Report (E & E 2019a). Pumping wells in the WRLF area were tested for SVOCs, specifically 1,4-dioxane, and leachate parameters as described in the WRLF 2018 Environmental Monitoring Report (E & E 2019b). A summary of the compounds detected in each pumping well is presented in Table 4. The analytical data and the respective volumes of water extracted were used to calculate the mass of organic contaminants removed from each pumping well during 2018. A summary of the 2018 contaminant mass extracted and comparison to previous year's data is presented in Table 5.

The M-95 (also known as MIA-333) dual-phased extraction system was shut off indefinitely in September 2015 following an oil spill and costly maintenance throughout the preceding months. E & E completed a conversion design with the intent to re-start the system and reestablish a capture zone, while reducing operation and maintenance costs. The proposed design was submitted and approved by NYSDEC in January 2017. The design includes the installation of three air-driven pneumatic pumps within two existing wells (PB326SW9 and PB326SW5) and one converted monitoring well (SB326SW8), and two overburden monitoring wells to provide further groundwater data. Additional description of the plans for system conversion are discussed in Section 2.11. Seven wells within the M-95 area, including well PB326SW5 that will be used as a pumping well within the contaminant mass removal system, were sampled for the 2018 Groundwater Sampling and Analysis Plan (GSAP) to monitor VOC levels while the system was offline. Samples were analyzed for VOCs and SVOCs. A summary of the compounds detected in 2018 in pumping and monitoring wells within the M-95 area are presented in Table 6.

The 2018 Groundwater Sampling and Analysis Report also contains the results of monitoring well sampling conducted in August through October 2018 (E & E 2019a). That report was prepared as a requirement of the EBP GSAP (Kodak 2012) and Site Management Plan (Kodak 2016). Monitoring well data from that report are not presented herein.

2 Operational Performance

2.1 WIA-EBPW North Fence-line Containment System

Eight pumping wells comprise the EBP-W North Fence-line Containment System (referred to as WIA-EBPW or NFCS). The NFCS is designed to prevent migration of groundwater contaminants beyond the EBP property line in the overburden and TOR flow zones in the WIA-EBPW. The eight electric submersible pumping wells are: PL54E, PL54NE, PL54NE2, PL54W, PB119ER, PB119NER, PB135ER, and PB143NW.

2.1.1 Operation Summary

A summary of the 2018 maintenance activities for the WIA-EBPW system is provided in Table 7. Pumping well PL54W's set point was lowered from 202 feet (Kodak Park Datum) to 199 feet on February 1, 2018, as the groundwater elevation at this location was consistently below the setpoint elevation for the pump to turn on. New pumps and motors were installed in pumping well PL54NE on February 22, 2018, and pumping well PB135ER on September 6, 2018. Pumping wells PB143NW, PL54E, PL54W, PL54NE2 require replacement motors and pumps in early 2019. Wells PB135ER, PL54W, PL54NE, PB119ER, and PB119NER had water levels over the set point for more than half of the year. Planned maintenance for these wells include replacing pumps and motors for those that need them, bringing in Popli's electrical subcontractor to identify potential electrical issues at well PL54NE2, and conducting a system analysis on the pressure transducers, pumps and motors, and pump controllers to ensure that the wells can maintain hydraulic control.

2.1.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in the EBP-W area are presented in Figures 8 through 10. The effect of the NFCS on groundwater is visually demonstrated for the overburden and TOR zones in Figures 8 and 9 by the hydraulic depressions around the pumping wells in the TOR zone and around the area of the pumping wells in the overburden. The extent of influence in the TOR zone extends beyond the property boundary to the north, indicating that groundwater is pulled back to the site by this system.

2.1.3 Water Quality Monitoring

Groundwater samples were initially collected from three of the NFCS pumping wells, PL54NE, PB119ER, and PB119NER, in summer 2018 for the GSAP. Groundwater samples were collected from pumping well PL54W in January

2019, as this well was inactive during the initial sampling period. Pumping wells PB135ER, PB143NW, PL54E, and PL54NE2 were not sampled as these pumping wells were not in operation during the sampling event. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each well in the system during 2018 (see Table 5). In addition, concentration-time series plots were prepared for each well and are presented in Appendix A.

Total VOC concentrations decreased in two of the four tested wells in 2018 (PL54W and PL54NE). Historic total organic concentrations in PL54NE have been variable, with the highest level of organics (28 milligrams per liter [mg/L]) observed in 2002, while the lowest concentration (0.003 mg/L) was observed in 2004. In 2018, the total organic concentration (0.0125 mg/L) was the lowest concentration observed since 2004. Historic total organic concentrations in PB119ER have been highly variable, ranging from 12 mg/L in 2002 to 0.018 mg/L in 2013. Since 2013, the concentration has slightly increased, with 0.038 mg/L observed in 2017 and 0.066 mg/L observed in 2018, but the overall concentration trend is generally decreasing.

2.2 Parking Lot 50 Migration Control System

Four pumping wells (PL50N2, PL50N3, PL50NW3, and PL50W) comprise the Lot 50 MCS. The system is designed to prevent the migration of groundwater contaminants in the GQ flow zone in the EBP-W area beyond the southern property line.

2.2.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 8. Pumping wells PL50N2 and PL50W did not require maintenance during the 2018 inspection period. A new motor and pump was installed at pumping well PL50NW3 on February 2, 2018. A new pressure transducer was installed at pumping well PL50N3 on September 27, 2018. Pumping well PL50N3 requires new pump and motor. Planned maintenance for these wells include replacing pumps and motors where needed in early 2019.

2.2.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-W area are presented in Figures 8 through 10. The effect of the Lot 50 MCS within the GQ flow zone is illustrated in Figure 10 by the depressions in the contour lines. Within this area of influence, groundwater in the overburden, TOR, and GQ flows towards the wells within the Lot 50 MCS. The extent of capture in the GQ zone extends beyond the property boundary to the south, indicating that groundwater is pulled back to the site by this system (see Figure 10).

2.2.3 Water Quality Monitoring

Groundwater samples were collected from three of the Lot 50 MCS pumping wells in summer 2018 for the GSAP. Pumping well PL50N3 was not sampled as

the well was not in operation during the sampling event. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each pumping well in the system during 2018. These values are presented in Table 5. In addition, concentration-time series plots were prepared for each well and are presented in Appendix A.

Total VOC concentrations in two of the three tested wells decreased when compared to historical maximums through 2018. The exception is well PL50N2, where overall VOC concentrations indicate an increasing trend from inception through 2018. Two groundwater sampling events were conducted at PL50N2 in 2016 because the detected concentrations (704 mg/L in April 2016 and 880 mg/L in September 2016) varied significantly from the 0.353 mg/L concentration observed in 2015. The total organic concentration in 2017 (951 mg/L) and 2018 (977.8 mg/L) were within the same order of magnitude as the 2016 samples, demonstrating the total organic concentration observed in 2015 is likely an outlier.

2.3 Building 329/349 Area Remedial System

Two fractured rock trenches and two pumping wells (PB329E2 and PB349N) comprise the Building 329/349 area remedial system. The system is designed to prevent the migration of groundwater contaminants in the overburden and TOR flow zones in the northwestern portion of the EBP-M area across the northern property line.

2.3.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 9. Pumping well PB349N required no maintenance during the 2018 inspection period. Pumping well PB329E2 had a broken wire on the pressure transducer that was repaired on June 7, 2018. Pumping well PB329E2 had water levels over the set-point level for more than half of the year. Planned maintenance for these wells include conducting a system analysis of the pressure transducers, pumps and motors, and pump controllers to ensure the wells can maintain hydraulic control.

2.3.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M area are presented in Figures 5 through 7. The effect of the Building 329/349 Area Remediation System within the TOR surface is illustrated by the depressions in the contour lines on Figure 6, with groundwater flowing toward the trenches/pumping wells within the system. The system does not appear to have any hydraulic influence within the GQ zone.

2.3.3 Water Quality Monitoring

Groundwater samples were collected from the two pumping wells in summer 2018 for the GSAP. No organic compounds (as identified in the GSAP Protocol – site specific compounds) were detected in PB349N, while low levels were detected in PB329E2. The detected concentrations in PB329E2 and the total annual

flow were used to calculate the mass of contaminants removed during 2018 and are presented in Table 5. The concentration-time series plots prepared for the two wells in this system are presented in Appendix A.

The total organic concentrations in PB349N have remained undetected since 2007. Only two isolated sampling events since 1998 have resulted in detections (2001 and 2007). Total organic concentrations in PB329E2 remained undetected or below a value of 0.001 mg/L for several years subsequent to 2004; however, a general increase in total organic concentration was observed in 2013, with concentrations remaining consistent or decreased thereafter.

2.4 Northern EBP-M Migration Control System

One overburden French drain with pumping well (PB350NE2), and two fractured rock trench wells with related pumping wells (PB319N and PB350NW) comprise the NEBP-M MCS. The system is designed to prevent the migration of groundwater contaminants in the overburden and TOR flow zones in the northern portion of the EBP-M area across the northern EBP-M area property line.

2.4.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 10. Pumping wells PB350NE2 and PB350NW required no maintenance during the 2018 inspection period. A new pressure transducer was installed in pumping well PB319N on August 9, 2018. Pumping well PB319N has had water levels over the set-point level for more than half the year. Planned maintenance for these wells include conducting a system analysis of the pressure transducers, pumps and wells, and pump controllers to ensure the wells can maintain hydraulic control.

2.4.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M area are presented in Figures 5 through 7. The effects of the NEBP-M MCS in the overburden and the TOR surfaces are illustrated by the depressions in the contour lines in Figures 5 and 6. Within the overburden and TOR areas of influence, groundwater flows towards the trench and three pumping wells within the system and exhibits at least partial capture. The contours and flowlines in Figures 5 and 6 do not depict full capture of groundwater along the full length of the trench within the overburden and TOR zones because they were developed based on a point file of measured water levels and do not account for the enhanced hydraulic conductivity of the collection trench itself. Detailed flow modeling of the effects of the blast-fractured trench is not part of the scope of work and would be required to fully understand the effects of the trench on the local capture zone. However, groundwater monitoring of wells offsite and downgradient of this system has shown groundwater to be free of contaminants with the exception of low levels of acetone (suspected laboratory artifact) and 1,4-dioxane (less than 3 micrograms per liter). The system has no influence or hydraulic capture within the GQ zone.

2.4.3 Water Quality Monitoring

Groundwater samples were collected from two of the three Northern EBP-M MCS pumping wells in summer 2018 for the GSAP. Pumping well PB319N was not sampled as the well was not in operation during the sampling event. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each pumping well during 2018. These values are presented in Table 5. The concentration-time series plots prepared for the wells in this system are presented in Appendix A.

Total organic concentrations in PB350NE2 and PB350NW show a general decreasing trend until 2015. From 2015 to 2018, total organic concentrations show a general increasing trend (except for the decrease in 2017).

2.5 MIA-301 (EBP-M) Groundwater Remediation System

This system consists of three pneumatic groundwater pumping wells (PB303SW, PB303W2, and PB323SE2) that were installed to recover groundwater contaminants from the interior area of EBP-M in the vicinity of a former drum storage pad west of the Building 301 – 304 complex.

2.5.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 11. Pumping wells PB323SE2 and PB303W2 required no maintenance during the 2018 inspection period. The airline was repaired in pumping well PB303SW on September 5, 2018. The discharge line for pumping well PB303SW will likely need repairs or replacement in 2019. Planned maintenance for these wells is to clean the discharge lines and periodically check the air lines for any necessary repairs.

2.5.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M area are presented in Figures 5 through 7. The effects of the MIA-301 Groundwater Remediation System in the overburden and the TOR surfaces are illustrated by depressions in the contour lines on Figures 5 and 6, with groundwater flowing toward the three pumping wells within the system. The system has no influence or hydraulic capture within the GQ zone.

2.5.3 Water Quality Monitoring

Groundwater samples were collected from two of the three MIA-301 pumping wells in summer 2018 for the GSAP. A groundwater sample from the third pumping well, PB303SW, was collected in January 2019 as it was inactive during the initial sampling period. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each of the three pumping wells during 2018. These values are presented in Table 5. The concentration-time series plots prepared for the wells in this system are presented in Appendix A.

Well PB303W2 generally shows an overall decreasing trend in total organic concentrations. Total organic concentrations in PB323SE2 have increased since 2015 and reached a historical high of approximately 44 mg/L in 2018. Total organic concentrations in PB303SW have shown relatively high variability since inception, but an overall decreasing trend was observed between 2012 and 2017. There was an increase in total organic concentrations in 2018, resulting in a new historical high of approximately 23 mg/L in January 2019.

2.6 Northeast EBP-X Overburden Migration Control System

One overburden French drain and pumping well PB218N comprise the Northeast EBP-X Overburden Migration Control System (NE-EBP-X MCS). The NE-EBPX MCS is designed to prevent the migration of groundwater contaminants in the overburden in XIA-218 from leaving NE-EBPX.

2.6.1 Operation Summary

There was no maintenance activity needed for this system during the 2018 inspection period.

2.6.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in the NE-EBPX MCS area are presented in Figures 11 through 13. The effect of pumping well PB218N on the overburden surface is illustrated in Figure 11 by the depressions in the contour lines.

2.6.3 Water Quality Monitoring

Groundwater samples were collected from pumping well PB218N in summer 2018 for the GSAP. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by the pumping well during 2018 (see Table 5). The concentration-time series plot for the groundwater extracted at PB218N is presented in Appendix A. In general, the total organic concentrations in groundwater at this location has steadily decreased over time. Concentrations have remained below 0.001 mg/L since 2013, with non-detect concentrations in 2014, 2016, and 2018.

2.7 Parking Lot 73 Remedial System

One overburden French drain and pumping well PL73N comprise the Parking Lot 73 Remedial System. The system is designed to prevent surface seepage and to afford some control over the migration of groundwater contaminants in the shallow overburden in this area.

2.7.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 12. Pumping well PL73N requires a new motor and pump to be installed in early 2019.

2.7.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M are presented in Figures 5 through 7. The Parking Lot 73 system was not designed based on a hydraulic capture zone specification, and as such, a hydraulic area of influence is not illustrated.

2.7.3 Water Quality Monitoring

Groundwater samples were collected from pumping well PL73N in summer 2018 for the GSAP. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by the pumping well during 2018 (see Table 5). The concentration-time series plot for the groundwater extracted at PL73N is presented in Appendix A. In general, the total organic concentrations in groundwater at this location has decreased over time, with the lowest concentration (0.007 mg/L) observed in 2011. Concentrations increased slightly between 2015 and 2017, but decreased in 2018 (0.022 mg/L).

2.8 Weiland Road Landfill Top-of-Rock Remedial System

A single fractured rock trench and pumping well PWRNW3 comprise the WRLF TOR Remedial System. This system is designed to prevent groundwater contaminants in the overburden and TOR flow zones from the landfill from migrating across the western EBP-M property line.

2.8.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 13. The motor and pump for pumping well PWRNW3 were replaced on September 6, 2018, but that did not solve the issue and the system was shut off on September 14, 2018. Additional diagnostics were performed in the fall and early winter. Planned maintenance for this well includes bringing Optimation in to examine possible electrical causes and replace the pump and motor, if needed.

2.8.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M are presented in Figures 5 through 7. The effect of the WRLF Remedial System is illustrated for the TOR zone in Figure 6, with groundwater flowing to the pumping well.

2.8.3 Water Quality Monitoring

Groundwater samples were not collected at pumping well PWRNW3 in 2018 as the well was not in operation during the sampling event.

2.9 Individual Systems

Ten pumping wells fall into the category of individual remedial systems. These wells were installed for the purpose of groundwater contaminant mass removal within the EBP. These wells include PB53N2 (electric submersible), PB54NW (pneumatic), PB54SE (pneumatic), PB57W (pneumatic), PB115N (pneumatic),

PB136S (electric submersible), PB307E2 (pneumatic), PB307N3 (pneumatic), PB322NE2 (pneumatic), and PB322NE4 (pneumatic).

2.9.1 Operation Summary

A summary of the 2018 maintenance activities for this system is provided in Table 14. Pumping wells PB54SE, PB57W, PB115N, PB136S, PB322NE2, and PB322NE4 required no maintenance during the 2018 inspection period. The discharge fittings at pumping wells PB307E2 and PB307N3 were repaired on January 11, 2018. A new motor, pump, and pump controller were installed at pumping well PB53N2 on February 22, 2018. The airline at pumping well PB307N3 was repaired on June 14 and August 30, 2018. Pumping well PB307E2 needs a replacement airline, PB53N2 needs replacement motor and pump, and PB54NW may need a new counter. Planned maintenance for these wells includes installing new pumps, motors, and counters for the wells that require them and bringing in Optimation to examine well PB53N2 for possible electrical issues.

2.9.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-E, EBP-M, and EBP-W areas are presented in Figures 2 through 10, respectively. These systems were not designed based on a hydraulic capture zone specification, although groundwater is influenced within the overburden, TOR, and GQ groundwater potentiometric surfaces. Groundwater in the TOR and GQ flow zones is influenced by pumping wells PB53N2, PB54SE, and PB57W, as shown in Figures 3 and 4; groundwater in the GQ flow zone is influenced by pumping well PB54NW, as shown in Figure 4. Groundwater in the overburden and TOR flow zones is influenced by pumping well PB115N, as shown in Figures 8 and 9. Groundwater in the TOR flow zone is influenced by pumping well PB136S, as shown in Figure 9. Groundwater in the overburden flow zone is influenced by pumping wells PB307E2, PB307N3, PB322NE2, and PB322NE4, as shown in Figure 5. Groundwater in the TOR flow zone is also influenced by pumping well PB322NE2, as shown in Figure 6.

2.9.3 Water Quality Monitoring

Groundwater samples were collected from nine of the 10 pumping wells in summer 2018 for the GSAP. Groundwater sampling for pumping well PB53N2 was not conducted as it was not in operation during the sampling event. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each well in the system during 2018 (see Table 5). In addition, concentration-time series plots for these wells are presented in Appendix A. Total organic concentrations in the majority of these wells (PB54SE, PB57W, PB115N, PB136S, and PB322NE4) are decreasing with the following exceptions:

- Total organic concentrations in PB54NW showed a high degree of variability prior to 2001, were relatively stable from 2001 to 2007, and showed an increasing trend until 2013. In 2014, the total organic concentration dropped to 10 mg/L (a 14-year low), but rebounded in 2015 to 470mg/L, entirely due to

methylene chloride. Total organic concentrations remained high in 2016 (350 mg/L), 2017 (400 mg/L), and 2018 (535 mg/L).

- Total organic concentrations have been highly variable in well PB57W. A general decrease trend was observed from 1994 to 2006, concentrations increased to 1,250 mg/L in 2008, with a consistent decreasing concentration trend since 2008. Two groundwater sampling events were conducted at PB57W in 2016 (April and September) because the initial concentration detected (0.20 mg/L in April) varied significantly from 2015 concentration (412 mg/L). The total organic concentrations during the two 2016 sampling events were within the same order of magnitude as the 0.207 mg/L identified during 2018 GSAP.
- In PB307E2, the total organic concentrations are variable, but have generally remained below 0.7 mg/L; the total concentration decreased to 0.015 mg/L in 2017, but increased to 0.41 mg/L in 2018.
- In PB307N3, concentrations declined from 2011 to 2014 (0.22 mg/L), but rebounded in 2015 to 3.27 m/L. Concentrations have decreased since 2015, with a concentration of 0.18 mg/L identified in 2018.
- In PB322NE2, concentrations have remained relatively stable, with a slightly increasing trend due to a concentration of 23 mg/L in 2018.

2.10 Northeast EBP-E Migration Control System

Two fractured-rock trenches and four associated pumping wells (PL41N, PL41S, PL42E, and PL42W) located in parking lots 41 and 42, comprise the Northeast EBP-E Migration Control System. This system was installed to prevent the migration of contaminants in the bedrock groundwater (TOR and GQ flow zones) from migrating beyond the northeast EBP-E area.

2.10.1 Operation Summary

There were no maintenance activities required of this system in 2018. Water levels in pumping well PL41S were observed to exceed the set point for several months throughout 2018, although the system was inspected to be pumping at normal rates. Water levels in pumping well PL41N were observed to exceed the set point throughout 2018, although, the system was inspected to be pumping at normal rates. It is possible that this issue correlates with a high groundwater table. The water levels within wells peaked in late February/early March and late April/early May. The area received an accumulated total precipitation of 36.92 inches in 2017 (see Table 2), compared to 45.18 inches in 2017 and 29.19 inches in 2016. April's precipitation alone changed from 1.95 inches in 2016 and 4.95 inches in 2017 to 3.5 inches in 2018. Prior information about the operation of this system obtained through conversation with the former Kodak remediation manager indicated that this was a periodic issue and the possibility of a municipal water leak contributing to high groundwater levels was investigated and excluded. The systems will continue to be closely monitored by E & E to confirm pumps remain active. Pumping well PL41N has had water levels above the set-point level

for more than half the year. Planned maintenance for these wells include conducting a system analysis of the pressure transducer, pumps and motors, and pump controllers to ensure the wells can maintain hydraulic control.

2.10.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in the northeast EBP-E area are presented in Figures 2 through 4. The effect of the system is illustrated for the TOR and GQ surfaces in Figures 3 and 4 by the depressions in the contour lines. Within the areas of influence, groundwater flows toward the four pumping wells within the system.

2.10.3 Water Quality Monitoring

Groundwater samples were collected from each of the four pumping wells in this system in summer 2018 for the GSAP. A summary of the detected compounds is presented in Table 4. These data and the total annual flow were used to calculate the mass of contaminants removed by each well in the system during 2018. These values are presented in Table 5. In addition, a concentration-time series plot for total organic concentrations at these locations are presented in Appendix A. The total organic concentrations in groundwater extracted at these locations has fluctuated significantly since 2007, and is possibly seasonal (generally lower in the fall and higher in the spring). Concentrations in all four wells have decreased significantly since 2012.

2.11 MIA-333 Dual Phase Remediation System (M-95)

This system includes four dual-phase extraction wells (and a dual-phase extraction unit and related equipment). The wells are installed to depths that interface with the overburden and TOR. The four original dual-phase extraction wells and one nearby monitoring well previously altered to be used as a pumping well are not in operation as discussed in Section 1.2.

E & E has completed a conversion design for the M-95 system. The new system design includes the installation of three air-driven pneumatic pumps in two existing pumping wells (PB326SW5, PB326SW9), and on existing monitoring well (SB326SW8). Monitoring well SB326SW8 will be converted from a monitoring well to a pumping well as part of the design. Pumping wells PB326SW6 and PB326SWR that were previously active extraction wells within the MIA-333/M96 dual-phase remediation system will not be utilized in the new M-95 system design based on evaluation of the capture zone of the system. The new system construction began in December 2018 and is scheduled to finish in spring 2019.

2.11.1 Operation Summary

This system was inoperable for the entirety of 2018 and required no maintenance.

2.11.2 Water Level Measurements

Contours of the overburden, TOR, and GQ groundwater potentiometric surfaces in EBP-M are presented in Figures 5 through 7. As the M-95 system was down

for the entirety of 2018, an area of hydraulic influence was not determined for this system.

2.11.3 Water Quality Monitoring

Although the system is shutdown, groundwater sampling was performed to monitor levels of VOC contaminants within the M-95 area and establish baseline conditions to be used during performance evaluation of the new conversion system, hereafter. Groundwater samples were collected from two pumping wells and five groundwater monitoring wells within the system for the 2018 GSAP. A summary of detected compounds is shown in Table 6. Due to the system being shutdown, the total mass of contaminants removed by the system was not determined. Total organic concentrations decreased in all wells from 2015 to 2017, but had a slight increase in 2018 in all wells, except for monitoring well GB326SWR. The highest total organic concentration observed within in the M-95 system occurred in wells PB326SW5 and SB326SW7; the highest individual concentration in both wells was xylene (see Table 6).

3 Protective Cover Integrity Program

Soil protective covers are part of the final corrective measures for a number of EBP investigation areas and provide physical barriers to subsurface soils that may contain elevated contaminant concentrations. Potential exposures are controlled through observation and maintenance of soil covers in areas where exceedances of industrial/commercial soil cleanup objectives or site-specific criteria have been identified. Currently, the following investigation areas are subject to an annual inspection of protective cover conditions. Locations identified with an asterisk (*) are not above or within 100 feet of any existing pumping wells:

1. MIA-WRL
2. MIA-329
3. MIA-351
4. MIA-301
5. XIA-218
6. WIA-KPW
7. NE-KPE
8. EIA-KL
9. MIA-317*
10. XIA-202*
11. XIA-208
12. B-642 Area*
13. WRLF

Maintenance issues and corresponding site location maps for each soil protective cover area are documented in Appendix B. Minor visual deficiencies were noted during the October 2018 soil cover inspection in the MIA-WRL area, where the edge of landscape fabric beneath gravel was exposed. The landscape fabric is not part of the cover, but was used to separate gravel from soil, and no action was required.

4 Conclusions

4.1 Remedial Pumping Well Systems

The maintenance, volumetric, analytical, and potentiometric surface data, as presented in this report, demonstrate that the systems generally perform according to the design objectives and remain effective components of the Corrective Action Program for the EBP Site, subject to addressing the required individual well maintenance needs. There are outstanding maintenance issues that affect nine individual pumping wells that, once addressed, will improve overall system performance. This includes conversion of the MIA-333 Dual-Phase Remediation System (M-95) to a compressed air-driven, pneumatic pumping system. These issues, in addition to preventive maintenance issues, will be addressed in 2019. Maintenance issues are discussed in monthly status reports.

4.2 Protective Cover Systems

The inspections completed in 2018 indicate that the protective cover system conditions are as prescribed in the Corrective Action Program for the EBP Site. Surficial damages will be promptly addressed to correct deficiencies where required. Inspections will continue in 2019.

5 References

Eastman Kodak Company (Kodak). 2012. *Eastman Business Park Groundwater Sampling and Analysis Plan*. Rochester, New York, revised August 2012.

_____. 2016. *Site Management Plan, Eastman Kodak Company, Eastman Business Park.* Rochester, New York, January 2016.

Ecology and Environment Engineering and Geology, P.C. (E & E). 2019a. 2018 *Groundwater Sampling and Analysis Report, Eastman Kodak Company - Eastman Business Park.* April 2019.

_____. 2019b. *Weiland Road Landfill 2018 Environmental Monitoring Report, Eastman Business Park, Rochester, New York.* April 2019.

Tables

Table 1 Eastman Business Park Remediation Systems

System	Component Pumping Wells	Purpose
WIA-EBP-W North Fence-line Containment System	PB119ER, PB119NER, PB135ER, PB143NW, PL54E, PL54NE, PL54NE2, PL54W	Groundwater hydraulic control
Parking Lot 50 Migration Control System	PL50N2, PL50N3, PL50NW3, PL50W	Groundwater hydraulic control
Building 329/349 Area Remedial System	PB329E2, PB349N	Groundwater hydraulic control
Northern EBP-M Migration Control System	PB350NE2, PB350NW, PB319N	Groundwater hydraulic control
MIA-301 (EBP-M) Groundwater Remediation System	PB323SE2, PB303SW, PB303W2	Groundwater hydraulic control/contaminant mass removal
Northeast EBP-X Overburden Migration Control System	PB218N	Groundwater hydraulic control
Parking Lot 73 Remedial System	PL73N	Groundwater hydraulic control
Weiland Road Landfill Top-of-Rock Remedial System	PWRNW3	Groundwater hydraulic control
Individual Systems	PB53N2, PB54NW, PB54SE, PB115N, PB136S, PB57W, PB322NE2, PB322NE4, PB307E2, PB307N3	Contaminant mass removal
Northeast EBP-E Migration Control Systems	PL41N, PL41S, PL42E, PL42W	Groundwater hydraulic control
MIA-333 Dual-phase Remediation System (*offline in 2018)*	PB326SW5, PB326SW9, SB326SW8 *(system to be installed spring of 2019)*	Contaminant mass removal

Table 2 Total Groundwater Volume Extracted in 2018 (Gallons)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	2018												
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT[1]	NOV[1]	DEC	TOTAL
PB57W	506	763	951	995	911	539	524	737	511	-	-	1,945	**8,381**
PB53N2	0	0	44,905	27,517	30,590	21,739	21,156	26,275	17,747	-	-	0	**189,929**
PB54SE	2,539	2,623	3,310	2,706	3,209	2,429	3,203	6,679	4,753	-	-	21,833	**53,284**
PB54NW	5,300	31,285	11,870	12,342	151	0	14,264	17,728	156,412	-	-	132,773	**382,126**
PL42E	24,377	35,366	46,257	36,091	43,822	26,072	22,261	24,312	17,078	-	-	53,680	**329,316**
PL42W	27,714	34,440	41,202	31,089	37,693	26,257	25,463	26,224	18,419	-	-	67,930	**336,431**
PL41N	1,273,693	1,364,675	1,715,087	1,371,021	1,713,529	1,359,523	1,397,322	1,657,801	1,303,178	-	-	4,126,719	**17,282,548**
PL41S	815,301	1,306,417	1,325,251	1,705,342	1,615,915	786,368	750,390	964,490	555,742	-	-	1,865,505	**11,690,721**
EBP-E TOTAL	**2,149,430**	**2,775,568**	**3,188,832**	**3,187,103**	**3,445,821**	**2,222,928**	**2,234,584**	**2,724,246**	**2,073,839**	**-**	**-**	**6,270,385**	**30,272,736**
PL50W	2,944	2,960	3,041	2,328	2,888	2,344	2,323	2,492	1,984	-	-	15,990	**39,294**
PL50NW3	0	0	20,995	16,170	19,212	15,166	15,455	19,250	15,248	-	-	51,251	**172,747**
PB136S	15,620	17,297	22,181	18,596	20,528	14,689	13,699	31,459	19,012	-	-	71,418	**244,498**
PL50N2	2,499	2,438	2,288	1,745	2,159	1,689	1,768	2,300	1,905	-	-	6,715	**25,504**
PL50N3	8,514	8,864	10,056	7,762	12,208	9,717	2,555	8,503	8,509	-	-	8,809	**85,497**
PB115N	3,017	2,995	3,679	2,959	3,439	2,665	2,702	3,002	2,367	-	-	8,671	**35,496**
PB143NW	3,114	3,159	3,689	2,617	3,034	2,243	1,123	25	18	-	-	0	**19,022**
PL54E	327,030	356,664	406,132	301,635	365,733	259,415	165,482	0	0	-	-	0	**2,182,091**
PL54W	30	15,081	26,770	0	52	0	0	0	0	-	-	1,688	**43,621**
PL54NE2	296,983	346,977	435,187	345,438	426,503	323,472	332,632	424,064	244,049	-	-	1	**3,175,306**
PL54NE	158,766	88,443	310,443	270,581	264,346	217,152	189,440	146,674	104,595	-	-	386,362	**2,136,802**
PB119ER	46,201	88,400	107,854	63,256	65,066	67,537	72,345	101,715	93,081	-	-	247,173	**952,628**
PB119NER [3]	76,008	142,155	176,501	146,241	176,404	105,186	40,894	71,311	95,055	-	-	308,928	**1,338,682**
PB135ER	235,087	244,114	286,974	217,048	157,723	0	0	0	11	-	-	269,324	**1,410,281**
EBP-W TOTAL	**1,175,813**	**1,319,547**	**1,815,789**	**1,396,376**	**1,519,295**	**1,021,275**	**840,417**	**810,795**	**585,833**	**-**	**-**	**1,376,330**	**11,861,469**
PB218N	203,292	201,668	244,551	238,780	175,424	95,146	71,349	94,875	67,301	-	-	498,697	**1,891,083**
EBP-X TOTAL	**203,292**	**201,668**	**244,551**	**238,780**	**175,424**	**95,146**	**71,349**	**94,875**	**67,301**	**-**	**-**	**498,697**	**1,891,083**
PL73N	514,744	689,957	915,196	724,660	919,045	730,006	617,558	524,385	264,363	-	-	323,738	**6,223,652**
PWRNW3	151,027	174,170	218,990	177,056	187,759	143,009	101,080	0	0	-	-	0	**1,153,091**
MIA-333 (M95) [2]	0	0	0	0	0	0	0	0	0	0	0	0	**0**
PB349N	33,283	36,355	51,202	44,720	55,872	39,445	36,581	41,575	30,385	-	-	109,630	**479,048**
PB329E2	85,654	91,868	137,497	116,784	31,133	89,383	108,767	121,466	93,688	-	-	282,856	**1,159,096**
PB350NW	49,978	53,898	95,608	57,723	62,992	48,658	48,319	58,837	41,813	-	-	156,681	**674,507**
PB350NE2	460,822	416,575	419,927	586,867	401,817	166,524	151,896	201,313	145,719	-	-	1,198,001	**4,149,461**
PB319N	8,048	2,083	20,570	3,530	681	1,765	3,187	222	46	-	-	13,749	**53,881**
PB323SE2	0	10,445	13,431	11,078	12,528	9,010	8,380	10,114	7,600	-	-	30,490	**113,076**
PB303SW	6,515	7	0	0	0	0	0	0	0	-	-	25,042	**31,564**
PB303W2	4,519	4,825	7,546	4,765	6,595	5,872	10,183	11,672	4,676	-	-	48,366	**109,019**
PB307N3	775	5	50	1	63	46,893	153,578	0	84,262	-	-	531,502	**817,128**
PB307E2	2,177	50,651	68,311	1,396	4,015	13,332	6,115	148,276	88,466	-	-	271,216	**653,954**
PB322NE2	4,953	778	931	706	824	666	689	835	673	-	-	2,629	**13,683**
PB322NE4	121,975	5,006	6,350	5,045	5,860	4,662	4,315	5,800	4,828	-	-	16,882	**180,721**
EBP-M TOTAL	**1,444,470**	**1,536,624**	**1,955,607**	**1,734,331**	**1,689,183**	**1,299,225**	**1,250,647**	**1,124,493**	**766,518**	**-**	**-**	**3,010,781**	**15,811,881**
TOTAL	**4,973,005**	**5,833,407**	**7,204,780**	**6,556,590**	**6,829,723**	**4,638,574**	**4,396,997**	**4,754,409**	**3,493,492**	**-**	**-**	**11,156,193**	**59,837,169**
Precipitation (inches)[4]	3.11	2.15	3.02	3.5	1.7	3.2	2.67	2.81	3.83	3.83	4.54	2.56	**36.92**

Notes:

1. Pumping well inspections were not conducted in October or November while awaiting approval of a work assignment amendment. The total volume recorded for December is inclusive of the total volume pumped during October, November, and December 2018.
2. The M-95 system was offline for all of 2018.
3. Pumping Well PB119NER had a plugged flowmeter that was incorrectly recording gallons pumped between August 2, 2018 and the end of the year. The total volume during this time period reflects the average weekly volume pumped when the flowmeter was correctly functioning.
4. Total monthly precipitation in inches from The Weather Company, LLC
   https://www.wunderground.com/history/airport/KROC/2017/1/28/MonthlyHistory.html?req_city=Rochester&req_state=NY&req_statename=New York&reqdb.zip=14652&reqdb.magic=1&reqdb.wmo=99999

Key:
EBP = Eastman Business Park

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 3 Annual Groundwater Extraction Volumes - 1988 to 2018 (Gallons)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
PB53N2	400,000	160,000	260,000	360,000	291,733	304,171	310,801	311,992	455,591	563,726	438,201
PB54NW	64,000	280,000	1,200,000	270,000	151,289	117,767	94,059	34,616	73,362	218,909	297,911
PB54SE	150,000	29,000	32,000	26,000	25,421	25,510	21,943	17,027	14,104	45,991	54,065
PB57W	29,000	36,000	110,000	19,000	8,174	9,875	14,044	--	--	--	--
PB115N	44,000	120,000	390,000	920,000	659,330	260,845	150,949	199,919	205,226	224,905	1,256,912
PB119E	980,000	700,000	3,100,000	1,200,000	566,406	1,012,336	983,489	1,461,726	496,386	--	--
PB119NE	860,000	1,400,000	2,100,000	2,300,000	2,768,864	3,536,208	3,641,973	3,713,777	2,611,783	--	--
PB119SE	470,000	480,000	790,000	1,100,000	964,429	633,617	864,388	563,516	499,718	194,100	--
PB119W	71,000	45,000	38,000	42,000	41,277	17,816	11,327	808	4,680	--	--
PB135ER	1,700,000	2,400,000	3,700,000	3,800,000	2,315,972	1,182,744	820,610	1,818,093	1,723,355	1,243,010	1,574,593
PB136S	30,000	750,000	1,200,000	640,000	998,743	652,899	688,917	516,678	478,311	479,265	364,489
PL50N2	--	--	--	20,000	261,939	201,884	197,705	146,573	169,285	98,010	50,582
PL50N3	--	--	--	7,300	221,882	488,336	408,348	227,446	247,668	235,105	169,713
PL50NW3	--	--	--	220,000	2,426,891	1,862,707	1,311,292	869,167	556,899	724,221	367,447
PL50W	--	--	--	190,000	1,946,848	1,334,402	763,278	622,999	882,664	1,506,188	1,030,931
PB218N	--	--	--	--	1,033,459	2,524,201	2,155,336	1,782,108	2,182,780	1,741,571	947,410
PB329E2	--	--	--	--	--	--	--	960,509	1,429,625	1,553,221	1,530,904
PB349N	--	--	--	--	--	--	--	1,267,064	1,713,202	1,295,565	944,794
PB350NE2	--	--	--	--	1,916,144	4,970,240	4,524,716	3,962,716	5,022,512	3,056,354	2,672,765
PWRNW3	--	--	--	--	--	--	1,917,592	3,256,060	2,787,448	2,258,815	2,206,006
PL73N	--	--	--	--	--	--	--	2,402,028	19,347,120	16,816,042	13,694,890
PB350NW	--	--	--	--	--	--	--	--	--	982,757	1,432,503
PB319N	--	--	--	--	--	--	--	--	--	496,128	668,127
PB119ER	--	--	--	--	--	--	--	--	--	2,275,382	2,557,874
PB119NER	--	--	--	--	--	--	--	--	--	2,868,519	3,314,288
PB143NW	--	--	--	--	--	--	--	--	--	2,883,489	3,827,804
PL54W	--	--	--	--	--	--	--	--	--	1,095,447	662,196
PL54E	--	--	--	--	--	--	--	--	--	3,185,256	4,927,583
PL54NE	--	--	--	--	--	--	--	--	--	--	2,631,942
PL54NE2	--	--	--	--	--	--	--	--	--	--	2,501,077
PL41N	--	--	--	--	--	--	--	--	--	--	--
PL41S	--	--	--	--	--	--	--	--	--	--	--
PL42E	--	--	--	--	--	--	--	--	--	--	--
PL42W	--	--	--	--	--	--	--	--	--	--	--
PB323SE2	--	--	--	--	--	--	--	--	--	--	--
PB303SW	--	--	--	--	--	--	--	--	--	--	--
PB303W2	--	--	--	--	--	--	--	--	--	--	--
MIA-333 (M95)	--	--	--	--	--	--	--	--	--	--	--
PB307N3	--	--	--	--	--	--	--	--	--	--	--
PB307E2	--	--	--	--	--	--	--	--	--	--	--
PB322NE2	--	--	--	--	--	--	--	--	--	--	--
PB322NE4	--	--	--	--	--	--	--	--	--	--	--
TOTAL	**4,798,000**	**6,400,000**	**12,920,000**	**11,114,300**	**16,598,801**	**19,135,558**	**18,880,767**	**24,134,822**	**40,901,719**	**46,041,976**	**50,125,007**

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 3 Annual Groundwater Extraction Volumes - 1988 to 2018 (Gallons)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
PB53N2	479,490	534,364	534,654	818,117	633,988	762,354	712,835	739,313	737,324	761,768	875,301
PB54NW	56,580	49,960	440,146	460,126	293,407	380,190	365,558	381,201	355,768	364,147	1,597,504 (1)
PB54SE	32,678	342,829	356,347	129,432	182,864	177,621	190,275	163,752	175,461	184,622	218,768
PB57W	--	3,589	3,628	2,585	3,565	3,884	3,416	2,173	3,134	2,907	19,029
PB115N	226,800	240,480	423,293	607,664	183,656	159,608	167,027	148,281	161,962	149,887	94,670
PB119E	--	--	--	--	--	--	--	--	--	--	--
PB119NE	--	--	--	--	--	--	--	--	--	--	--
PB119SE	--	--	--	--	--	--	--	--	--	--	--
PB119W	--	--	--	--	--	--	--	--	--	--	--
PB135ER	3,159,722	3,758,331	4,565,976	4,087,584	3,187,073	2,363,554	2,288,284	2,365,621	2,362,449	2,317,769	3,631,966
PB136S	403,546	321,066	211,999	116,373	15,210	12,965	15,467	15,964	14,839	15,424	79,086
PL50N2	33,439	48,964	21,725	26,101	30,201	39,065	30,412	28,830	31,256	31,083	11,146
PL50N3	33,166	48,833	27,339	28,186	19,251	23,174	19,666	19,859	20,798	22,574	16,346
PL50NW3	601,661	1,287,587	747,727	502,628	255,412	244,351	288,056	264,748	273,207	274,494	126,338
PL50W	926,797	1,589,685	588,025	679,792	672,908	498,602	538,896	681,339	602,989	638,276	159,404
PB218N	1,393,007	1,097,199	1,212,259	1,619,503	1,737,570	2,072,878	1,910,862	1,880,298	1,975,760	1,933,643	1,373,621
PB329E2	1,285,934	2,132,181	1,945,825	1,935,262	1,639,342	1,859,235	1,823,499	1,918,330	1,848,044	1,819,600	1,655,272
PB349N	1,217,784	1,381,326	1,109,695	880,705	637,279	733,112	653,587	689,817	687,416	696,959	459,634
PB350NE2	2,122,187	4,382,135	5,657,907	4,295,250	3,252,147	3,831,813	2,836,998	2,735,721	2,990,357	2,959,370	2,251,590
PWRNW3	2,207,980	3,070,080	2,439,570	2,395,908	2,494,698	2,855,654	2,548,854	2,568,851	2,624,625	2,460,400	2,369,928
PL73N	6,890,311	5,865,811	6,020,704	6,777,203	6,595,636	9,288,368	9,418,492	7,879,900	8,839,818	8,808,474	6,846,013
PB350NW	1,462,796	1,959,415	2,332,131	1,916,435	1,620,928	2,033,178	1,603,136	1,426,011	1,625,106	1,554,129	870,498
PB319N	2,273,560	449,859	452,833	198,375	225,753	264,780	208,088	151,967	194,322	184,793	196,603
PB119ER	3,677,658	3,573,099	3,717,631	2,906,659	2,915,390	2,942,828	2,393,444	3,061,421	2,706,014	2,713,810	2,506,189
PB119NER	5,335,835	5,333,017	4,816,193	4,112,935	2,446,460	2,489,969	2,863,173	2,302,570	2,582,944	2,394,339	773,829
PB143NW	3,470,591	1,966,669	1,134,930	855,662	700,460	663,312	693,006	809,421	667,538	571,430	346,741
PL54W	2,038,270	1,889,229	1,177,282	1,112,706	479,017	536,478	473,102	755,111	626,422	723,180	700,403
PL54E	6,970,188	7,674,340	8,996,365	8,525,678	6,241,692	8,933,412	11,350,138	6,766,935	8,161,225	7,529,138	6,339,395
PL54NE	3,225,498	3,441,552	2,666,627	2,324,971	957,156	580,612	459,720	551,198	527,813	512,909	2,907,187
PL54NE2	3,676,141	4,053,574	4,166,237	4,872,393	3,534,160	2,612,529	3,488,319	3,767,021	3,440,760	3,589,449	6,032,970
PL41N	--	--	--	--	3,281,440	2,857,617	4,135,945	5,456,997	4,344,487	4,906,127	13,210,961
PL41S	--	--	--	--	3,233,012	2,736,056	3,693,618	4,354,380	3,720,322	4,028,035	8,394,502
PL42E	--	--	--	--	560,806	580,650	427,747	323,252	445,790	412,558	378,085
PL42W	--	--	--	--	443,556	569,392	416,237	351,027	422,715	374,877	490,103
PB323SE2	--	--	--	--	--	--	107,808	145,247	144,503	144,029	191,860
PB303SW	--	--	--	--	--	--	700,886	1,020,004	974,230	960,581	541,014
PB303W2	--	--	--	--	--	--	248,077	356,952	343,968	342,470	187,495
MIA-333 (M95)	--	--	--	--	--	--	--	--	--	--	29,079
PB307N3	--	--	--	--	--	--	--	--	--	--	--
PB307E2	--	--	--	--	--	--	--	--	--	--	--
PB322NE2	--	--	--	--	--	--	--	--	--	--	--
PB322NE4	--	--	--	--	--	--	--	--	--	--	--
TOTAL	**53,201,619**	**56,495,174**	**55,767,048**	**52,188,233**	**48,474,037**	**53,107,241**	**57,074,628**	**54,083,512**	**54,633,366**	**54,383,251**	**65,882,531**

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 3 Annual Groundwater Extraction Volumes - 1988 to 2018 (Gallons)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	2010	2011	2012	2013	2014	2015	2016	2017	2018
PB53N2	865,096	537,802	442,776	279,462	194,538	87,181	769,144	276,559	189,929
PB54NW	154,631	545,632	539,779	602,460	638,380	205,256	1,414,083	234,419	382,126
PB54SE	92,257	81,224	81,858	75,882	49,852	25,573	626,212	32,323	53,284
PB57W	17,711	16,256	9,934	11,065	10,817	8,903	9,154	9,368	8,381
PB115N	51,628	59,333	54,284	55,718	43,537	49,740	46,106	44,450	35,496
PB119E	--	--	--	--	--	--	--	--	--
PB119NE	--	--	--	--	--	--	--	--	--
PB119SE	--	--	--	--	--	--	--	--	--
PB119W	--	--	--	--	--	--	--	--	--
PB135ER	2,448,784	3,644,869	4,088,352	2,975,060	2,776,622	1,258,345	3,117,955	2,901,574	1,410,281
PB136S	152,685	139,262	135,006	153,232	114,058	87,508	126,800	139,683	244,498
PL50N2	8,513	12,333	13,096	13,188	24,435	16,081	128,235	28,624	25,504
PL50N3	25,043	25,474	21,022	23,200	123,042	97,968	428,387	104,125	85,497
PL50NW3	183,672	329,654	225,814	125,964	67,541	105,557	165,769	218,846	172,747
PL50W	143,974	163,942	122,321	81,377	72,259	72,955	156,476	104,117	39,294
PB218N	1,361,290	1,571,412	1,669,594	1,903,957	1,957,493	1,744,318	1,373,797	1,663,292	1,891,083
PB329E2	1,536,266	1,551,654	1,363,797	1,433,549	1,395,081	785,171	1,070,099	840,055	1,159,096
PB349N	442,860	433,253	402,038	617,814	353,359	343,167	537,776	554,379	479,048
PB350NE2	2,680,186	3,694,087	3,023,863	3,702,632	3,484,263	3,459,711	1,886,758	4,196,255	4,149,461
PWRNW3	2,288,099	2,208,320	2,085,452	2,125,197	2,120,897	1,664,752	1,594,377	1,980,143	1,153,091
PL73N	5,241,636	7,998,984	5,418,056	6,672,781	8,910,152	951,918	3,716,731	7,584,332	6,223,652
PB350NW	699,104	871,598	754,780	690,450	716,936	622,580	775,028	727,042	674,507
PB319N	255,318	250,461	182,919	246,947	438,420	134,406	165,726	142,511	53,881
PB119ER	2,224,013	2,244,063	2,191,227	2,127,150	1,884,174	350,549	892,200	1,268,700	952,628
PB119NER	522,066	987,799	1,644,712	1,694,582	1,605,674	1,331,530	1,670,158	1,034,743	1,338,682
PB143NW	335,560	163,799	287,732	205,507	131,384	42,776	77,456	76,099	19,022
PL54W	601,045	433,937	439,668	311,971	273,516	261,616	105,699	78,854	43,621
PL54E	4,242,242	3,391,300	2,779,679	1,421,870	3,585,396	2,738,310	2,461,076	2,540,112	2,182,091
PL54NE	1,048,081	2,430,502	899,930	1,547,974	1,913,607	1,166,110	948,969	2,048,652	2,136,802
PL54NE2	4,863,760	4,412,678	3,822,750	3,760,580	3,852,394	3,809,761	3,403,838	5,136,648	3,175,306
PL41N	13,188,211	17,102,330	16,686,979	15,611,969	12,338,991	1,933,860	10,049,136	16,936,829	17,282,548
PL41S	13,180,297	16,942,574	12,814,921	7,719,710	6,778,939	15,171,550	9,870,861	10,486,541	11,690,721
PL42E	400,015	494,143	361,880	338,031	335,184	370,125	312,910	382,046	329,316
PL42W	331,251	316,829	294,488	263,627	263,969	256,112	219,210	408,852	336,431
PB323SE2	162,433	145,895	137,764	129,947	125,120	120,282	121,588	129,314	113,076
PB303SW	530,017	282,908	370,126	184,315	152,534	161,677	176,705	55,441	31,564
PB303W2	170,410	129,035	101,526	107,730	124,240	69,946	72,236	92,056	109,019
MIA-333 (M95)	1,284,743	895,591	731,850	867,648	401,953	2,631	--	--	--
PB307N3	--	2,181,492	1,731,086	1,282,739	1,218,412	2,142,543	877,891	1,414,153	817,128
PB307E2	--	45,055	35,927	192,240	277,991	774,870	1,048,907	1,457,116	653,954
PB322NE2	--	21,889	13,293	11,517	12,301	12,035	12,710	11,740	13,683
PB322NE4	--	150,545	98,678	88,459	80,104	73,914	67,873	66,526	180,721
TOTAL	**61,732,897**	**76,907,916**	**66,078,956**	**59,657,501**	**58,847,565**	**42,511,287**	**50,498,036**	**65,406,519**	**59,837,169**

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 3 Annual Groundwater Extraction Volumes - 1988 to 2018 (Gallons)
Eastman Business Park Remediation Systems, Rochester, New York

Notes:
All values are in gallons
"--" System not yet commissioned, or system decommissioned

(1) Potentially anomalous volume in 2009 at PB54NW, based on volume at PB54NW for 2008 and 2010 (Kodak 2011).

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 4 Summary of Positive Analytical Results Groundwater Samples for Pumping Wells
Former Eastman Business Park, Rochester, New York

Analyte	Screening Criteria [1]	Notes	Location ID: PB115N Depth: 41 ft Date: 10/16/2018	PB119ER 45 ft 10/15/2018	PB119NER 44 ft 10/15/2018	PB136S 34 ft 10/17/2018	PB218N NA 10/15/2018	PB303SW 50 ft 1/16/2019	PB303W2 52 ft 10/17/2018	PB307E2 28 ft 10/15/2018	PB307N3 32 ft 10/15/2018	PB322NE2 52 ft 10/17/2018	PB322NE4 28 ft 10/17/2018	PB323SE2 46 ft 10/17/2018	PB329E2 47 ft 10/15/2018	PB349N 37 ft 10/18/2018	PB350NE2 NA 10/15/2018
Volatile Organics by Method SW8260C (µg/L)																	
1,1,1-Trichloroethane	5		160 U	**11 J**	1.6 U	33 U	0.82 U	330 U	0.82 UJ	4.1 U	0.82 U	410 U	1.6 U	100 U	1.6 U	0.82 U	0.82 U
1,1,2,2-Tetrachloroethane	5		42 U	0.21 U	0.42 U	8.4 U	0.21 U	84 U	0.21 UJ	1.1 U	0.21 U	110 U	0.42 U	26 U	0.42 U	0.21 U	0.21 U
1,1,2-Trichloroethane	1		46 U	**0.39 J**	0.46 U	9.2 U	0.23 U	92 U	0.23 UJ	1.2 U	0.23 U	120 U	0.46 U	29 U	0.46 U	0.23 U	0.23 U
1,1-Dichloroethane	5		76 U	**3.2**	0.76 U	15 U	0.38 U	150 U	**2.6 J**	1.9 U	0.38 U	190 U	0.76 U	48 U	0.76 U	0.38 U	0.38 U
1,1-Dichloroethene	5		58 U	**0.98 J**	0.58 U	12 U	0.29 U	120 U	0.29 UJ	1.5 U	**0.53 J**	150 U	0.58 U	36 U	0.58 U	0.29 U	0.29 U
1,1-Dimethoxyethane		N/A	320 U	1.6 U	3.2 U	64 U	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	0.6		**1800**	0.21 U	0.42 U	8.4 U	0.21 U	84 U	0.21 UJ	1.1 U	0.21 U	110 U	0.42 U	26 U	0.42 U	0.21 U	0.21 U
1,2-Dichloropropane	1		**1500**	0.72 U	1.4 U	**31 J**	0.72 U	290 U	0.72 UJ	3.6 U	0.72 U	360 U	1.4 U	90 U	1.4 U	0.72 U	0.72 U
2-Hexanone	50	G	250 U	1.2 U	2.5 U	50 U	1.2 U	500 U	1.2 UJ	6.2 U	1.2 U	620 U	2.5 U	160 U	2.5 U	1.2 U	1.2 U
Acetone	50	G	600 U	**10 J**	**76**	120 U	3.0 U	1200 U	**9.4 J**	**22 J**	**74**	1500 U	**11 J**	380 U	6.0 U	3.0 U	3.0 U
Acetonitrile		N/A	980 U	4.9 UJ	9.8 U	200 UJ	4.9 U	2000 U	4.9 UJ	25 U	**7.4 J**	2500 U	9.8 U	610 U	9.8 U	4.9 U	4.9 U
Benzene	1		**170 J**	**5.2**	0.82 U	**22 J**	0.41 U	160 U	0.41 UJ	2.1 U	**0.56 J**	210 U	0.82 U	51 U	0.82 U	0.41 U	0.41 U
Bromodichloromethane	50	G	78 U	0.39 U	0.78 U	16 U	0.39 U	160 U	0.39 UJ	2.0 U	0.39 U	200 U	0.78 U	49 U	0.78 U	0.39 U	0.39 U
Bromoform	50	G	52 U	0.26 U	0.52 U	10 U	0.26 U	100 U	0.26 UJ	1.3 U	0.26 U	130 U	0.52 U	33 U	0.52 U	0.26 U	0.26 U
Bromomethane	5		140 U	0.69 U	1.4 U	28 U	0.69 U	280 U	0.69 UJ	3.5 U	0.69 U	350 U	1.4 U	86 U	1.4 U	0.69 U	0.69 U
Carbon Disulfide	60	G	38 U	0.19 U	0.38 U	7.6 U	0.19 U	76 U	0.19 UJ	0.95 U	0.19 U	95 U	0.38 U	24 U	0.38 U	0.19 U	0.19 U
Carbon Tetrachloride	5		54 U	0.27 U	0.54 U	11 U	0.27 U	110 U	0.27 UJ	1.4 U	0.27 U	140 U	0.54 U	34 U	0.54 U	0.27 U	0.27 U
Chlorobenzene	5		**2100**	**4.4**	**22**	**200**	0.75 U	300 U	0.75 UJ	3.8 U	0.75 U	380 U	1.5 U	94 U	1.5 U	0.75 U	0.75 U
Chloroethane	5		64 U	0.32 U	0.64 U	13 U	0.32 U	130 U	0.32 UJ	1.6 U	**0.42 J**	160 U	0.64 U	40 U	0.64 U	0.32 U	0.32 U
Chloroform	7		68 U	0.34 U	0.68 U	14 U	0.34 U	140 U	0.34 UJ	1.7 U	0.34 U	170 U	0.68 U	43 U	0.68 U	0.34 U	**0.37 J**
Chloromethane	5		70 U	0.35 U	0.70 U	14 U	0.35 U	140 U	0.35 UJ	1.8 U	0.35 U	180 U	0.70 U	44 U	0.70 U	0.35 U	0.35 U
Cis-1,3-Dichloropropene	0.4		72 U	0.36 U	0.72 U	14 U	0.36 U	140 U	0.36 UJ	1.8 U	0.36 U	180 U	0.72 U	45 U	0.72 U	0.36 U	0.36 U
Cyclohexane		N/A	**6400**	0.18 U	0.36 U	**1200**	--	--	--	--	--	--	--	--	--	--	--
Cyclohexanone		N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	50	G	64 U	0.32 U	0.64 U	13 U	0.32 U	130 U	0.32 UJ	1.6 U	0.32 U	160 U	0.64 U	40 U	0.64 U	0.32 U	0.32 U
Dichloroethylenes	5		160 U	0.81 U	1.6 U	32 U	0.81 U	320 U	0.81 UJ	**51**	**74**	410 U	1.6 U	100 U	**1.6 J**	0.81 U	0.81 U
Diethyl Ether (Ethyl Ether)		N/A	140 U	**3.6**	1.4 U	29 U	--	--	--	--	--	--	--	--	--	--	--
Epichlorohydrin		N/A	1700 U	8.4 U	17 U	340 U	--	--	--	--	--	--	--	--	--	--	--
Ethyl Acetate		N/A	130 U	0.66 U	1.3 U	26 U	--	260 U	0.66 UJ	3.3 U	0.66 U	330 U	1.3 U	83 U	1.3 U	0.66 U	0.66 U
Ethylbenzene	5		**300**	0.74 U	1.5 U	**31 J**	0.74 U	**950**	0.74 UJ	3.7 U	0.74 U	370 U	1.5 U	**7400**	1.5 U	0.74 U	0.74 U
Isopropyl Ether		N/A	120 U	**2.5**	1.2 U	24 U	0.59 U	240 U	**1.2 J**	**290**	**1.7**	**23000**	**110**	74 U	**130**	0.59 U	0.59 U
Methyl Acetate		N/A	--	--	--	--	--	520 U	1.3 UJ	6.5 U	1.3 U	650 U	2.6 U	160 U	2.6 U	1.3 U	1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	G	260 U	**7.1 J**	**40**	53 U	1.3 U	530 U	1.3 UJ	6.6 U	1.3 U	660 U	2.6 U	170 U	2.6 U	1.3 U	1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		N/A	420 U	2.1 U	4.2 U	84 U	2.1 U	840 U	2.1 UJ	11 U	2.1 U	1100 U	4.2 U	260 U	4.2 U	2.1 U	2.1 U
Methylene Chloride	5		**13000**	**0.55 J**	0.88 U	**240**	0.44 U	180 U	0.44 UJ	2.2 U	0.44 U	**260 J**	0.88 U	**84 J**	**0.90 J**	0.44 U	0.44 U
N-Heptane		N/A	84 U	0.42 U	0.84 U	17 U	--	--	--	--	--	--	--	--	--	--	--
N-Hexane		N/A	80 U	0.40 U	0.80 U	16 U	--	160 UJ	0.40 UJ	2.0 U	0.40 U	200 U	0.80 U	50 U	0.80 U	0.40 U	0.40 U
Styrene	5		150 U	0.73 U	1.5 U	29 U	0.73 U	290 U	0.73 UJ	3.7 U	0.73 U	370 U	1.5 U	91 U	1.5 U	0.73 U	0.73 U
Tetrachloroethylene (PCE)	5		72 U	0.36 U	0.72 U	14 U	0.36 U	140 U	0.36 UJ	1.8 U	0.36 U	180 U	0.72 U	45 U	0.72 U	0.36 U	0.36 U
Tetrahydrofuran	50	G	250 U	**16**	**62**	50 U	1.3 U	500 U	1.3 UJ	6.3 U	1.3 U	630 U	2.5 U	160 U	2.5 U	1.3 U	1.3 U
Toluene	5		**7800**	0.51 U	1.0 U	20 U	0.51 U	**240 J**	0.51 UJ	2.6 U	0.51 U	260 U	1.0 U	64 U	1.0 U	0.51 U	0.51 U
Trans-1,3-Dichloropropene	0.4		74 U	0.37 U	0.74 U	15 U	0.37 U	150 U	0.37 UJ	1.9 U	0.37 U	190 U	0.74 U	46 U	0.74 U	0.37 U	0.37 U
Trichloroethylene (TCE)	5		92 U	0.46 U	0.92 U	18 U	0.46 U	180 U	0.46 UJ	2.3 U	0.46 U	230 U	0.92 U	58 U	0.92 U	0.46 U	0.46 U
Vinyl Acetate		N/A	170 U	0.85 U	1.7 U	34 U	0.85 U	340 U	0.85 UJ	4.3 U	0.85 U	430 U	1.7 U	110 U	1.7 U	0.85 U	0.85 U
Vinyl Chloride	2		180 U	**1.5**	1.8 U	36 U	0.90 U	360 U	0.90 UJ	**46**	**25**	450 U	1.8 U	110 U	**11**	0.90 U	0.90 U
Xylenes, Total	5		**2000**	0.66 U	1.3 U	**100**	0.66 U	**21000**	0.66 UJ	3.3 U	0.66 U	330 U	1.3 U	**36000**	1.3 U	0.66 U	0.66 U
Propylene Oxide		N/A	500 U	2.5 U	5.0 U	100 U	--	--	--	--	--	--	--	--	--	--	--
Volatile Organics by Method SW8270D SIM ID (µg/L)																	
1,4-Dioxane (p-Dioxane)	1	*	--	--	--	--	--	**640**	**110**	**0.33**	**0.45**	**2.2**	--	**39**	**7.1**	0.097 U	**19**
Total VOCs			**35000**	**66**	**200**	**1800**	**0**	**23000**	**120**	**410**	**180**	**23000**	**120**	**44000**	**150**	**0**	**19**

Key at end of table.

Table 4 Summary of Positive Analytical Results Groundwater Samples for Pumping Wells
Former Eastman Business Park, Rochester, New York

Analyte	Screening Criteria [1]	Notes	Location ID: / Depth: / Date: PB350NW 26 ft 10/15/2018	PB54NW 36 ft 10/15/2018	PB54SE 47 ft 10/15/2018	PB57W 47 ft 10/15/2018	PL41N 90 ft 10/15/2018	PL41S 89 ft 10/15/2018	PL42E 85 ft 10/15/2018	PL42W 85 ft 10/15/2018	PL50N2 71 ft 10/17/2018	PL50NW3 79 ft 10/17/2018	PL50W 76 ft 10/17/2018	PL54NE 45 ft 10/15/2018	PL54W 39 ft 1/16/2019	PL73N NA 10/18/2018
Volatile Organics by Method SW8260C (µg/L)																
1,1,1-Trichloroethane	5		0.82 U	8200 U	0.82 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	16000 UJ	0.82 UJ	0.82 U	0.82 U	**6.6**	0.82 UJ
1,1,2,2-Tetrachloroethane	5		0.21 U	2100 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	4200 UJ	0.21 UJ	0.21 U	0.21 U	0.84 U	0.21 U
1,1,2-Trichloroethane	1		0.23 U	2300 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	4600 UJ	0.23 UJ	0.23 U	0.23 U	0.92 U	0.23 U
1,1-Dichloroethane	5		0.38 U	3800 U	0.38 U	**2.9**	0.38 U	0.38 U	0.38 U	0.38 U	7600 UJ	0.38 UJ	0.38 U	**1.3**	**1.6 J**	0.38 U
1,1-Dichloroethene	5		0.29 U	2900 U	0.29 U	**8.7**	0.29 U	0.29 U	0.29 U	0.29 U	5800 UJ	0.29 UJ	0.29 U	0.29 U	1.2 U	0.29 U
1,1-Dimethoxyethane		N/A	--	--	--	--	--	--	--	--	32000 UJ	1.6 UJ	1.6 U	--	6.4 U	--
1,2-Dichloroethane	0.6		0.21 U	2100 U	0.21 U	**1.4 J**	0.21 U	0.21 U	0.21 U	0.21 U	**100000 J**	0.21 UJ	0.21 U	0.21 U	0.84 U	0.21 U
1,2-Dichloropropane	1		0.72 U	7200 U	**2.9**	**19**	0.72 U	0.72 U	0.72 U	0.72 U	**110000 J**	0.72 UJ	0.72 U	0.72 U	2.9 U	0.72 U
2-Hexanone	50	G	1.2 U	12000 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	1.2 U	25000 UJ	1.2 UJ	1.2 U	1.2 U	5.0 U	1.2 U
Acetone	50	G	3.0 U	30000 U	3.0 U	**28**	3.0 U	3.0 U	3.0 U	3.0 U	60000 UJ	3.0 UJ	3.0 U	3.0 U	12 U	3.0 U
Acetonitrile		N/A	4.9 U	--	--	--	--	--	--	--	98000 UJ	4.9 UJ	4.9 U	--	20 U	4.9 U
Benzene	1		0.41 U	4100 U	0.41 U	**1.1 J**	0.41 U	0.41 U	0.41 U	0.41 U	8200 UJ	0.41 UJ	0.41 U	0.41 U	1.6 U	0.41 UJ
Bromodichloromethane	50	G	0.39 U	3900 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.39 U	7800 UJ	0.39 UJ	0.39 U	0.39 U	1.6 U	0.39 U
Bromoform	50	G	0.26 U	2600 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	5200 UJ	0.26 UJ	0.26 U	0.26 U	1.0 U	0.26 U
Bromomethane	5		0.69 U	6900 U	0.69 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	14000 UJ	0.69 UJ	0.69 U	0.69 U	2.8 U	0.69 U
Carbon Disulfide	60	G	0.19 U	1900 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	3800 UJ	0.19 UJ	0.19 U	0.19 U	0.76 U	0.19 U
Carbon Tetrachloride	5		0.27 U	2700 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	5400 UJ	0.27 UJ	0.27 U	0.27 U	1.1 U	0.27 U
Chlorobenzene	5		0.75 U	7500 U	0.75 U	1.5 U	0.75 U	0.75 U	0.75 U	0.75 U	15000 UJ	**1.0 J**	0.75 U	0.75 U	3.0 U	0.75 U
Chloroethane	5		0.32 U	3200 U	0.32 U	0.64 U	0.32 U	0.32 U	0.32 U	0.32 U	6400 UJ	0.32 UJ	0.32 U	0.32 U	1.3 U	0.32 U
Chloroform	7		**2.0**	3400 U	0.34 U	0.68 U	**6.9**	**4.1**	0.34 U	0.34 U	6800 UJ	0.34 UJ	0.34 U	0.34 U	1.4 U	0.34 U
Chloromethane	5		0.35 U	3500 U	0.35 U	0.70 U	0.35 U	0.35 U	0.35 U	0.35 U	7000 UJ	0.35 UJ	0.35 U	0.35 U	1.4 U	0.35 U
Cis-1,3-Dichloropropene	0.4		0.36 U	3600 U	0.36 U	0.72 U	0.36 U	0.36 U	0.36 U	0.36 U	7200 UJ	0.36 UJ	0.36 U	0.36 U	1.4 U	0.36 U
Cyclohexane		N/A	--	**4800 J**	0.18 U	**62**	0.18 U	0.18 U	0.18 U	0.18 U	**7800 J**	0.18 UJ	0.18 U	0.18 U	0.72 UJ	--
Cyclohexanone		N/A	--	52000 U	5.2 U	10 U	5.2 U	5.2 U	5.2 U	5.2 U	--	--	--	5.2 U	--	--
Dibromochloromethane	50	G	0.32 U	3200 U	0.32 U	0.64 U	0.32 U	0.32 U	0.32 U	0.32 U	6400 UJ	0.32 UJ	0.32 U	0.32 U	1.3 U	0.32 UJ
Dichloroethylenes	5		0.81 U	8100 U	**1.0 J**	**72**	0.81 U	0.81 U	0.81 U	0.81 U	16000 UJ	0.81 UJ	**1.5 J**	**4.6**	**120**	**0.83 J**
Diethyl Ether (Ethyl Ether)		N/A	--	--	--	--	--	--	--	--	14000 UJ	**5.6 J**	**6.1**	--	2.9 U	--
Epichlorohydrin		N/A	--	--	--	--	--	--	--	--	170000 UJ	8.4 UJ	8.4 U	--	34 U	--
Ethyl Acetate		N/A	0.66 U	6600 U	0.66 U	1.3 U	0.66 U	0.66 U	0.66 U	0.66 U	13000 UJ	0.66 UJ	0.66 U	0.66 U	2.6 U	0.66 U
Ethylbenzene	5		0.74 U	7400 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	15000 UJ	0.74 UJ	0.74 U	0.74 U	3.0 U	0.74 U
Isopropyl Ether		N/A	0.59 U	--	--	--	--	--	--	--	12000 UJ	**3.2 J**	**4.2**	--	2.4 U	**7.4**
Methyl Acetate		N/A	1.3 U	--	--	--	--	--	--	--	--	--	--	--	--	1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	G	1.3 U	13000 U	1.3 U	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	26000 UJ	1.3 UJ	1.3 U	1.3 U	5.3 U	1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		N/A	2.1 U	21000 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	42000 UJ	2.1 UJ	2.1 U	2.1 U	8.4 U	2.1 U
Methylene Chloride	5		0.44 U	**530000**	**5.0**	**1.4 J**	0.44 U	0.44 U	0.44 U	**1.2**	**760000 J**	0.44 UJ	**0.57 J**	0.44 U	1.8 U	0.44 U
N-Heptane		N/A	--	4200 U	0.42 U	0.84 U	0.42 U	0.42 U	0.42 U	0.42 U	8400 UJ	0.42 UJ	0.42 U	0.42 U	1.7 U	--
N-Hexane		N/A	0.40 U	4000 U	0.40 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	8000 UJ	0.40 UJ	0.40 U	0.40 U	1.6 U	0.40 U
Styrene	5		0.73 U	7300 U	0.73 U	1.5 U	0.73 U	0.73 U	0.73 U	0.73 U	15000 UJ	0.73 UJ	0.73 U	0.73 U	2.9 U	0.73 U
Tetrachloroethylene (PCE)	5		0.36 U	3600 U	0.36 U	**1.3 J**	**0.40 J**	0.36 U	**0.61 J**	0.36 U	7200 UJ	0.36 UJ	0.36 U	0.36 U	**25**	0.36 U
Tetrahydrofuran	50	G	1.3 U	--	--	--	--	--	--	--	25000 UJ	1.3 UJ	1.3 U	--	5.0 U	1.3 U
Toluene	5		0.51 U	5100 U	0.51 U	1.0 U	0.51 U	0.51 U	0.51 U	0.51 U	10000 UJ	0.51 UJ	0.51 U	0.51 U	2.0 U	0.51 U
Trans-1,3-Dichloropropene	0.4		0.37 U	3700 U	0.37 U	0.74 U	0.37 U	0.37 U	0.37 U	0.37 U	7400 UJ	0.37 UJ	0.37 U	0.37 U	1.5 U	0.37 UJ
Trichloroethylene (TCE)	5		0.46 U	4600 U	0.46 U	**5.1**	0.46 U	0.46 U	0.46 U	0.46 U	9200 UJ	0.46 UJ	0.46 U	0.46 U	**33**	0.46 U
Vinyl Acetate		N/A	0.85 U	8500 U	0.85 U	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	17000 UJ	0.85 UJ	0.85 U	0.85 U	3.4 U	0.85 U
Vinyl Chloride	2		0.90 U	9000 U	0.90 U	**4.5**	0.90 U	0.90 U	0.90 U	0.90 U	18000 UJ	0.90 UJ	**2.0**	**6.6**	**6.5**	**1.1**
Xylenes, Total	5		0.66 U	6600 U	0.66 U	1.3 U	0.66 U	0.66 U	0.66 U	0.66 U	13000 UJ	0.66 UJ	0.66 U	0.66 U	2.6 U	0.66 UJ
Propylene Oxide		N/A	--	25000 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	50000 UJ	2.5 UJ	2.5 U	2.5 U	10 U	--
Volatile Organics by Method SW8270D SIM ID (µg/L)																
1,4-Dioxane (p-Dioxane)	1	*	**68**	--	--	--	--	--	--	--	--	--	--	--	--	**13**
Total VOCs			**70**	**530000**	**8.9**	**210**	**7.3**	**4.1**	**0.61**	**1.2**	**980000**	**9.8**	**14**	**13**	**190**	**22**

Key at end of table.

Table 4 Summary of Positive Analytical Results Groundwater Samples for Pumping Wells
Former Eastman Business Park, Rochester, New York

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

µg/L = Micrograms per liter

-- = Analyte not analyzed for

N/A = No data available

G = Guidance value (no standard available)

* = NYS Drinking Water Council MCL Recommendation

Notes:

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* , 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. Shaded cells exceed the screening value.

3. Bold values denote positive hits.

Key at end of table.

Table 5 Total Annual Contaminant Mass Extracted (Pounds)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
PB53N2	325	323	157	212	188	136	101	32	96	20	26	38	21	13	8	11
PB54NW	248	279	310	125	34	29	306	1,733	<1	<1	652	837	484	597	580	575
PB54SE	74	54	42	65	7	<1	3	3	<1	<1	10	1	12	1	33	0.1
PB57W	41	36	34	71	--	--	--	--	--	3	7	<1	0.07	0.03	0.5	0.1
PL41N	--	--	--	--	--	--	--	--	--	--	--	--	0.09	0.03	0.08	0.12
PL41S	--	--	--	--	--	--	--	--	--	--	--	--	<1	<1	0.05	0.07
PL42E	--	--	--	--	--	--	--	--	--	--	--	--	0.06	0.05	0.01	0.005
PL42W	--	--	--	--	--	--	--	--	--	--	--	--	0.03	0.01	0.01	0.03
PB115N	8,068	4,827	2,503	1,221	1,037	1,132	647	3,535	763	240	536	1,144	349	275	143	124
PB136S	1,105	1,379	505	238	603	107	65	17	62	23	10	15	0.4	0.2	2	0.2
PL50N2	147	2,216	1,354	462	325	219	13	9	198	12	19	79	265	329	211	93
PL50N3	7	18	6	2	1	<1	1	1	<1	<1	<1	2	0.04	0.06	2	0.02
PL50NW3	<1	48	6	2	1	1	2	<1	1	2	<1	84	0.1	0.1	29	0.1
PL50W	<1	2	<1	1	<1	1	2	1	<1	<1	<1	49	0.2	0.2	70	0.2
PB119ER	308	8	8	10	54	6	21	15	93	14	20	150	7	6	3	3
PB119NER	68	21	72	101	299	5	16	5	43	2	1	172	0.4	2	1	0.3
PB119SE	1	2	55	15	7	61	--	--	--	--	--	--	--	--	--	--
PB119W	3	2	1	<1	<1	<1	--	--	--	--	--	--	--	--	--	--
PB135ER	546	26	10	1	9	9	5	5	9	6	9	255	2	2	1	1
PB143NW	--	--	--	--	--	--	5	<1	14	<1	<1	428	0.2	0.03	0.03	0.03
PL54W	--	--	--	--	--	--	11	5	28	10	5	681	2	3	3	3
PL54E	--	--	--	--	--	--	2	166	429	4	7	82	3	3	2	0.5
PL54NE	--	--	--	--	--	--	--	7	4	5	4	271	2	1	3	1
PL54NE2	--	--	--	--	--	--	--	3	2	1	1	751	1	4	0.5	0.9
PB218N	--	3	2	6	2	2	2	1	<1	<1	<1	<1	0.6	0.3	0.1	0.1
PB329E2	--				1	2	4	4	<1	<1	<1	<1	0.04	<1	4	<1
PB349N	--				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PB350NE2	--	9	5	5	3	8	14	3	2	2	2	2	3	1	0.3	0.3
PB319N	--	--	--	--	--	--	<1	<1	<1	<1	<1	<1	0.1	0.01	0.003	0.003
PB350NW	--	--	--	--	--	--	5	6	3	<1	3	4	3	3	128	1
PWRNW3	--	--	--	1	2	2	1	2	2	3	3	2	2	1	1	1
PL73N	--	--	--	--	--	167	196	101	68	32	21	12	28	44	1,129	11
PB323SE2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2
PB303SW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28	1
PB303W2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	138	187
MIA-333 (M95)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB307N3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB307E2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB322NE2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB322NE4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB54NW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB54SE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PB57W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL41N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL41S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL42E	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL42W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL50N2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL50NW3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL50W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL54NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PL54W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	**10,941**	**9,253**	**5,070**	**2,538**	**2,573**	**1,887**	**1,422**	**5,654**	**1,817**	**379**	**1,336**	**5,059**	**1,186**	**1,286**	**2,523**	**1,017**

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 5 Total Annual Contaminant Mass Extracted (Pounds)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
PB53N2	3	86	47	32	0.05	4.1	0.1	0.029	0.025	0.000	0.15	--
PB54NW	496	1060	981 (1)	248	872	1010	1363	54	805	4130	782.45	1705.29
PB54SE	0.1	6	409	3	0.2	0.8	0.02	0.14	0.0029	0.458	0.05	0.004
PB57W	0.3	22	83	40	10	13	0.1	5.4	31	0.002	0.01	0.01
PL41N	1.7	530	436	468	207	137	0.3	0.24	0.028	0.435	0.99	1.05
PL41S	1.28	155	259	165	245	193	0.1	0.051	0.19	0.247	0.81	0.40
PL42E	0.02	16	8	6	16	3	0.01	0.0017	0.0015	0.001	0.02	0.002
PL42W	13	16	20	4	4	2	0.04	0.0060	0.023	0.002	0.03	0.003
PB115N	176	177	64	26	58	24	27	38	23	11	13.73	10.39
PB136S	0.3	0.2	1.9	6	3	2	2	1.4	2.1	1.909	6.32	3.72
PL50N2	101	34	55	24	44	33	33	62	0.047	941	227.15	208.09
PL50N3	0.02	0.02	0.01	0.3	0.1	0.02	0.003	0.0072	0.0072	0.044	0.01	--
PL50NW3	0.1	0.1	3.8	0.1	3.8	0.1	0.01	0.0058	0.016	0.022	0.03	0.01
PL50W	0.1	0.1	0.02	2	1	0.03	0.01	0.0084	0.0025	0.017	0.01	0.005
PB119ER	46	36	87	2	36	18	0.3	0.36	0.23	0.243	0.40	0.53
PB119NER	94	109	0.1	0.06	6	0.4	0.1	0.20	0.34	0.321	0.16	2.23
PB119SE	--	--	--	--	--	--	--	--	--	--	--	--
PB119W	--	--	--	--	--	--	--	--	--	--	--	--
PB135ER	29	1	1	25	13	33	0.2	0.17	0.048	0.099	0.28	--
PB143NW	0.02	0.03	0.01	3	7	2	0.004	0.0061	0.0009	0.001	0.00	--
PL54W	3	9	16	11	6	2	1	0.81	0.49	0.280	0.20	0.07
PL54E	2	0.3	0.3	146	121	23	0.2	0.66	0.0	0.552	0.09	--
PL54NE	1	13	3	5	25	8	1	1.0	0.25	0.408	0.91	0.22
PL54NE2	0.3	143	1	17	52	0.3	0.1	0.030	1.4	0.261	0.48	--
PB218N	0.05	0.1	0.5	0.09	0.09	0.14	0.01	0	0.0079	<1 (3)	0.01	0.00
PB329E2	<1	<1	<1	<1	0.03	<1 (3)	1.4	1.8	0.79	1.130	0.86	1.46
PB349N	6.7	<1	<1	<1	<1	<1 (3)	<1 (3)	<1 (3)	<1 (3)	<1 (3)	<1 (3)	0.00
PB350NE2	0.3	0.4	0.4	0.7	0.4	10.4	0.8	0.25	0.012	0.346	0.17	0.67
PB319N	0.002	0.007	0.004	0.01	0.9	0.01	0.01	0.028	0	0.064	0.01	--
PB350NW	2	1	0.3	0.3	3	2.9	0.3	0.21	0.0027	0.342	0.03	0.39
PWRNW3	0.8	0.6	0.5	0.6	0.5	0.5	0.4	0.43	0.049	0.316	0.71	--
PL73N	18	27	20	15	12	12	20	29	1.5	7.476	31.52	1.16
PB323SE2	1	1	1	0.4	0.9	1	0.1	0.12	0.013	0.060	0.09	41.07
PB303SW	1	0.1	10	6	3	4	0.8	0.48	0.25	0.233	0.01	6.01
PB303W2	49	71	63	47	22	18	19	22	15	14	15.41	0.11
MIA-333 (M95)	--	--	0.1	9	4	(2)	4	0.87	--	--	--	--
PB307N3	--	--	--	--	59.9	33	14	2.2	59	20.1	8.95	1.25
PB307E2	--	--	--	--	0.04	0.2	1	0.013	1.6	5.6	0.18	2.23
PB322NE2	--	--	--	--	4	2	3	3.1	3.0	2.3	2.06	2.66
PB322NE4	--	--	--	--	23	15	11	3.0	2.8	5.7	0.90	0.18
PB54NW	--	--	--	--	--	--	--	--	--	--	--	1705.29
PB54SE	--	--	--	--	--	--	--	--	--	--	--	0.004
PB57W	--	--	--	--	--	--	--	--	--	--	--	0.01
PL41N	--	--	--	--	--	--	--	--	--	--	--	1.05
PL41S	--	--	--	--	--	--	--	--	--	--	--	0.40
PL42E	--	--	--	--	--	--	--	--	--	--	--	0.002
PL42W	--	--	--	--	--	--	--	--	--	--	--	0.003
PL50N2	--	--	--	--	--	--	--	--	--	--	--	208.09
PL50NW3	--	--	--	--	--	--	--	--	--	--	--	0.01
PL50W	--	--	--	--	--	--	--	--	--	--	--	0.005
PL54NE	--	--	--	--	--	--	--	--	--	--	--	0.22
PL54W	--	--	--	--	--	--	--	--	--	--	--	0.07
TOTAL	**1,047**	**2,515**	**1,591**	**1,313**	**1,864**	**1,608**	**1,504**	**228**	**947**	**5,144**	**1,095**	**3,904**

Key at end of table.

Source: Ecology and Environment Engineering and Geology, P.C., 2019

Table 5 Total Annual Contaminant Mass Extracted (Pounds)
Eastman Business Park Remediation Systems, Rochester, New York

Pumping Well / System ID	1991	1992	1993	1994	1995	1996	1997	1998

Notes:

All units are in pounds; contaminant mass based on the sum of detected mass concentrations of volatile organics plus 1,4-dioxane in EBPM.

Data prior to 2015 obtained from Eastman Kodak Company.

"--" System not yet commissioned or system decommissioned

(1) Potential anomalous mass; the mass is calculated using the 2009 volume at PB54NW that is potentially anomalous based on 2008 and 2010 volumes at PB54NW (Kodak 2011).

(2) A sample was not collected from the M95 system in 2013 (system was down during sampling event).

(3) The sample results were non-detect at these locations; total extracted mass assumed <1 based on typical annual mass removal.

Source: Ecology and Environment Engineering and Geologly, P.C., 2019

Table 6 Analytical Results for 2018 M95 Area Wells,
Eastman Business Park Remediation Systems, Rochester, New York

Analyte	Screening Criteria [1]	Notes	Location: GB326SWR Depth: 33 - 53 ft Date: 9/7/2018	Location: PB326SW5 Depth: 5 - 25 ft Date: 9/7/2018	Location: PB326SW6 Depth: 7.5 - 27.5 ft Date: 9/7/2018	Location: SB326SW10 Depth: 24 ft Date: 9/7/2018	Location: SB326SW2 Depth: 9 - 14 ft Date: 9/7/2018	Location: SB326SW3 Depth: 10 - 15 ft Date: 9/7/2018	Location: SB326SW7 Depth: 23 ft Date: 9/7/2018
Volatile Organic Compounds by Method 8260C (µg/L)									
Acetone	50	G	3.0 U	300 U	**4.5 J**	**5.8 J**	6.0 U	**9.3 J**	1500 U
Benzene	1		0.41 U	41 U	0.41 U	**20**	0.82 U	0.41 U	210 U
Carbon Disulfide	60	G	0.19 U	19 U	0.19 U	0.19 U	0.38 U	**0.57 J**	95 U
Ethylbenzene	5		0.74 U	74 U	0.74 U	**6.5**	1.5 U	0.74 U	**790**
Methyl Ethyl Ketone (2-Butanone)	50	G	1.3 U	130 U	1.3 U	1.3 U	2.6 U	**2.6 J**	660 U
N-Hexane		N/A	0.40 U	**42 J**	0.40 U	0.40 U	0.80 U	0.40 U	200 U
Toluene	5		0.51 U	**530**	0.51 U	**47**	1.0 U	0.51 U	**1500**
Xylenes, Total	5		0.66 U	**4200**	0.66 U	**40**	1.3 U	0.66 U	**14000**
1,4-Dioxane by Method 8260C (µg/L)									
1,4-Dioxane (P-Dioxane)	1	*	--	--	--	--	19 U	9.3 U	--

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ= Estimated non-detect

Other

µg/L = Micrograms per liter

G = Guidance value (no standard available)

N/A = No standard or guidance value available.

* = NYS Drinking Water Council MCL Recommendation

Notes:

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.
2. Bold values denotes positive hits.
4. Shaded cells exceed NYSDEC groundwater standard or guidance value.

Source: Ecology and Environment Engineering and Geology, P.C. 2019

Table 7 WIA-EBPW North Fence-line Containment System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PL54W	2/1/2018	Popli reset set point from 202 KDAT to 199 KDAT
PL54NE	2/22/2018	Installed new pump and motor
PL54W, PL54NE & PB119ER	5/10/2018	Pressure transducer cleaned
PB135ER	5/17/2018	Circuit breaker tripped
PB135ER	6/7/2018	Needs new motor and pump
PB143NW, PL54E & PL54W	7/18/2018	RED Rochester cleaned system
PB143NW, PL54W & PL54E	8/16/2018	Needs new motor and pump, Popli to order replacements
PB135ER	9/6/2018	Replaced motor and pump, turned off - needs cleaning
PL54NE2 & PL54NE	9/20/2018	Circuit breaker tripped
PL54NE2	9/27/2018	Needs new motor and pump, Popli to order replacements
PB119NER	9/27/2018	Needs new counter, Popli to order replacement
PL54NE2, PL54NE, PB119NER, & PL54NE/NE2 Discharge Manhole	12/10/2018	National Vacuum cleaned system
PL54W, PL54E, PB143NW, PB135ER, & PB54NW	12/11/2018	National Vacuum cleaned system
PB143NW, & PL50W	12/12/2018	National Vacuum cleaned system

Table 8 Parking Lot 50 Migration Control System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PL50NW3	1/25/2018	Needs new pump and motor
PL50NW3	2/22/2018	Installed new pump and motor
PL50N3	9/27/2018	Installed new pressure transducer
PL50N3	12/14/2018	National Vacuum cleaned system
PL50N3	12/28/2018	Needs new pump and motor, Popli to order replacements

Table 9 Building 329/349 Area Remedial System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PB329E2	1/25/2018	Needs new pressure transducer
PB329E2	4/10/2018	Cleaned pressure transducer
PB329E2	6/7/2018	Fixed broken wire on pressure transducer

Table 10 Northern EBP-M Migration Control System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PB319N	1/25/2018	Needs new pressure transducer, Popli to order replacement
PB319N	2/1/2018	Circuit breaker reset
PB319N	4/10/2018	Cleaned pressure transducer
PB319N	8/9/2018	Installed new pressure transducer
PB319N	8/30/2018	Needs new motor
PB319N	12/13/2018	National Vacuum cleaned system, motor appears to be working - will continue to monitor for any issues

Table 11 MIA-301 (EBP-M) Groundwater Remediation System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PB303SW	1/11/2018	Not pumping, need to clean system
PB303SW	8/16/2018	Airline needs repairs
PB303SW	9/5/2018	Airline repaired
PB303SW	12/13/2018	National Vacuum cleaned system and discharge line, holes in discharge line - may need replacement

Table 12 Parking Lot 73 Remedial System Maintenance Activities

Pumping Well / System ID	Date	Description of Issue/Maintenance
PL73N	12/28/2018	Needs new motor and pump, Popli to order replacements

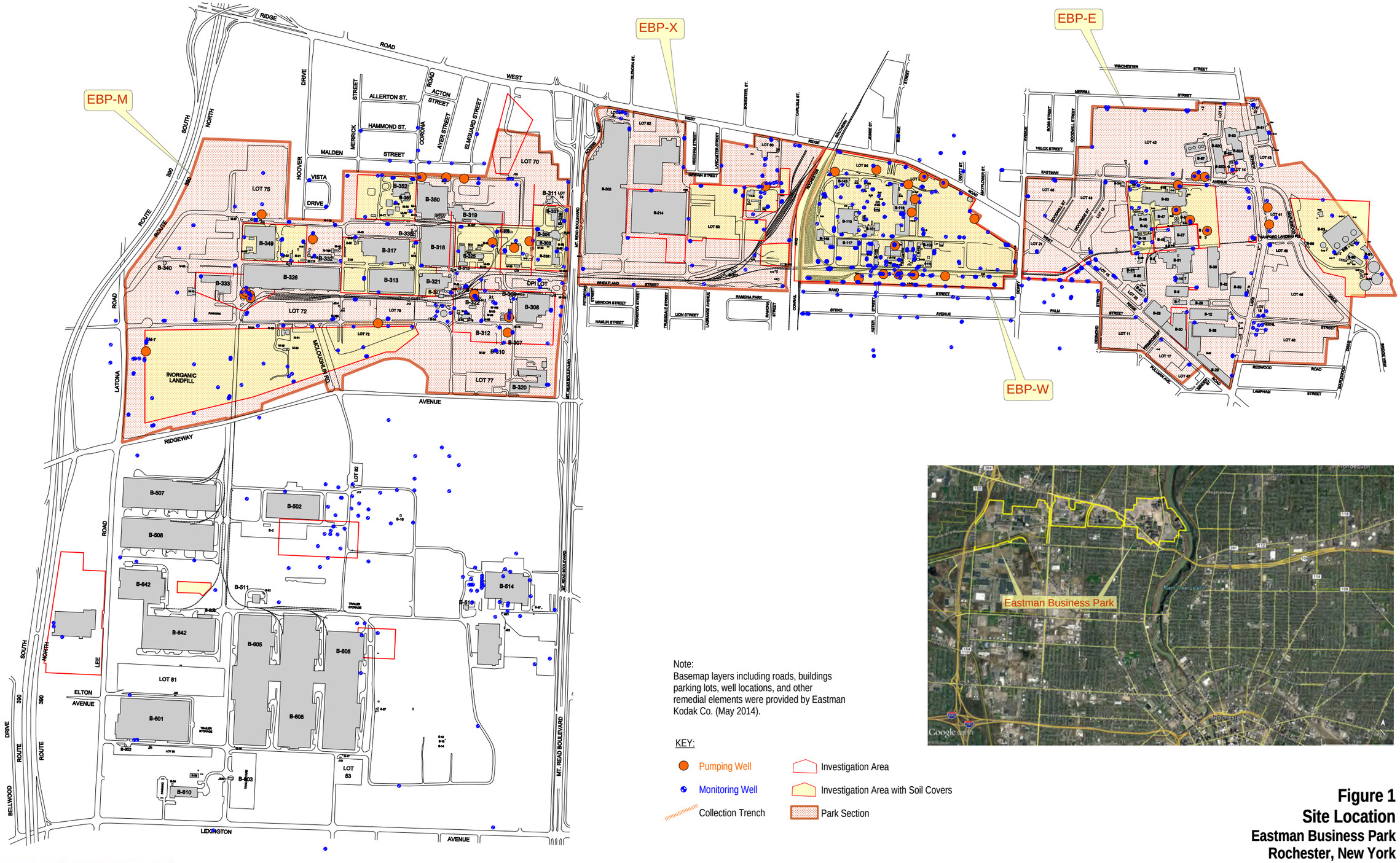
Table 13 Weiland Road Landfill Top of Rock Remedial System Maintenance

Pumping Well / System ID	Date	Description of Issue/ Maintenance
PWRNW3	8/2/2018	Needs new motor and pump
PWRNW3	9/6/2018	Replaced motor and pump
PWRNW3	9/14/2018	System off, possible electrical issue, will troubleshoot issue
PWRNW3	12/14/2018	National Vacuum cleaned system

Table 14 Maintenance Activities for Individual Systems

Pumping Well / System ID	Date	Description of Issue/Maintenance
PB307E2 & PB307N3	1/11/2018	Fixed discharge fitting
PB53N2	1/25/2018	Needs new motor
PB307N3	2/15/2018	Installed new counter
PB307N3	2/22/2018	Not pumping - need to clean system
PB53N2	2/22/2018	Installed new motor, pump, and pump controller
PB307N3	4/10/2018	Cleaned pump and discharge manhole
PB307N3	6/14/2018	Fixed air line
PB307N3	8/30/2018	Fixed air line
PB54NW	9/14/2018	Drain plugged - need cleaning
PB54NW	12/11/2018	National Vacuum cleaned system
PB307N3	12/13/2018	National Vacuum cleaned system
PB307E2	12/20/2018	Needs replacement air line, Popli to order replacement
PB53N2	12/20/2018	Needs new motor and pump, Popli to order replacements
PB54NW	12/28/2018	May need new counter - will monitor for issues
PB307E2, PB307N3 & PB54NW	Throughout the year	Jogged pumps to get them working - will monitor for any issues

Figures



Note:
Basemap layers including roads, buildings parking lots, well locations, and other remedial elements were provided by Eastman Kodak Co. (May 2014).

KEY:

- Pumping Well
- Monitoring Well
- Collection Trench
- Investigation Area
- Investigation Area with Soil Covers
- Park Section

Figure 1
Site Location
Eastman Business Park
Rochester, New York

Meters
0 175 350 525 700

N

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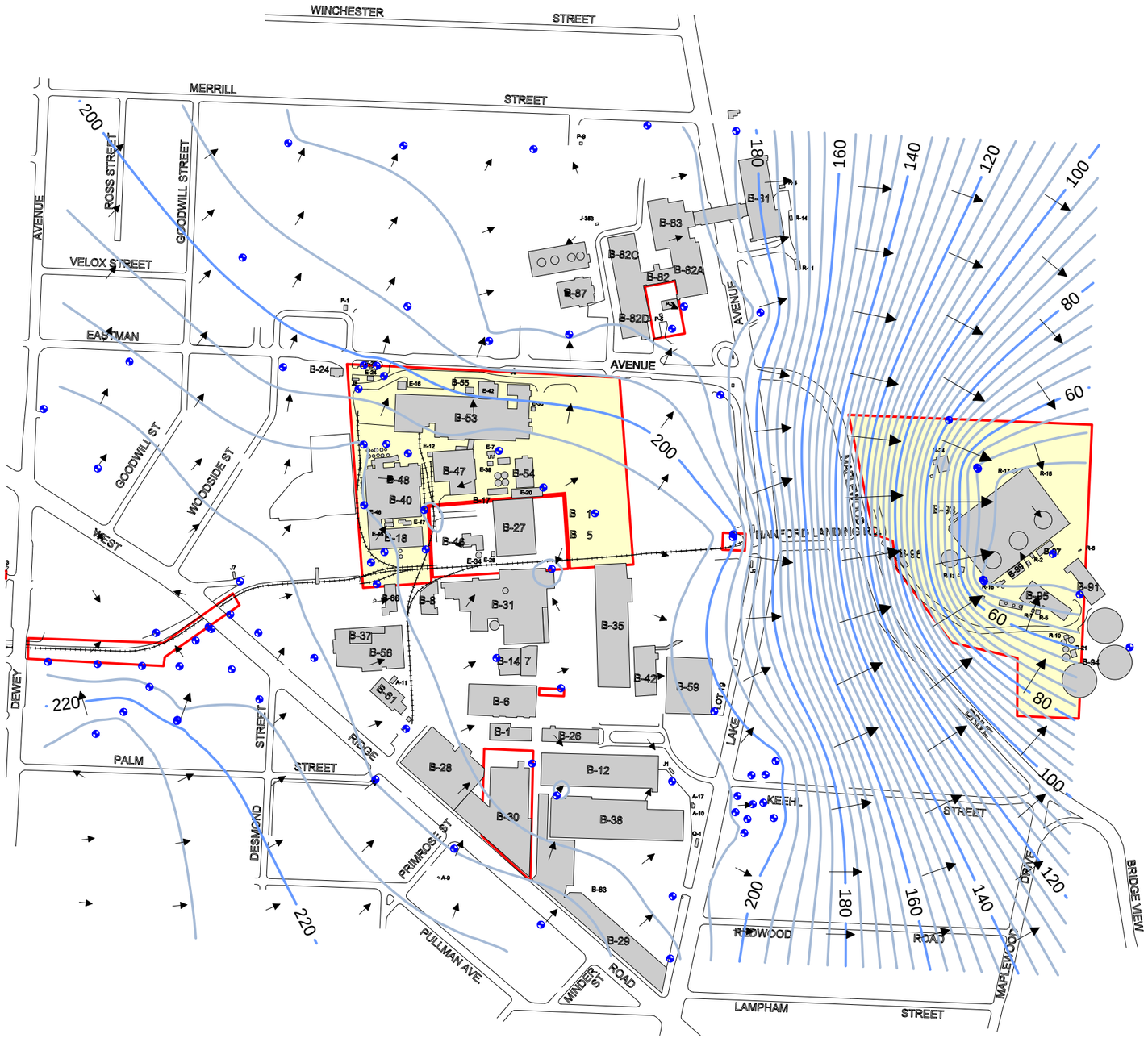

KEY:

- Monitoring Well
- 20 foot Contour Interval
- 4 foot Contour Interval
- Depression
- Investigation Area
- Investigation Area with Soil Covers
- Existing Building
- Groundwater Flow Direction

Notes:
1. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

2. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 2
EBP-E 2018 Overburden Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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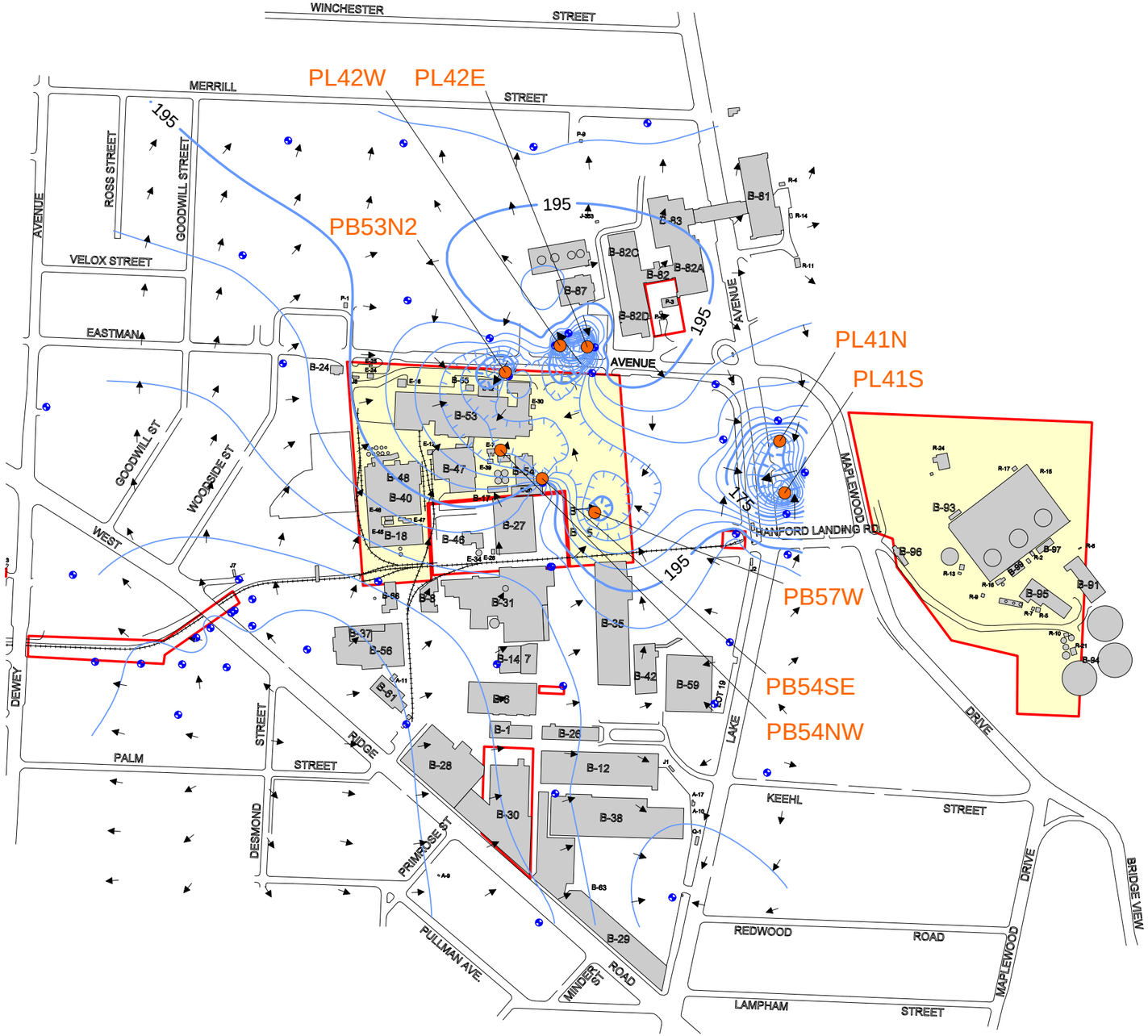

KEY:

- Monitoring Well
- Pumping Well
- 20 foot Contour Interval
- Investigation Area
- 4 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for all electric submersible pumping wells and other pneumatic pumping wells with the exception of PL41N. The average groundwater elevation during 2018 was used at PL41N becuase the groundwater elevation was consistently above the setpoint elevation through 2018.

2. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 3
EBP-E 2018 Top-of-Rock Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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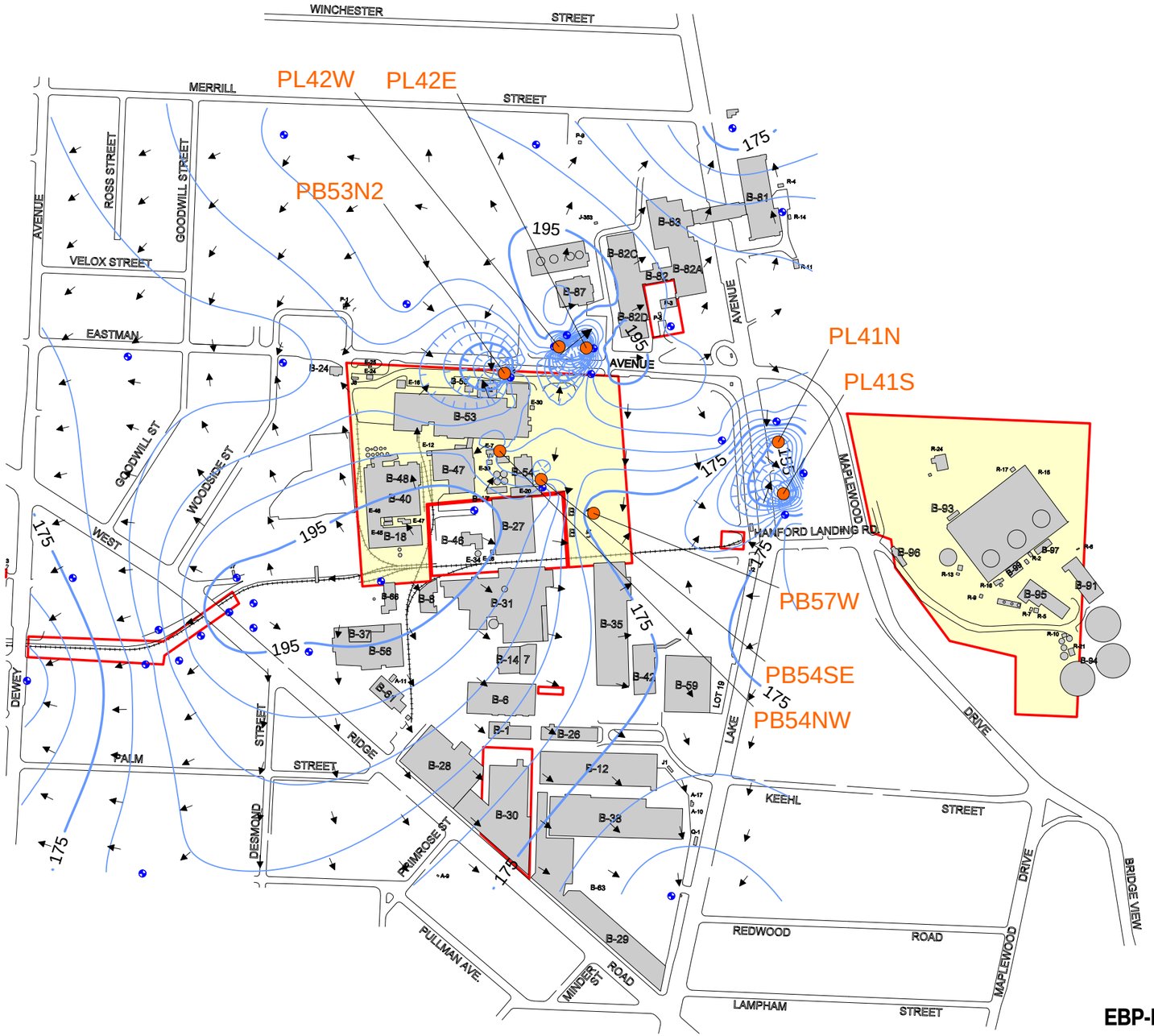

KEY:

- Monitoring Well
- Pumping Well
- 20 foot Contour Interval
- Investigation Area
- 4 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for all electric submersible pumping wells and other pneumatic pumping wells with the exception of PL41N. The average groundwater elevation during 2018 was used at PL41N becuase the groundwater elevation was consistently above the setpoint elevation through 2018.

2. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 4
EBP-E 2018 Grimsby-Queenston Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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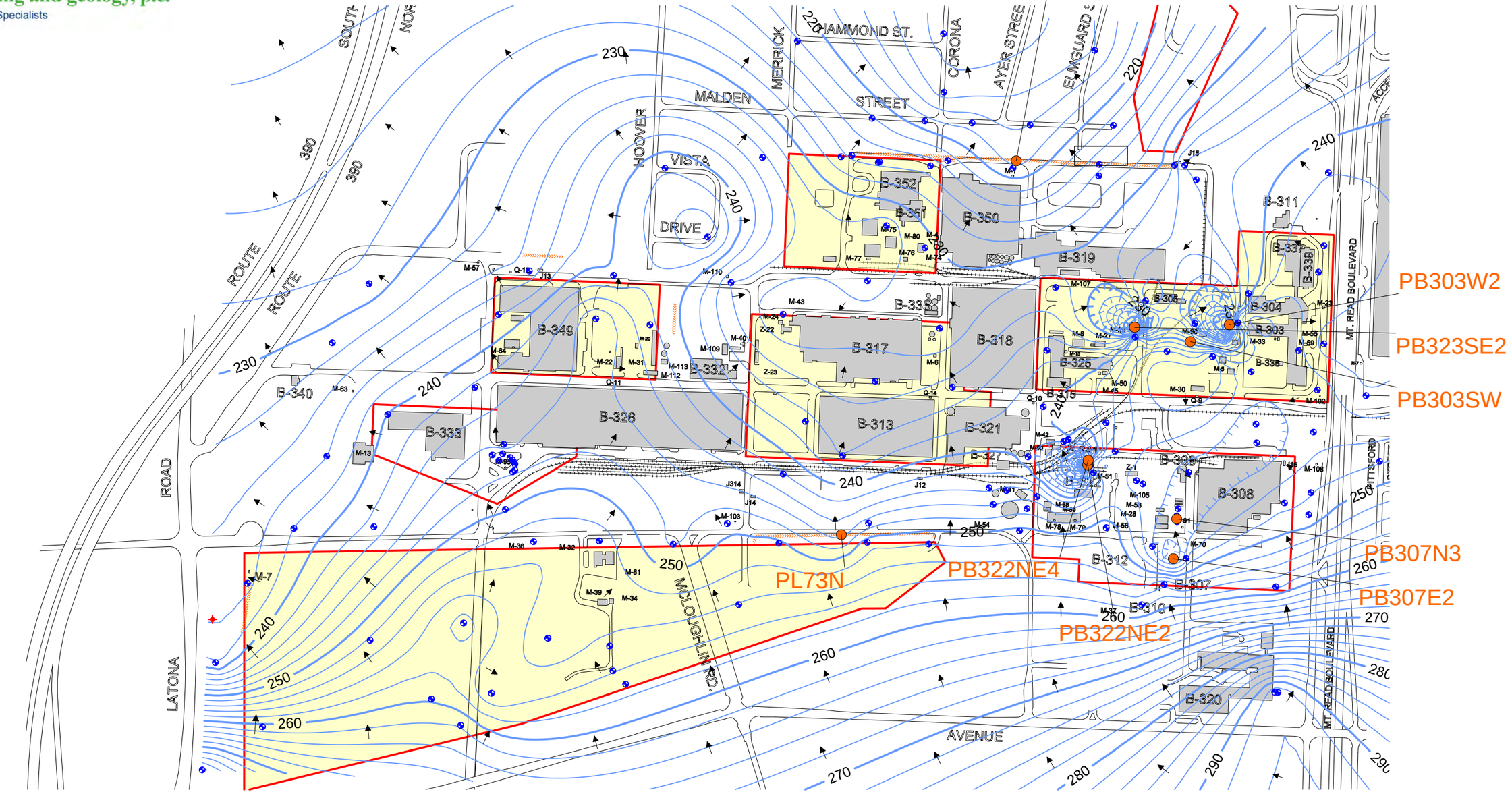

KEY:

- Monitoring Well
- 10 foot Contour Interval
- 2 foot Contour Interval
- Depression
- Collection Trench
- Leachate Manhole
- Pumping Well
- Investigation Area
- Investigation Area with Soil Covers
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for pumping wells PB323SE2, PB303W2, PB350NW, PB349N, PB350NE2, and PL73N. The average groundwater elevations for 2018 are used at pumping wells PB3329E2 and PB319N. The groundwater elevations at pneumatic pumping well PB307N3 is the groundwater elevation manually recorded in January 2019. Groundwater elevations for pneumatic pumping wells PB307E2, PB322NE2, and PB322NE4 are based on the top of pump elevation manually recorded in January 2019. The pneumatic pumps at these locations are capable of sustainaing a groundwater elevation at the top of the pump.

2.Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 5
EBP-M 2018 Overburden Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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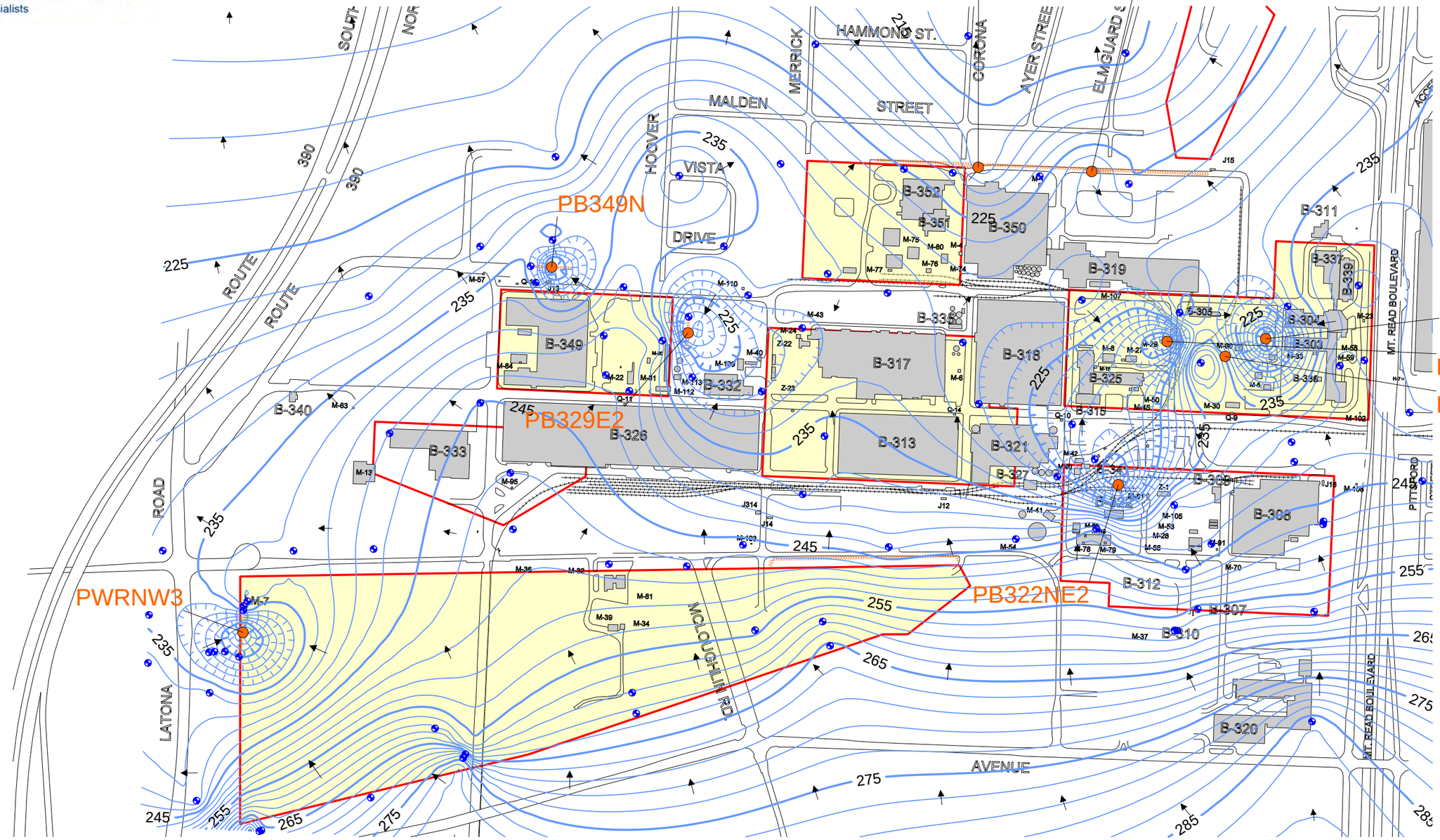

KEY:

- Monitoring Well
- Pumping Well
- 10 foot Contour Interval
- Investigation Area
- 2 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Collection Trench
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for pumping wells PB323SE2, PB303W2, PB350NW, PB349N, PB350NE2, and PL73N. The average groundwater elevations for 2018 are used at pumping wells PB3329E2 and PB319N. The groundwater elevations at pneumatic pumping well PB307N3 is the groundwater elevation manually recorded in January 2019. Groundwater elevations for pneumatic pumping wells PB307E2, PB322NE2, and PB322NE4 are based on the top of pump elevation manually recorded in January 2019. The pneumatic pumps at these locations are capable of sustainaing a groundwater elevation at the top of the pump.

2.Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 6
EBP-M 2018 Top-of-Rock Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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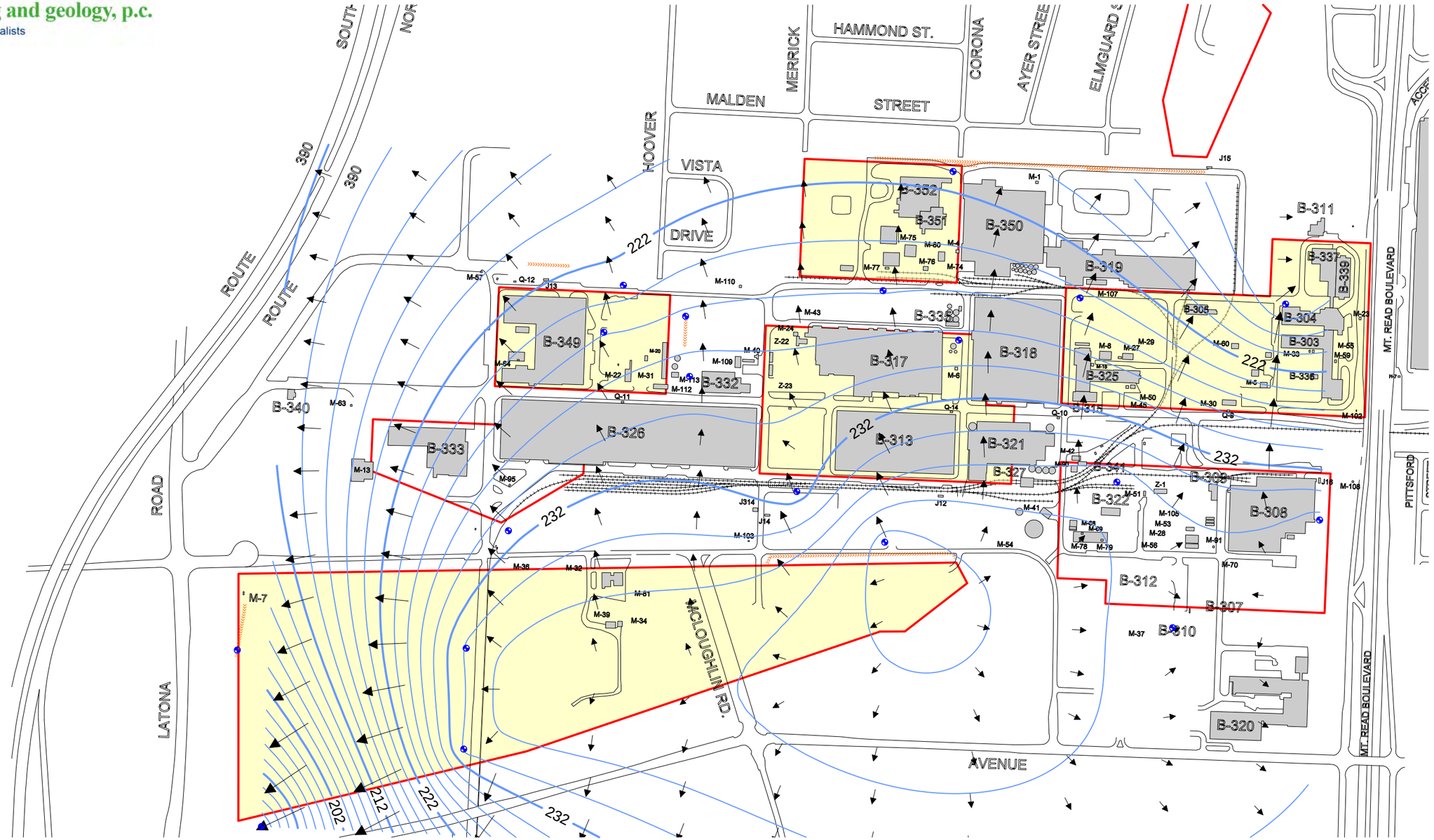

KEY:

- Monitoring Well
- Pumping Well
- 10 foot Contour Interval
- Investigation Area
- 2 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Collection Trench
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for pumping wells PB323SE2, PB303W2, PB350NW, PB349N, PB350NE2, and PL73N. The average groundwater elevations for 2018 are used at pumping wells PB3329E2 and PB319N. The groundwater elevations at pneumatic pumping well PB307N3 is the groundwater elevation manually recorded in January 2019. Groundwater elevations for pneumatic pumping wells PB307E2, PB322NE2, and PB322NE4 are based on the top of pump elevation manually recorded in January 2019. The pneumatic pumps at these locations are capable of sustainaing a groundwater elevation at the top of the pump.

2.Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 7
EBP-M 2018 Grimsby-Queenston Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 150 300 450
N

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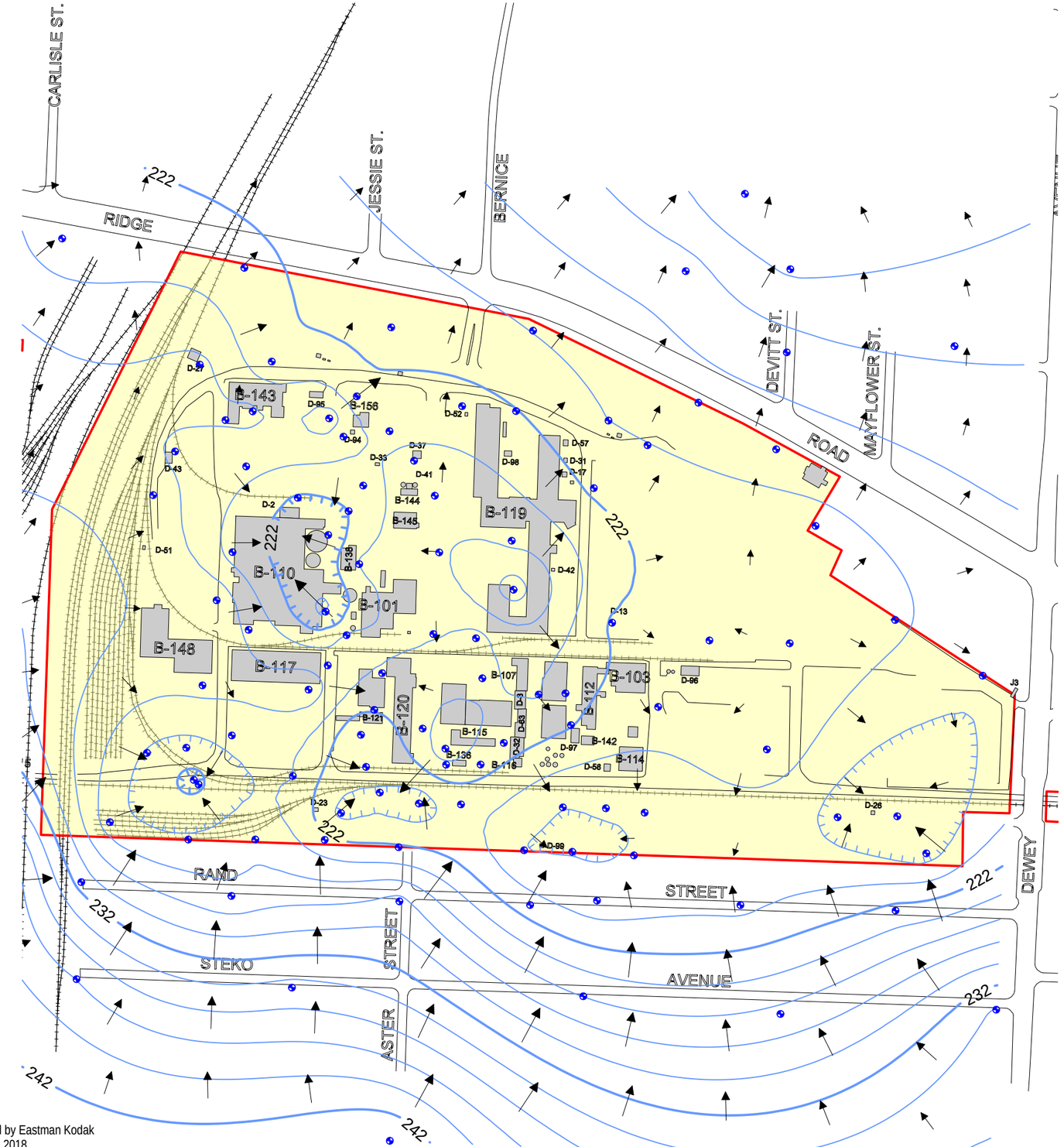

KEY:

- Monitoring Well
- 10 foot Contour Interval
- 2 foot Contour Interval
- Depression
- Investigation Area
- Investigation Area with Soil Covers
- Existing Building
- Groundwater Flow Direction

Notes:
1. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

2. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 8
EBP-W 2018 Overburden Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 100 200 300
N

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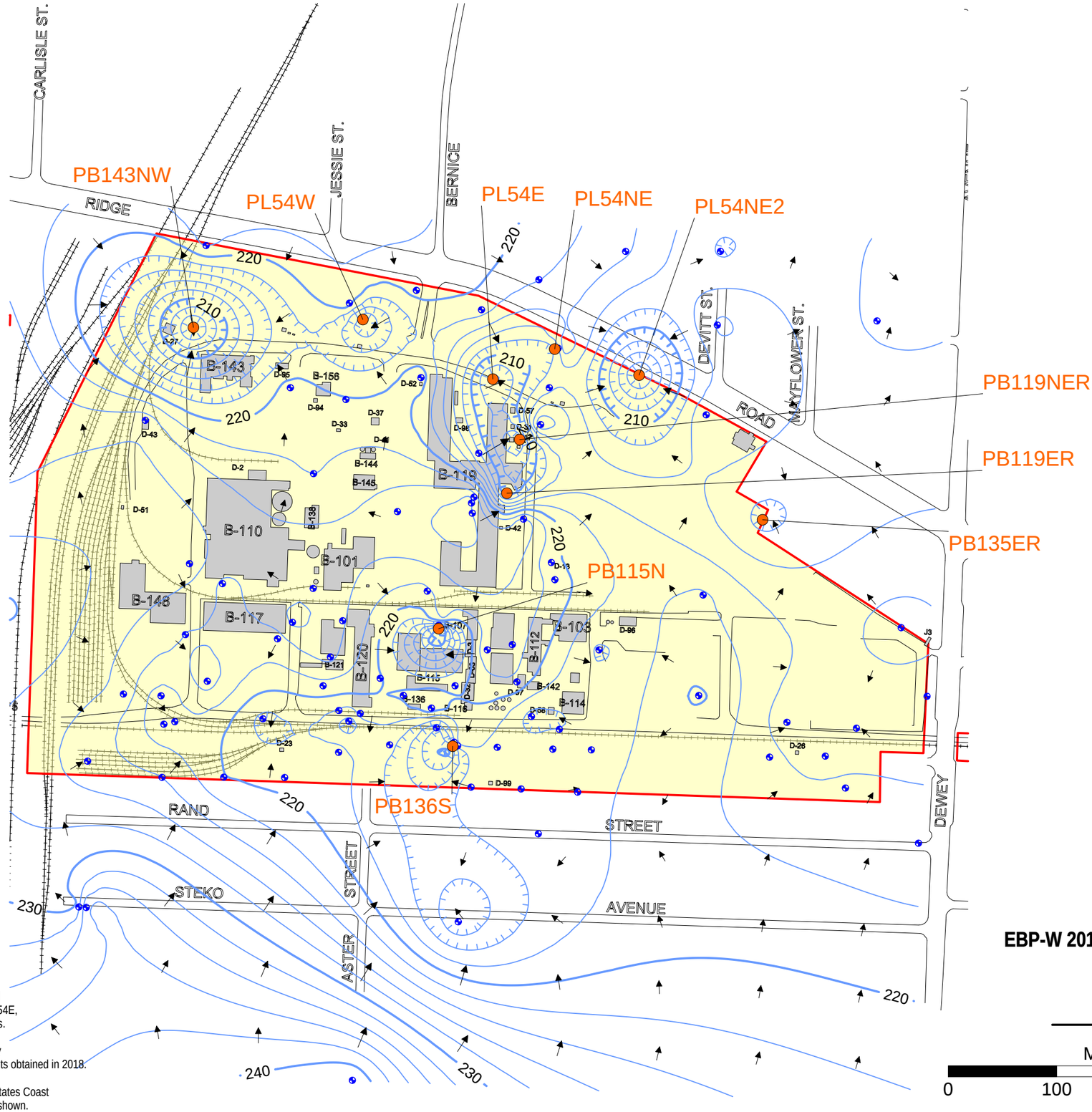

KEY:

- Monitoring Well
- Pumping Well
- 10 foot Contour Interval
- Investigation Area
- 2 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for all electric submersible pumping wells and other pneumatic pumping wells with the exceptions of PB119ER, PB119NER, PL50N3, PL54E, PL54NE, and PL54W. The average groundwater levels for 2018 are used at these locations.

2. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 9
EBP-W 2018 Top-of-Rock Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 100 200 300
N

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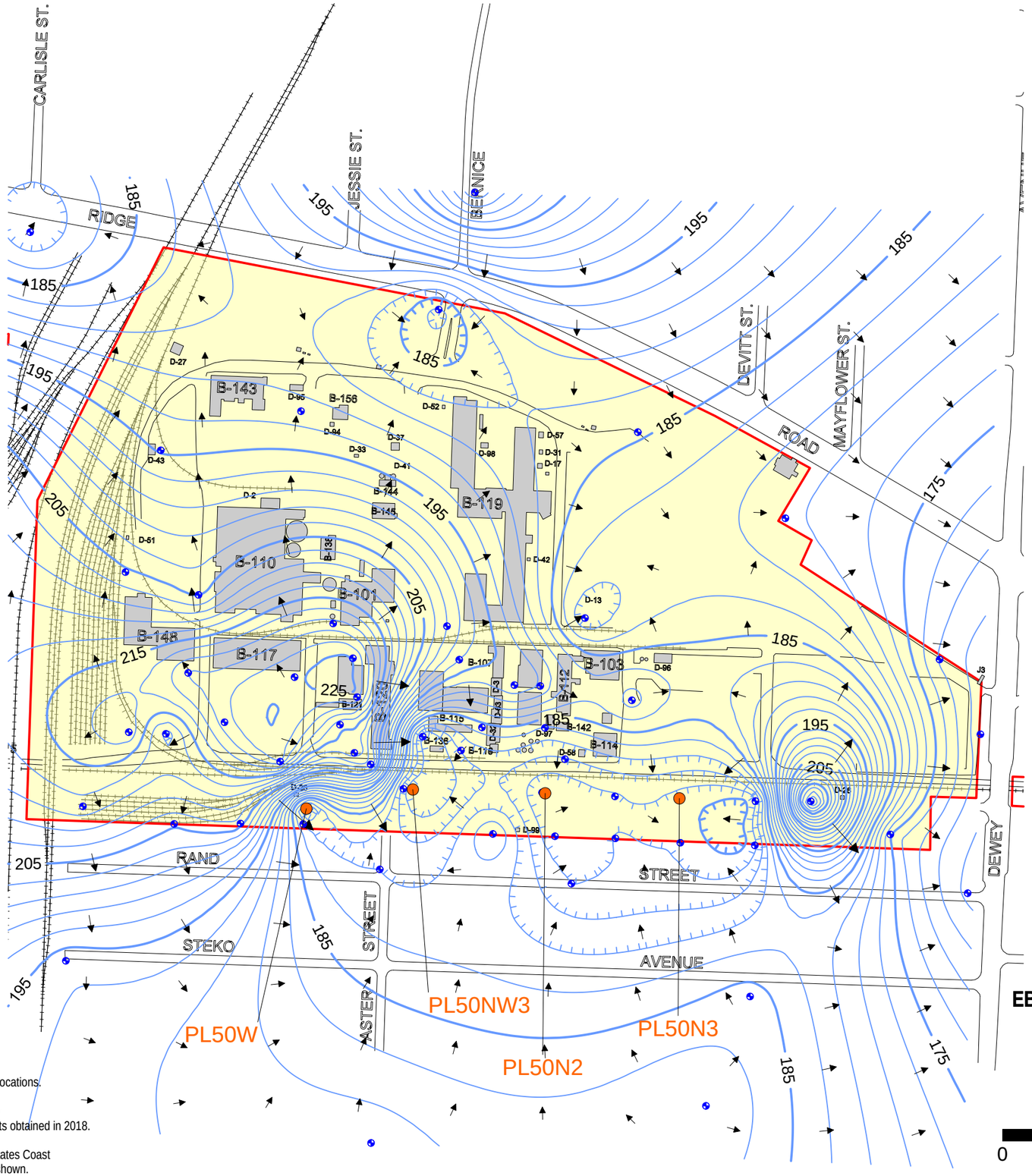

KEY:

- Monitoring Well
- Pumping Well
- 10 foot Contour Interval
- Investigation Area
- 2 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for all electric submersible pumping wells and other pneumatic pumping wells with the exceptions of PB119ER, PB119NER, PL50N3, PL54E, PL54NE, and PL54W. The average groundwater levels for 2018 are used at these locations.

2. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 10
EBP-W 2018 Grimsby-Queenston Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 100 200 300
N

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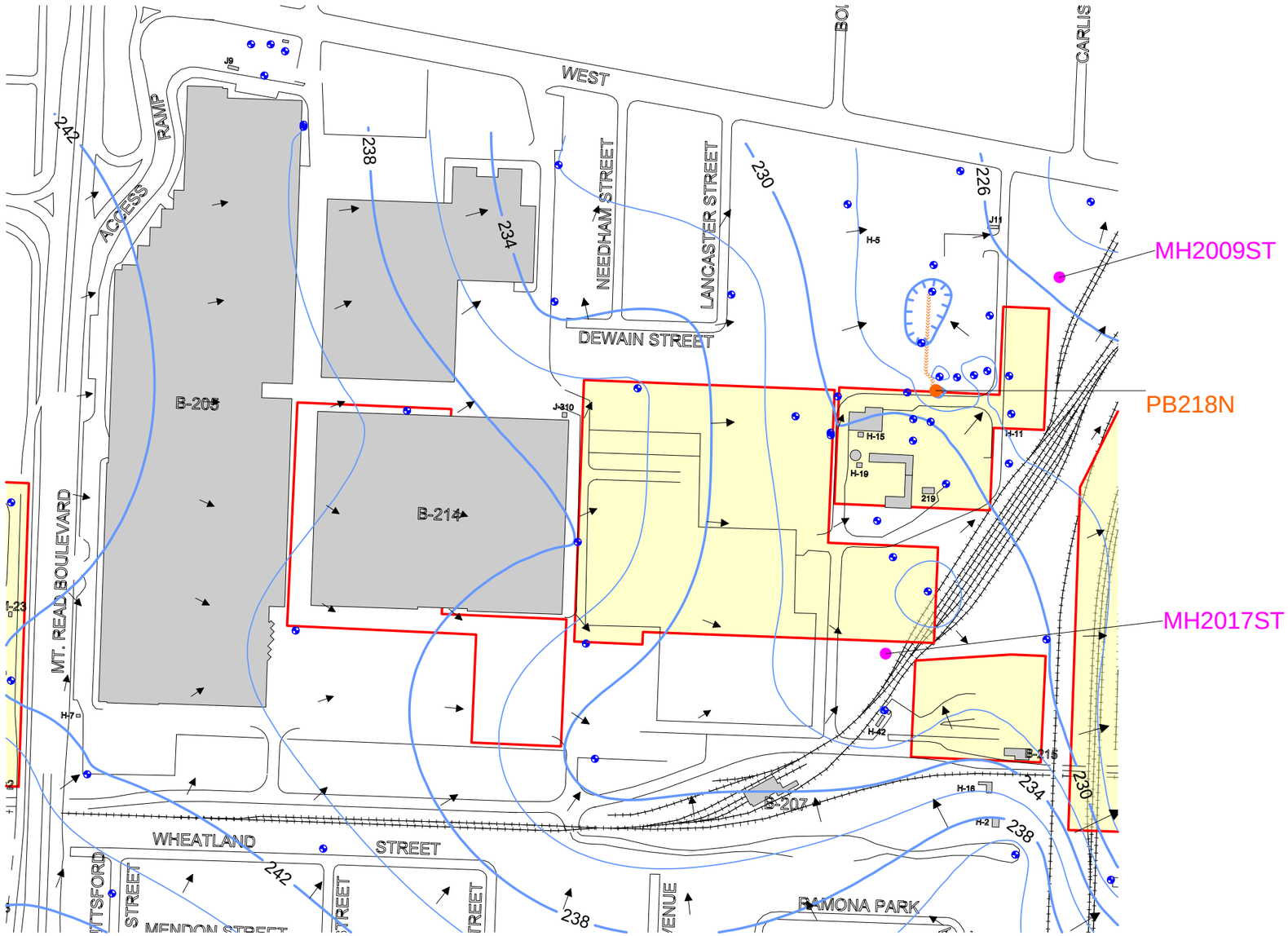

KEY:

- Manhole
- Monitoring Well
- 10 foot Contour Interval
- 2 foot Contour Interval
- Depression
- Collection Trench
- Pumping Well
- Investigation Area
- Investigation Area with Soil Covers
- Existing Building
- Groundwater Flow Direction

Notes:
1. Pumping well setpoint elevations are used for pumping well PB218N

2. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

3. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 11
EBP-X 2018 Overburden Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 100 200 300
N

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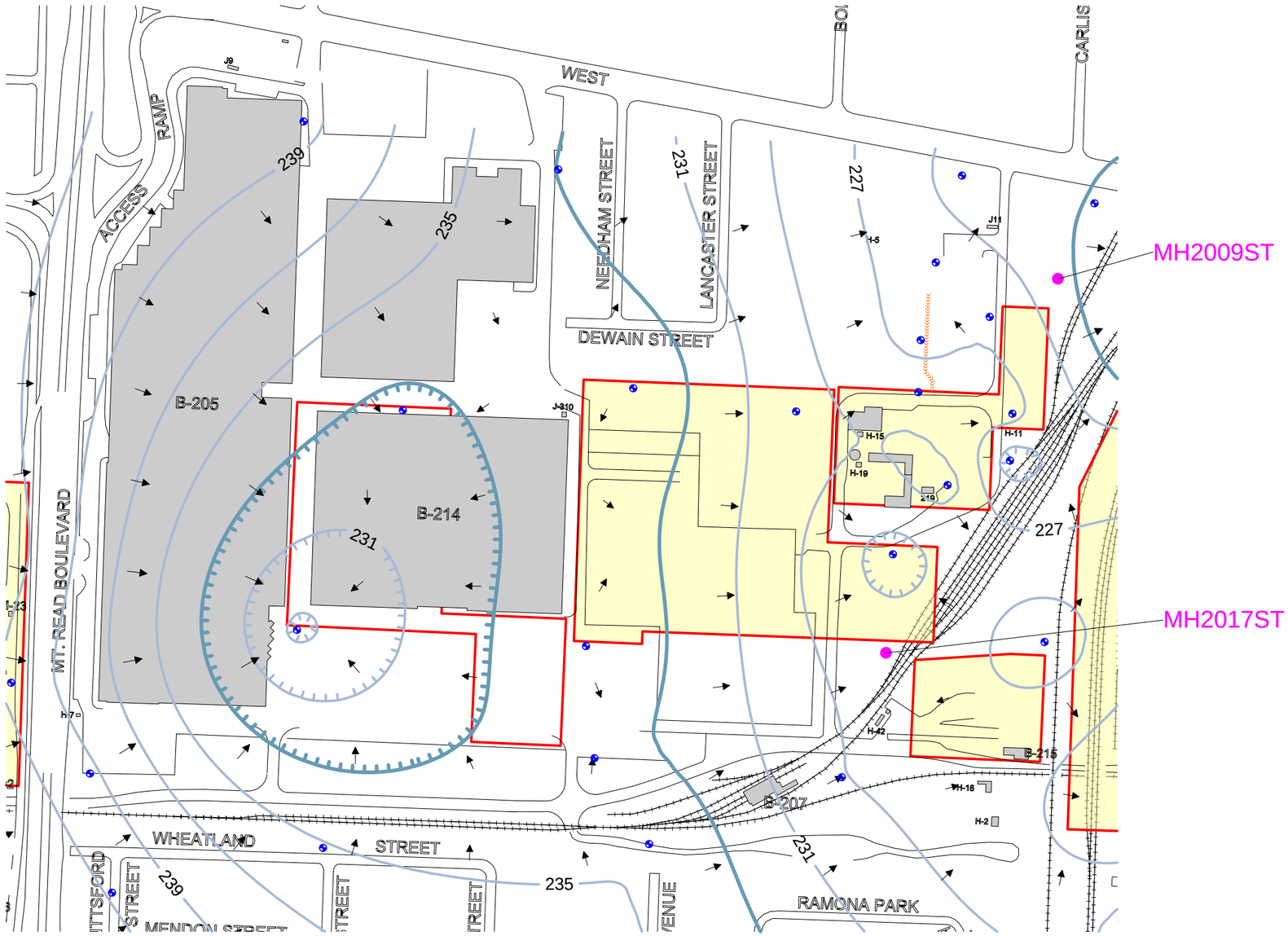
engineering and geology, p.c.
Environmental Specialists



KEY:

- Manhole
- Monitoring Well
- 10 foot Contour Interval
- 2 foot Contour Interval
- Depression
- Collection Trench
- Pumping Well
- Investigation Area
- Investigation Area with Soil Covers
- Existing Building
- Groundwater Flow Direction

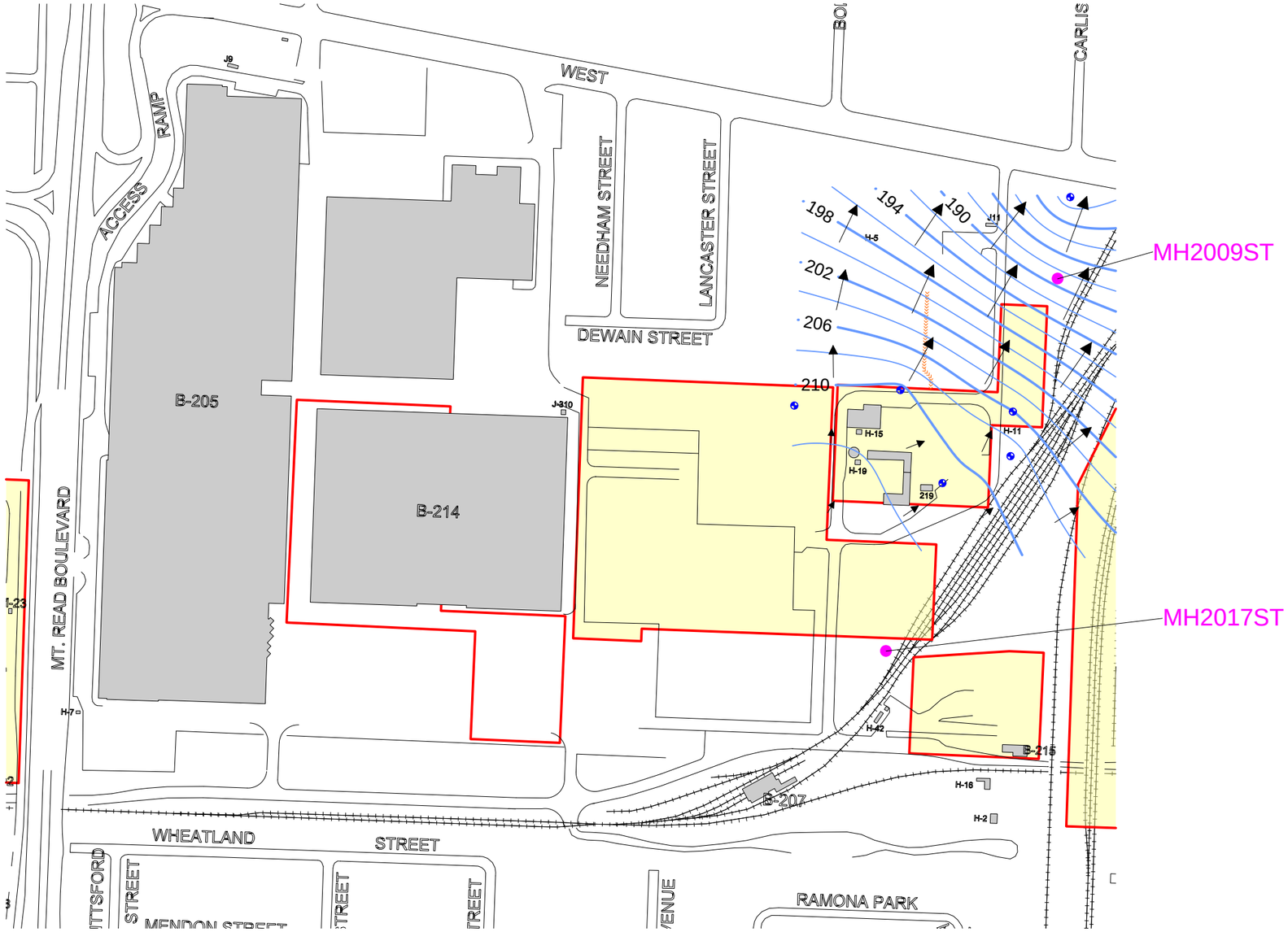
Notes:
1. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

2. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 12
EBP-X 2018 Top-of-Rock Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

Meters
0 100 200 300
N

ecology and environment
engineering and geology, p.c.
Environmental Specialists



KEY:

- Monitoring Well
- Manhole
- 10 foot Contour Interval
- Investigation Area
- 2 foot Contour Interval
- Investigation Area with Soil Covers
- Depression
- Existing Building
- Collection Trench
- Groundwater Flow Direction

Notes:
1. Well Locations, elevation data, trench locations, and basemap features were provided by Eastman Kodak Company. Contours were created by E & E using water level measurements obtained in 2018.

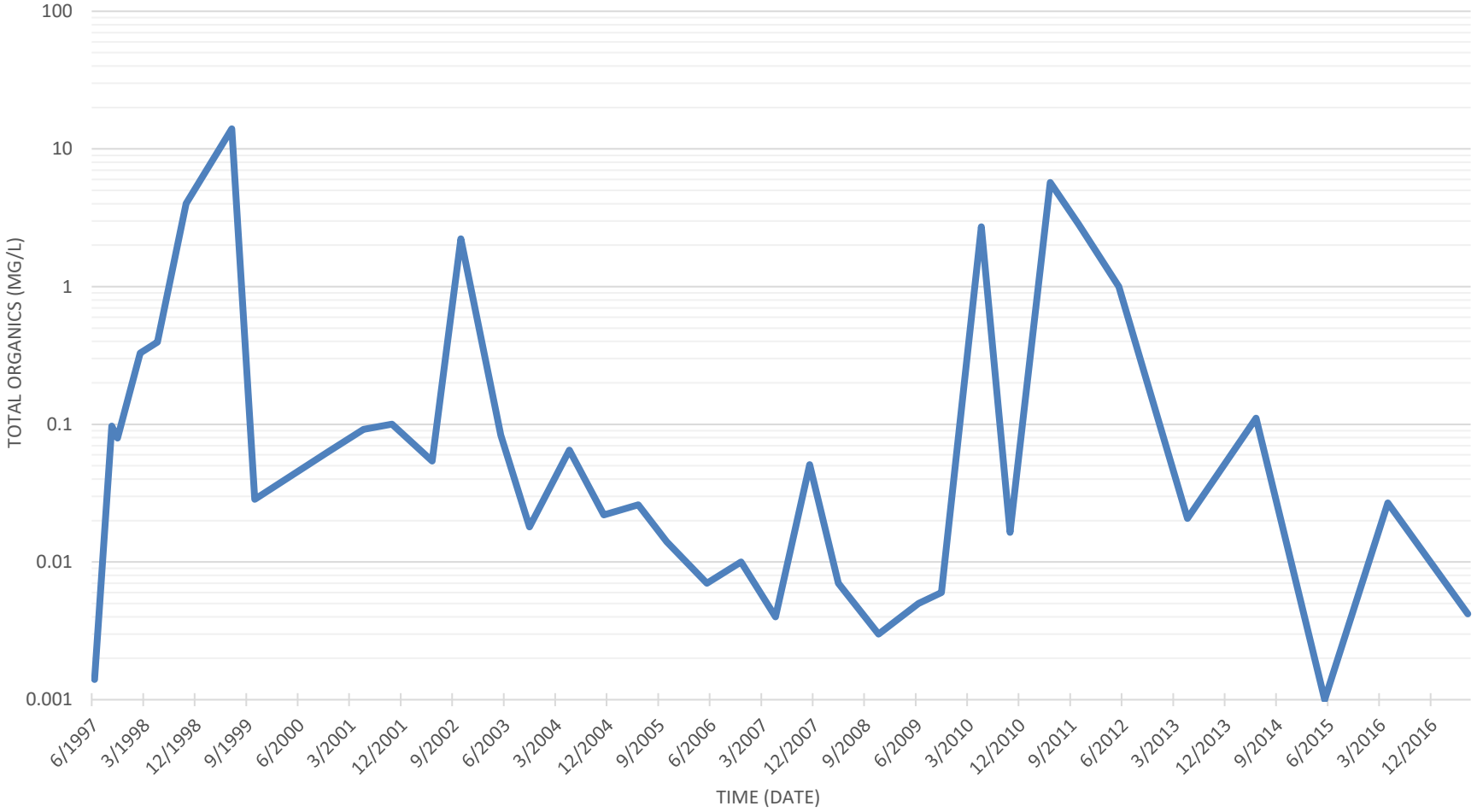
2. All elevations are based on the Kodak Park Datum, which can be referenced to United States Coast Guard and National Geodetic Survey Datum (1911) by adding 201.75 feet to the elevation shown.

Figure 13
EBP-X 2018 Grimsby-Queenston Groundwater Potentiometric Surface
Eastman Business Park
Rochester, New York

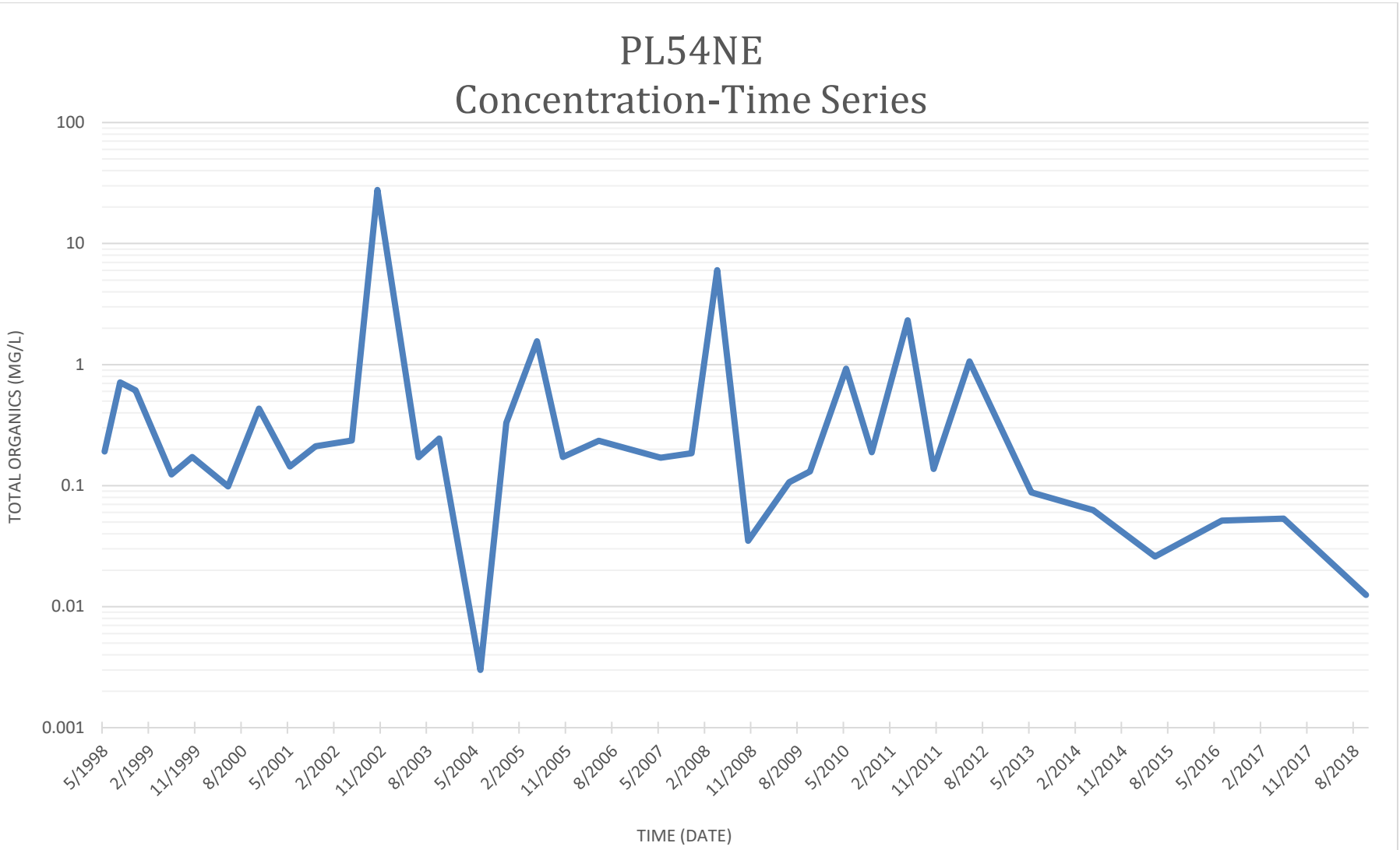
Meters
0 100 200 300
N

A Concentration-Time Series Plots

PL54E
Concentration-Time Series

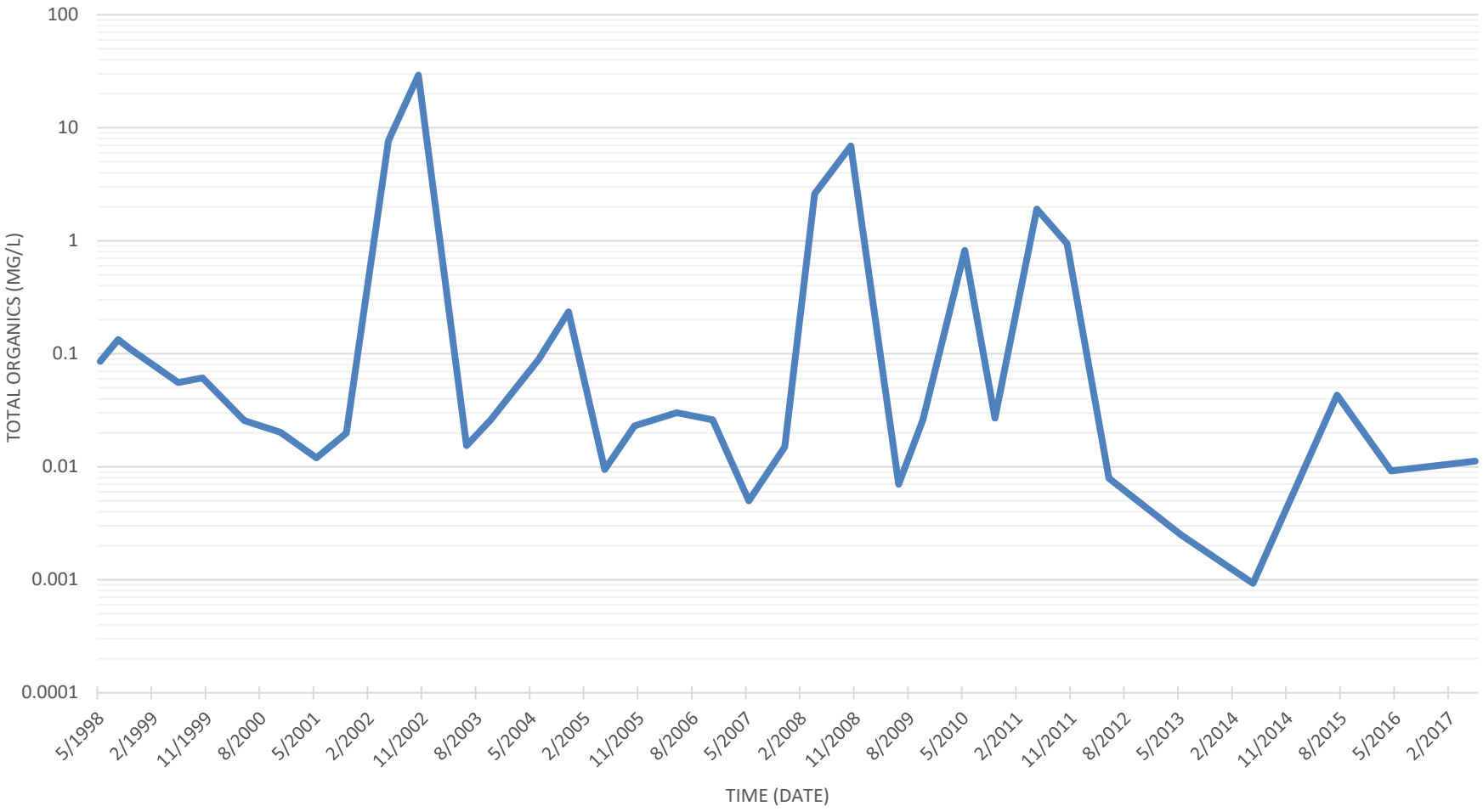


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

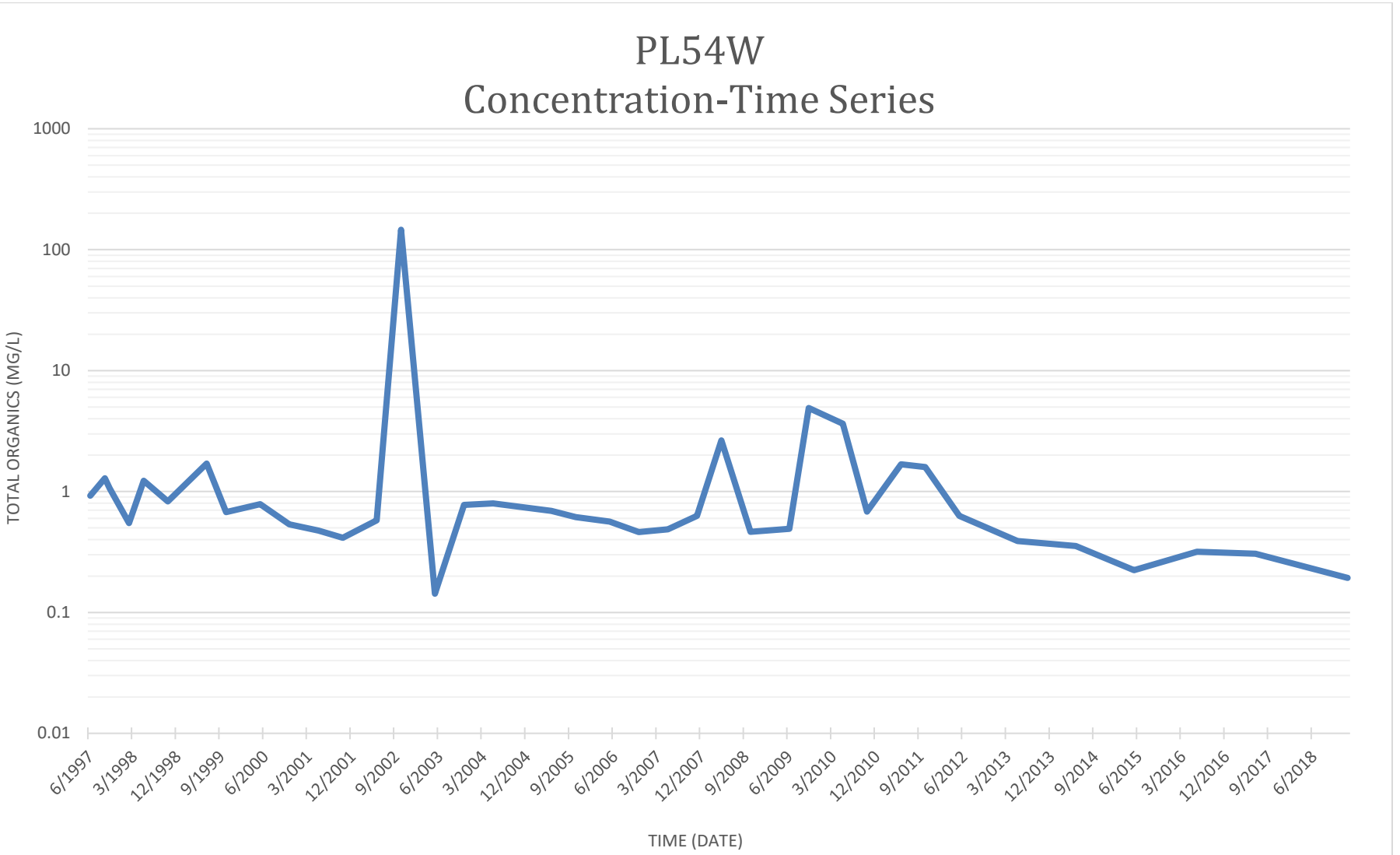


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PL54NE2
Concentration-Time Series

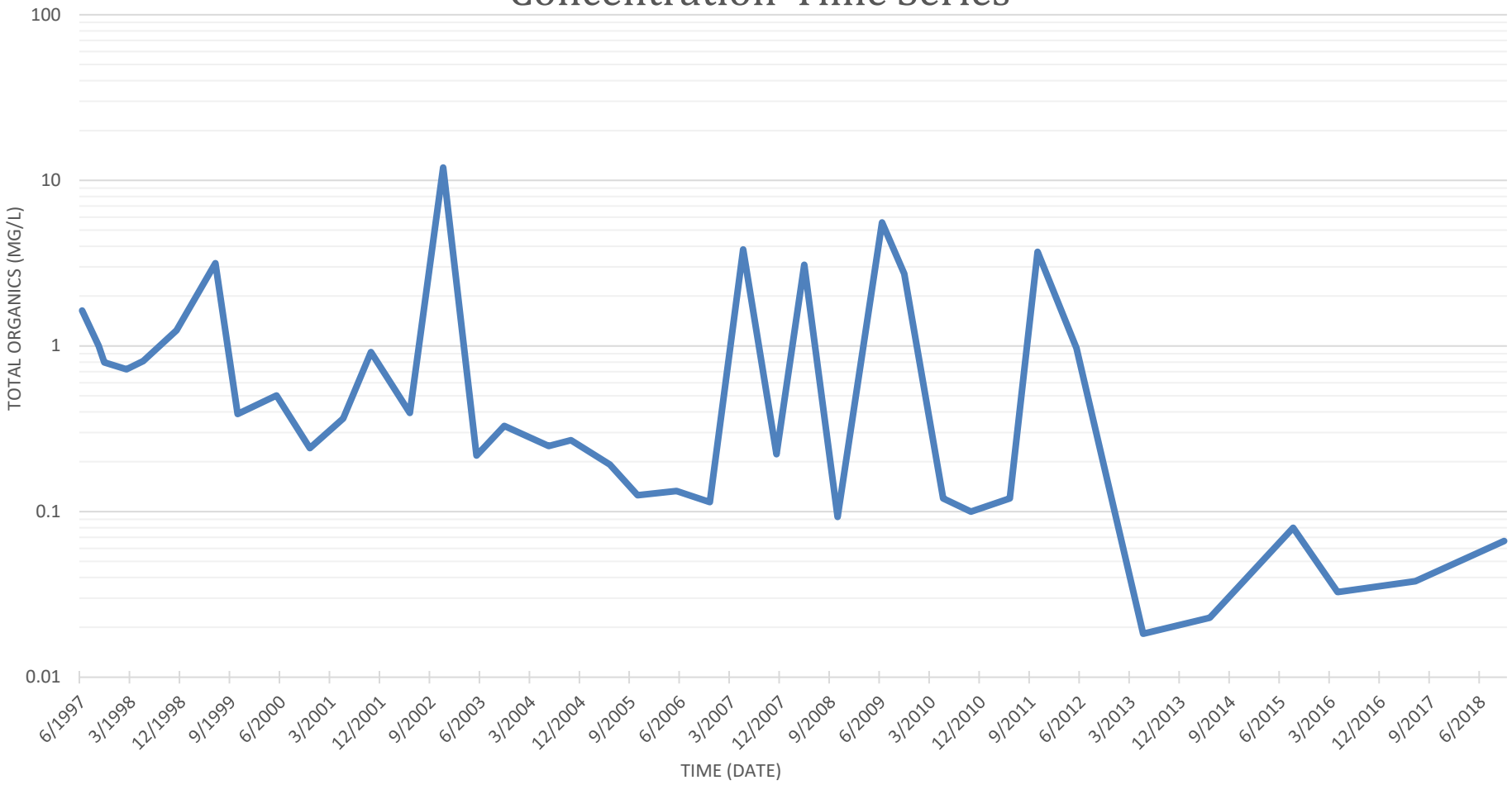


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



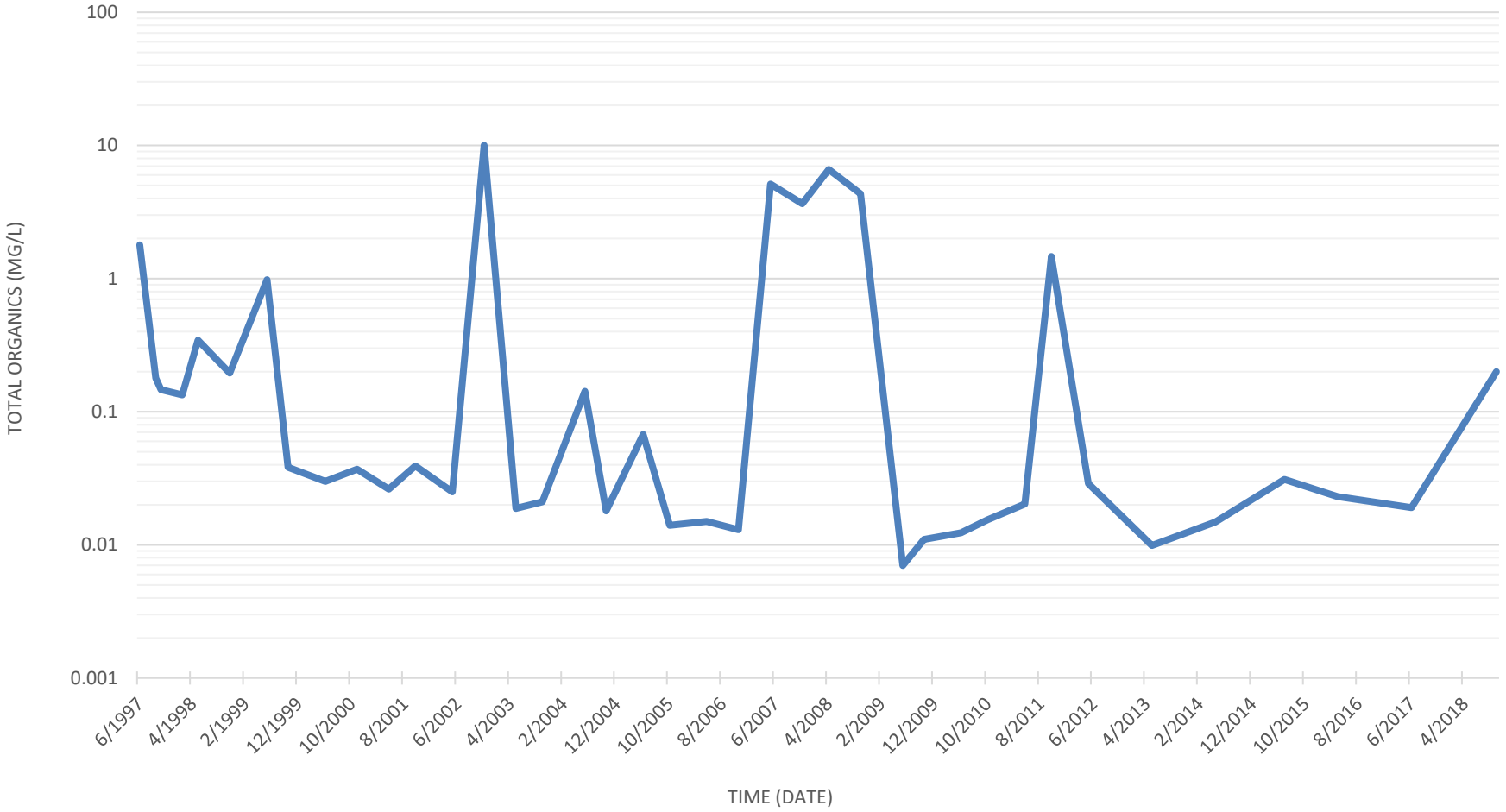
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for this well in accordance with the KPGSAP protocol.

PB119ER
Concentration-Time Series



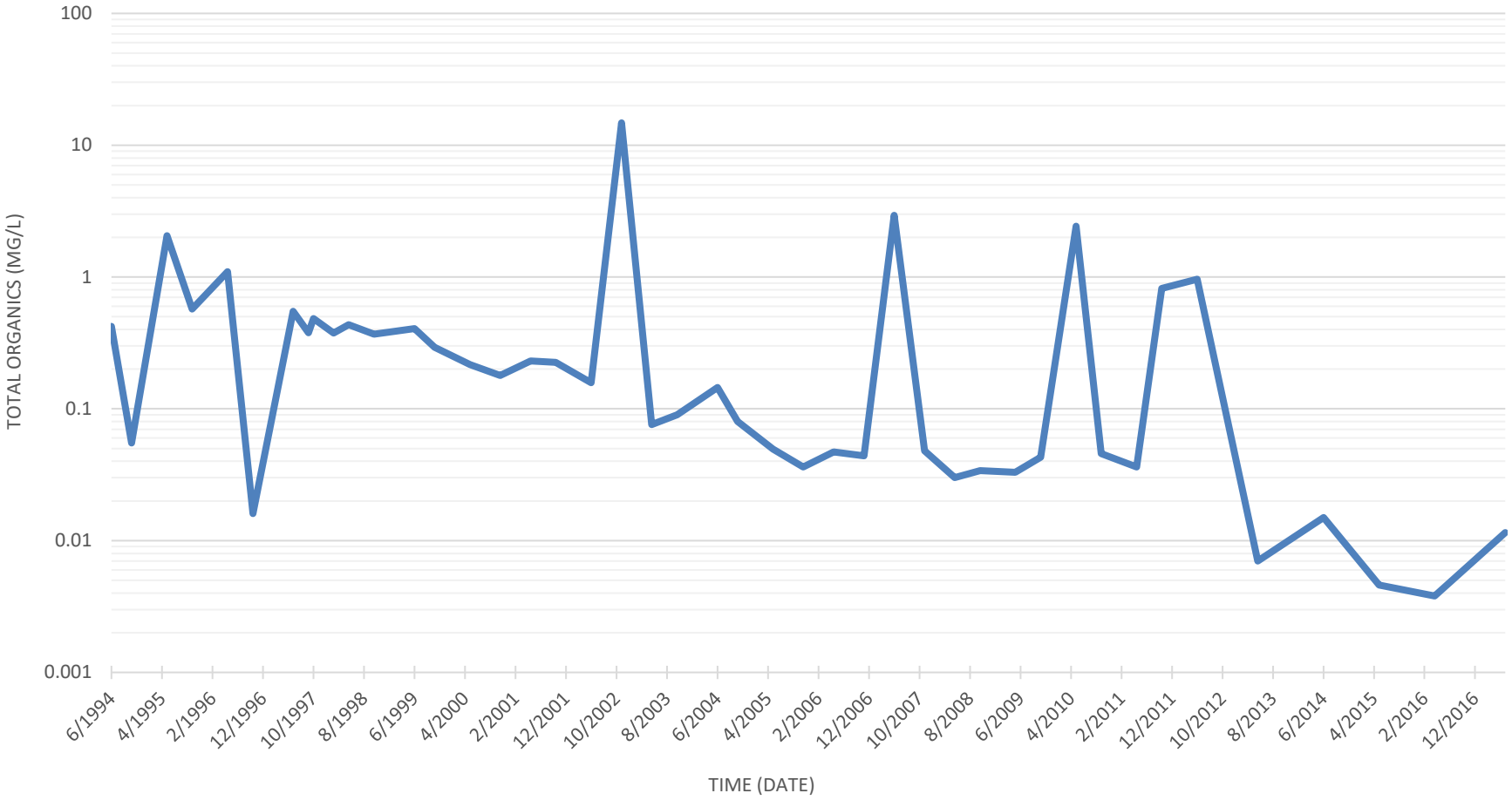
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB119NER
Concentration-Time Series



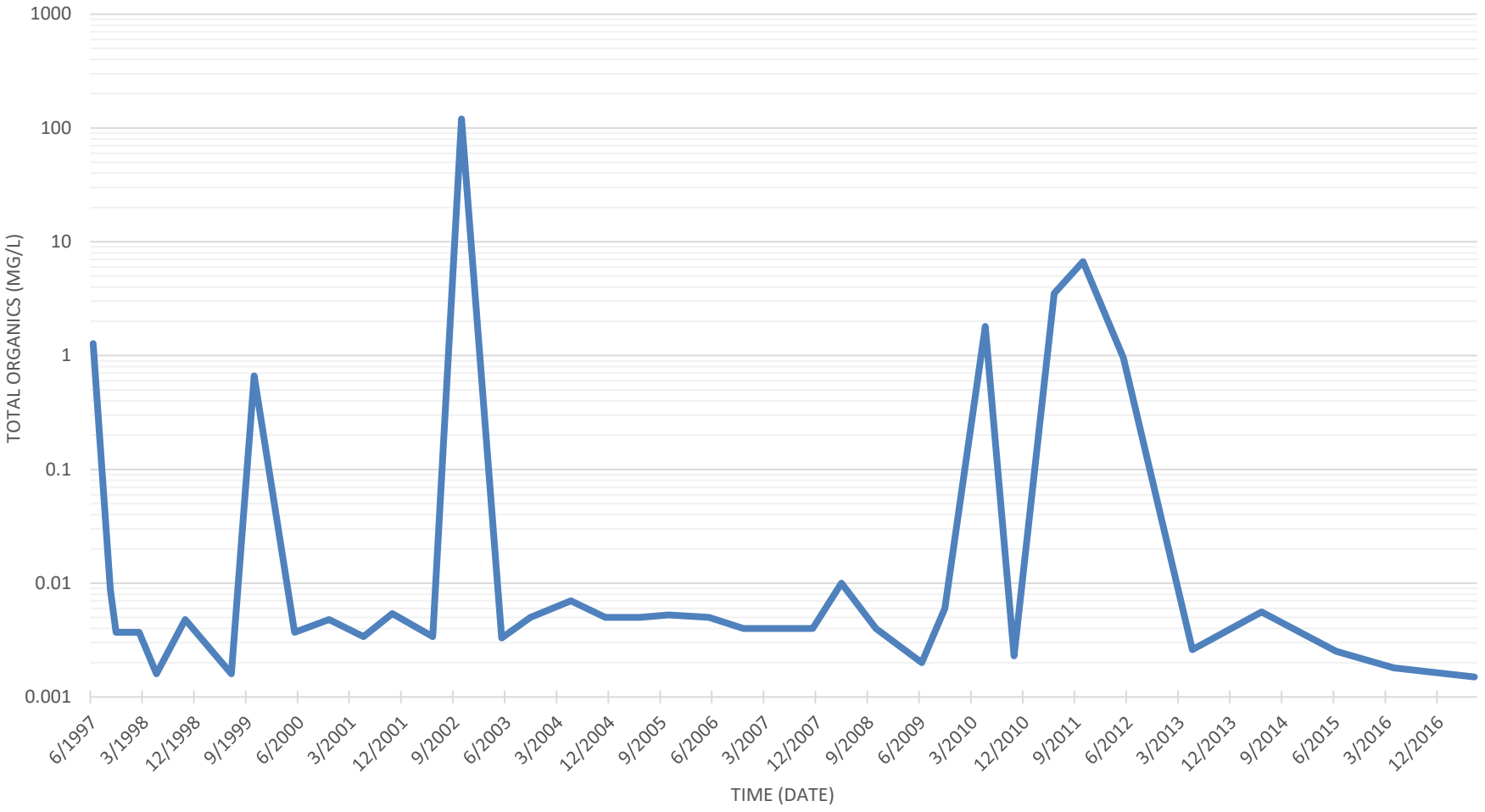
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB135ER
Concentration-Time Series



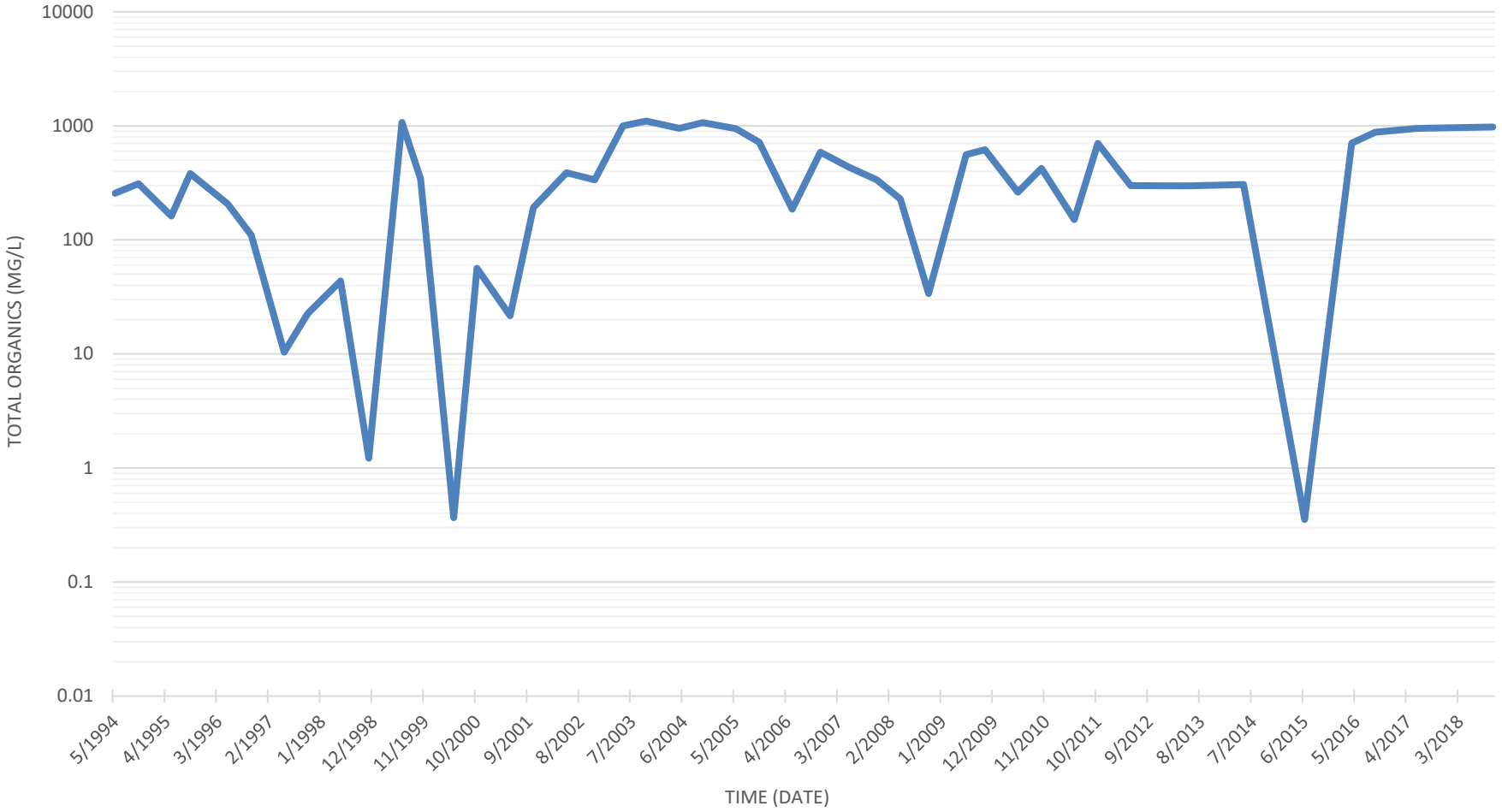
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for this in well in accordance with the KPGSAP protocol.

PB143NW
Concentration-Time Series



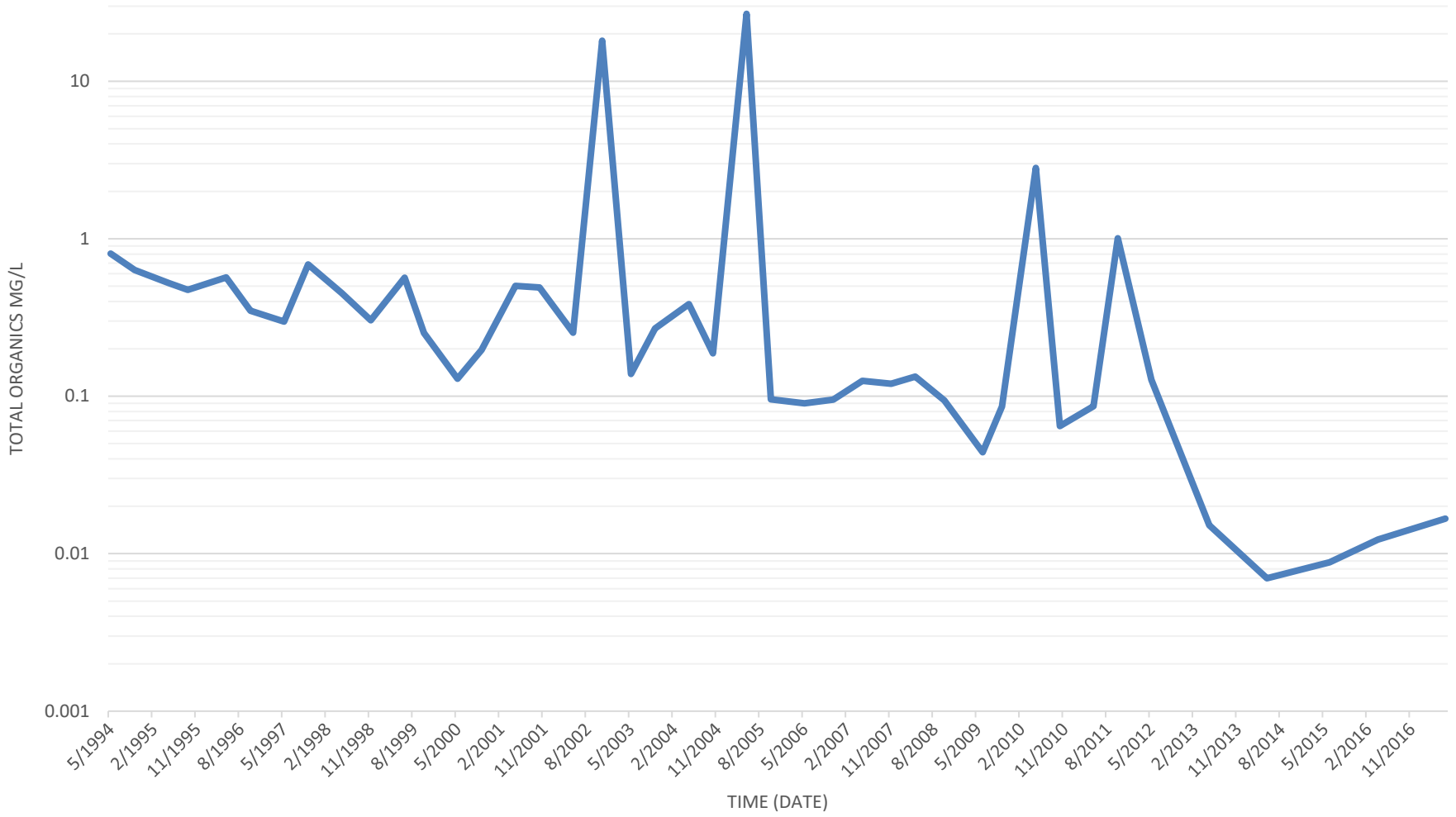
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PL50N2
Concentration-Time Series

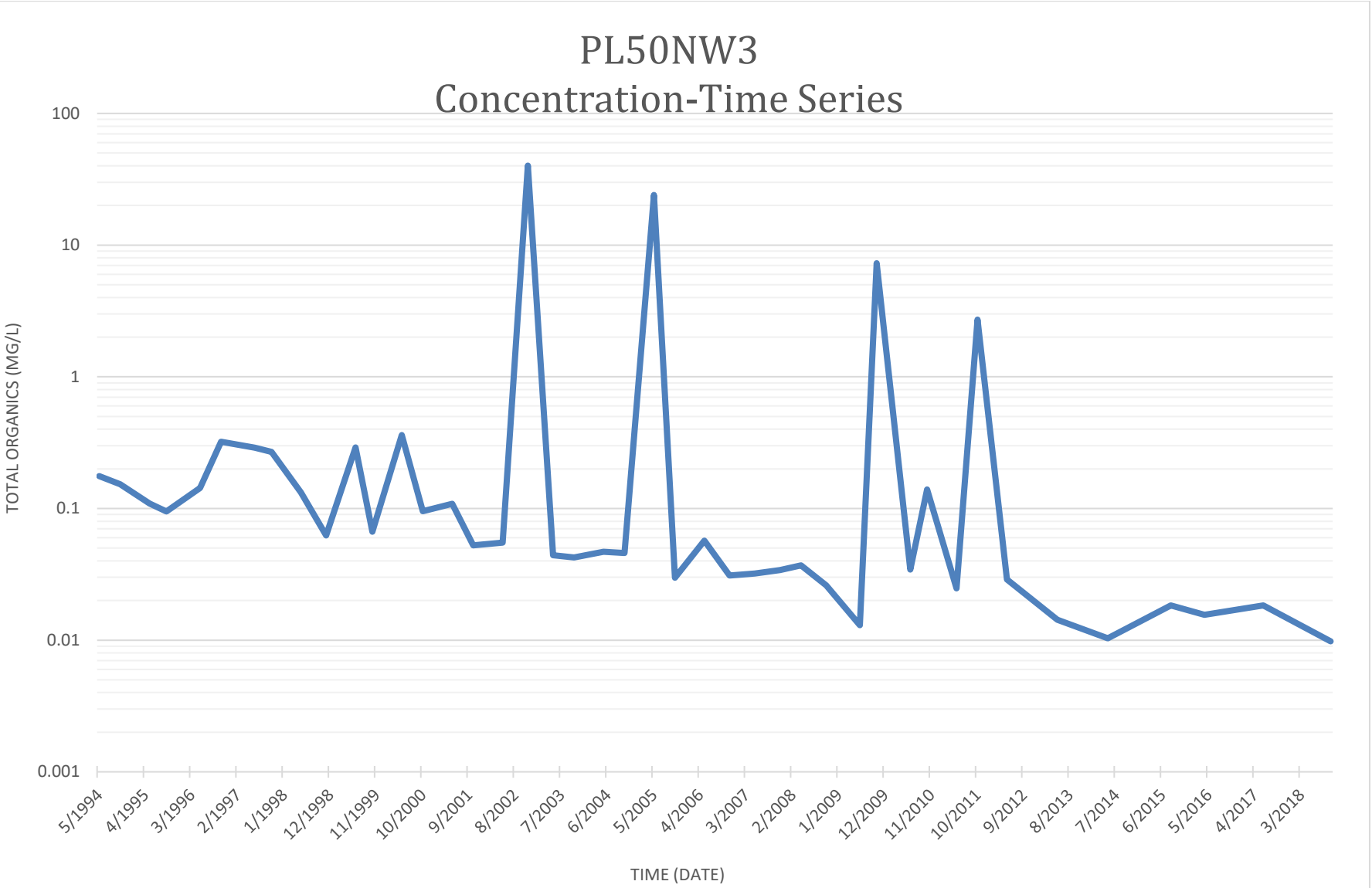


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

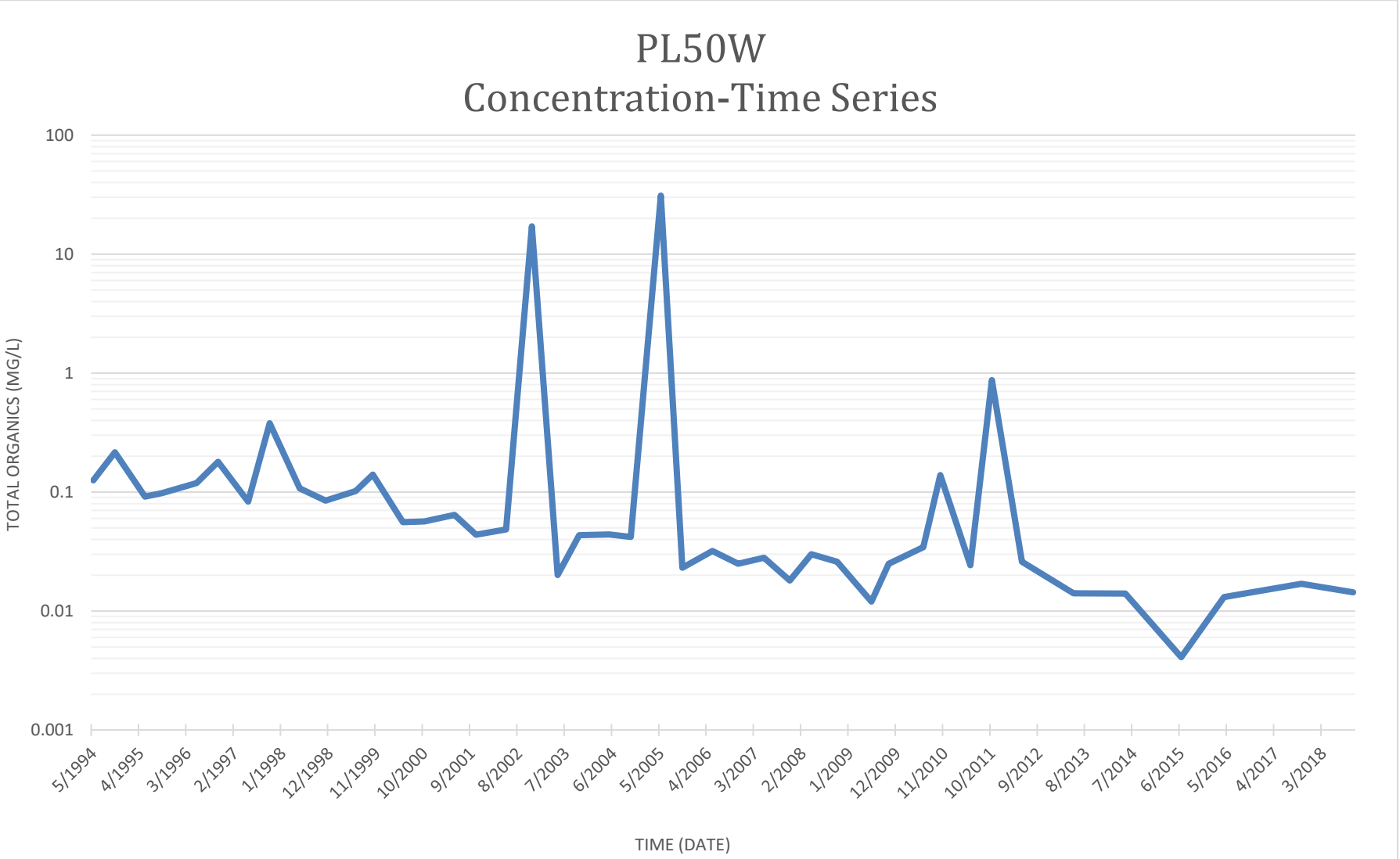
PL50N3
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

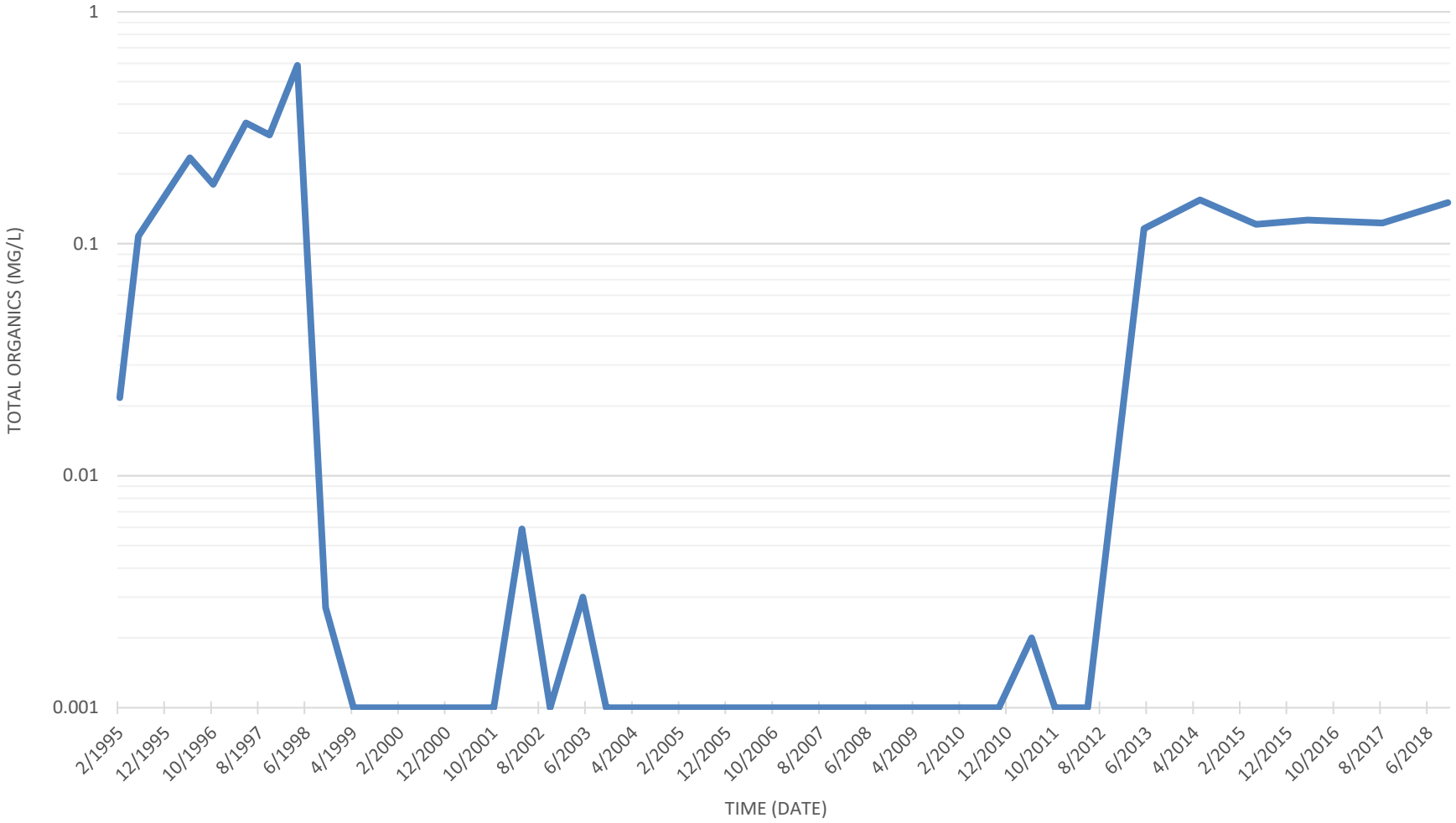


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



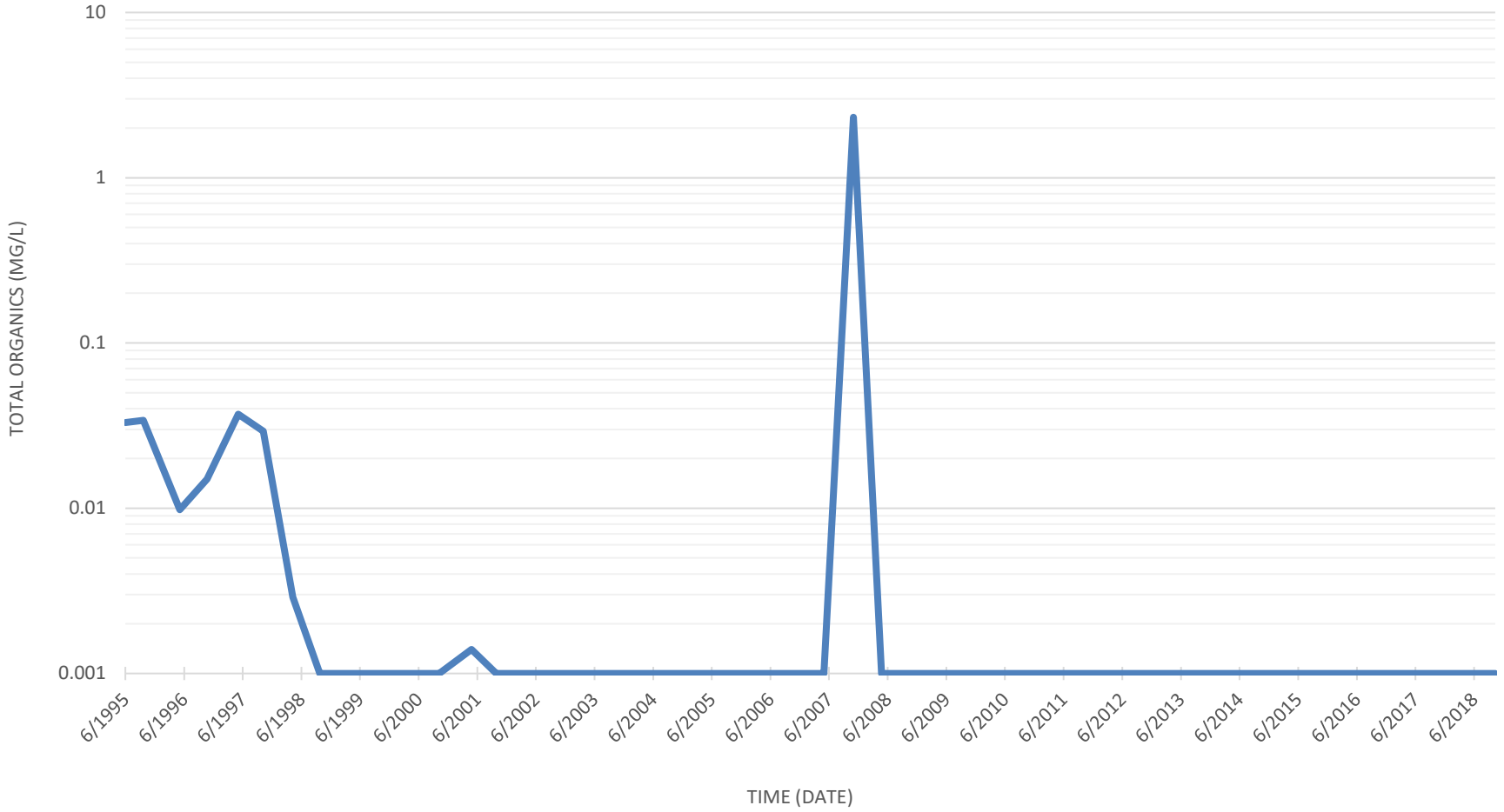
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB329E2
Concentration-Time Series



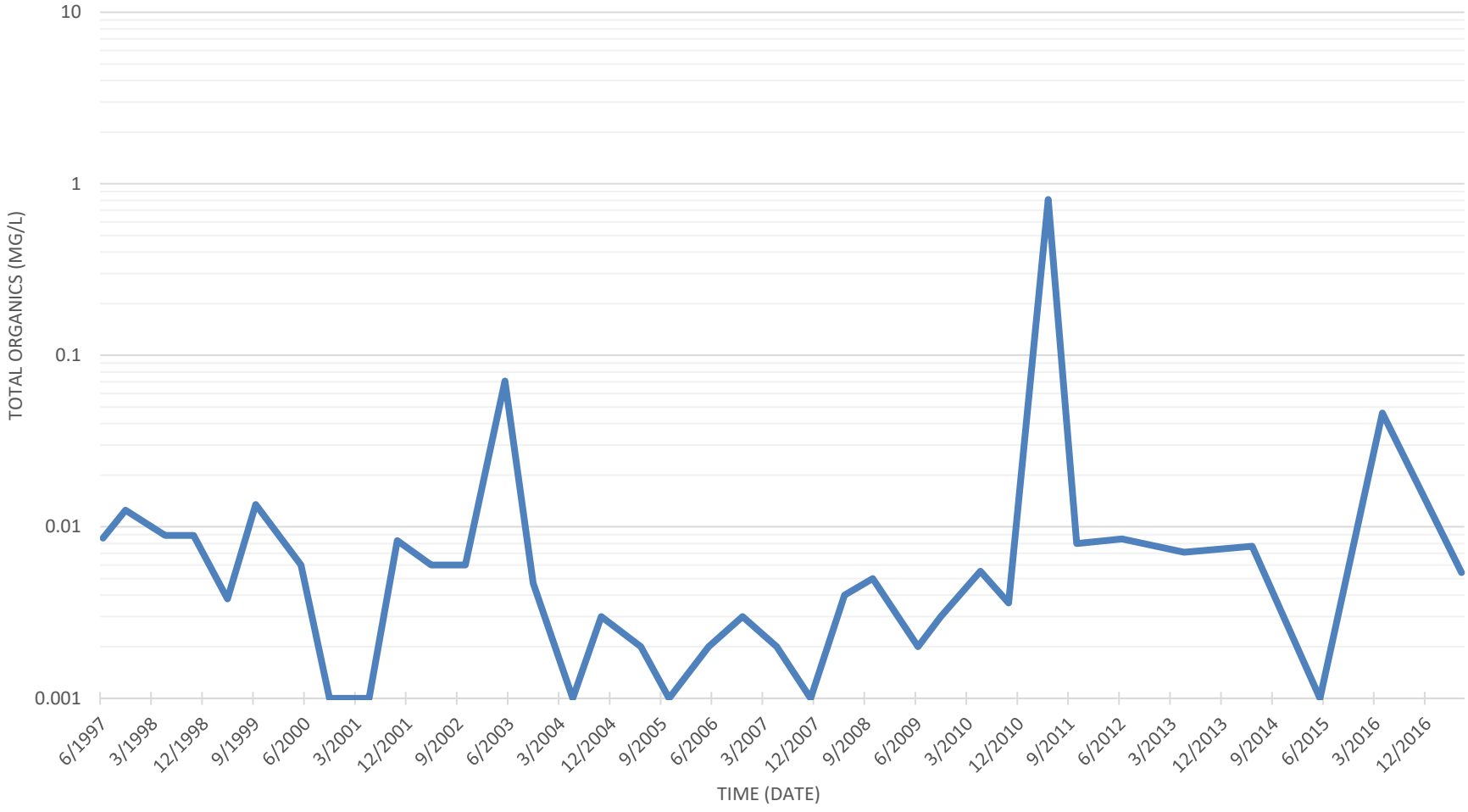
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB349N
Concentration-Time Series



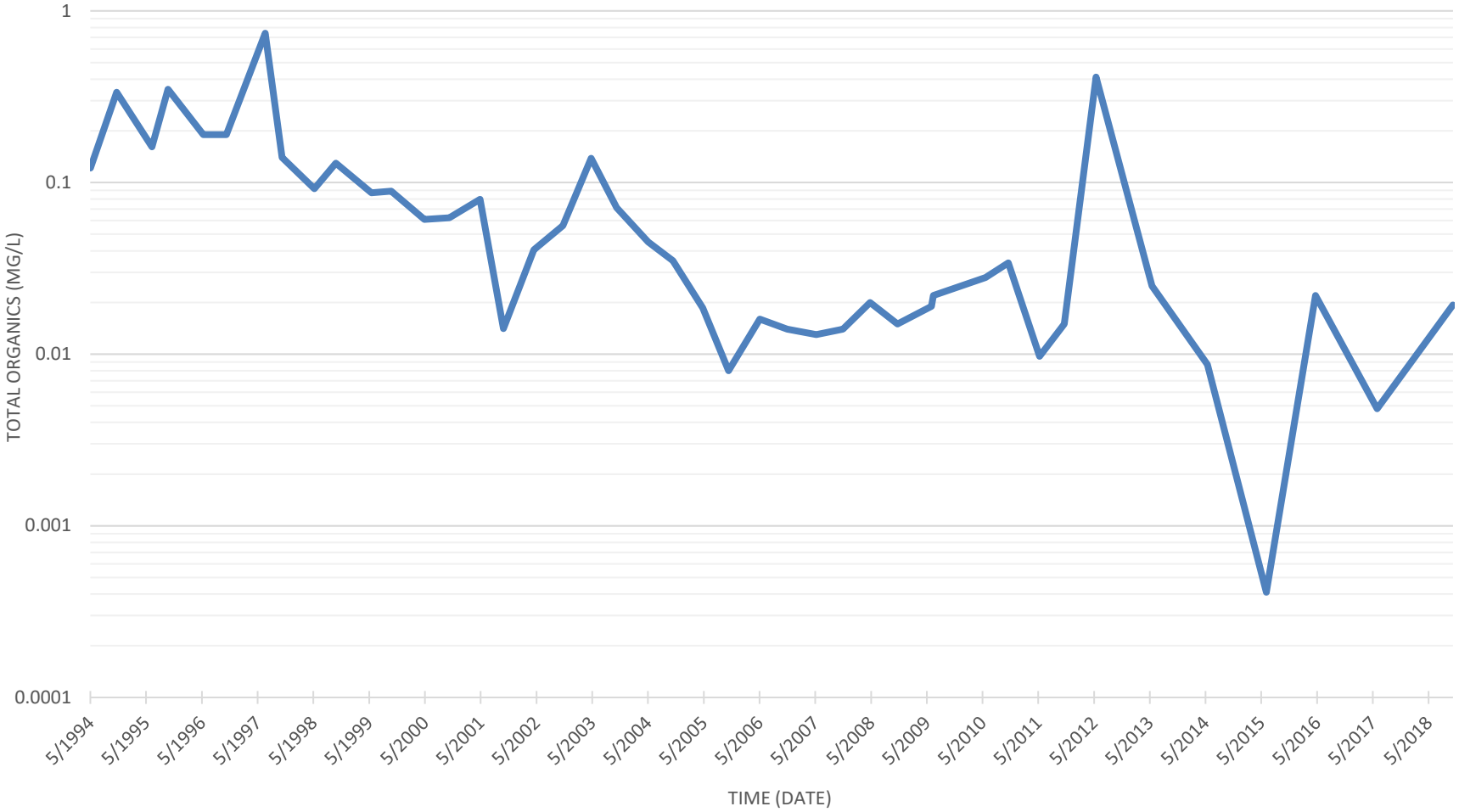
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB319N
Concentration-Time Series



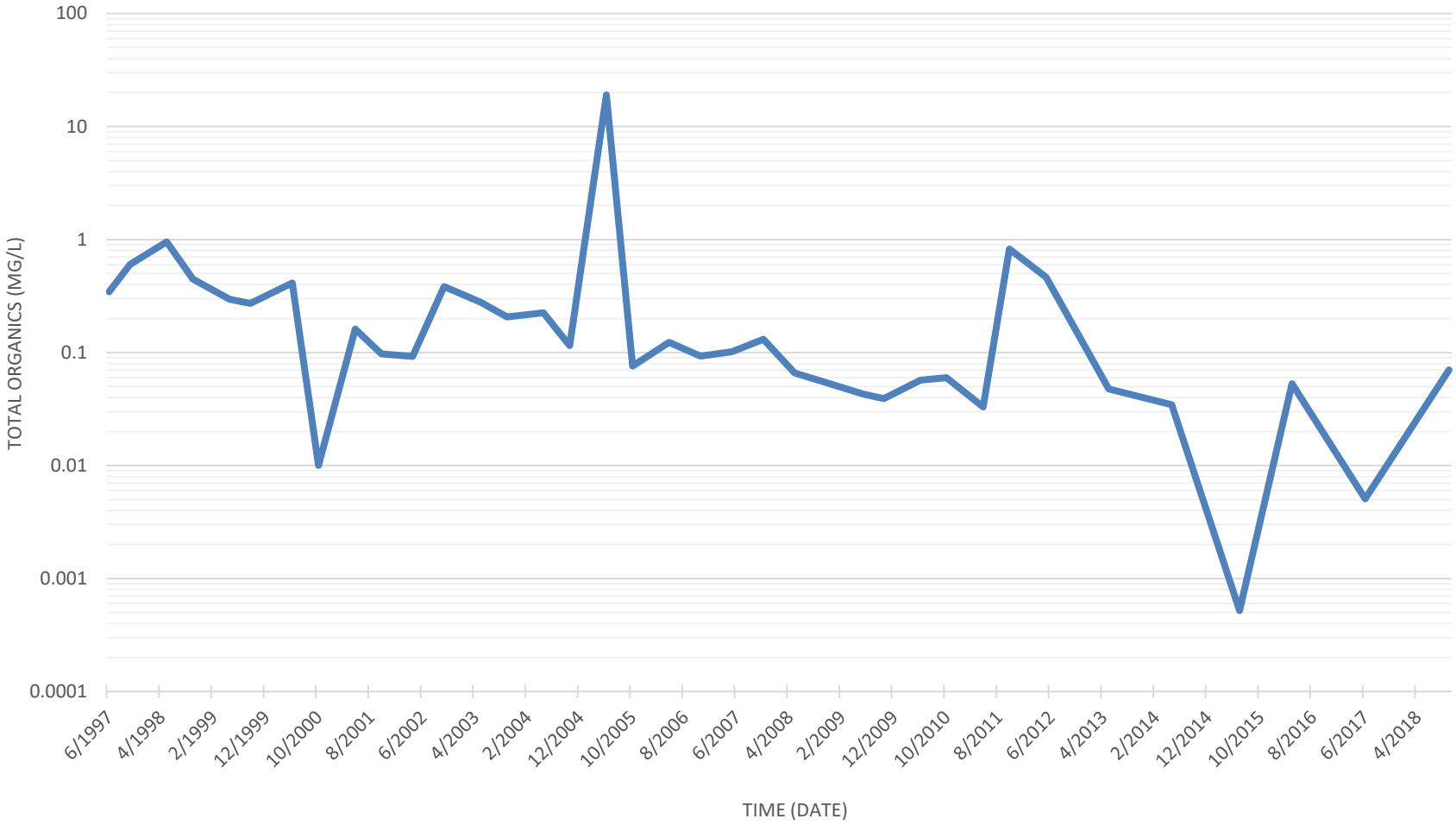
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB350NE2
Concentration-Time Series

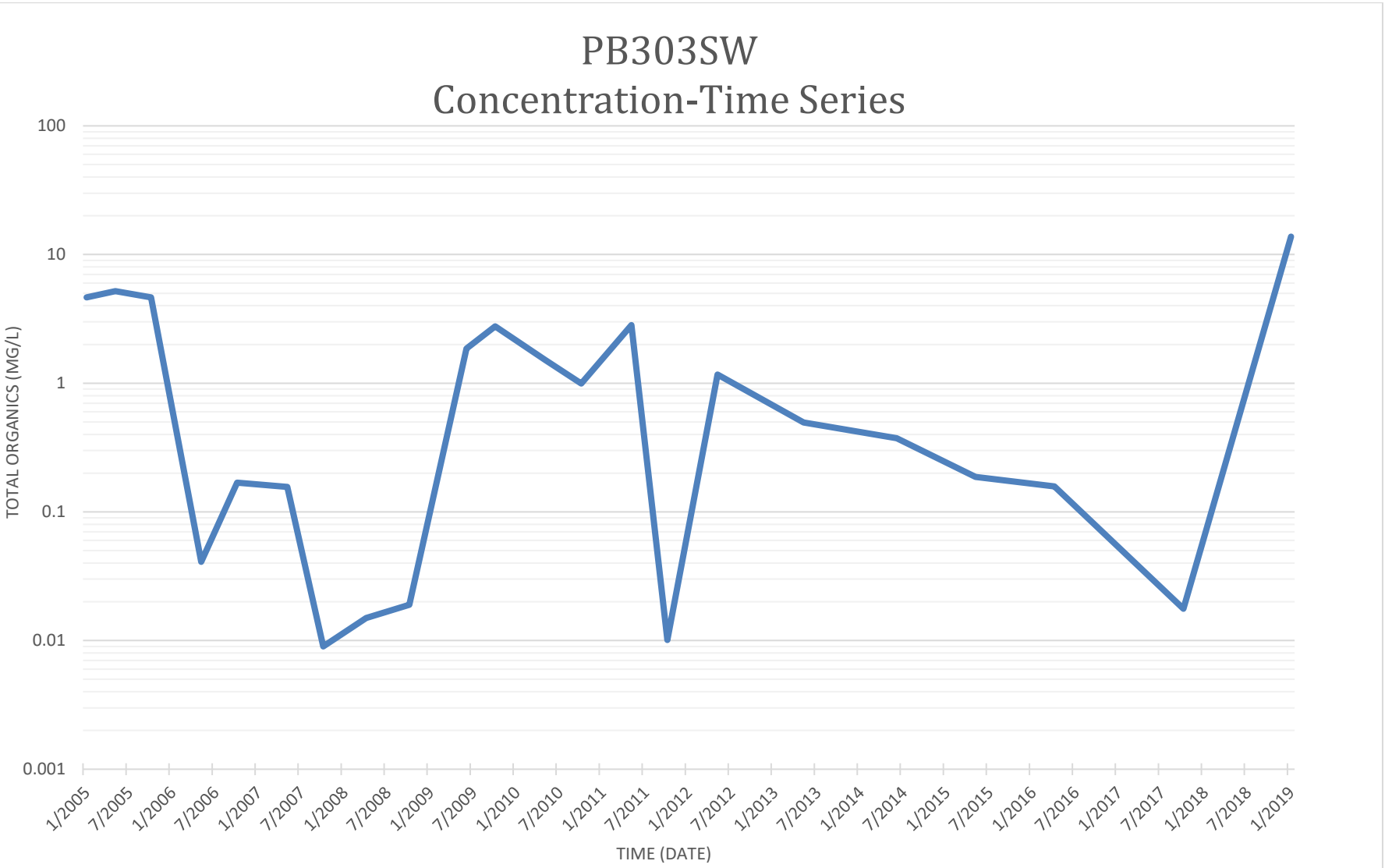


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

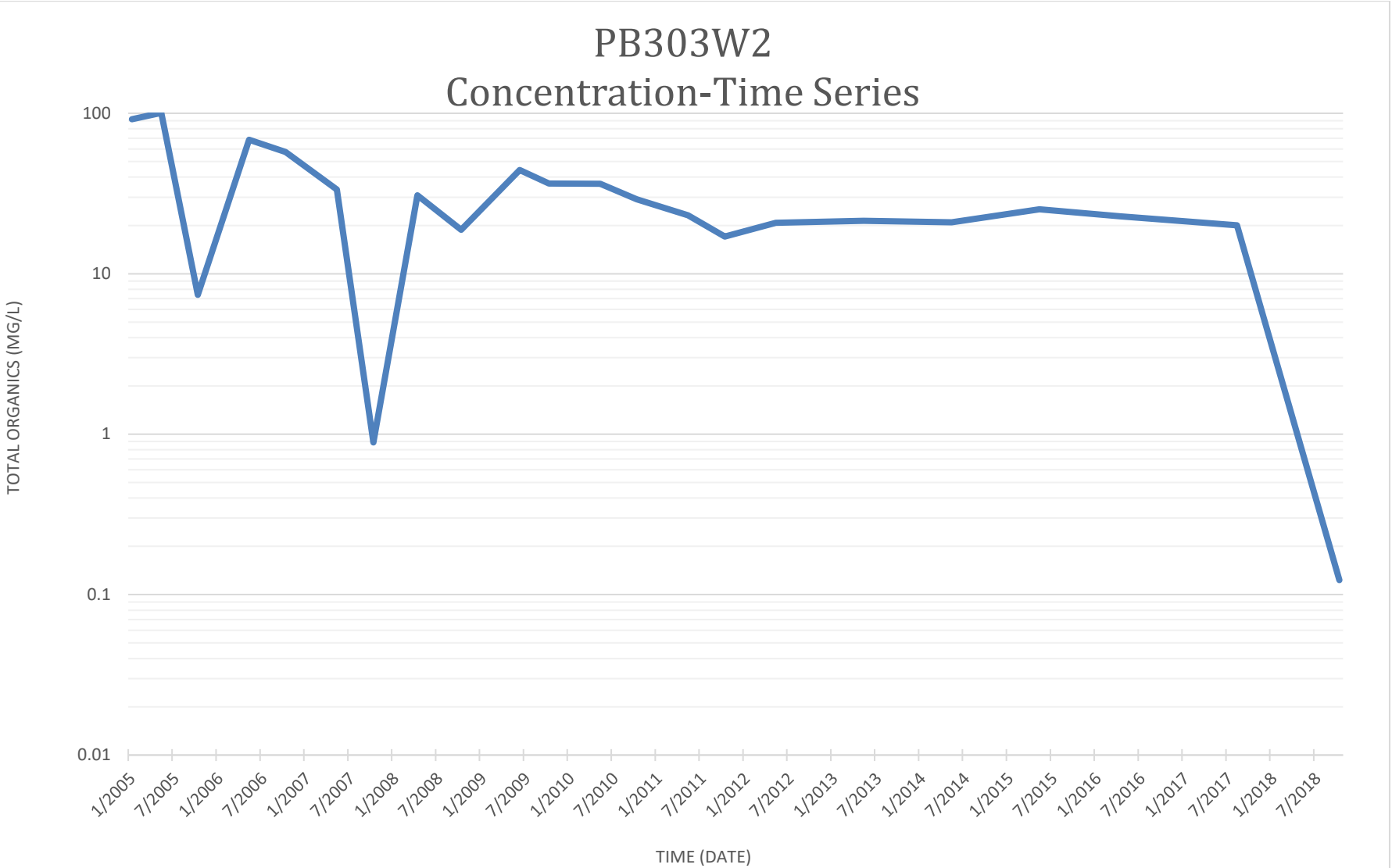
PB350NW
Concentration-Time Series



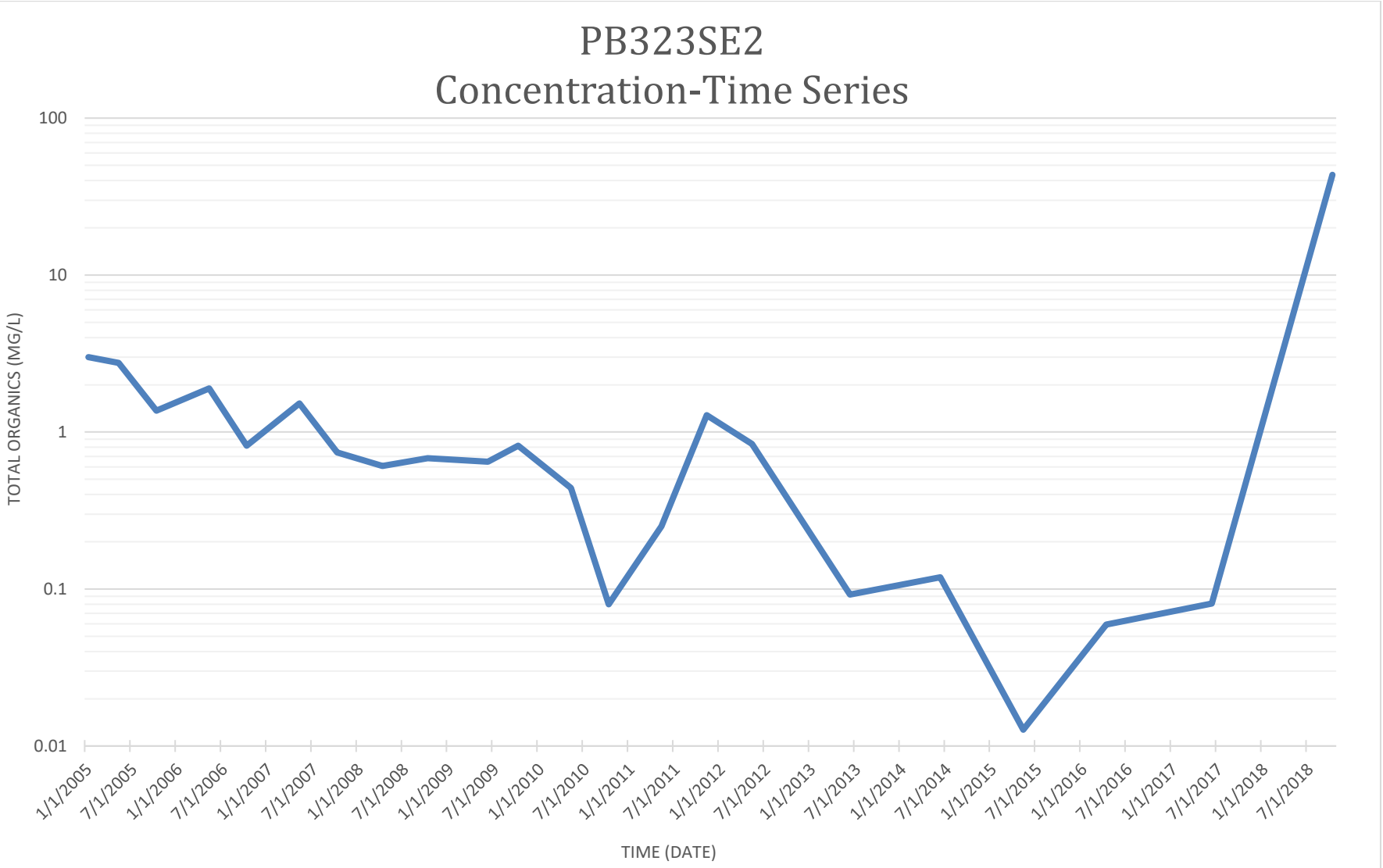
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



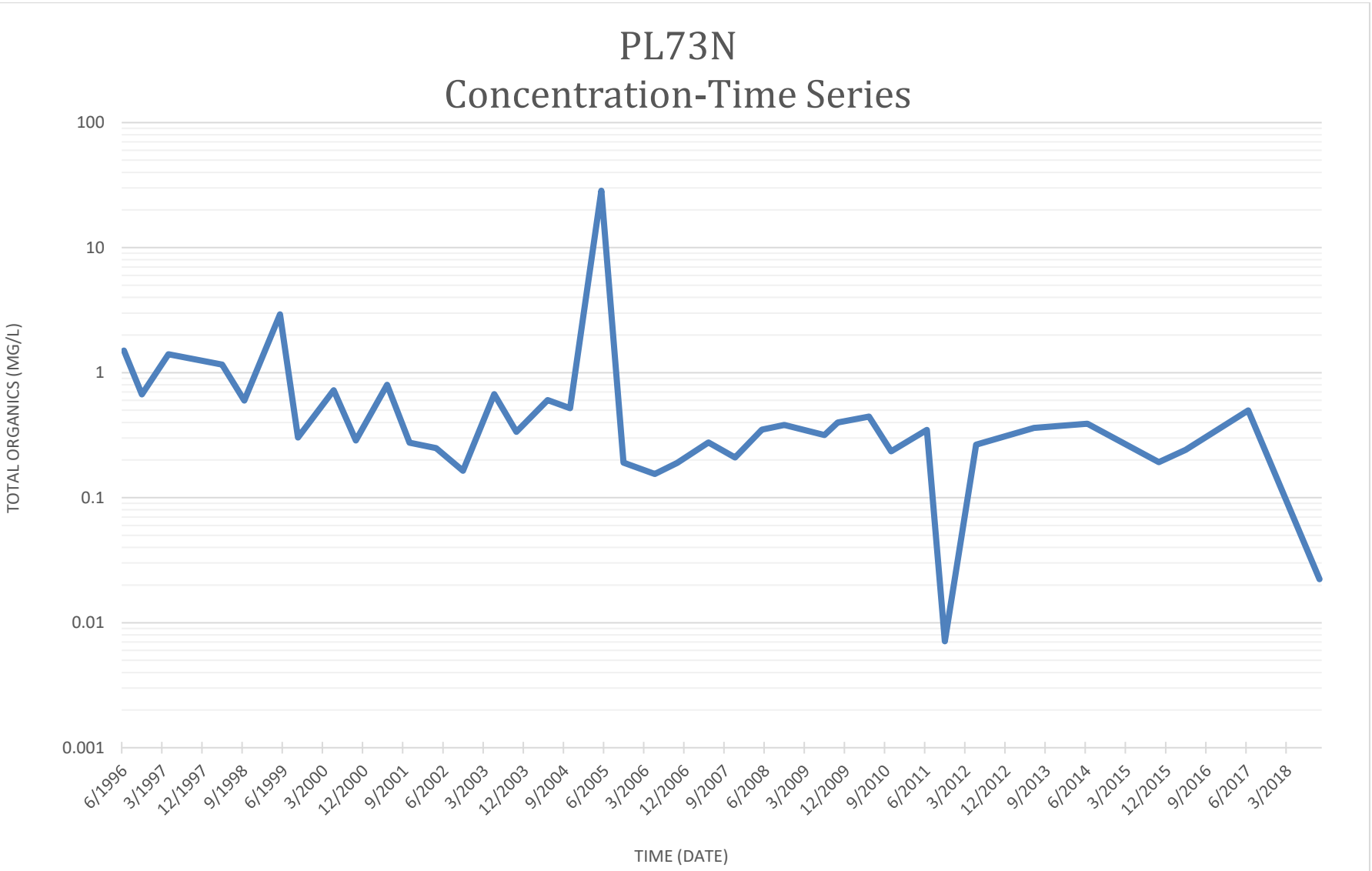
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



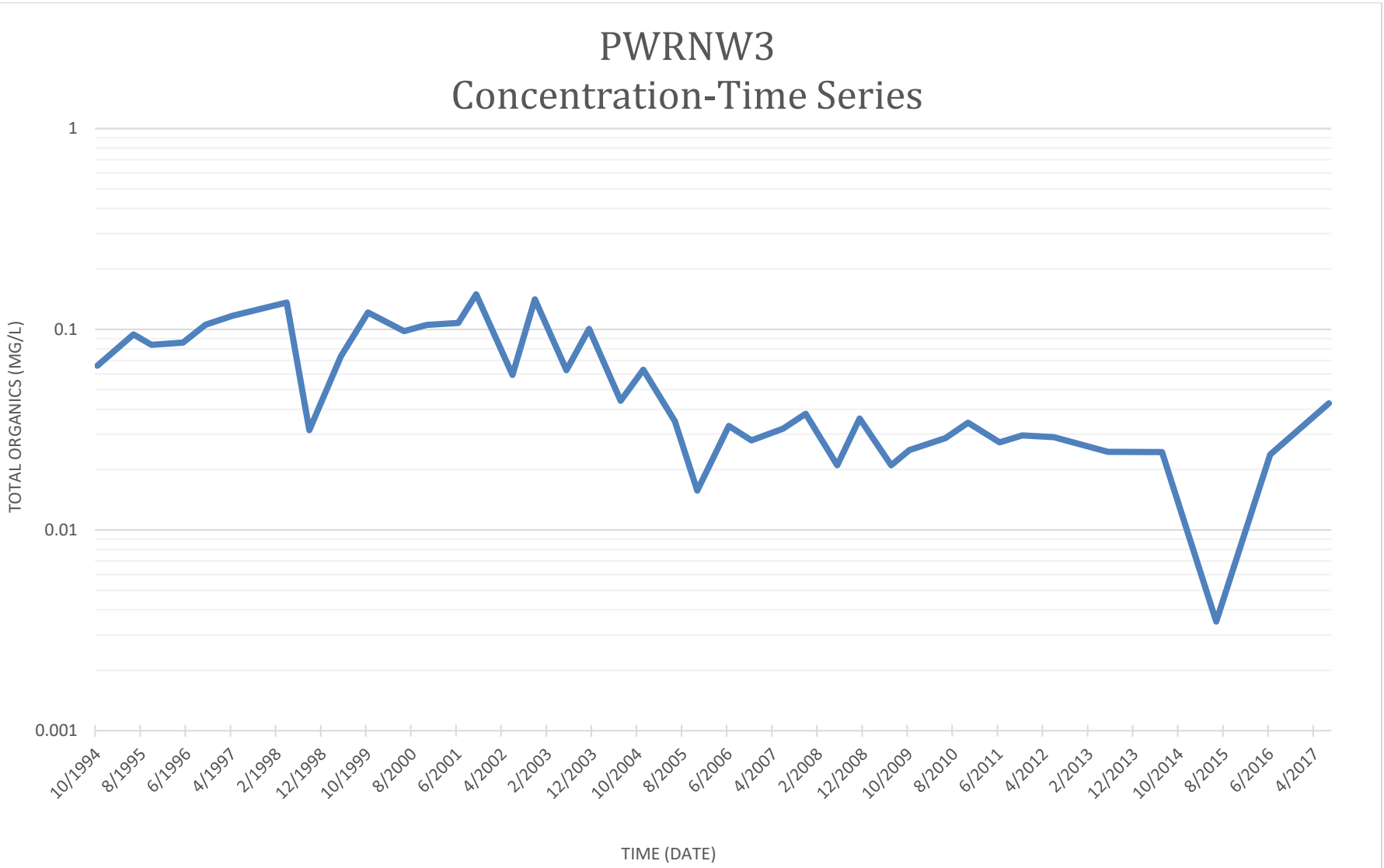
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB218N
Concentration-Time Series

Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

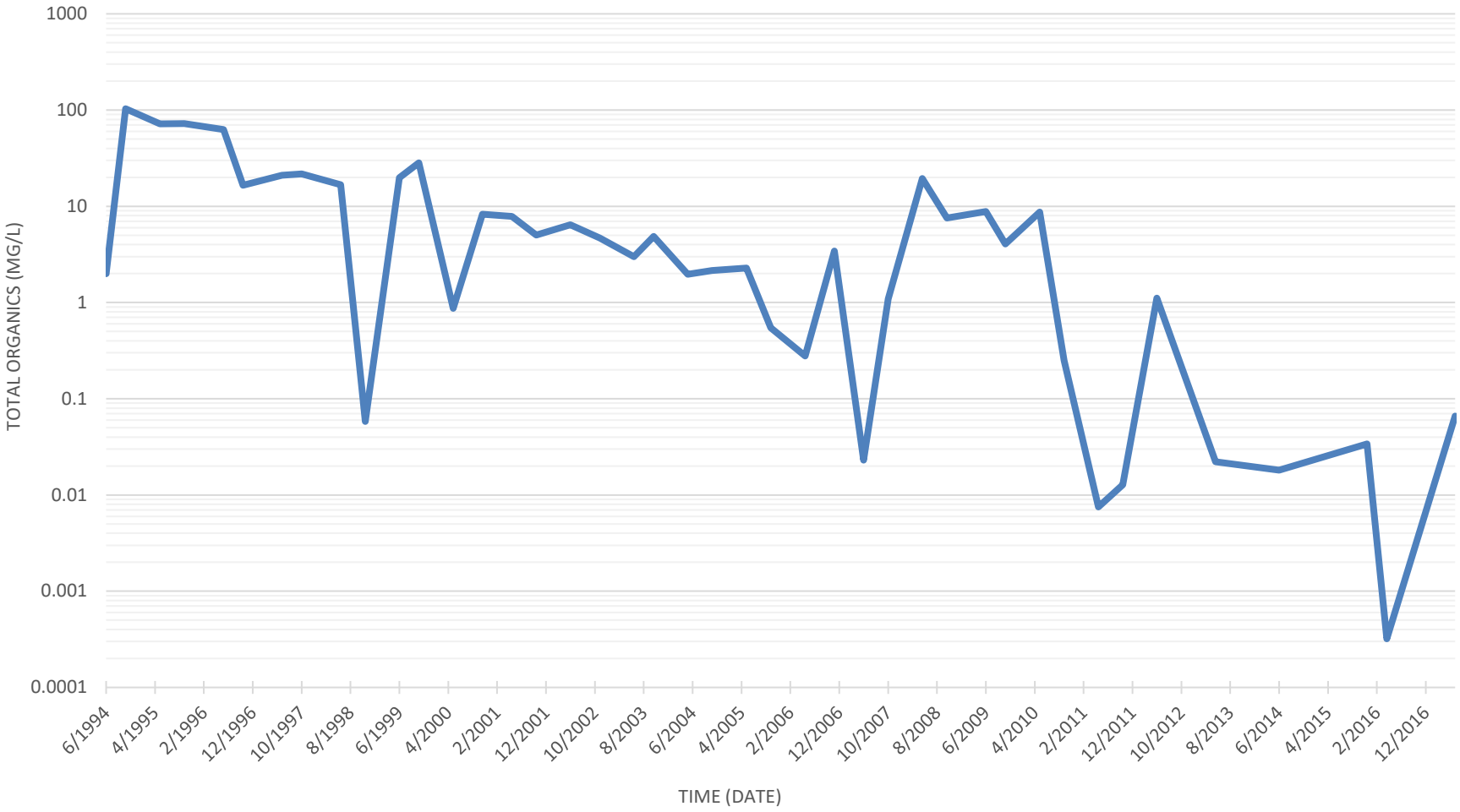


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



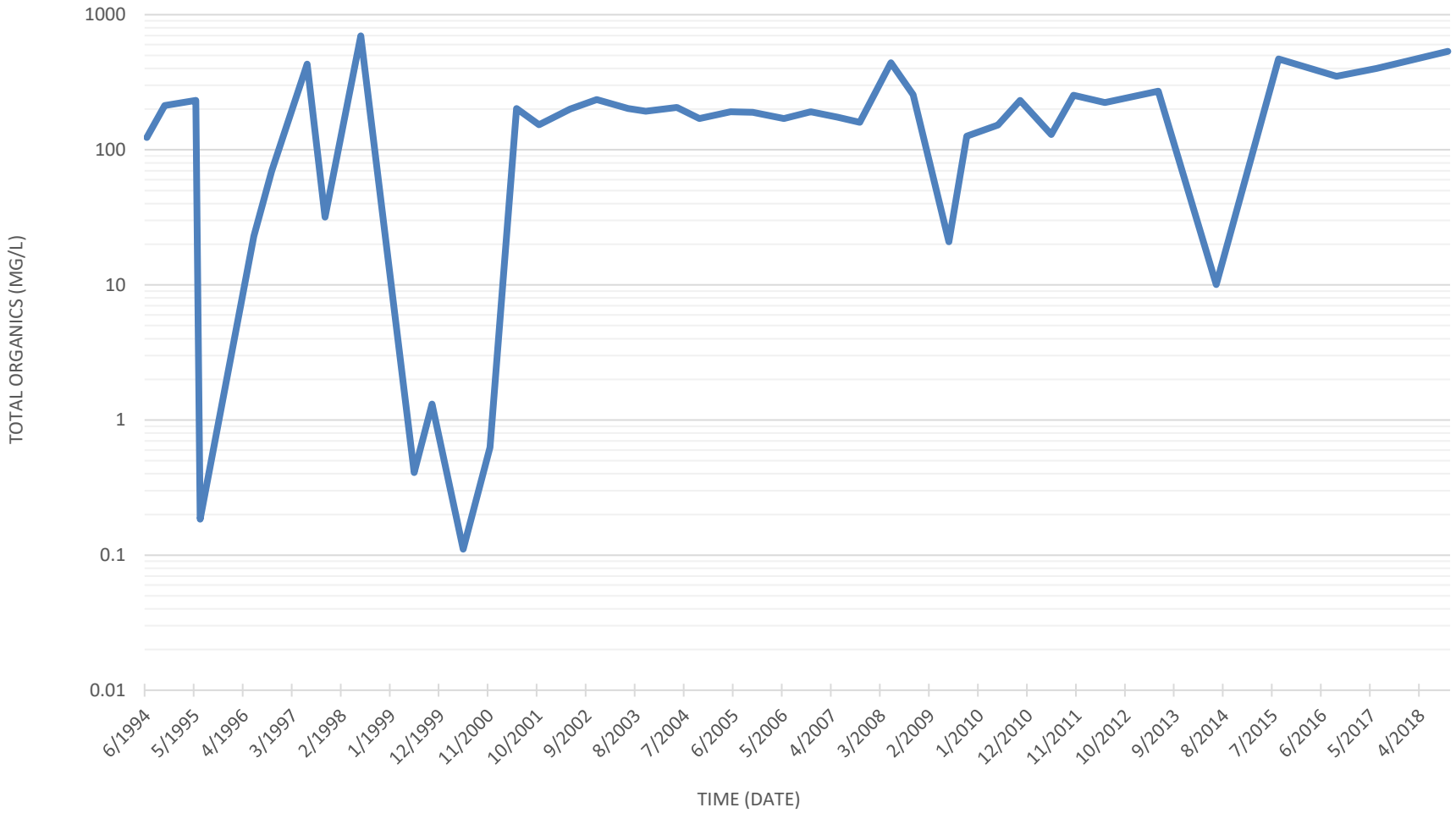
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB53N2
Concentration-Time Series



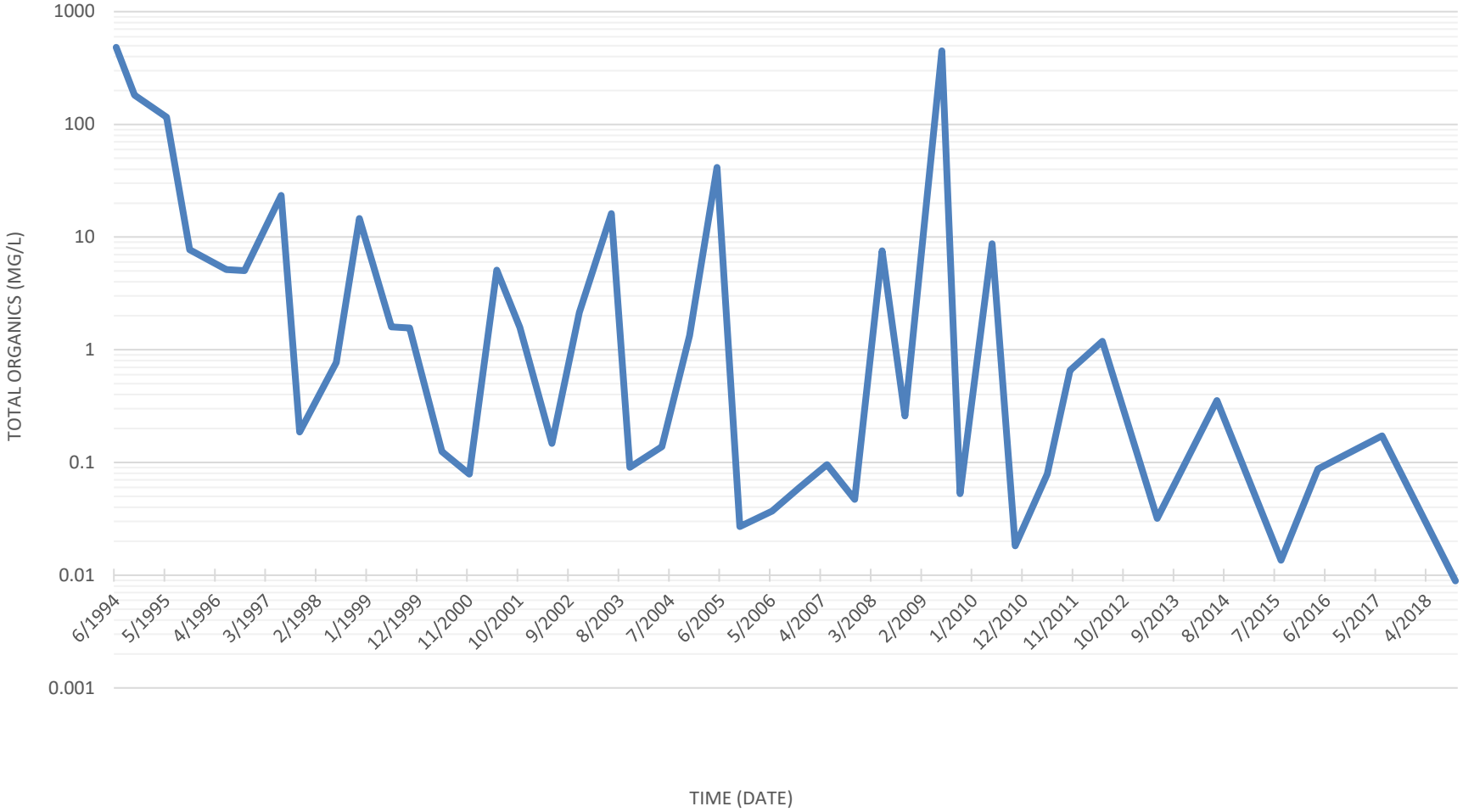
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB54NW
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB54SE
Concentration-Time Series

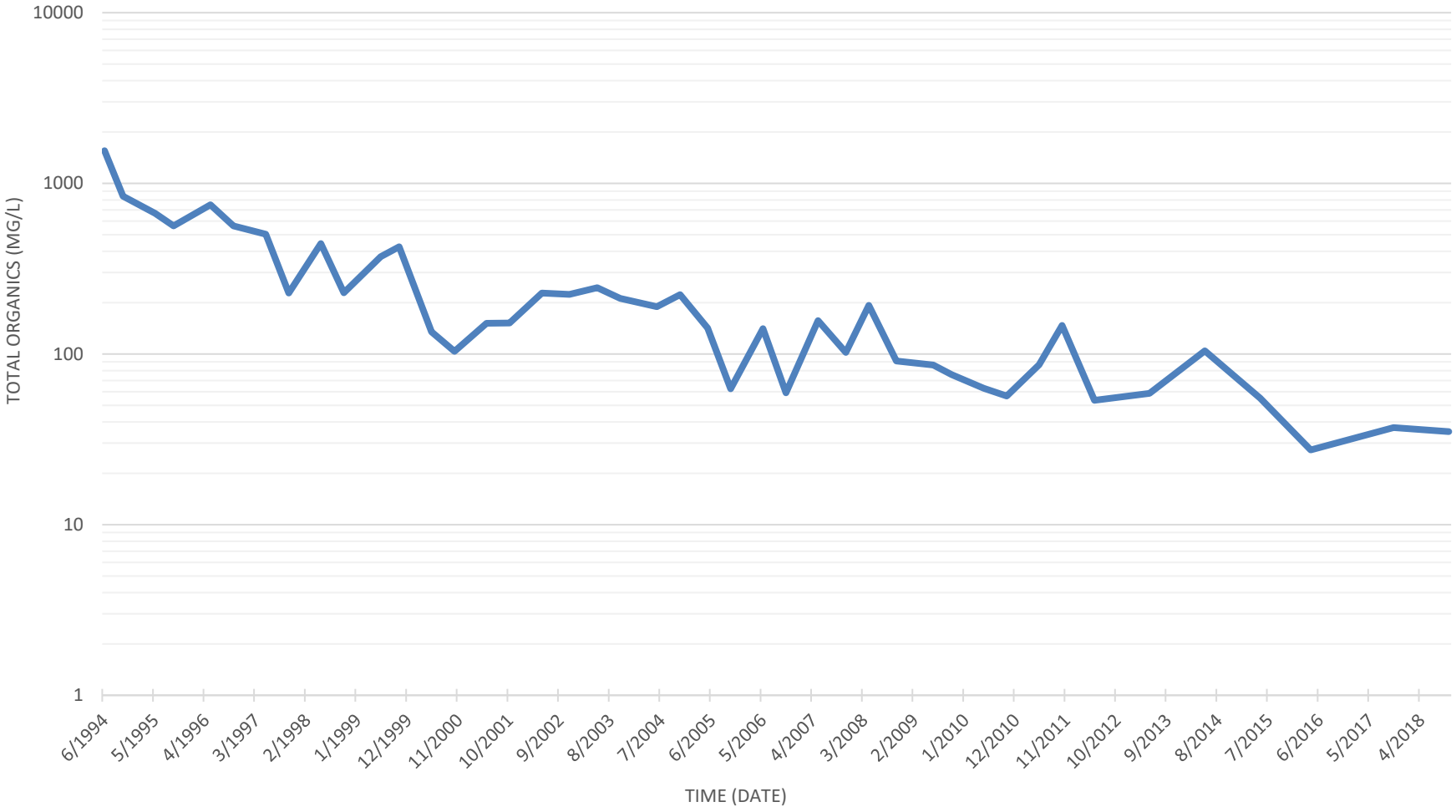


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

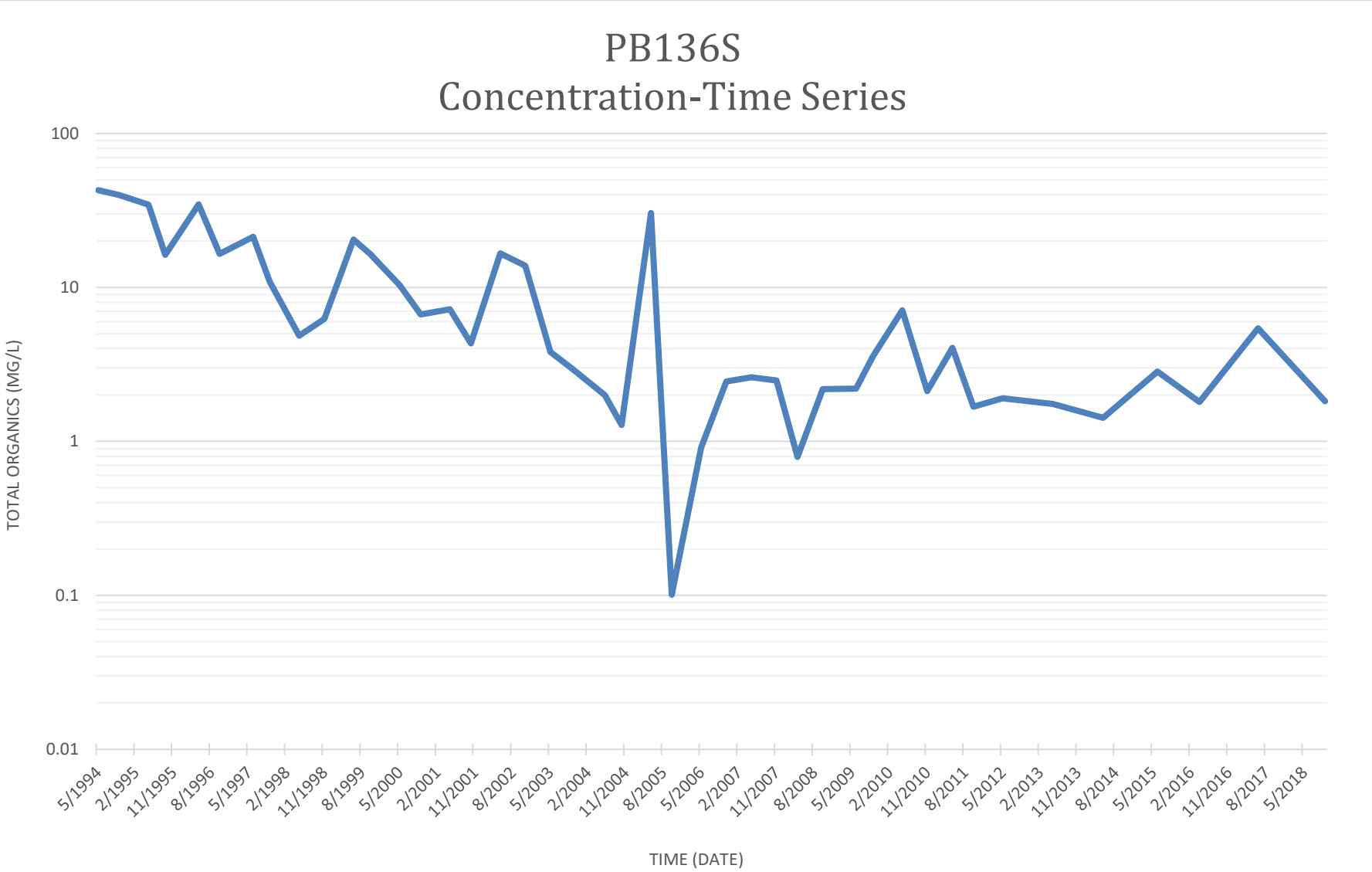
PB57W
Concentration-Time Series

Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB115N
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

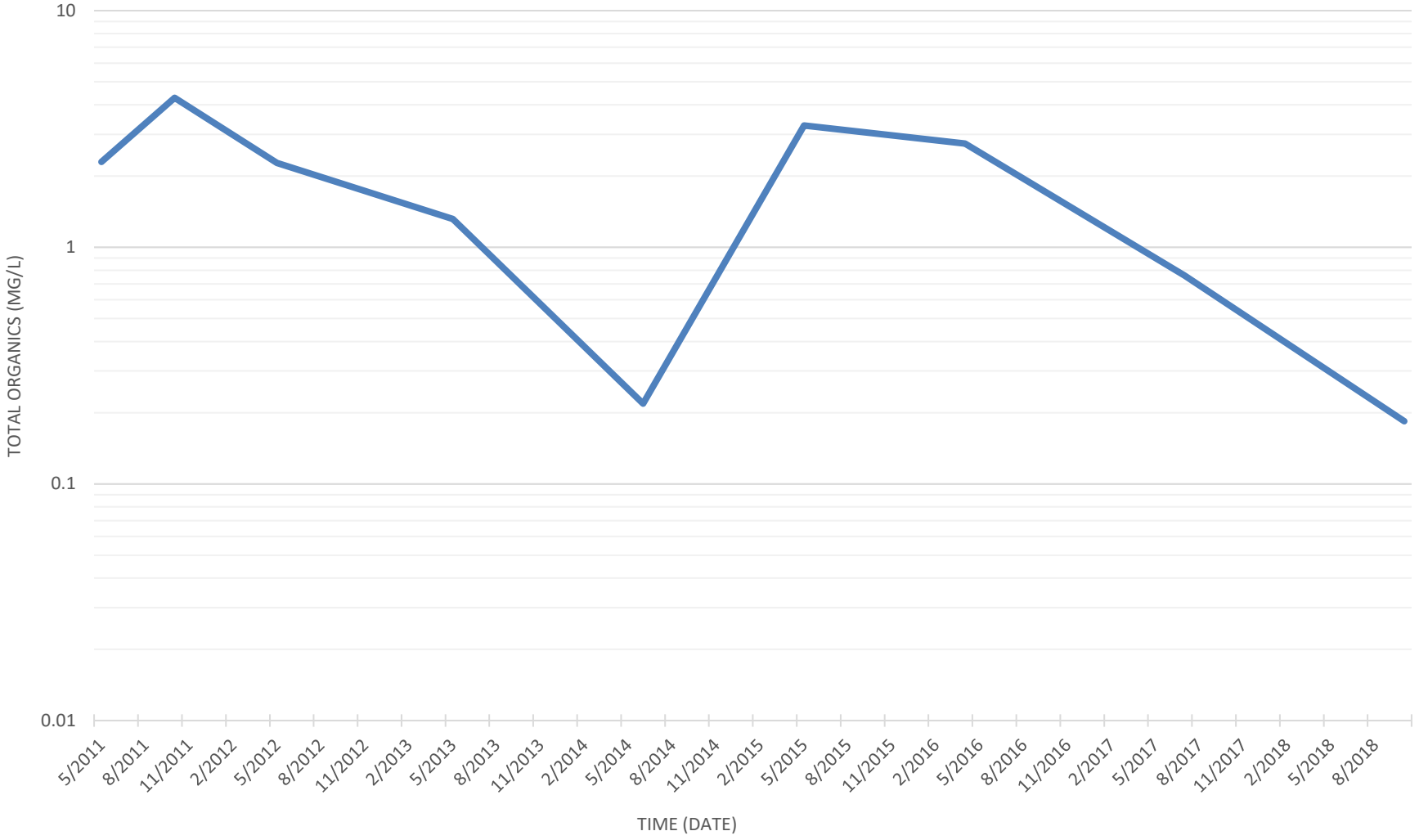


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB307E2
Concentration-Time Series

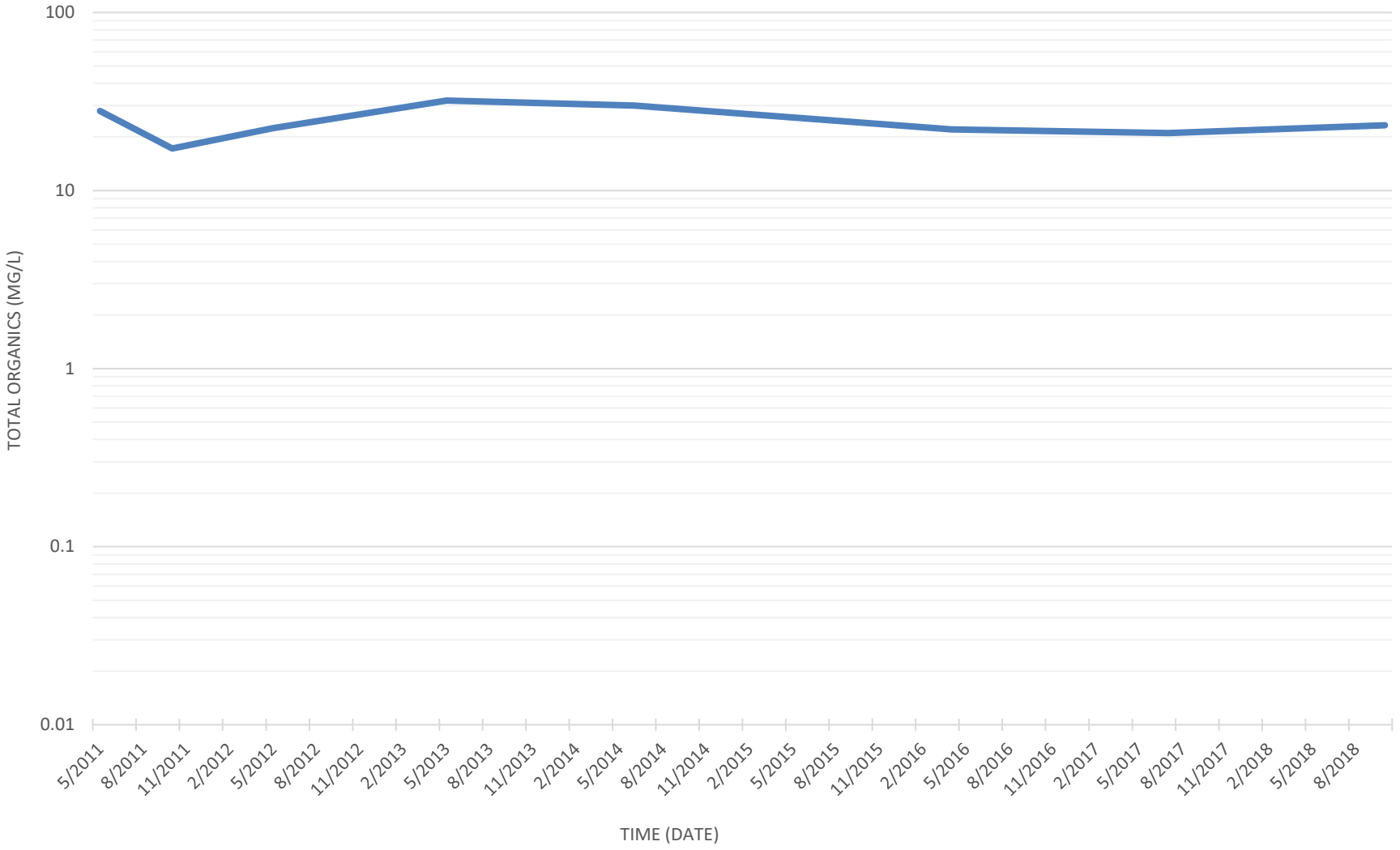
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB307N3
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PB322NE2
Concentration-Time Series

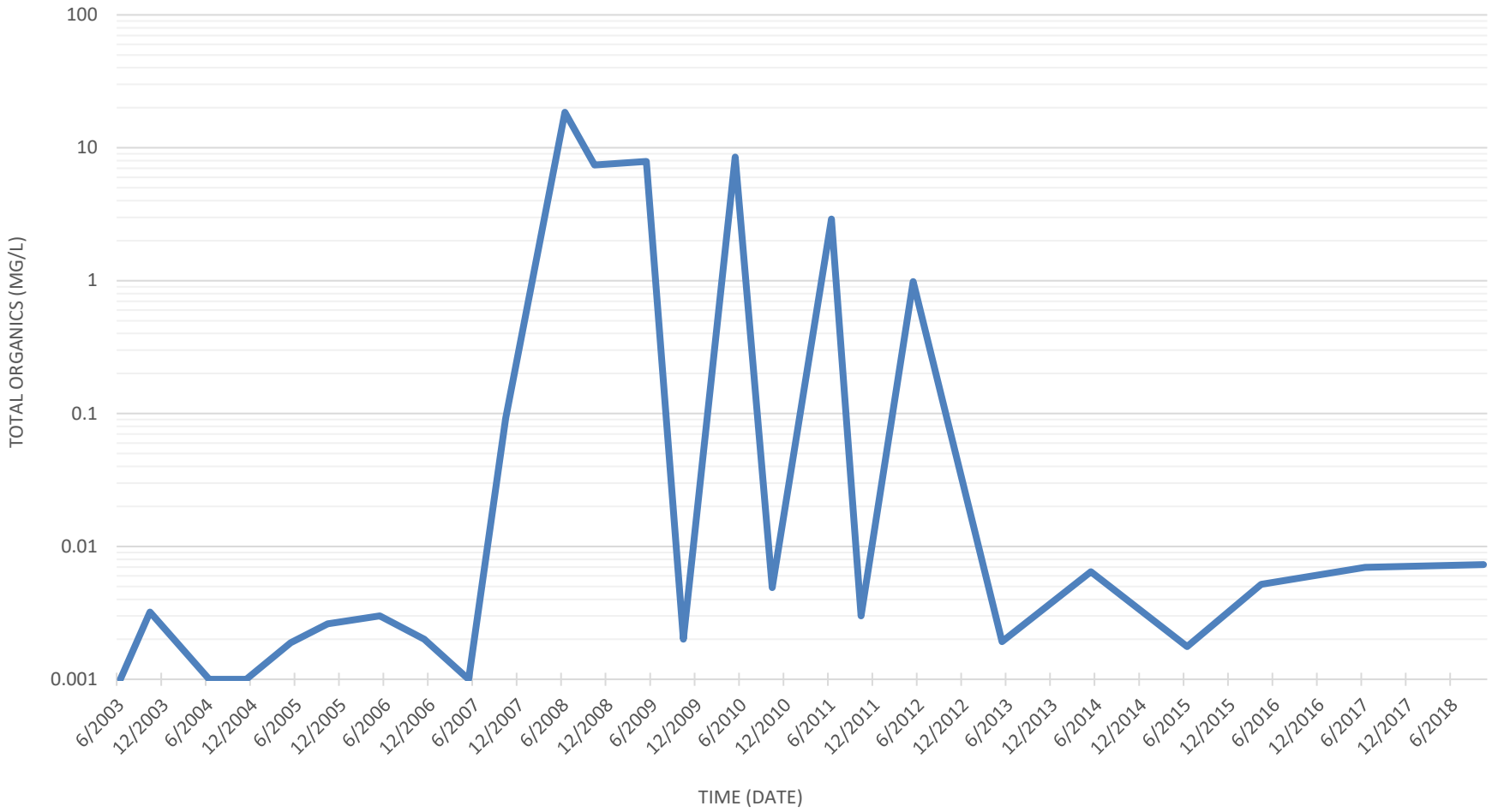


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

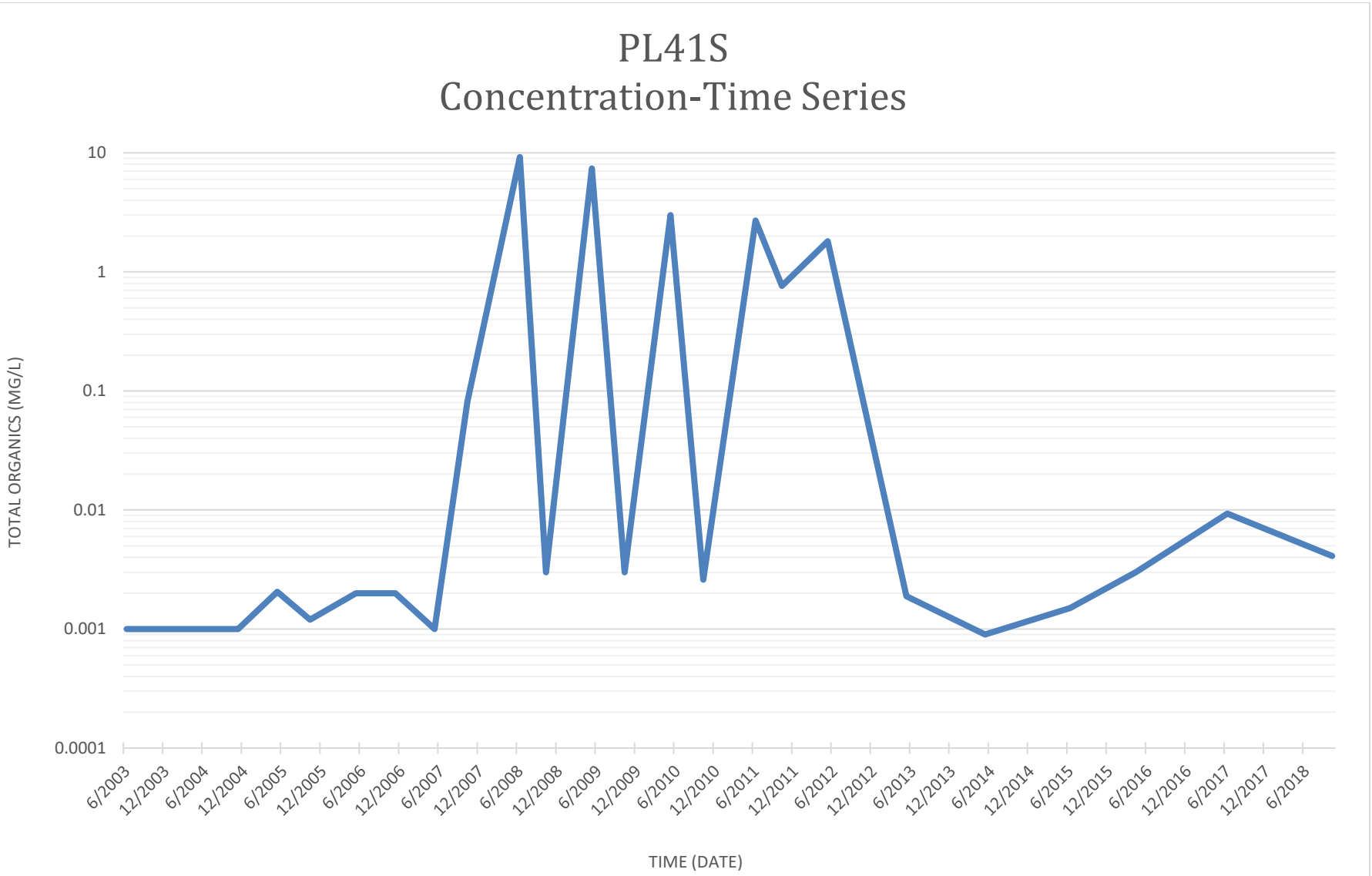
PB322NE4
Concentration-Time Series

Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PL41N
Concentration-Time Series

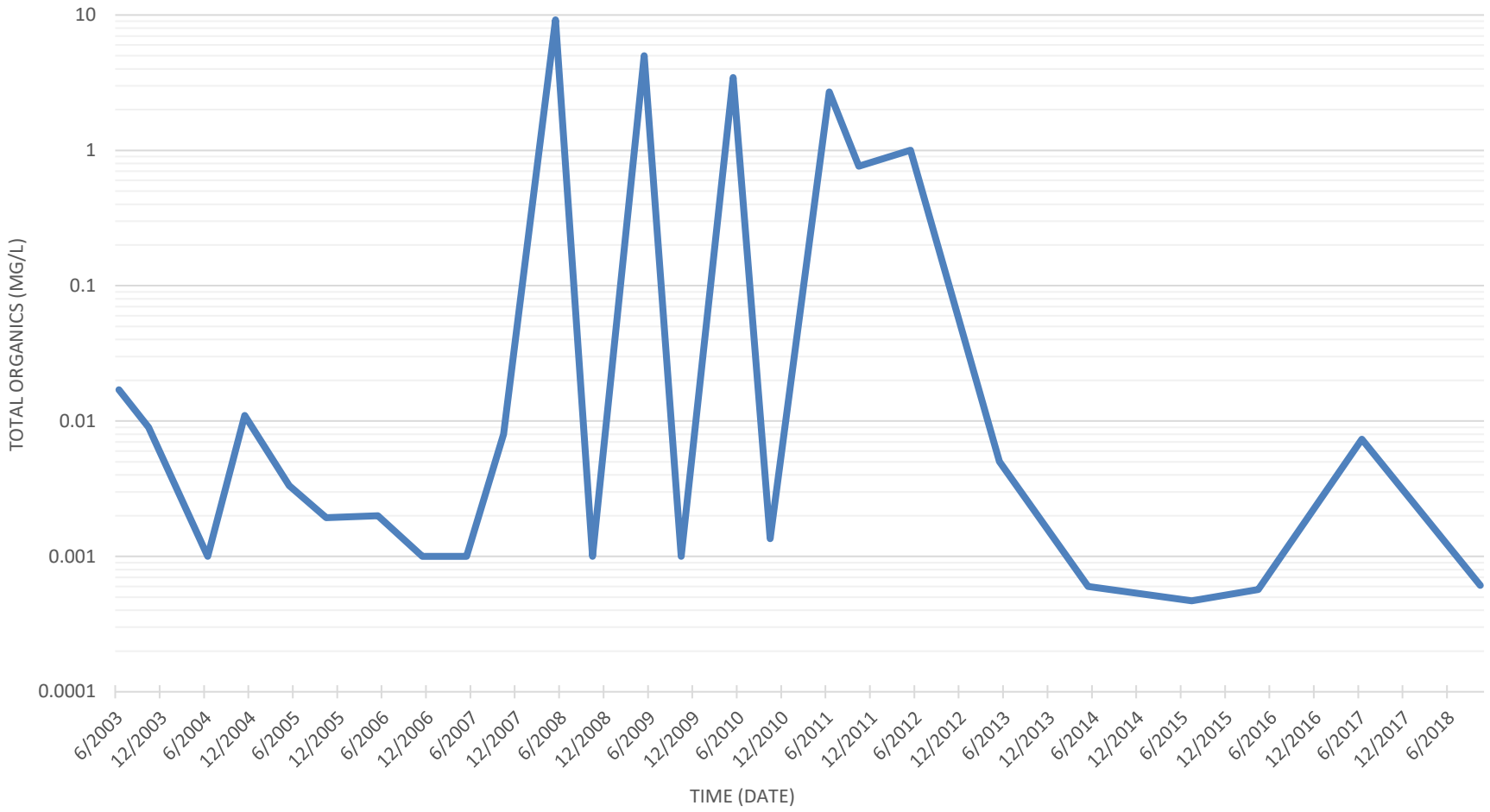


Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.



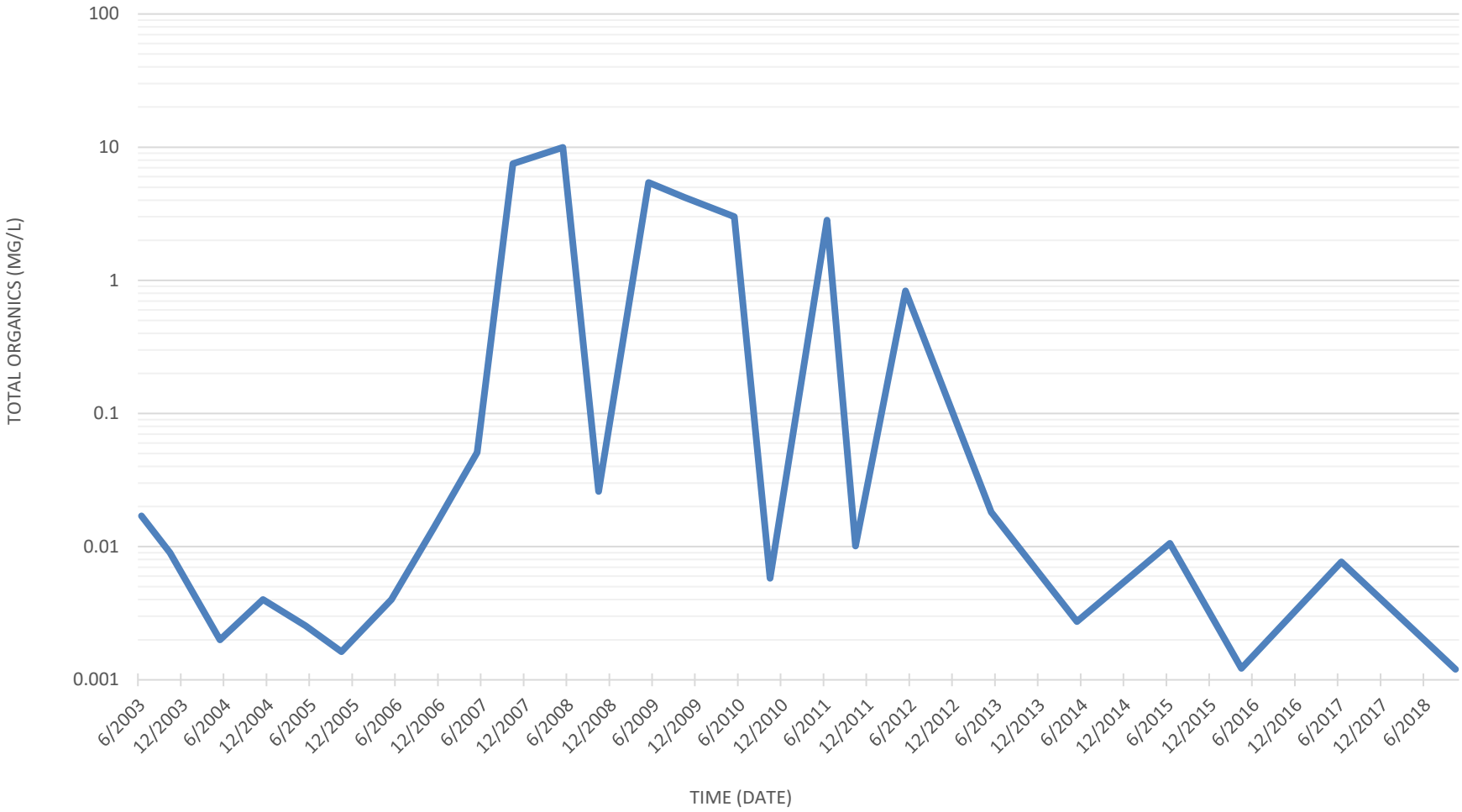
Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PL42E
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

PL42W
Concentration-Time Series



Note: The total organic concentrations presented on this concentration time series plot represent the totalized values for constituents tested for in this well in accordance with the KPGSAP protocol.

ANNUAL PUMPWELL REPORT - DATA ENTRY TABLE FOR CHARTING

OFFICIAL_NAME	SAMPLE_DATE	Sum Of CONC (MG/L)
PB115N	6/15/1994	1553.9
PB115N	10/21/1994	841.5189
PB115N	5/16/1995	668.304
PB115N	9/27/1995	562.68
PB115N	5/24/1996	749.065
PB115N	10/30/1996	563.7
PB115N	5/28/1997	503.73
PB115N	10/24/1997	227.7772
PB115N	5/26/1998	444.417
PB115N	10/21/1998	227.9749
PB115N	6/17/1999	371.6374
PB115N	10/7/1999	425.3575
PB115N	5/15/2000	134.704
PB115N	10/30/2000	103.5386
PB115N	5/14/2001	151.45
PB115N	10/9/2001	152
PB115N	5/9/2002	227.27
PB115N	11/6/2002	223.84
PB115N	5/22/2003	244.36
PB115N	10/22/2003	211.47
PB115N	6/8/2004	189
PB115N	11/4/2004	223
PB115N	5/10/2005	142.06
PB115N	10/19/2005	62.46
PB115N	5/15/2006	140.86
PB115N	10/31/2006	59.202
PB115N	5/14/2007	157
PB115N	11/1/2007	102
PB115N	4/29/2008	193
PB115N	10/21/2008	91
PB115N	6/9/2009	86.1
PB115N	10/19/2009	75.7
PB115N	5/27/2010	62.9
PB115N	10/18/2010	56.8
PB115N	5/16/2011	86.415
PB115N	10/21/2011	147.3
PB115N	5/8/2012	53.49
PB115N	5/9/2013	58.7212
PB115N	5/16/2014	104.5
PB115N	5/29/2015	55.1
PB115N	4/27/2016	27.4
PB115N	10/10/2017	37.01
PB115N	10/16/2018	35.07
PB119ER	6/4/1997	1.6373
PB119ER	9/11/1997	0.9998
PB119ER	10/23/1997	0.7963
PB119ER	2/2/1998	0.7237
PB119ER	5/26/1998	0.8111
PB119ER	11/5/1998	1.2433
PB119ER	6/18/1999	3.1617
PB119ER	10/6/1999	0.3879
PB119ER	5/15/2000	0.5029
PB119ER	11/3/2000	0.2421
PB119ER	5/11/2001	0.3655
PB119ER	10/23/2001	0.9199
PB119ER	5/2/2002	0.3942

DJS NOTES 1/17/2008

1. MANUALLY LOAD NEW DATA INTO THIS TABLE (Data Tables tab) FOR EACH WELL.

2. GO TO INDIVIDUAL WORKSHEETS TO SEE CHARTS.

3. REFRESH CHARTS BY RIGHT-CLICKING ON CHART, SELECT "SOURCE DATA", TABLE VIEW APPEARS.

4. SELECT THE EXPANDED RANGE OF DATA.

5. RETURN TO CHART VIEW (INDIVIDUAL WORKSHEETS). "FIX" DATE SCALE ON CHART BY DOUBLE-CLICK ON DATE SCALE, SELECT SCALE TAB, AND REVISE DATE RANGE TO INCLUDE NEW DATA.

6. SLIDE R AND L SCALES AS NEEDED TO COMPRESS THE DATE SCALE TO FIT PAGE.

PB119ER	11/8/2002	11.9534
PB119ER	5/16/2003	0.2177
PB119ER	10/22/2003	0.3287
PB119ER	6/4/2004	0.249
PB119ER	10/21/2004	0.27
PB119ER	5/12/2005	0.19261
PB119ER	10/19/2005	0.1256
PB119ER	5/16/2006	0.133
PB119ER	11/3/2006	0.114
PB119ER	5/10/2007	3.833
PB119ER	11/9/2007	0.222
PB119ER	4/28/2008	3.092
PB119ER	10/21/2008	0.093
PB119ER	6/3/2009	5.579
PB119ER	10/19/2009	2.724
PB119ER	5/27/2010	0.12
PB119ER	10/18/2010	0.1
PB119ER	5/16/2011	0.1203
PB119ER	10/21/2011	3.7027
PB119ER	5/8/2012	0.9711
PB119ER	5/9/2013	0.0183
PB119ER	5/16/2014	0.02291
PB119ER	8/31/2015	0.07986
PB119ER	4/28/2016	0.03268
PB119ER	6/6/2017	0.04
PB119ER	10/15/2018	0.06642

PB119NER	6/4/1997	1.7914
PB119NER	9/11/1997	0.1788
PB119NER	10/23/1997	0.1461
PB119NER	2/2/1998	0.1336
PB119NER	5/26/1998	0.3446
PB119NER	11/9/1998	0.195
PB119NER	6/18/1999	0.9802
PB119NER	10/6/1999	0.0382
PB119NER	5/15/2000	0.03
PB119NER	11/3/2000	0.037
PB119NER	5/11/2001	0.0262
PB119NER	10/23/2001	0.0392
PB119NER	5/2/2002	0.025
PB119NER	11/8/2002	10.0241
PB119NER	5/16/2003	0.0188
PB119NER	10/22/2003	0.021
PB119NER	6/4/2004	0.142
PB119NER	10/21/2004	0.018
PB119NER	5/12/2005	0.06758
PB119NER	10/19/2005	0.01405
PB119NER	5/16/2006	0.015
PB119NER	11/3/2006	0.013
PB119NER	5/10/2007	5.112
PB119NER	11/6/2007	3.643
PB119NER	4/28/2008	6.596
PB119NER	10/21/2008	4.33
PB119NER	6/3/2009	0.007
PB119NER	10/19/2009	0.011
PB119NER	5/27/2010	0.0123
PB119NER	10/18/2010	0.0154
PB119NER	5/16/2011	0.0203

PB119NER	10/21/2011	1.4622	
PB119NER	5/8/2012	0.02891	
PB119NER	5/9/2013	0.0099	
PB119NER	5/16/2014	0.01483	
PB119NER	6/12/2015	0.03105	
PB119NER	4/28/2016	0.02305	
PB119NER	6/6/2017	0.019	
PB119NER	10/15/2018	0.2	
PB135ER	6/17/1994	0.423	
PB135ER	10/18/1994	0.055	
PB135ER	5/17/1995	2.0578	
PB135ER	10/4/1995	0.5702	
PB135ER	5/28/1996	1.0973	
PB135ER	10/21/1996	0.016	
PB135ER	6/9/1997	0.5493	
PB135ER	9/11/1997	0.3767	
PB135ER	10/21/1997	0.4847	
PB135ER	2/4/1998	0.3752	
PB135ER	5/20/1998	0.4346	
PB135ER	10/22/1998	0.3686	
PB135ER	6/16/1999	0.4065	
PB135ER	10/6/1999	0.2936	
PB135ER	5/11/2000	0.2167	
PB135ER	11/6/2000	0.1789	
PB135ER	5/18/2001	0.231	
PB135ER	10/23/2001	0.2254	
PB135ER	5/13/2002	0.1575	
PB135ER	11/6/2002	14.7839	
PB135ER	5/16/2003	0.076	
PB135ER	10/22/2003	0.0901	
PB135ER	6/9/2004	0.145	
PB135ER	10/29/2004	0.08	
PB135ER	5/20/2005	0.04944	
PB135ER	11/1/2005	0.0362	
PB135ER	5/16/2006	0.047	
PB135ER	11/8/2006	0.044	
PB135ER	5/16/2007	2.936	
PB135ER	11/6/2007	0.048	
PB135ER	5/2/2008	0.03	
PB135ER	10/28/2008	0.034	
PB135ER	5/28/2009	0.033	
PB135ER	10/19/2009	0.043	
PB135ER	5/12/2010	2.43	
PB135ER	10/18/2010	0.0457	
PB135ER	5/16/2011	0.0361	
PB135ER	10/21/2011	0.818	
PB135ER	5/8/2012	0.9615	
PB135ER	5/9/2013	0.007	
PB135ER	6/9/2014	0.015	
PB135ER	5/29/2015	0.0046	
PB135ER	4/28/2016	0.0038	
PB135ER	6/6/2017	0.0115	
PB135ER	#N/A	#N/A	not sampled in 2018
PB136S	5/20/1994	42.812	
PB136S	10/19/1994	39.7928	
PB136S	5/18/1995	34.4319	

PB136S	9/27/1995	16.302
PB136S	5/30/1996	34.591
PB136S	10/23/1996	16.5246
PB136S	6/9/1997	21.3393
PB136S	10/28/1997	10.8946
PB136S	5/28/1998	4.8658
PB136S	11/10/1998	6.2441
PB136S	6/22/1999	20.4445
PB136S	10/13/1999	16.4688
PB136S	5/18/2000	10.3197
PB136S	10/27/2000	6.683
PB136S	5/15/2001	7.216
PB136S	10/16/2001	4.335
PB136S	5/6/2002	16.6108
PB136S	11/4/2002	13.819
PB136S	5/27/2003	3.8064
PB136S	10/24/2003	2.99
PB136S	6/11/2004	2
PB136S	10/22/2004	1.278
PB136S	5/11/2005	30.426
PB136S	10/21/2005	0.10099
PB136S	5/15/2006	0.914
PB136S	11/2/2006	2.446
PB136S	5/17/2007	2.61
PB136S	11/1/2007	2.491
PB136S	4/29/2008	0.794
PB136S	10/22/2008	2.183
PB136S	6/8/2009	2.201
PB136S	10/23/2009	3.563
PB136S	5/7/2010	7.1129
PB136S	11/12/2010	2.1181
PB136S	5/18/2011	4.0532
PB136S	10/26/2011	1.6798
PB136S	5/16/2012	1.9031
PB136S	5/9/2013	1.753
PB136S	5/14/2014	1.422
PB136S	6/1/2015	2.8433
PB136S	4/29/2016	1.804
PB136S	6/6/2017	5.418
PB136S	10/17/2018	1.824

PB143NW	6/4/1997	1.2728
PB143NW	9/11/1997	0.0088
PB143NW	10/23/1997	0.0037
PB143NW	2/4/1998	0.0037
PB143NW	5/27/1998	0.0016
PB143NW	10/26/1998	0.0048
PB143NW	6/21/1999	0.0016
PB143NW	10/7/1999	0.6653
PB143NW	5/15/2000	0.0037
PB143NW	11/6/2000	0.0048
PB143NW	5/23/2001	0.0034
PB143NW	10/17/2001	0.0054
PB143NW	5/2/2002	0.0034
PB143NW	10/30/2002	120.0034
PB143NW	5/9/2003	0.0033
PB143NW	10/27/2003	0.005
PB143NW	5/24/2004	0.007

PB143NW	11/2/2004	0.005	
PB143NW	5/20/2005	0.005	
PB143NW	10/25/2005	0.00525	
PB143NW	5/16/2006	0.005	
PB143NW	11/7/2006	0.004	
PB143NW	5/15/2007	0.004	
PB143NW	11/7/2007	0.004	
PB143NW	4/28/2008	0.01	
PB143NW	10/21/2008	0.004	
PB143NW	6/3/2009	0.002	
PB143NW	10/19/2009	0.006	
PB143NW	5/27/2010	1.8028	
PB143NW	10/18/2010	0.0023	
PB143NW	5/16/2011	3.517	
PB143NW	10/21/2011	6.7129	
PB143NW	5/8/2012	0.9525	
PB143NW	5/9/2013	0.0026	
PB143NW	5/16/2014	0.0056	
PB143NW	6/12/2015	0.00252	
PB143NW	4/27/2016	0.0018	
PB143NW	6/6/2017	0.0015	
PB143NW	#N/A	#N/A	not sampled in 2018
PB218N	5/16/1994	0.2581	
PB218N	10/25/1994	0.7775	
PB218N	5/25/1995	0.154	
PB218N	10/11/1995	0.1119	
PB218N	5/21/1996	0.106	
PB218N	10/18/1996	0.1061	
PB218N	5/22/1997	0.16	
PB218N	10/21/1997	0.1164	
PB218N	5/19/1998	0.0446	
PB218N	10/16/1998	0.1083	
PB218N	6/15/1999	0.0528	
PB218N	10/5/1999	0.1864	
PB218N	5/12/2000	0.0342	
PB218N	10/26/2000	0.0534	
PB218N	5/14/2001	0.0487	
PB218N	10/11/2001	0.0945	
PB218N	5/1/2002	0.0255	
PB218N	10/29/2002	0.0821	
PB218N	5/12/2003	0.0287	
PB218N	10/20/2003	0.0485	
PB218N	5/10/2004	0.015	
PB218N	10/20/2004	0.018	
PB218N	5/9/2005	0.006	
PB218N	10/19/2005	0.00873	
PB218N	5/8/2006	0.006	
PB218N	10/30/2006	0.007	
PB218N	5/4/2007	0.006	
PB218N	10/29/2007	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB218N	5/5/2008	0.009	
PB218N	10/21/2008	0.004	
PB218N	6/4/2009	0.004	
PB218N	10/19/2009	0.004	
PB218N	5/6/2010	0.008	
PB218N	10/19/2010	0.011	
PB218N	5/19/2011	0.0042	

PB218N	10/24/2011	0.0089	
PB218N	5/18/2012	0.01	
PB218N	5/20/2013	0.0006	
PB218N	5/19/2014	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB218N	6/1/2015	0.00054	
PB218N	4/27/2016	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB218N	6/6/2017	0.00051	
PB218N	10/15/2018	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB319N	6/27/1997	0.0086	
PB319N	10/16/1997	0.0125	
PB319N	5/15/1998	0.0089	
PB319N	10/2/1998	0.0089	
PB319N	4/5/1999	0.0038	
PB319N	9/30/1999	0.0135	
PB319N	5/4/2000	0.006	
Manual entry	10/15/2000	0.001	
Manual entry	5/4/2001	0.001	
PB319N	10/5/2001	0.0083	
Manual entry	4/22/2002	0.006	
PB319N	10/28/2002	0.006	
PB319N	5/1/2003	0.0707	
PB319N	10/17/2003	0.0047	
PB319N	5/10/2004	0.001	
PB319N	10/19/2004	0.003	
PB319N	5/2/2005	0.002	
PB319N	10/18/2005	0.001	manual entry
PB319N	5/11/2006	0.002	
PB319N	11/7/2006	0.003	
PB319N	5/16/2007	0.002	
PB319N	11/7/2007	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB319N	5/2/2008	0.004	
PB319N	10/28/2008	0.005	
PB319N	6/9/2009	0.002	
PB319N	10/20/2009	0.003	
PB319N	5/28/2010	0.0055	
PB319N	10/25/2010	0.0036	
PB319N	5/17/2011	0.8099	
PB319N	10/27/2011	0.008	
PB319N	6/13/2012	0.0085	
PB319N	5/23/2013	0.0071	
PB319N	5/21/2014	0.0077	
PB319N	5/29/2015	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB319N	4/27/2016	0.046	
PB319N	6/6/2017	0.0054	
PB319N	#N/A	#N/A	not sampled in 2018
PB329E2	2/3/1995	0.0217	
PB329E2	6/9/1995	0.108	
PB329E2	5/15/1996	0.235	
PB329E2	10/30/1996	0.1806	
PB329E2	5/13/1997	0.332	
PB329E2	10/15/1997	0.2946	
PB329E2	4/15/1998	0.5878	
PB329E2	10/1/1998	0.0027	
PB329E2	4/15/1999	0.001	
PB329E2	10/1/1999	0.001	
PB329E2	4/15/2000	0.001	

PB329E2	10/15/2000	0.001	
PB329E2	5/4/2001	0.001	
PB329E2	10/5/2001	0.001	
PB329E2	4/22/2002	0.0059	
PB329E2	10/28/2002	0.001	
PB329E2	5/1/2003	0.003	
Manual	10/28/2003	0.001	No value
PB329E2	5/10/2004	0.001	Manual entry
PB329E2	10/19/2004	0.001	Manual entry
PB329E2	5/10/2005	0.001	Manual entry
PB329E2	10/18/2005	0.001	Manual entry
PB329E2	5/4/2006	0.001	Manual entry
PB329E2	10/30/2006	0.001	Manual entry
PB329E2	5/4/2007	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB329E2	11/12/2007	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB329E2	4/30/2008	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB329E2	10/27/2008	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB329E2	6/9/2009	0.001	
PB329E2	10/20/2009	0.001	
PB329E2	5/28/2010	0.001	
PB329E2	10/25/2010	0.001	
PB329E2	5/17/2011	0.002	
PB329E2	10/27/2011	0.001	
PB329E2	5/22/2012	0.001	
PB329E2	5/23/2013	0.1163	
PB329E2	5/21/2014	0.1545	
PB329E2	5/22/2015	0.1212	
PB329E2	4/27/2016	0.1265	
PB329E2	8/1/2017	0.1229	
PB329E2	10/15/2018	0.1506	

PB349N	6/9/1995	0.033	
PB349N	9/28/1995	0.034	
PB349N	5/13/1996	0.0098	
PB349N	10/30/1996	0.015	
PB349N	5/12/1997	0.03701	
PB349N	10/15/1997	0.0293	
PB349N	4/16/1998	0.0029	
Manual entry	10/1/1998	0.001	
Manual entry	4/15/1999	0.001	
Manual entry	10/1/1999	0.001	
Manual entry	4/15/2000	0.001	
PB349N	10/15/2000	0.001	
Manual entry	5/3/2001	0.0014	
Manual entry	10/5/2001	0.001	
Manual entry	4/22/2002	0.001	No value
Manual entry	10/28/2002	0.001	No value
Manual entry	10/28/2002	0.001	No value
Manual entry	5/1/2003	0.001	No value
Manual	10/28/2003	0.001	No value
PB349N	5/10/2004	0.001	No hits
PB349N	10/19/2004	0.001	No hits
PB349N	5/2/2005	0.001	No hits
PB349N	10/18/2005	0.001	No hits
PB349N	5/4/2006	0.001	No hits
PB349N	10/30/2006	0.001	No hits
PB349N	5/7/2007	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	11/7/2007	2.323	

PB349N	4/30/2008	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	10/27/2008	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	6/9/2009	0.001	
PB349N	10/20/2009	0.001	
PB349N	5/28/2010	0.001	
PB349N	10/25/2010	0.001	
PB349N	6/21/2011	0.001	
PB349N	10/27/2011	0.001	
PB349N	5/22/2012	0.001	
PB349N	5/23/2013	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	5/21/2014	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	7/7/2015	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	4/29/2016	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	6/7/2017	0.001	0 is actual value, 0.001 assigned as place-holder for charting
PB349N	10/18/2018	0.001	0 is actual value, 0.001 assigned as place-holder for charting

PB350NE2	5/9/1994	0.1215
PB350NE2	10/27/1994	0.3356
PB350NE2	6/16/1995	0.1611
PB350NE2	9/29/1995	0.35
PB350NE2	5/17/1996	0.19
PB350NE2	10/16/1996	0.19
PB350NE2	6/27/1997	0.7413
PB350NE2	10/16/1997	0.14
PB350NE2	5/15/1998	0.092
PB350NE2	10/2/1998	0.1297
PB350NE2	5/24/1999	0.0873
PB350NE2	9/30/1999	0.089
PB350NE2	5/4/2000	0.061
PB350NE2	10/16/2000	0.0623
PB350NE2	5/4/2001	0.0798
PB350NE2	10/5/2001	0.0141
PB350NE2	4/22/2002	0.0406
PB350NE2	10/28/2002	0.056
PB350NE2	5/1/2003	0.1382
PB350NE2	10/17/2003	0.0712
PB350NE2	5/10/2004	0.045
PB350NE2	10/19/2004	0.035
PB350NE2	5/2/2005	0.0186
PB350NE2	10/18/2005	0.008
PB350NE2	5/11/2006	0.016
PB350NE2	11/7/2006	0.014
PB350NE2	5/16/2007	0.013
PB350NE2	11/7/2007	0.014
PB350NE2	5/2/2008	0.02
PB350NE2	10/28/2008	0.015
PB350NE2	6/9/2009	0.019
PB350NE2	6/20/2009	0.022
PB350NE2	5/28/2010	0.028
PB350NE2	10/25/2010	0.034
PB350NE2	5/17/2011	0.0097
PB350NE2	10/27/2011	0.015
PB350NE2	5/22/2012	0.412
PB350NE2	5/23/2013	0.025
PB350NE2	5/21/2014	0.0087
PB350NE2	6/11/2015	0.00041
PB350NE2	4/27/2016	0.022
PB350NE2	6/6/2017	0.0048

PB350NE2	10/15/2018	0.01937
PB350NW	6/27/1997	0.3439
PB350NW	10/16/1997	0.6021
PB350NW	5/15/1998	0.9546
PB350NW	10/2/1998	0.4469
PB350NW	5/24/1999	0.2969
PB350NW	9/30/1999	0.2728
PB350NW	5/4/2000	0.4128
PB350NW	10/16/2000	0.01
PB350NW	5/4/2001	0.1611
PB350NW	10/5/2001	0.097
PB350NW	4/22/2002	0.0925
PB350NW	10/28/2002	0.3834
PB350NW	5/1/2003	0.2792
PB350NW	10/17/2003	0.2071
PB350NW	5/10/2004	0.225
PB350NW	10/19/2004	0.115
PB350NW	5/2/2005	19.07532
PB350NW	10/18/2005	0.0761
PB350NW	5/11/2006	0.123
PB350NW	11/7/2006	0.093
PB350NW	5/16/2007	0.102
PB350NW	11/7/2007	0.131
PB350NW	5/2/2008	0.066
PB350NW	10/28/2008	0.056
PB350NW	6/9/2009	0.043
PB350NW	10/20/2009	0.039
PB350NW	5/28/2010	0.05699
PB350NW	10/25/2010	0.0599
PB350NW	5/17/2011	0.033
PB350NW	10/27/2011	0.825
PB350NW	5/22/2012	0.4656
PB350NW	5/23/2013	0.0476
PB350NW	5/21/2014	0.03457
PB350NW	6/11/2015	0.00052
PB350NW	4/27/2016	0.05289
PB350NW	6/6/2017	0.00506
PB350NW	10/15/2018	0.07
PB53N2	6/1/1994	1.992
PB53N2	10/24/1994	103.27
PB53N2	5/30/1995	71.8746
PB53N2	10/9/1995	72.59
PB53N2	6/4/1996	62.7037
PB53N2	10/25/1996	16.5879
PB53N2	6/13/1997	21.0732
PB53N2	10/30/1997	21.7156
PB53N2	6/9/1998	16.7396
PB53N2	11/10/1998	0.0579
PB53N2	6/24/1999	19.8166
PB53N2	10/11/1999	28.2599
PB53N2	5/23/2000	0.8681
PB53N2	11/2/2000	8.2966
PB53N2	5/17/2001	7.83
PB53N2	10/22/2001	5.0361
PB53N2	5/13/2002	6.4252
PB53N2	11/11/2002	4.672

PB53N2	6/3/2003	2.997	
PB53N2	10/29/2003	4.875	
PB53N2	5/20/2004	1.97	
PB53N2	10/27/2004	2.15	
PB53N2	5/5/2005	2.28	
PB53N2	10/26/2005	0.547	
PB53N2	5/8/2006	0.279	
PB53N2	11/1/2006	3.438	
PB53N2	5/8/2007	0.023	
PB53N2	10/31/2007	1.088	
PB53N2	5/8/2008	19.5	
PB53N2	10/27/2008	7.578	
PB53N2	6/17/2009	8.812	
PB53N2	10/20/2009	4.046	
PB53N2	5/7/2010	8.72467	
PB53N2	10/19/2010	0.2504	
PB53N2	5/18/2011	0.0075	
PB53N2	10/20/2011	0.0128	
PB53N2	5/8/2012	1.11	
PB53N2	5/9/2013	0.0222	
PB53N2	6/27/2014	0.01812	
PB53N2	12/11/2015	0.03384	
PB53N2	4/28/2016	0.00032	
PB53N2	6/5/2017	0.06605	
PB53N2	#N/A	#N/A	not sampled in 2018

PB54NW	6/1/1994	123.2962	
PB54NW	10/24/1994	212.9213	
PB54NW	5/26/1995	232.1309	
PB54NW	6/9/1995	0.1847	
PB54NW	6/5/1996	22.9175	
PB54NW	10/25/1996	69.5838	
PB54NW	6/13/1997	430.977	
PB54NW	10/30/1997	31.7188	
PB54NW	6/9/1998	697.3942	
PB54NW	6/24/1999	0.4077	
PB54NW	10/11/1999	1.315	
PB54NW	5/23/2000	0.1106	
PB54NW	11/2/2000	0.6274	
PB54NW	5/18/2001	201.6626	
PB54NW	10/22/2001	153.3763	
PB54NW	5/13/2002	200.0041	
PB54NW	11/11/2002	235.8064	
PB54NW	6/3/2003	202.1866	
PB54NW	10/29/2003	192.9065	
PB54NW	5/20/2004	206	
PB54NW	10/27/2004	170	
PB54NW	5/4/2005	190.89	
PB54NW	10/26/2005	189.11	
PB54NW	5/8/2006	170.002	
PB54NW	11/6/2006	191.4	
PB54NW	5/11/2007	174	
PB54NW	10/29/2007	160	
PB54NW	5/8/2008	441	
PB54NW	10/22/2008	256	
PB54NW	6/17/2009	20.89	
PB54NW	10/20/2009	126	
PB54NW	5/7/2010	152.471	

PB54NW	10/19/2010	232.2075
PB54NW	5/18/2011	130.0035
PB54NW	10/20/2011	252.8944
PB54NW	5/8/2012	224.2036
PB54NW	5/9/2013	271.1
PB54NW	6/27/2014	10.069
PB54NW	8/31/2015	470
PB54NW	9/20/2016	350
PB54NW	6/5/2017	400
PB54NW	10/15/2018	534.8
PB54SE	6/1/1994	482.4319
PB54SE	10/24/1994	181.3055
PB54SE	5/26/1995	115.913
PB54SE	10/6/1995	7.7246
PB54SE	6/6/1996	5.1453
PB54SE	10/29/1996	5.0455
PB54SE	6/13/1997	23.4044
PB54SE	10/30/1997	0.1868
PB54SE	6/9/1998	0.7712
PB54SE	11/10/1998	14.6242
PB54SE	6/24/1999	1.5974
PB54SE	10/21/1999	1.563
PB54SE	5/23/2000	0.1253
PB54SE	11/3/2000	0.079
PB54SE	5/22/2001	5.091
PB54SE	10/23/2001	1.58
PB54SE	5/21/2002	0.1474
PB54SE	11/11/2002	2.139
PB54SE	6/5/2003	16.133
PB54SE	10/29/2003	0.0905
PB54SE	5/24/2004	0.138
PB54SE	11/3/2004	1.339
PB54SE	5/5/2005	41.543
PB54SE	10/26/2005	0.02706
PB54SE	5/8/2006	0.037
PB54SE	11/6/2006	0.06
PB54SE	5/8/2007	0.096
PB54SE	11/12/2007	0.047
PB54SE	5/15/2008	7.534
PB54SE	10/27/2008	0.259
PB54SE	6/17/2009	448
PB54SE	10/20/2009	0.053
PB54SE	5/7/2010	8.70469
PB54SE	10/19/2010	0.0182
PB54SE	5/18/2011	0.0787
PB54SE	10/20/2011	0.6554
PB54SE	5/8/2012	1.18872
PB54SE	5/9/2013	0.03198
PB54SE	6/27/2014	0.35435
PB54SE	8/31/2015	0.0136
PB54SE	4/28/2016	0.08769
PB54SE	6/5/2017	0.17276
PB54SE	10/15/2018	0.0089
PB57W	6/1/1994	80.4053
PB57W	10/24/1994	1568.7625

PB57W	6/5/1995	199.7816
PB57W	10/9/1995	289.6037
PB57W	6/7/1996	34.695
PB57W	10/29/1996	568.1237
PB57W	6/16/1997	53.7139
PB57W	11/3/1997	5.5012
PB57W	6/9/1998	53.6254
PB57W	11/12/1998	231.4967
PB57W	7/7/1999	99.7166
PB57W	10/26/1999	886.22
PB57W	6/8/2000	73.9235
PB57W	11/16/2000	249.561
PB57W	5/22/2001	351.8946
PB57W	11/7/2001	1.782
PB57W	5/13/2002	8.7459
PB57W	11/12/2002	3.4274
PB57W	6/5/2003	3.5
PB57W	10/29/2003	0.8031
PB57W	5/21/2004	0.74
PB57W	10/29/2004	1.089
PB57W	5/5/2005	34
PB57W	10/26/2005	0.258
PB57W	5/8/2006	4.695
PB57W	11/2/2006	1.631
PB57W	5/8/2007	5.559
PB57W	11/20/2007	14.3
PB57W	5/15/2008	541
PB57W	10/27/2008	1253
PB57W	6/10/2009	566
PB57W	10/20/2009	476
PB57W	5/20/2010	289.2431
PB57W	10/19/2010	253.5033
PB57W	5/18/2011	56.4014
PB57W	10/20/2011	87.3722
PB57W	5/8/2012	161.1
PB57W	5/9/2013	0.9678
PB57W	5/16/2014	59.78
PB57W	6/12/2015	411.65
PB57W	4/28/2016	0.1971
PB57W	9/20/2016	0.03221
PB57W	6/6/2017	0.15818
PB57W	10/15/2018	0.2074
PL50N2	5/20/1994	256.484
PL50N2	10/19/1994	310.8703
PL50N2	5/18/1995	161.9285
PL50N2	9/27/1995	381.186
PL50N2	5/30/1996	206.1
PL50N2	10/23/1996	110.0826
PL50N2	5/28/1997	10.371
PL50N2	10/28/1997	22.5465
PL50N2	5/28/1998	43.6681
PL50N2	11/9/1998	1.2208
PL50N2	6/22/1999	1071.683
PL50N2	10/13/1999	342.7063
PL50N2	5/18/2000	0.3669
PL50N2	10/30/2000	56.2182
PL50N2	5/15/2001	21.6

PL50N2	10/16/2001	192.06
PL50N2	5/6/2002	388.046
PL50N2	11/4/2002	336.377
PL50N2	5/27/2003	1000.068
PL50N2	10/24/2003	1102.381
PL50N2	5/25/2004	950
PL50N2	10/22/2004	1068
PL50N2	5/11/2005	947.06
PL50N2	10/21/2005	718.054
PL50N2	5/15/2006	185.931
PL50N2	11/2/2006	587.55
PL50N2	5/17/2007	435
PL50N2	11/1/2007	336
PL50N2	4/29/2008	228
PL50N2	10/22/2008	33.8
PL50N2	6/8/2009	559
PL50N2	10/23/2009	617
PL50N2	5/7/2010	261.735
PL50N2	10/28/2010	424.291
PL50N2	5/18/2011	151.033
PL50N2	10/26/2011	702.991
PL50N2	5/16/2012	299.64
PL50N2	5/8/2013	297
PL50N2	5/14/2014	306
PL50N2	6/1/2015	0.3531
PL50N2	4/29/2016	703.7
PL50N2	9/20/2016	879.2
PL50N2	6/6/2017	951
PL50N2	10/17/2018	977.8
PL50N3	5/20/1994	0.8034
PL50N3	10/28/1994	0.6335
PL50N3	5/17/1995	0.5234
PL50N3	9/27/1995	0.4742
PL50N3	5/30/1996	0.5689
PL50N3	10/23/1996	0.3492
PL50N3	5/28/1997	0.2983
PL50N3	10/28/1997	0.688
PL50N3	5/28/1998	0.4505
PL50N3	11/9/1998	0.3034
PL50N3	6/22/1999	0.5669
PL50N3	10/13/1999	0.2522
PL50N3	5/18/2000	0.1294
PL50N3	10/30/2000	0.1967
PL50N3	5/15/2001	0.5024
PL50N3	10/16/2001	0.4911
PL50N3	5/6/2002	0.2536
PL50N3	11/4/2002	18.0956
PL50N3	5/27/2003	0.1385
PL50N3	10/24/2003	0.2689
PL50N3	5/25/2004	0.385
PL50N3	10/22/2004	0.187
PL50N3	5/11/2005	26.81233
PL50N3	10/21/2005	0.0956
PL50N3	5/15/2006	0.09
PL50N3	11/2/2006	0.095
PL50N3	5/17/2007	0.125
PL50N3	11/1/2007	0.12

PL50N3	4/29/2008	0.133	
PL50N3	10/22/2008	0.094	
PL50N3	6/8/2009	0.044	
PL50N3	10/23/2009	0.086	
PL50N3	5/7/2010	2.82	
PL50N3	10/28/2010	0.0646	
PL50N3	5/18/2011	0.0864	
PL50N3	10/26/2011	1.0064	
PL50N3	5/16/2012	0.1271	
PL50N3	5/8/2013	0.01518	
PL50N3	5/14/2014	0.00698	
PL50N3	6/1/2015	0.0088	
PL50N3	4/29/2016	0.01228	
PL50N3	6/6/2017	0.01672	
PL50N3	#N/A	#N/A	not sampled in 2018
PL50NW3	5/25/1994	0.1762	
PL50NW3	10/19/1994	0.1527	
PL50NW3	5/18/1995	0.109	
PL50NW3	9/27/1995	0.095	
PL50NW3	5/30/1996	0.1428	
PL50NW3	10/23/1996	0.3218	
PL50NW3	6/9/1997	0.2897	
PL50NW3	10/28/1997	0.2691	
PL50NW3	5/28/1998	0.1325	
PL50NW3	11/5/1998	0.0624	
PL50NW3	6/22/1999	0.2913	
PL50NW3	10/13/1999	0.0666	
PL50NW3	5/18/2000	0.3605	
PL50NW3	10/27/2000	0.0952	
PL50NW3	5/15/2001	0.1084	
PL50NW3	10/16/2001	0.0525	
PL50NW3	5/6/2002	0.0551	
PL50NW3	11/4/2002	40.1589	
PL50NW3	5/27/2003	0.0442	
PL50NW3	10/24/2003	0.0425	
PL50NW3	5/25/2004	0.047	
PL50NW3	10/22/2004	0.046	
PL50NW3	5/11/2005	24.04653	
PL50NW3	10/21/2005	0.02978	
PL50NW3	5/15/2006	0.057	
PL50NW3	11/2/2006	0.031	
PL50NW3	5/17/2007	0.032	
PL50NW3	11/1/2007	0.034	
PL50NW3	4/29/2008	0.037	
PL50NW3	10/22/2008	0.026	
PL50NW3	6/8/2009	0.013	
PL50NW3	10/23/2009	7.268	
PL50NW3	6/18/2010	0.0344	
PL50NW3	10/28/2010	0.13919	
PL50NW3	5/18/2011	0.0247	
PL50NW3	10/26/2011	2.7235	
PL50NW3	5/16/2012	0.02891	
PL50NW3	5/8/2013	0.01427	
PL50NW3	5/14/2014	0.01035	
PL50NW3	8/31/2015	0.01834	
PL50NW3	4/29/2016	0.01558	
PL50NW3	6/6/2017	0.01837	

PL50NW3	10/17/2018	0.0098
PL50W	5/20/1994	0.1255
PL50W	10/19/1994	0.216
PL50W	5/18/1995	0.0914
PL50W	9/27/1995	0.0982
PL50W	5/30/1996	0.1192
PL50W	10/23/1996	0.1799
PL50W	5/28/1997	0.0829
PL50W	10/28/1997	0.3796
PL50W	5/29/1998	0.1074
PL50W	11/5/1998	0.0845
PL50W	6/22/1999	0.1019
PL50W	10/20/1999	0.1404
PL50W	5/18/2000	0.0559
PL50W	10/27/2000	0.0566
PL50W	5/15/2001	0.0643
PL50W	10/12/2001	0.0438
PL50W	5/6/2002	0.0484
PL50W	11/6/2002	17.1496
PL50W	5/21/2003	0.0201
PL50W	10/24/2003	0.0433
PL50W	5/25/2004	0.044
PL50W	10/22/2004	0.042
PL50W	5/11/2005	31.04144
PL50W	10/21/2005	0.0231
PL50W	5/15/2006	0.032
PL50W	11/2/2006	0.025
PL50W	5/17/2007	0.028
PL50W	11/1/2007	0.018
PL50W	4/30/2008	0.03
PL50W	10/22/2008	0.026
PL50W	6/8/2009	0.012
PL50W	10/23/2009	0.025
PL50W	6/18/2010	0.0344
PL50W	10/28/2010	0.13919
PL50W	5/18/2011	0.0243
PL50W	10/26/2011	0.8713
PL50W	5/16/2012	0.026
PL50W	5/8/2013	0.0141
PL50W	5/14/2014	0.014
PL50W	6/1/2015	0.00409
PL50W	4/28/2016	0.0131
PL50W	10/10/2017	0.0169
PL50W	10/17/2018	0.01437
PL54E	6/4/1997	0.0014
PL54E	9/11/1997	0.097
PL54E	10/23/1997	0.0794
PL54E	2/4/1998	0.3299
PL54E	5/27/1998	0.3954
PL54E	10/26/1998	4.022
PL54E	6/18/1999	14.0115
PL54E	10/7/1999	0.0285
PL54E	11/6/2000	0.0639
PL54E	5/24/2001	0.0919
PL54E	10/17/2001	0.1003
PL54E	5/2/2002	0.054

PL54E	10/30/2002	2.225	
PL54E	5/9/2003	0.0834	
PL54E	10/27/2003	0.018	
PL54E	5/24/2004	0.065	
PL54E	11/2/2004	0.022	
PL54E	5/20/2005	0.02602	
PL54E	10/25/2005	0.01401	
PL54E	5/17/2006	0.007	
PL54E	11/7/2006	0.01	
PL54E	5/15/2007	0.004	
PL54E	11/7/2007	0.051	
PL54E	4/28/2008	0.007	
PL54E	11/3/2008	0.003	
PL54E	6/3/2009	0.005	
PL54E	10/19/2009	0.006	
PL54E	5/7/2010	2.7277	
PL54E	10/28/2010	0.0164	
PL54E	5/16/2011	5.7212	
PL54E	10/21/2011	2.8381	
PL54E	5/8/2012	1.00097	
PL54E	5/9/2013	0.0207	
PL54E	5/16/2014	0.1109	
PL54E	5/29/2015	0.001	actual value 0
PL54E	4/27/2016	0.0269	
PL54E	6/6/2017	0.0042	
PL54E	#N/A	#N/A	not sampled in 2018

PL54NE	5/27/1998	0.1913	
PL54NE	8/17/1998	0.7138	
PL54NE	11/10/1998	0.6132	
PL54NE	6/17/1999	0.1238	
PL54NE	10/7/1999	0.1725	
PL54NE	5/12/2000	0.0984	
PL54NE	11/6/2000	0.4322	
PL54NE	5/18/2001	0.1441	
PL54NE	10/17/2001	0.2116	
PL54NE	5/9/2002	0.2361	
PL54NE	10/30/2002	27.7399	
PL54NE	6/11/2003	0.1713	
PL54NE	10/27/2003	0.2454	
PL54NE	6/10/2004	0.003	
PL54NE	11/2/2004	0.33	
PL54NE	5/12/2005	1.5617	
PL54NE	10/25/2005	0.1724	
PL54NE	5/11/2006	0.235	
PL54NE	11/7/2006	0.2	
PL54NE	5/10/2007	0.17	
PL54NE	11/12/2007	0.185	
PL54NE	4/28/2008	6.041	
PL54NE	10/28/2008	0.035	
PL54NE	6/3/2009	0.107	
PL54NE	10/19/2009	0.131	
PL54NE	5/27/2010	0.92392	
PL54NE	10/18/2010	0.1889	
PL54NE	5/16/2011	2.3265	
PL54NE	10/21/2011	0.137	
PL54NE	5/8/2012	1.06332	
PL54NE	5/8/2013	0.08776	

PL54NE	5/16/2014	0.06272	
PL54NE	5/29/2015	0.026	
PL54NE	6/13/2016	0.05151	
PL54NE	6/6/2017	0.0533	
PL54NE	10/15/2018	0.0125	
PL54NE2	5/27/1998	0.0856	
PL54NE2	8/17/1998	0.1333	
PL54NE2	10/21/1998	0.1097	
PL54NE2	6/17/1999	0.0557	
PL54NE2	10/7/1999	0.0613	
PL54NE2	5/12/2000	0.0256	
PL54NE2	11/6/2000	0.0202	
PL54NE2	5/18/2001	0.012	
PL54NE2	10/17/2001	0.0198	
PL54NE2	5/9/2002	7.7239	
PL54NE2	10/30/2002	29.2237	
PL54NE2	6/11/2003	0.0154	
PL54NE2	10/27/2003	0.0259	
PL54NE2	6/9/2004	0.089	
PL54NE2	11/2/2004	0.235	
PL54NE2	5/12/2005	0.00943	
PL54NE2	10/25/2005	0.023	
PL54NE2	5/11/2006	0.03	
PL54NE2	11/7/2006	0.026	
PL54NE2	5/10/2007	0.005	
PL54NE2	11/6/2007	0.015	
PL54NE2	4/28/2008	2.607	
PL54NE2	10/28/2008	6.911	
PL54NE2	6/3/2009	0.007	
PL54NE2	10/19/2009	0.026	
PL54NE2	5/27/2010	0.8209	
PL54NE2	10/18/2010	0.0269	
PL54NE2	5/16/2011	1.9039	
PL54NE2	10/21/2011	0.9438	
PL54NE2	5/8/2012	0.0079	
PL54NE2	5/9/2013	0.0025	
PL54NE2	5/16/2014	0.00093	
PL54NE2	7/7/2015	0.043	
PL54NE2	4/28/2016	0.0092	
PL54NE2	6/6/2017	0.0112	
PL54NE2	#N/A	#N/A	not sampled in 2018
PL54W	6/4/1997	0.9233	
PL54W	9/11/1997	1.2869	
PL54W	10/23/1997	1.0665	
PL54W	2/4/1998	0.5485	
PL54W	5/27/1998	1.2256	
PL54W	10/22/1998	0.8266	
PL54W	6/18/1999	1.7056	
PL54W	10/7/1999	0.675	
PL54W	5/17/2000	0.7846	
PL54W	11/6/2000	0.5344	
PL54W	5/23/2001	0.4764	
PL54W	10/17/2001	0.4148	
PL54W	5/2/2002	0.5763	
PL54W	10/30/2002	146.1879	
PL54W	5/9/2003	0.1428	

PL54W	11/5/2003	0.7751
PL54W	5/24/2004	0.799
PL54W	11/2/2004	0.743
PL54W	5/20/2005	0.6905
PL54W	10/25/2005	0.6137
PL54W	5/16/2006	0.564
PL54W	11/7/2006	0.462
PL54W	5/15/2007	0.486
PL54W	11/7/2007	0.628
PL54W	4/28/2008	2.643
PL54W	10/21/2008	0.464
PL54W	6/3/2009	0.491
PL54W	10/19/2009	4.91
PL54W	5/27/2010	3.6357
PL54W	10/18/2010	0.6828
PL54W	5/16/2011	1.6758
PL54W	10/21/2011	1.5943
PL54W	5/8/2012	0.6282
PL54W	5/9/2013	0.3902
PL54W	5/16/2014	0.3537
PL54W	5/29/2015	0.224
PL54W	6/13/2016	0.31771
PL54W	6/6/2017	0.3057
PL54W	1/16/2019	0.1927
PL73N	6/14/1996	1.5009
PL73N	10/17/1996	0.6709
PL73N	4/24/1997	1.4004
PL73N	4/29/1998	1.1584
PL73N	9/18/1998	0.5984
PL73N	5/17/1999	2.93
PL73N	9/23/1999	0.3034
PL73N	5/2/2000	0.722
PL73N	10/19/2000	0.287
PL73N	5/8/2001	0.798
PL73N	10/1/2001	0.275
PL73N	4/29/2002	0.249
PL73N	10/24/2002	0.1642
PL73N	5/8/2003	0.674
PL73N	10/20/2003	0.336
PL73N	5/21/2004	0.603
PL73N	10/20/2004	0.52
PL73N	5/6/2005	28.53059
PL73N	10/19/2005	0.1902
PL73N	5/17/2006	0.155
PL73N	10/30/2006	0.19
PL73N	5/18/2007	0.276
PL73N	11/5/2007	0.21
PL73N	5/12/2008	0.35
PL73N	10/24/2008	0.382
PL73N	7/1/2009	0.317
PL73N	10/22/2009	0.4
PL73N	5/18/2010	0.446
PL73N	10/29/2010	0.2348
PL73N	6/1/2011	0.3486
PL73N	10/27/2011	0.0071
PL73N	5/31/2012	0.2653
PL73N	6/14/2013	0.3609

PL73N	6/12/2014	0.3903	
PL73N	10/2/2015	0.192	
PL73N	4/29/2016	0.24106	
PL73N	6/7/2017	0.49803	
PL73N	10/18/2018	0.02233	
PWRNW3	10/27/1994	0.0658	
PWRNW3	6/21/1995	0.0944	
PWRNW3	10/30/1995	0.0838	
PWRNW3	5/15/1996	0.0858	
PWRNW3	10/17/1996	0.1055	
PWRNW3	4/22/1997	0.1169	
PWRNW3	4/21/1998	0.136	
PWRNW3	9/22/1998	0.0314	
PWRNW3	4/28/1999	0.0735	
PWRNW3	10/12/1999	0.1212	
PWRNW3	6/16/2000	0.0978	
PWRNW3	11/29/2000	0.1053	
PWRNW3	6/8/2001	0.1075	
PWRNW3	10/25/2001	0.1495	
PWRNW3	6/5/2002	0.0593	
PWRNW3	11/18/2002	0.1411	
PWRNW3	6/24/2003	0.0625	
PWRNW3	11/6/2003	0.1006	
PWRNW3	6/18/2004	0.044	
PWRNW3	11/8/2004	0.063	
PWRNW3	6/14/2005	0.0348	
PWRNW3	11/1/2005	0.0157	
PWRNW3	6/13/2006	0.033	
PWRNW3	11/10/2006	0.028	
PWRNW3	6/8/2007	0.032	
PWRNW3	11/15/2007	0.038	
PWRNW3	6/10/2008	0.021	
PWRNW3	11/10/2008	0.036	
PWRNW3	6/18/2009	0.021	
PWRNW3	10/30/2009	0.025	
PWRNW3	6/2/2010	0.0287	
PWRNW3	11/1/2010	0.0343	
PWRNW3	6/16/2011	0.0273	
PWRNW3	11/1/2011	0.0296	
PWRNW3	6/8/2012	0.02904	
PWRNW3	6/19/2013	0.02454	
PWRNW3	6/18/2014	0.02447	
PWRNW3	6/10/2015	0.0035	
PWRNW3	6/9/2016	0.02375	
PWRNW3	7/19/2017	0.04274	
PWRNW3	#N/A	#N/A	not sampled in 2018
PL41N	6/6/2003	0.001	Manual
PL41N	10/30/2003	0.0032	
PL41N	6/11/2004	0.001	
PL41N	11/1/2004	0.001	Manual entry - no hits
PL41N	5/17/2005	0.00188	
PL41N	10/24/2005	0.00261	
PL41N	5/12/2006	0.003	
PL41N	11/3/2006	0.002	
PL41N	5/11/2007	0.001	
PL41N	10/29/2007	0.092	

PL41N	6/2/2008	18.5	
PL41N	10/29/2008	7.403	
PL41N	5/21/2009	7.902	
PL41N	10/16/2009	0.002	
PL41N	5/4/2010	8.506	
PL41N	10/20/2010	0.0049	
PL41N	6/6/2011	2.9046	
PL41N	10/20/2011	0.003	
PL41N	5/10/2012	0.98302	
PL41N	5/10/2013	0.00192	
PL41N	5/12/2014	0.00644	
PL41N	6/2/2015	0.00176	
PL41N	4/28/2016	0.00519	
PL41N	6/5/2017	0.00697	
PL41N	10/15/2018	0.0073	
PL41S	6/6/2003	0.001	Manual entry - no hits
PL41S	10/30/2003	0.001	Manual entry - no hits
PL41S	6/11/2004	0.001	Manual entry - no hits
PL41S	11/1/2004	0.001	Manual entry - no hits
PL41S	5/17/2005	0.00206	
PL41S	10/24/2005	0.0012	
PL41S	5/12/2006	0.002	
PL41S	11/3/2006	0.002	
PL41S	5/11/2007	0.001	
PL41S	10/29/2007	0.081	
PL41S	6/2/2008	9.219	
PL41S	10/29/2008	0.003	
PL41S	5/27/2009	7.395	
PL41S	10/16/2009	0.003	
PL41S	5/4/2010	3.00232	
PL41S	10/20/2010	0.0026	
PL41S	6/6/2011	2.7013	
PL41S	10/20/2011	0.7626	
PL41S	5/10/2012	1.8072	
PL41S	5/10/2013	0.00189	
PL41S	5/12/2014	0.0009	
PL41S	6/2/2015	0.0015	
PL41S	4/28/2016	0.003	
PL41S	6/5/2017	0.00931	
PL41S	10/15/2018	0.0041	
PL42E	6/6/2003	0.017	
PL42E	10/31/2003	0.009	
PL42E	6/11/2004	0.001	Manual entry - no hits
PL42E	11/1/2004	0.011	
PL42E	5/17/2005	0.00333	
PL42E	10/24/2005	0.00193	
PL42E	5/12/2006	0.002	
PL42E	11/3/2006	0.001	
PL42E	5/11/2007	0.001	
PL42E	10/29/2007	0.008	
PL42E	5/8/2008	9.207	
PL42E	10/29/2008	0.001	
PL42E	5/20/2009	5.002	
PL42E	10/16/2009	0.001	
PL42E	5/4/2010	3.45058	
PL42E	10/20/2010	0.00135	

PL42E	6/8/2011	2.7013
PL42E	10/20/2011	0.7626
PL42E	5/10/2012	1.00073
PL42E	5/10/2013	0.00501
PL42E	5/12/2014	0.0006
PL42E	7/7/2015	0.00047
PL42E	4/28/2016	0.00057
PL42E	6/5/2017	0.00733
PL42E	10/15/2018	0.00061
PL42W	6/6/2003	0.017
PL42W	10/31/2003	0.009
PL42W	5/24/2004	0.002
PL42W	11/1/2004	0.004
PL42W	5/17/2005	0.00254
PL42W	10/24/2005	0.00163
PL42W	5/12/2006	0.004
PL42W	11/3/2006	0.014
PL42W	5/11/2007	0.051
PL42W	10/29/2007	7.524
PL42W	5/8/2008	9.957
PL42W	10/29/2008	0.026
PL42W	5/20/2009	5.42
PL42W	10/16/2009	4.205
PL42W	5/4/2010	3.00094
PL42W	10/20/2010	0.00578
PL42W	6/8/2011	2.8306
PL42W	10/20/2011	0.0101
PL42W	5/10/2012	0.83224
PL42W	5/10/2013	0.01814
PL42W	5/12/2014	0.00274
PL42W	6/12/2015	0.01059
PL42W	4/28/2016	0.00122
PL42W	6/5/2017	0.0077
PL42W	10/15/2018	0.0012
PB303SW	1/26/2005	4.6437
PB303SW	5/2/2005	5.1909
PB303SW	10/17/2005	4.639
PB303SW	5/10/2006	0.041
PB303SW	10/31/2006	0.169
PB303SW	5/7/2007	0.156
PB303SW	10/31/2007	0.009
PB303SW	4/30/2008	0.015
PB303SW	10/29/2008	0.019
PB303SW	6/15/2009	1.855
PB303SW	10/14/2009	2.769
PB303SW	5/17/2010	1.5113
PB303SW	10/27/2010	0.9933
PB303SW	5/27/2011	2.8306
PB303SW	10/28/2011	0.0101
PB303SW	5/23/2012	1.17036
PB303SW	5/21/2013	0.4942
PB303SW	6/11/2014	0.3739
PB303SW	5/22/2015	0.18725
PB303SW	4/27/2016	0.15776
PB303SW	10/10/2017	0.0177
PB303SW	1/16/2019	13.7754

PB303W2	1/26/2005	91.897
PB303W2	5/2/2005	100.62
PB303W2	10/17/2005	7.396
PB303W2	5/10/2006	68.488
PB303W2	10/31/2006	57.372
PB303W2	5/7/2007	33.5
PB303W2	10/31/2007	0.889
PB303W2	4/30/2008	30.8
PB303W2	10/29/2008	18.8
PB303W2	6/15/2009	44.3
PB303W2	10/15/2009	36.5
PB303W2	5/17/2010	36.32
PB303W2	10/27/2010	29.13
PB303W2	5/27/2011	23.112
PB303W2	10/28/2011	17.057
PB303W2	5/23/2012	20.744
PB303W2	5/21/2013	21.355
PB303W2	5/22/2014	20.92
PB303W2	5/22/2015	25.243
PB303W2	4/27/2016	22.83
PB303W2	8/1/2017	20.0605
PB303W2	10/17/2018	0.1232
PB323SE2	1/26/2005	3.0062
PB323SE2	5/2/2005	2.759
PB323SE2	10/17/2005	1.366
PB323SE2	5/10/2006	1.896
PB323SE2	10/31/2006	0.819
PB323SE2	5/7/2007	1.521
PB323SE2	10/31/2007	0.742
PB323SE2	4/30/2008	0.609
PB323SE2	10/27/2008	0.682
PB323SE2	6/9/2009	0.647
PB323SE2	10/14/2009	0.82
PB323SE2	5/17/2010	0.4401
PB323SE2	10/27/2010	0.08
PB323SE2	5/27/2011	0.251
PB323SE2	11/7/2011	1.2786
PB323SE2	5/25/2012	0.84
PB323SE2	6/12/2013	0.0921
PB323SE2	6/9/2014	0.1187
PB323SE2	5/22/2015	0.0127
PB323SE2	4/27/2016	0.05944
PB323SE2	6/7/2017	0.08087
PB323SE2	10/17/2018	43.523
PB307E2	5/17/2011	0.0778
PB307E2	10/25/2011	0.17797
PB307E2	5/22/2012	0.695
PB307E2	5/16/2013	0.618
PB307E2	6/26/2014	0.0057
PB307E2	5/21/2015	0.244
PB307E2	4/29/2016	0.6389
PB307E2	7/21/2017	0.015
PB307E2	10/15/2018	0.40933
PB307N3	5/17/2011	2.2965

PB307N3	10/25/2011	4.282
PB307N3	5/22/2012	2.2721
PB307N3	5/16/2013	1.316
PB307N3	6/26/2014	0.2186
PB307N3	5/21/2015	3.27281
PB307N3	4/29/2016	2.74
PB307N3	7/21/2017	0.7585
PB307N3	10/15/2018	0.18406
PB322NE2	5/17/2011	28
PB322NE2	10/25/2011	17.22
PB322NE2	5/22/2012	22.4113
PB322NE2	5/16/2013	32.0012
PB322NE2	6/26/2014	30
PB322NE2	4/29/2016	22.0014
PB322NE2	7/21/2017	21
PB322NE2	10/17/2018	23.2622
PB322NE4	5/17/2011	28
PB322NE4	10/26/2011	8.3
PB322NE4	5/22/2012	18.61
PB322NE4	5/16/2013	15
PB322NE4	6/26/2014	4.5
PB322NE4	4/29/2016	10.0019
PB322NE4	7/21/2017	1.624
PB322NE4	10/17/2018	0.121

ANNUAL PUMPWELL REPORT - DATA ENTRY TABLE FOR CHARTING

OFFICIAL_NAME	SAMPLE_DATE	Sum Of CONC_MGL
PB115N	6/15/1994	1553.9
PB115N	10/21/1994	841.5189
PB115N	5/16/1995	668.304
PB115N	9/27/1995	562.68
PB115N	5/24/1996	749.065
PB115N	10/30/1996	563.7
PB115N	5/28/1997	503.73
PB115N	10/24/1997	227.7772
PB115N	5/26/1998	444.417
PB115N	10/21/1998	227.9749
PB115N	6/17/1999	371.6374
PB115N	10/7/1999	425.3575
PB115N	5/15/2000	134.704
PB115N	10/30/2000	103.5386
PB115N	5/14/2001	151.45
PB115N	10/9/2001	152
PB115N	5/9/2002	227.27
PB115N	11/6/2002	223.84
PB115N	5/22/2003	244.36
PB115N	10/22/2003	211.47
PB115N	6/8/2004	189
PB115N	11/4/2004	223

Note: The total organic concentrations pres
plot represent the totalized values for consti

PB119ER	6/4/1997	1.6373
PB119ER	9/11/1997	0.9998
PB119ER	10/23/1997	0.7963
PB119ER	2/2/1998	0.7237
PB119ER	5/26/1998	0.8111
PB119ER	11/5/1998	1.2433
PB119ER	6/18/1999	3.1617
PB119ER	10/6/1999	0.3879
PB119ER	5/15/2000	0.5029
PB119ER	11/3/2000	0.2421
PB119ER	5/11/2001	0.3655
PB119ER	10/23/2001	0.9199
PB119ER	5/2/2002	0.3942
PB119ER	11/8/2002	11.9534
PB119ER	5/16/2003	0.2177
PB119ER	10/22/2003	0.3287
PB119ER	6/4/2004	0.249
PB119ER	10/21/2004	0.27

PB119NER	6/4/1997	1.7914

PB119NER	9/11/1997	0.1788
PB119NER	10/23/1997	0.1461
PB119NER	2/2/1998	0.1336
PB119NER	5/26/1998	0.3446
PB119NER	11/9/1998	0.195
PB119NER	6/18/1999	0.9802
PB119NER	10/6/1999	0.0382
PB119NER	5/15/2000	0.03
PB119NER	11/3/2000	0.037
PB119NER	5/11/2001	0.0262
PB119NER	10/23/2001	0.0392
PB119NER	5/2/2002	0.025
PB119NER	11/8/2002	10.0241
PB119NER	5/16/2003	0.0188
PB119NER	10/22/2003	0.021
PB119NER	6/4/2004	0.421
PB119NER	10/21/2004	0.018

PB135ER	6/17/1994	0.423
PB135ER	10/18/1994	0.055
PB135ER	5/17/1995	2.0578
PB135ER	10/4/1995	0.5702
PB135ER	5/28/1996	1.0973
PB135ER	10/21/1996	0.016
PB135ER	6/9/1997	0.5493
PB135ER	9/11/1997	0.3767
PB135ER	10/21/1997	0.4847
PB135ER	2/4/1998	0.3752
PB135ER	5/20/1998	0.4346
PB135ER	10/22/1998	0.3686
PB135ER	6/16/1999	0.4065
PB135ER	10/6/1999	0.2936
PB135ER	5/11/2000	0.2167
PB135ER	11/6/2000	0.1789
PB135ER	5/18/2001	0.231
PB135ER	10/23/2001	0.2254
PB135ER	5/13/2002	0.1575
PB135ER	11/6/2002	14.7839
PB135ER	5/16/2003	0.076
PB135ER	10/22/2003	0.0901
PB135ER	6/9/2004	0.145
PB135ER	10/29/2004	0.08

PB136S	5/20/1994	42.812

PB136S	10/19/1994	39.7928
PB136S	5/18/1995	34.4319
PB136S	9/27/1995	16.302
PB136S	5/30/1996	34.591
PB136S	10/23/1996	16.5246
PB136S	6/9/1997	21.3393
PB136S	10/28/1997	10.8946
PB136S	5/28/1998	4.8658
PB136S	11/10/1998	6.2441
PB136S	6/22/1999	20.4445
PB136S	10/13/1999	16.4688
PB136S	5/18/2000	10.3197
PB136S	10/27/2000	6.683
PB136S	5/15/2001	7.216
PB136S	10/16/2001	4.335
PB136S	5/6/2002	16.6108
PB136S	11/04/02	13.819
PB136S	5/27/2003	3.8064
PB136S	10/24/2003	2.99
PB136S	6/11/2004	2
PB136S	10/22/2004	1.278

PB143NW	6/4/1997	1.2728
PB143NW	9/11/1997	0.0088
PB143NW	10/23/1997	0.0037
PB143NW	2/4/1998	0.0037
PB143NW	5/27/1998	0.0016
PB143NW	10/26/1998	0.0048
PB143NW	6/21/1999	0.0016
PB143NW	10/7/1999	0.6653
PB143NW	5/15/2000	0.0037
PB143NW	11/6/2000	0.0048
PB143NW	5/23/2001	0.0034
PB143NW	10/17/2001	0.0054
PB143NW	5/2/2002	0.0034
PB143NW	10/30/2002	120.0034
PB143NW	5/9/2003	0.0033
PB143NW	10/27/2003	0.005
PB143NW	5/24/2004	0.007
PB143NW	11/2/2004	0.005

PB218N	5/16/1994	0.2581
PB218N	10/25/1994	0.7775

PB218N	5/25/1995	0.154	
PB218N	10/11/1995	0.1119	
PB218N	5/21/1996	0.106	
PB218N	10/18/1996	0.1061	
PB218N	5/22/1997	0.16	
PB218N	10/21/1997	0.1164	
PB218N	5/19/1998	0.0446	
PB218N	10/16/1998	0.1083	
PB218N	6/15/1999	0.0528	
PB218N	10/5/1999	0.1864	
PB218N	5/12/2000	0.0342	
PB218N	10/26/2000	0.0534	
PB218N	5/14/2001	0.0487	
PB218N	10/11/2001	0.0945	
PB218N	5/1/2002	0.0255	
PB218N	10/29/2002	0.0821	
PB218N	5/12/2003	0.0287	
PB218N	10/20/2003	0.0485	
PB218N	5/10/2004	0.015	
PB218N	10/20/2004	0.018	

PB319N	6/27/1997	0.0086	
PB319N	10/16/1997	0.0125	
PB319N	5/15/1998	0.0089	
PB319N	10/2/1998	0.0089	
PB319N	4/5/1999	0.0038	
PB319N	9/30/1999	0.0135	
PB319N	5/4/2000	0.006	
PB319N	10/15/2000	0.001	Manual entry
PB319N	5/4/2001	0.001	Manual entry
PB319N	10/5/2001	0.0083	
PB319N	4/22/2002	0.006	Manual entry
PB319N	10/28/2002	0.006	
PB319N	5/1/2003	0.0707	
PB319N	10/17/2003	0.0047	
PB319N	5/10/2004	0.001	Manual entry
PB319N	10/19/2004	0.003	

PB329E2	2/3/1995	0.0217	
PB329E2	6/9/1995	0.108	
PB329E2	5/15/1996	0.235	
PB329E2	10/30/1996	0.1806	
PB329E2	5/13/1997	0.332	

PB329E2	10/15/1997	0.2946		
PB329E2	4/15/1998	0.5878		
PB329E2	10/1/1998	0.0027		
PB329E2	4/15/1999	0.001		
PB329E2	10/1/1999	0.001		
PB329E2	4/15/2000	0.001		
PB329E2	10/15/2000	0.001		
PB329E2	5/4/2001	0.001		
PB329E2	10/5/2001	0.001		
PB329E2	4/22/2002	0.0059		
PB329E2	10/28/2002	0.001		
PB329E2	5/1/2003	0.003		
PB329E2	10/28/2003	0.001	No value	Manual
PB329E2	5/10/2004	0.001		Manual
PB329E2	10/19/2004	0.001		Manual

PB349N	6/9/1995	0.033		
PB349N	9/28/1995	0.034		
PB349N	5/13/1996	0.0098		
PB349N	10/30/1996	0.015		
PB349N	5/12/1997	0.03701		
PB349N	10/15/1997	0.0293		
PB349N	4/16/1998	0.0029		
PB349N	10/1/1998	0.001		Manual entry
PB349N	4/15/1999	0.001		Manual entry
PB349N	10/1/1999	0.001		Manual entry
PB349N	4/15/2000	0.001		Manual entry
PB349N	10/15/2000	0.001		
PB349N	5/3/2001	0.0014		Manual entry
PB349N	10/5/2001	0.001		Manual entry
PB349N	4/22/2002	0.001	No value	Manual entry
PB349N	10/28/2002	0.001	No value	Manual entry
PB349N	10/28/2002	0.001	No value	Manual entry
PB349N	5/1/2003	0.001	No value	Manual entry
PB349N	10/28/2003	0.001	No value	Manual entry
PB349N	5/10/2004	0.001	No value	Manual entry
PB349N	10/19/2004	0.001	No value	Manual entry

PB350NE2	5/9/1994	0.1215

PB350NE2	10/27/1994	0.3356
PB350NE2	6/16/1995	0.1611
PB350NE2	9/29/1995	0.35
PB350NE2	5/17/1996	0.19
PB350NE2	10/16/1996	0.19
PB350NE2	6/27/1997	0.7413
PB350NE2	10/16/1997	0.14
PB350NE2	5/15/1998	0.092
PB350NE2	10/2/1998	0.1297
PB350NE2	5/24/1999	0.0873
PB350NE2	9/30/1999	0.089
PB350NE2	5/4/2000	0.061
PB350NE2	10/16/2000	0.0623
PB350NE2	5/4/2001	0.0798
PB350NE2	10/5/2001	0.0141
PB350NE2	4/22/2002	0.0406
PB350NE2	10/28/2002	0.056
PB350NE2	5/1/2003	0.1382
PB350NE2	10/17/2003	0.0712
PB350NE2	5/10/2004	0.045
PB350NE2	10/19/2004	0.035

PB350NW	6/27/1997	0.3439
PB350NW	10/16/1997	0.6021
PB350NW	5/15/1998	0.9546
PB350NW	10/2/1998	0.4469
PB350NW	5/24/1999	0.2969
PB350NW	9/30/1999	0.2728
PB350NW	5/4/2000	0.4128
PB350NW	10/16/2000	0.01
PB350NW	5/4/2001	0.1611
PB350NW	10/5/2001	0.097
PB350NW	4/22/2002	0.0925
PB350NW	10/28/2002	0.3834
PB350NW	5/1/2003	0.2792
PB350NW	10/17/2003	0.2071
PB350NW	5/10/2004	0.225
PB350NW	10/19/2004	0.115

PB53N2	6/1/1994	1.992
PB53N2	10/24/1994	103.27

PB53N2	5/30/1995	71.8746
PB53N2	10/9/1995	72.59
PB53N2	6/4/1996	62.7037
PB53N2	10/25/1996	16.5879
PB53N2	6/13/1997	21.0732
PB53N2	10/30/1997	21.7156
PB53N2	6/9/1998	16.7396
PB53N2	11/10/1998	0.0579
PB53N2	6/24/1999	19.8166
PB53N2	10/11/1999	28.2599
PB53N2	5/23/2000	0.8681
PB53N2	11/2/2000	8.2966
PB53N2	5/17/2001	7.83
PB53N2	10/22/2001	5.0361
PB53N2	5/13/2002	6.4252
PB53N2	11/11/2002	4.672
PB53N2	6/3/2003	2.997
PB53N2	10/29/2003	4.875
PB53N2	5/20/2004	1.97
PB53N2	10/27/2004	2.15

PB54NW	6/1/1994	123.2962
PB54NW	10/24/1994	212.9213
PB54NW	5/26/1995	232.1309
PB54NW	6/9/1995	0.1847
PB54NW	6/5/1996	22.9175
PB54NW	10/25/1996	69.5838
PB54NW	6/13/1997	430.977
PB54NW	10/30/1997	31.7188
PB54NW	6/9/1998	697.3942
PB54NW	6/24/1999	0.4077
PB54NW	10/11/1999	1.315
PB54NW	5/23/2000	0.1106
PB54NW	11/2/2000	0.6274
PB54NW	5/18/2001	201.6626
PB54NW	10/22/2001	153.3763
PB54NW	5/13/2002	200.0041
PB54NW	11/11/2002	235.8064
PB54NW	6/3/2003	202.1866
PB54NW	10/29/2003	192.9065
PB54NW	5/20/2004	206
PB54NW	10/27/2004	170

PB54SE	6/1/1994	482.4319
PB54SE	10/24/1994	181.3055
PB54SE	5/26/1995	115.913
PB54SE	10/6/1995	7.7246
PB54SE	6/6/1996	5.1453
PB54SE	10/29/1996	5.0455
PB54SE	6/13/1997	23.4044
PB54SE	10/30/1997	0.1868
PB54SE	6/9/1998	0.7712
PB54SE	11/10/1998	14.6242
PB54SE	6/24/1999	1.5974
PB54SE	10/21/1999	1.563
PB54SE	5/23/2000	0.1253
PB54SE	11/3/2000	0.079
PB54SE	5/22/2001	5.091
PB54SE	10/23/2001	1.58
PB54SE	5/21/2002	0.1474
PB54SE	11/11/2002	2.139
PB54SE	6/5/2003	16.133
PB54SE	10/29/2003	0.0905
PB54SE	5/24/2004	0.138
PB54SE	11/3/2004	1.339

PB57W	6/1/1994	80.4053
PB57W	10/24/1994	1568.763
PB57W	6/5/1995	199.7816
PB57W	10/9/1995	289.6037
PB57W	6/7/1996	34.695
PB57W	10/29/1996	568.1237
PB57W	6/16/1997	53.7139
PB57W	11/3/1997	5.5012
PB57W	6/9/1998	53.6254
PB57W	11/12/1998	231.4967
PB57W	7/7/1999	99.7166
PB57W	10/26/1999	886.22
PB57W	6/8/2000	73.9235
PB57W	11/16/2000	249.561
PB57W	5/22/2001	351.8946
PB57W	11/7/2001	1.782
PB57W	5/13/2002	8.7459
PB57W	11/12/2002	3.4274
PB57W	6/5/2003	3.5
PB57W	10/29/2003	0.8031
PB57W	5/21/2004	0.74
PB57W	10/29/2004	1.089

PL50N2	5/20/1994	256.484
PL50N2	10/19/1994	310.8703
PL50N2	5/18/1995	161.9285
PL50N2	9/27/1995	381.186
PL50N2	5/30/1996	206.1
PL50N2	10/23/1996	110.0826
PL50N2	5/28/1997	10.371
PL50N2	10/28/1997	22.5465
PL50N2	5/28/1998	43.6681
PL50N2	11/9/1998	1.2208
PL50N2	6/22/1999	1071.683
PL50N2	10/13/1999	342.7063
PL50N2	5/18/2000	0.3669
PL50N2	10/30/2000	56.2182
PL50N2	5/15/2001	21.6
PL50N2	10/16/2001	192.06
PL50N2	5/6/2002	388.046
PL50N2	11/4/2002	336.377
PL50N2	5/27/2003	1000.068
PL50N2	10/24/2003	1102.381
PL50N2	5/25/2004	950
PL50N2	10/22/2004	1068

PL50N3	5/20/1994	0.8034
PL50N3	10/28/1994	0.6335
PL50N3	5/17/1995	0.5234
PL50N3	9/27/1995	0.4742
PL50N3	5/30/1996	0.5689
PL50N3	10/23/1996	0.3492
PL50N3	5/28/1997	0.2983
PL50N3	10/28/1997	0.688
PL50N3	5/28/1998	0.4505
PL50N3	11/9/1998	0.3034
PL50N3	6/22/1999	0.5669
PL50N3	10/13/1999	0.2522
PL50N3	5/18/2000	0.1294
PL50N3	10/30/2000	0.1967
PL50N3	5/15/2001	0.5024
PL50N3	10/16/2001	0.4911
PL50N3	5/6/2002	0.2536

PL50N3	11/4/2002	18.0956
PL50N3	5/27/2003	0.1385
PL50N3	10/24/2003	0.2689
PL50N3	5/25/2004	0.385
PL50N3	10/22/2004	0.187

PL50NW3	5/25/1994	0.1762
PL50NW3	10/19/1994	0.1527
PL50NW3	5/18/1995	0.109
PL50NW3	9/27/1995	0.095
PL50NW3	5/30/1996	0.1428
PL50NW3	10/23/1996	0.3218
PL50NW3	6/9/1997	0.2897
PL50NW3	10/28/1997	0.2691
PL50NW3	5/28/1998	0.1325
PL50NW3	11/5/1998	0.0624
PL50NW3	6/22/1999	0.2913
PL50NW3	10/13/1999	0.0666
PL50NW3	5/18/2000	0.3605
PL50NW3	10/27/2000	0.0952
PL50NW3	5/15/2001	0.1084
PL50NW3	10/16/2001	0.0525
PL50NW3	5/6/2002	0.0551
PL50NW3	11/4/2002	40.1589
PL50NW3	5/27/2003	0.0442
PL50NW3	10/24/2003	0.0425
PL50NW3	5/25/2004	0.047
PL50NW3	10/22/2004	0.046

PL50W	5/20/1994	0.1255
PL50W	10/19/1994	0.216
PL50W	5/18/1995	0.0914
PL50W	9/27/1995	0.0982
PL50W	5/30/1996	0.1192
PL50W	10/23/1996	0.1799
PL50W	5/28/1997	0.0829
PL50W	10/28/1997	0.3796
PL50W	5/29/1998	0.1074
PL50W	11/5/1998	0.0845
PL50W	6/22/1999	0.1019
PL50W	10/20/1999	0.1404
PL50W	5/18/2000	0.0559

PL50W	10/27/2000	0.0566
PL50W	5/15/2001	0.0643
PL50W	10/12/2001	0.0438
PL50W	5/6/2002	0.0484
PL50W	11/6/2002	17.1496
PL50W	5/21/2003	0.0201
PL50W	10/24/2003	0.0433
PL50W	5/25/2004	0.044
PL50W	10/22/2004	0.042

PL54E	6/4/1997	0.0014
PL54E	9/11/1997	0.097
PL54E	10/23/1997	0.0794
PL54E	2/4/1998	0.3299
PL54E	5/27/1998	0.3954
PL54E	10/26/1998	4.022
PL54E	6/18/1999	14.0115
PL54E	10/7/1999	0.0285
PL54E	11/6/2000	0.0639
PL54E	5/24/2001	0.0919
PL54E	10/17/2001	0.1003
PL54E	5/2/2002	0.054
PL54E	10/30/2002	2.225
PL54E	5/9/2003	0.0834
PL54E	10/27/2003	0.018
PL54E	5/24/2004	0.065
PL54E	11/2/2004	0.022

PL54NE	5/27/1998	0.1913
PL54NE	8/17/1998	0.7138
PL54NE	11/10/1998	0.6132
PL54NE	6/17/1999	0.1238
PL54NE	10/7/1999	0.1725
PL54NE	5/12/2000	0.0984
PL54NE	11/6/2000	0.4322
PL54NE	5/18/2001	0.1441
PL54NE	10/17/2001	0.2116
PL54NE	5/9/2002	0.2361
PL54NE	10/30/2002	27.7399
PL54NE	6/11/2003	0.1713

PL54NE	10/27/2003	0.2454
PL54NE	6/10/2004	0.003
PL54NE	11/2/2004	0.33

PL54NE2	5/27/1998	0.0856
PL54NE2	8/17/1998	0.1333
PL54NE2	10/21/1998	0.1097
PL54NE2	6/17/1999	0.0557
PL54NE2	10/7/1999	0.0613
PL54NE2	5/12/2000	0.0256
PL54NE2	11/6/2000	0.0202
PL54NE2	5/18/2001	0.012
PL54NE2	10/17/2001	0.0198
PL54NE2	5/9/2002	7.7239
PL54NE2	10/30/2002	29.2237
PL54NE2	6/11/2003	0.0154
PL54NE2	10/27/2003	0.0259
PL54NE2	6/9/2004	0.089
PL54NE2	11/2/2004	0.235

PL54W	6/4/1997	0.9233
PL54W	9/11/1997	1.2869
PL54W	10/23/1997	1.0665
PL54W	2/4/1998	0.5485
PL54W	5/27/1998	1.2256
PL54W	10/22/1998	0.8266
PL54W	6/18/1999	1.7056
PL54W	10/7/1999	0.675
PL54W	5/17/2000	0.7846
PL54W	11/6/2000	0.5344
PL54W	5/23/2001	0.4764
PL54W	10/17/2001	0.4148
PL54W	5/2/2002	0.5763
PL54W	10/30/2002	146.1879
PL54W	5/9/2003	0.1428
PL54W	11/5/2003	0.7751
PL54W	5/24/2004	0.799
PL54W	11/2/2004	0.743

PL73N	6/14/1996	1.5009
PL73N	10/17/1996	0.6709
PL73N	4/24/1997	1.4004
PL73N	4/29/1998	1.1584
PL73N	9/18/1998	0.5984
PL73N	5/17/1999	2.93
PL73N	9/23/1999	0.3034
PL73N	5/2/2000	0.722
PL73N	10/19/2000	0.287
PL73N	5/8/2001	0.798
PL73N	10/1/2001	0.275
PL73N	4/29/2002	0.249
PL73N	10/24/2002	0.1642
PL73N	5/8/2003	0.674
PL73N	10/20/2003	0.336
PL73N	6/18/2004	0.044
PL73N	11/8/2004	0.063

PWRNW3	10/27/1994	0.0658
PWRNW3	6/21/1995	0.0944
PWRNW3	10/30/1995	0.0838
PWRNW3	5/15/1996	0.0858
PWRNW3	10/17/1996	0.1055
PWRNW3	4/22/1997	0.1169
PWRNW3	4/21/1998	0.136
PWRNW3	9/22/1998	0.0314
PWRNW3	4/28/1999	0.0735
PWRNW3	10/12/1999	0.1212
PWRNW3	6/16/2000	0.0978
PWRNW3	11/29/2000	0.1053
PWRNW3	6/8/2001	0.1075
PWRNW3	10/25/2001	0.1495
PWRNW3	6/5/2002	0.0593
PWRNW3	11/18/2002	0.1411
PWRNW3	6/24/2003	0.0625
PWRNW3	11/6/2003	0.1006
PWRNW3	6/18/2004	0.044
PWRNW3	11/8/2004	0.603

PL41N	6/6/2003	0.001	Manual
PL41N	10/30/2003	0.0032	
PL41N	6/11/2004	0.001	
PL41N	11/1/2004	0.00001	Manual entry

PL41S
No hits for 2004

PL42E	6/6/2003	0.0167
PL42E	10/31/2003	0.0089
Manual entry	5/24/2004	0.000001
	11/1/2004	0.011

PL42W	6/6/2003	0.0092
Manual	10/31/2003	0.005
	5/24/2004	0.002
	11/1/2004	0.004

tuents tested for in this well in accordance with the KPGSAP protocol.

Instructions for completion of Time Concentration Plots

1. Obtain total VOC and SVOC concentrations from the either the internal data base or from CRA

2. Using the NP Bonivilla amended data base, add the results of the spring and fall sampling rounds to the end of the table for each well. If no value was obtained from the data base for any given well, enter 0.001 and note on table that no total value

3. After ammended table has been updated to reflect all current year total VOCs, select and copy the date and result fields for the first well on the amended table.

4. After the date and results have been copied to the amended table, click on the chart button on the tool bar

5. Click the second tab "Custom Types".

6. Select the Logarithmic chart

DATA FROM TABLE 4 - COLLECTED

Well	VOC 2016 (µg/L)	
PB53N2	0.32	
PB54NW	350,000	
PB54SE	87.69	
PB57W	197.1	
PB57W	32.2	
PL41N	5.2	
PL41S	3.0	
PL42E	0.57	
PL42W	1.22	
PB303SW	157.8	
PB303W2	22,830	
PB307E2	638.9	
PB307N3	2,740	
PB319N	46.0	
PB322NE2	22,001	
PB322NE4	10,002	
PB323SE2	59.4	
PB329E2	126.5	
PB349N	0	
PB350NE2	22.0	
PB350NW	52.9	
PL73N	241.1	
PWRNW3	23.8	
PB115N	27,400	
PB119ER	32.7	
PB119NER	23.1	
PB135ER	3.8	
PB136S	1,804	
PB143NW	1.8	
PL50N2	703,700	
PL50N2-2	879,200	
PL50N3	12.3	
PL50NW3	15.6	
PL50W	13.1	
PL54E	26.9	

WELL	VOC 2017 (mg/L)
PB119ER	0.038
PB119NER	0.019
PB135ER	0.012
PB136S	5.418
PB143NW	0.0015
PB218N	0.001
PB303W2	20.061
PB307E2	0.015
PB307N3	0.759
PB319N	0.005
PB322NE2	21.000
PB322NE4	1.624
PB323SE2	0.081
PB329E2	0.123
PB349N	-
PB350NE2	0.005
PB350NW	0.005
PB53N2	0.066
PB54NW	400.000
PB54SE	0.173
PB57W	0.158
PL41N	0.007
PL41S	0.009
PL42E	0.007
PL42W	0.008
PL50N2	951.000
PL50N3	0.017
PL50NW3	0.018
PL54E	0.004
PL54NE	0.053
PL54NE2	0.011
PL54W	0.306
PL73N	0.498
PB303SW	0.018
PB115N	37.0

PL54NE	51.5	
PL54NE2	9.2	
PL54W	317.7	
PB218N	0	

PWRNW3	0.043
PL50W	0.017

2017 ANNUAL SAMPLING

Date	2018		VOC 2018 (mg/L)
6/6/2017	PB115N	35.070	10/16/2018
6/6/2017	PB119ER	0.066	10/15/2018
6/6/2017	PB119NER	0.200	10/15/2018
6/6/2017	PB136S	1.824	10/17/2018
6/6/2017	PB218N	-	10/15/2018
6/6/2017	PB303SW	13.775	1/16/2019
8/1/2017	PB303W2	0.123	10/17/2018
7/21/2017	PB307E2	0.409	10/15/2018
7/21/2017	PB307N3	0.184	10/15/2018
6/6/2017	PB322NE2	23.262	10/17/2018
7/21/2017	PB322NE4	0.121	10/17/2018
7/21/2017	PB323SE2	43.523	10/17/2018
6/7/2017	PB329E2	0.151	10/15/2018
8/1/2017	PB349N	-	10/18/2018
6/7/2017	PB350NE2	0.019	10/15/2018
6/6/2017	PB350NW	0.070	10/15/2018
6/6/2017	PB54NW	534.800	10/15/2018
6/5/2017	PB54SE	0.009	10/15/2018
6/5/2017	PB57W	0.207	10/15/2018
6/5/2017	PL41N	0.007	10/15/2018
6/6/2017	PL41S	0.004	10/15/2018
6/5/2017	PL42E	0.001	10/15/2018
6/5/2017	PL42W	0.001	10/15/2018
6/5/2017	PL50N2	977.800	10/17/2018
6/5/2017	PL50NW3	0.010	10/17/2018
6/6/2017	PL50W	0.014	10/17/2018
6/6/2017	PL54NE	0.013	10/15/2018
6/6/2017	PL54W	0.193	1/16/2019
6/6/2017	PL73N	0.022	10/18/2018
6/6/2017			
6/6/2017			
6/6/2017			
6/6/2017			
6/7/2017			
10/10/2017			
10/10/2017			

7/19/2017

10/10/2017

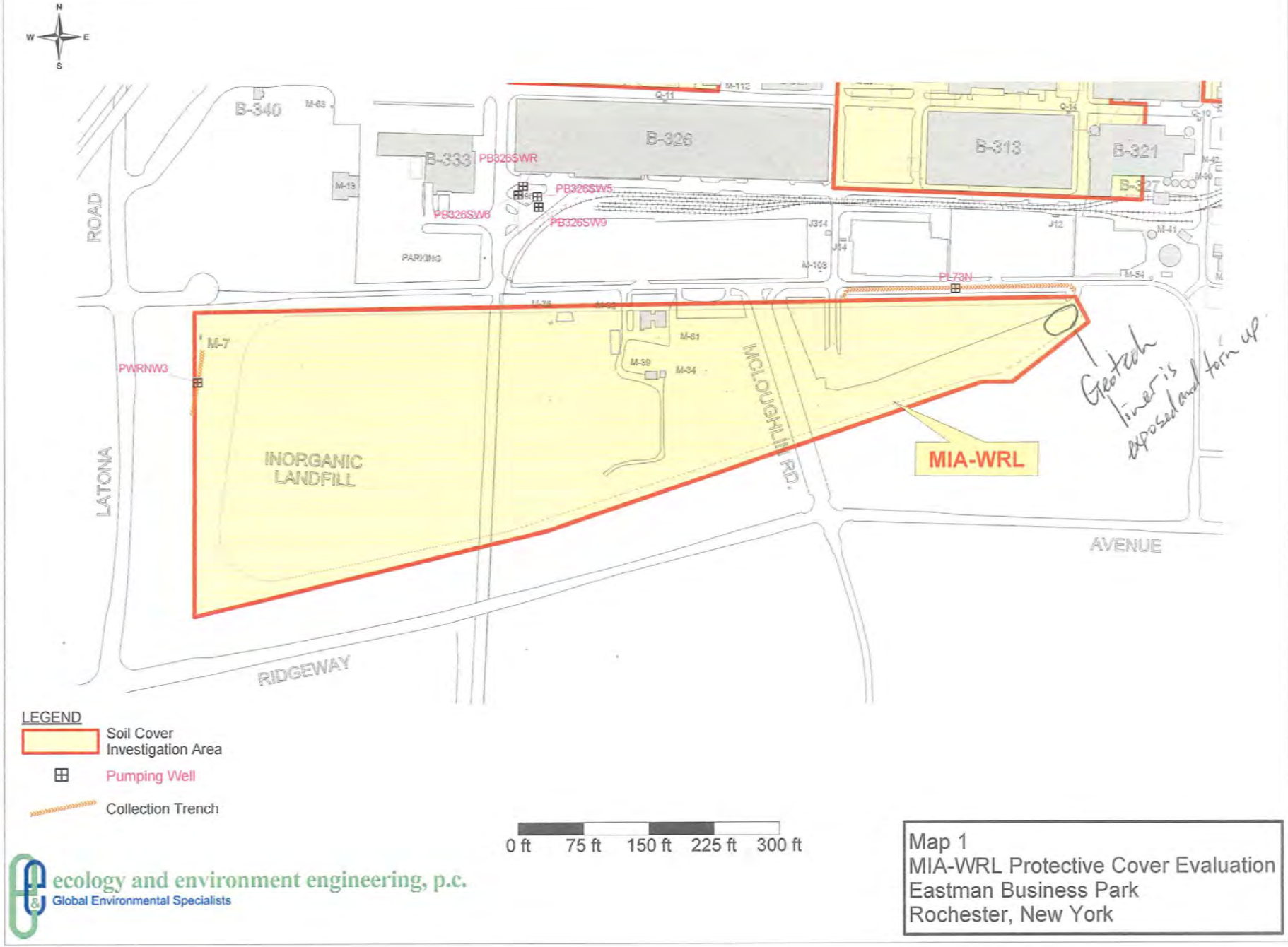
B Soil Protective Cover Inspection Forms and Site Maps

Soil Protective Cover Inspection Form
New York State Department of Environmental Conservation Sites

Site Name: Eastman Kodak Co. – Eastman Business Park		NYSDEC Site Number: 828177	NYSDEC PM: L. Gorton
Date of Inspection: 10/12/18		Weather: High 46°F partly cloudy	EEEPC PM: R. Watt
Name of Inspector(s): Chris Wood, Tim Dillon	Title: Geologist	Agency/Company: Ecology and Environment Engineering, P.C.	Address: 368 Pleasant View Drive Lancaster, NY 14086

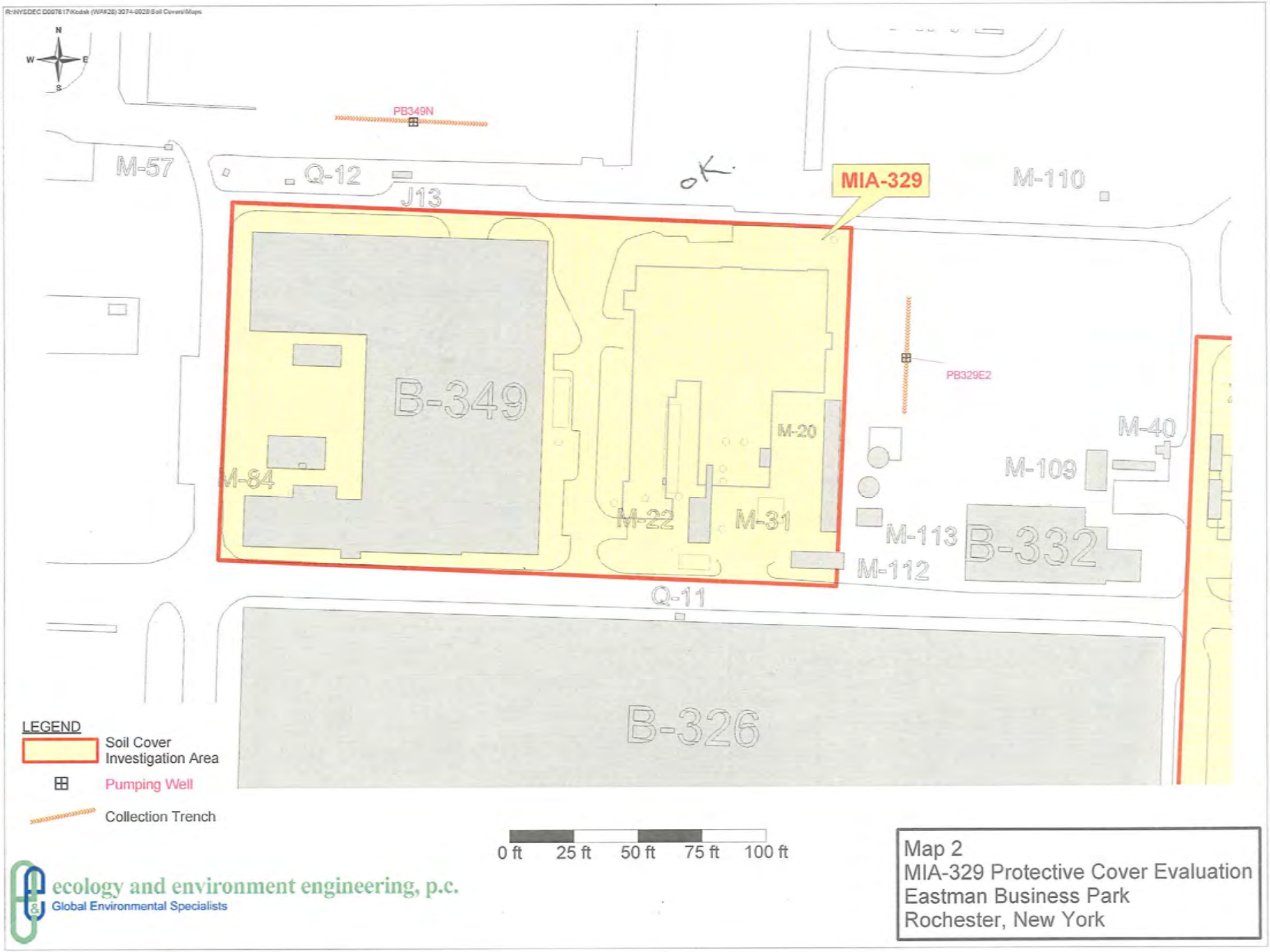
Scope: Inspect integrity of Pavement (asphalt/concrete), Low Maintenance Landscape Material (LMLM) or other protective cover materials in the following areas. An area is considered compromised if there are visual indications that soil below the cover is exposed. If the protective cover is deemed insufficient to protect workers from exposure to underlying soil, appropriate measures will be taken to repair the cover.

AREA	LOCATION	STATUS		NATURE OF DEFICIENCY, IF ANY	ACTION REQUIRED?	
		OK	OTHER		YES	NO
1	MIA-WRL		✓	Observe geotech liner at far east corner of MIA-WRL for growth of plants.		✓
2	MIA-329	✓				✓
3	MIA-351	✓				✓
4	MIA-301	✓				✓
5	XIA-218	✓				✓
6	WIA-KPW	✓				✓
7	NE-KPE	✓				✓
8	EIA-KL	✓				✓
9	MIA-317	✓				✓
10	XIA-202	✓				✓
11	XIA-208	✓				✓
12	B-642 Area	✓				✓



ecology and environment engineering, p.c.
Global Environmental Specialists

Map 1
MIA-WRL Protective Cover Evaluation
Eastman Business Park
Rochester, New York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N
W
E
S
PB349N
M-57
Q-12
J13
ok.
MIA-329
M-110
B-349
M-84
M-20
M-22
M-31
PB329E2
M-40
M-109
M-113
M-112
B-332
Q-11
B-326
LEGEND
Soil Cover Investigation Area
Pumping Well
Collection Trench
0 ft
25 ft
50 ft
75 ft
100 ft
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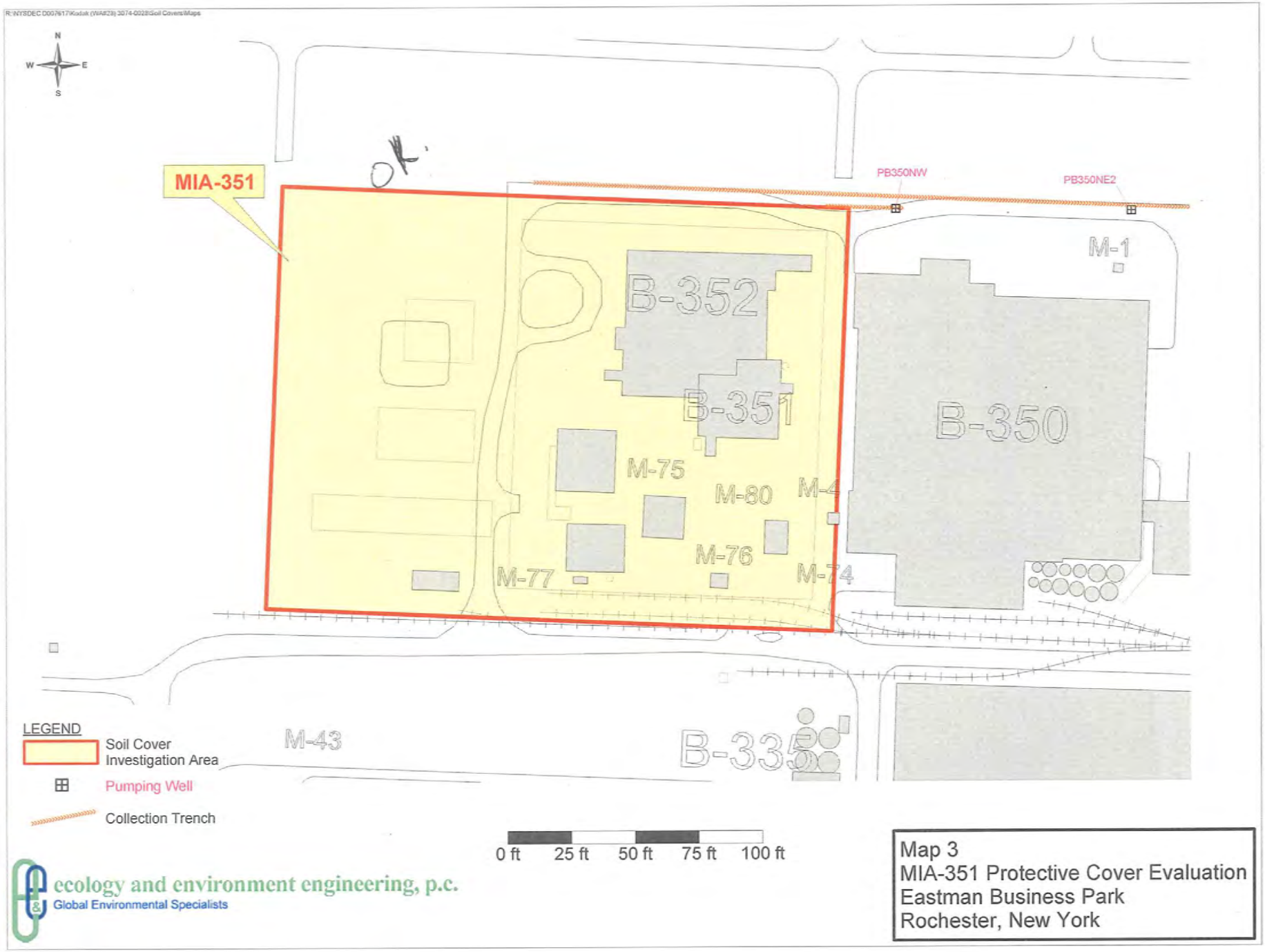
Map 2
MIA-329 Protective Cover Evaluation
Eastman Business Park
Rochester, New York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N
W
E
S
MIA-351
OK
PB350NW
PB350NE2
M-1
B-352
B-351
B-350
M-75
M-80
M-4
M-76
M-77
M-74
M-43
B-335
LEGEND
Soil Cover Investigation Area
Pumping Well
Collection Trench
0 ft
25 ft
50 ft
75 ft
100 ft
ecology and environment engineering, p.c.
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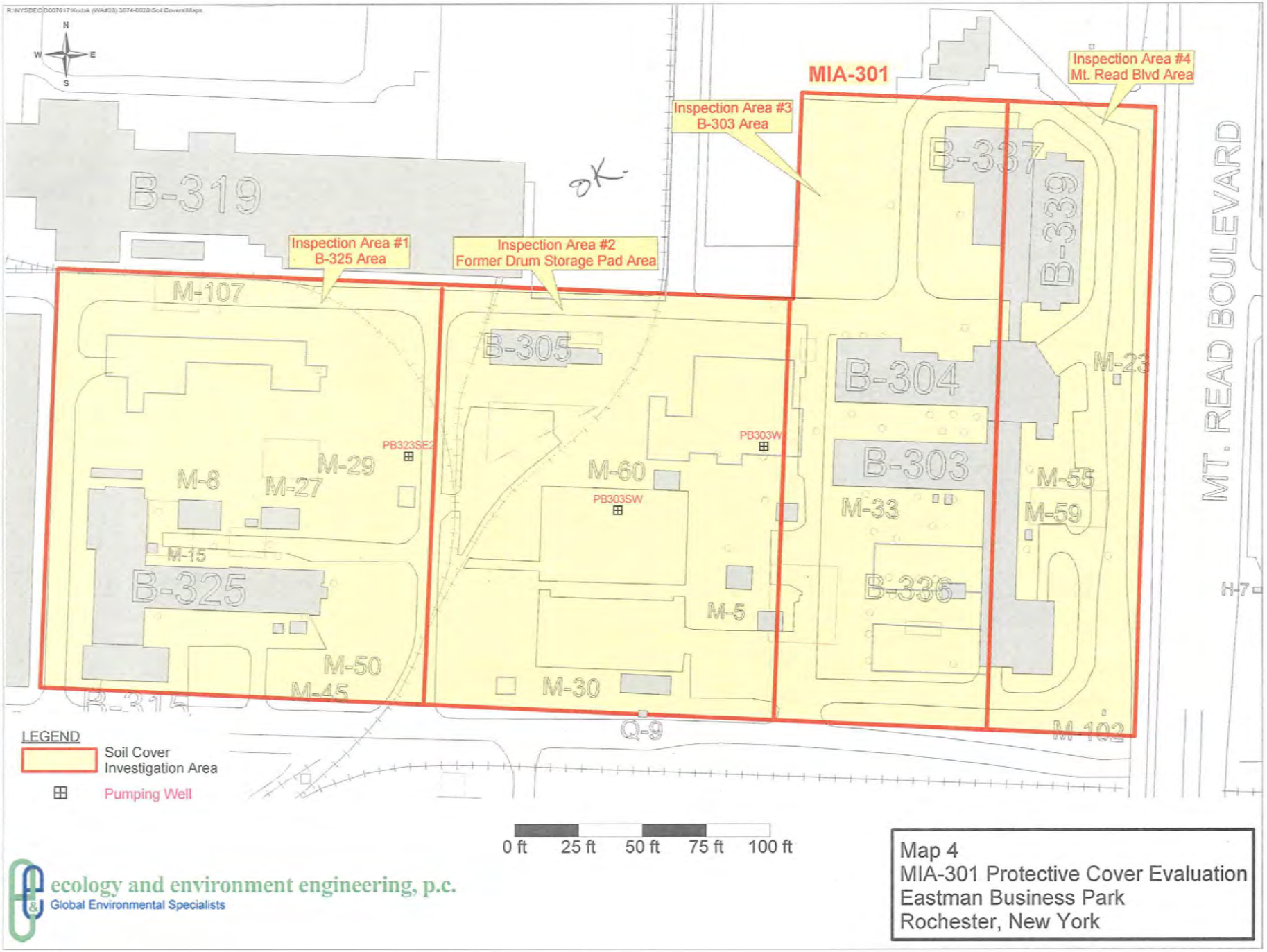
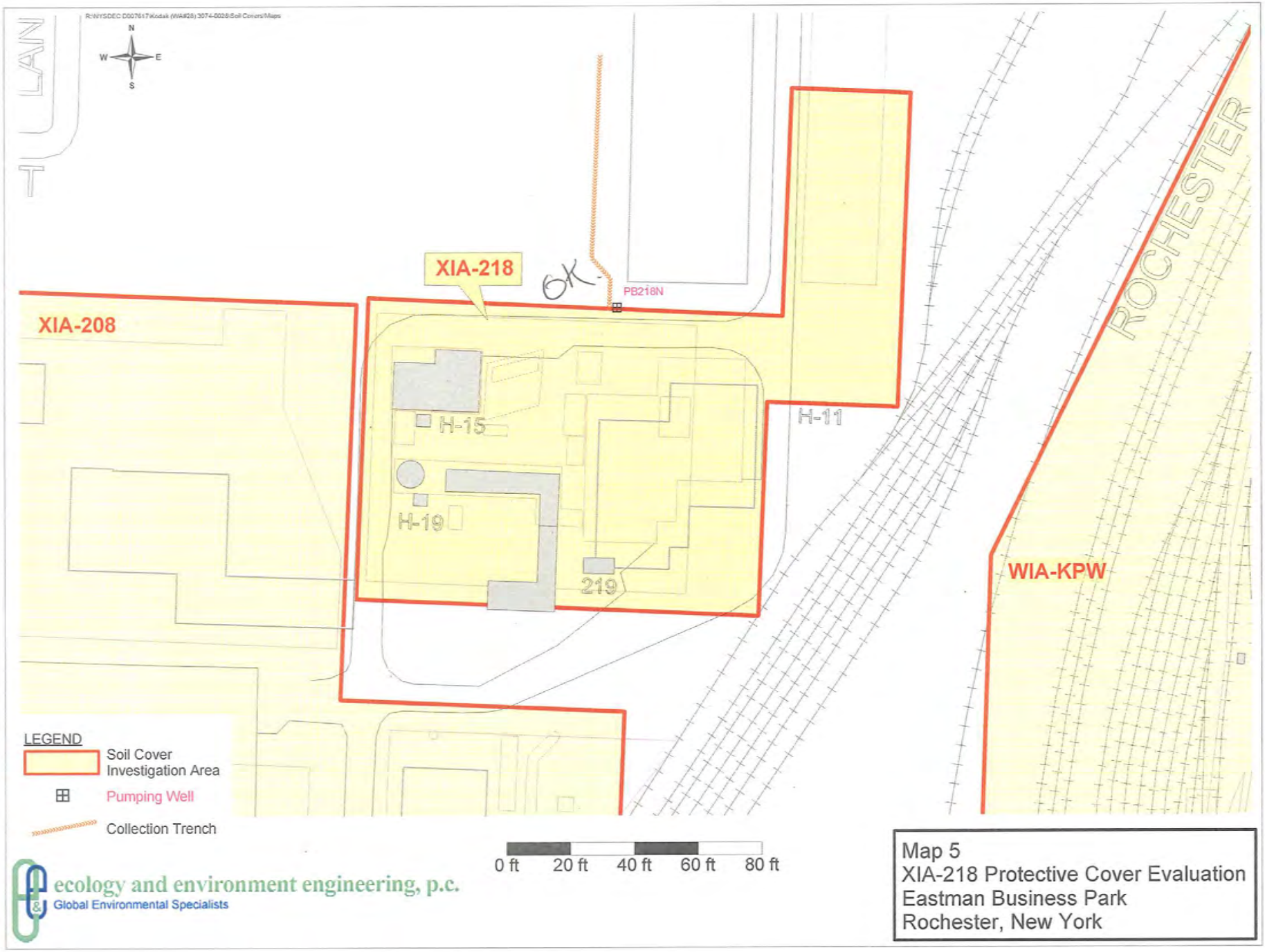
Map 3
MIA-351 Protective Cover Evaluation
Eastman Business Park
Rochester, New York


MIA-301
Inspection Area #1
B-325 Area
Inspection Area #2
Former Drum Storage Pad Area
Inspection Area #3
B-303 Area
Inspection Area #4
Mt. Read Blvd Area
B-319
B-325
B-305
B-304
B-303
B-337
B-339
B-336
M-107
M-8
M-27
M-29
M-15
M-50
M-45
M-60
M-5
M-30
M-33
M-55
M-59
M-23
M-102
H-7
Q-9
PB323SE2
PB303SW
PB303W
MT. READ BOULEVARD
LEGEND
Soil Cover Investigation Area
Pumping Well
0 ft
25 ft
50 ft
75 ft
100 ft
ecology and environment engineering, p.c.
Global Environmental Specialists
Map 4
MIA-301 Protective Cover Evaluation
Eastman Business Park
Rochester, New York


R:\NYSDEC D007617\Kodak (WA#28) 3074-0028\Soil Covers\Maps
N
W
E
S
PLAIN
XIA-218
6K-
PB218N
XIA-208
H-15
H-11
H-19
219
ROCHESTER
WIA-KPW
LEGEND
Soil Cover Investigation Area
Pumping Well
Collection Trench
0 ft
20 ft
40 ft
60 ft
80 ft
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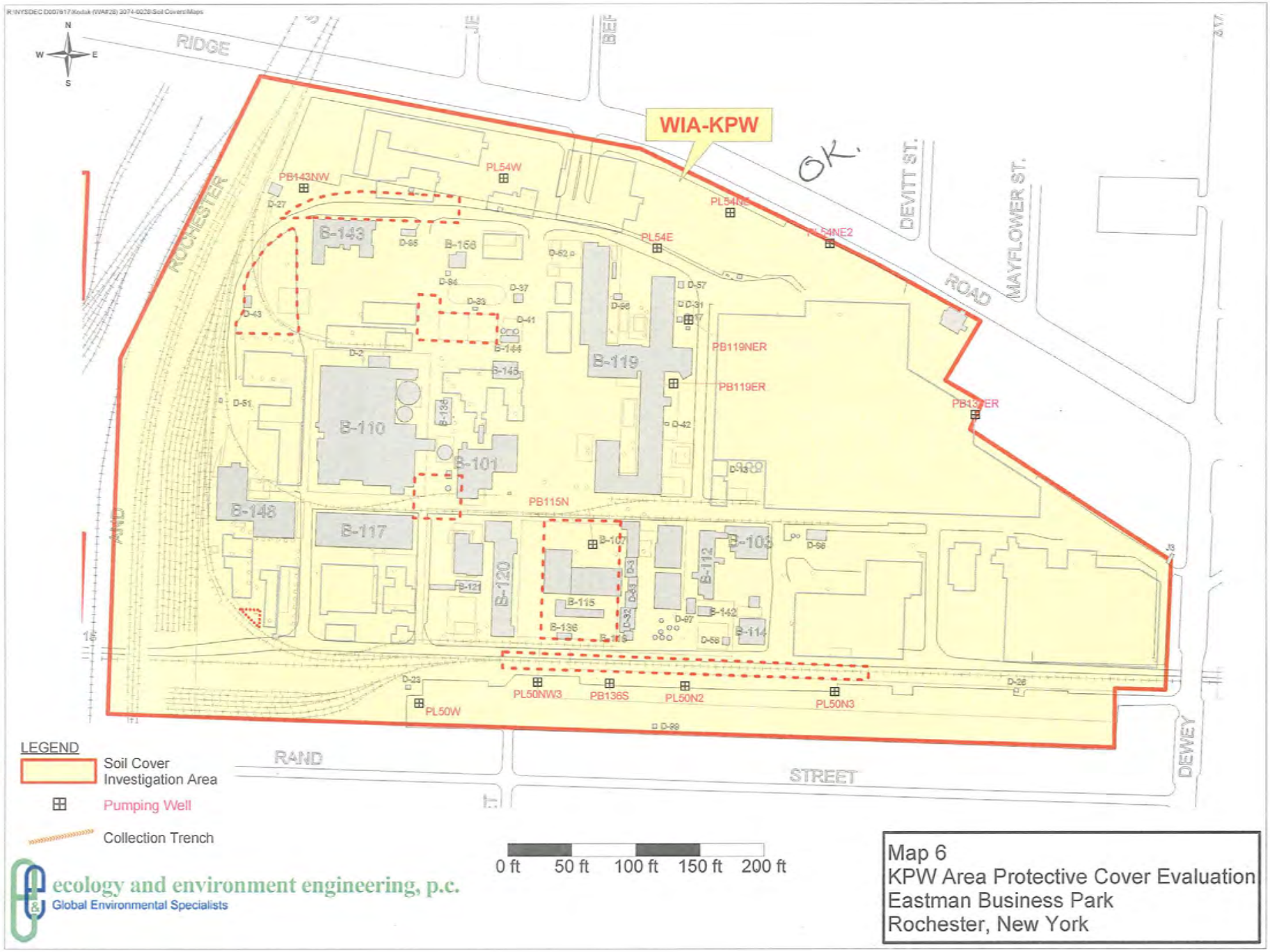
Global Environmental Specialists
Map 5
XIA-218 Protective Cover Evaluation
Eastman Business Park
Rochester, New York


WIA-KPW
RIDGE
ROAD
DEVITT ST.
MAYFLOWER ST.
ROCHESTER
AND
RAND
STREET
DEWEY
PB143NW
PL54W
PL54E
PL54NE2
PB119NER
PB119ER
PB115N
PL50W
PL50NW3
PB136S
PL50N2
PL50N3
B-143
B-158
B-119
B-110
B-101
B-148
B-117
B-120
B-115
B-136
B-112
B-103
B-142
B-114
B-144
B-145
B-121
LEGEND
Soil Cover Investigation Area
Pumping Well
Collection Trench
0 ft
50 ft
100 ft
150 ft
200 ft
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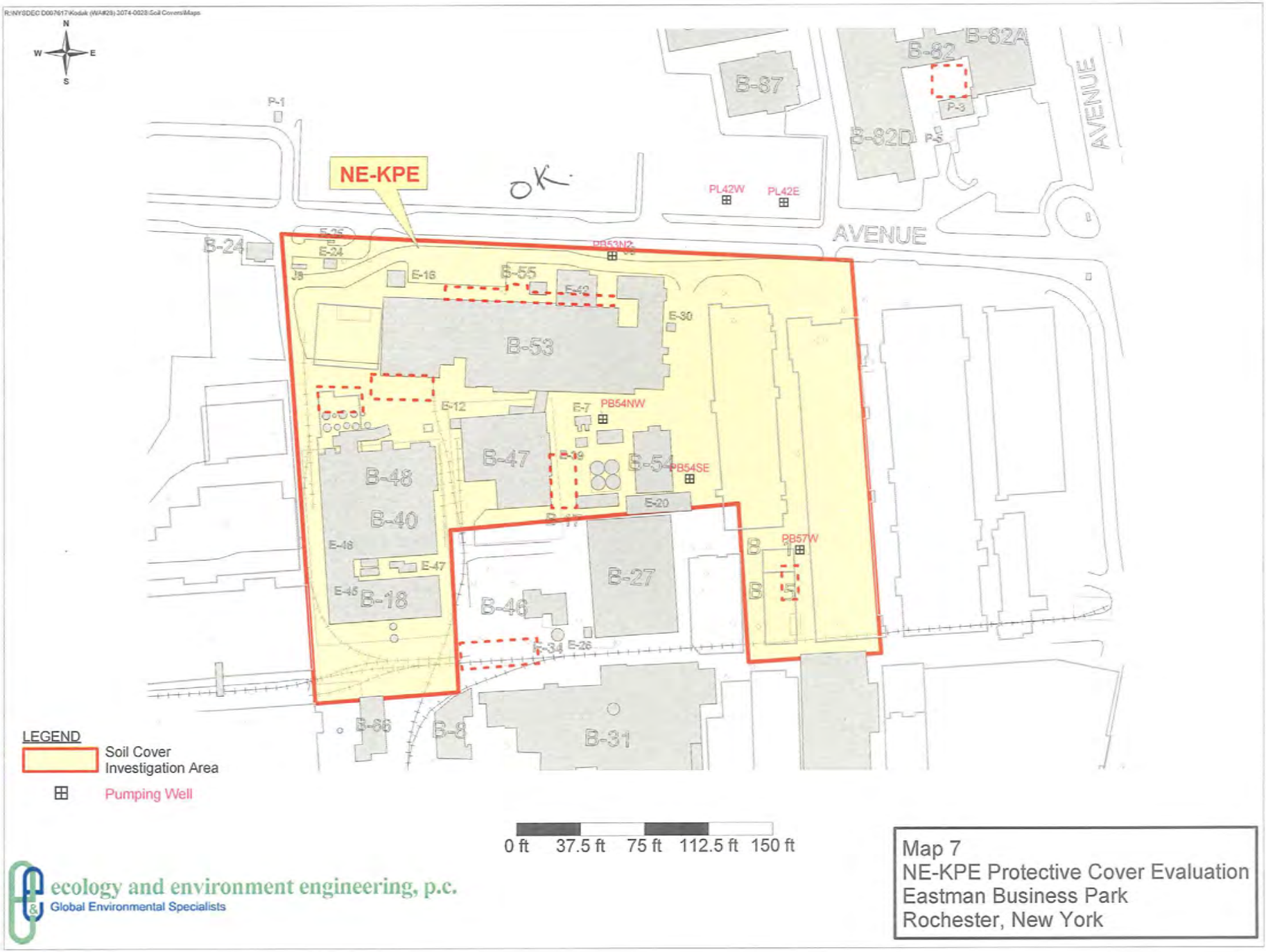
Map 6
KPW Area Protective Cover Evaluation
Eastman Business Park
Rochester, New York



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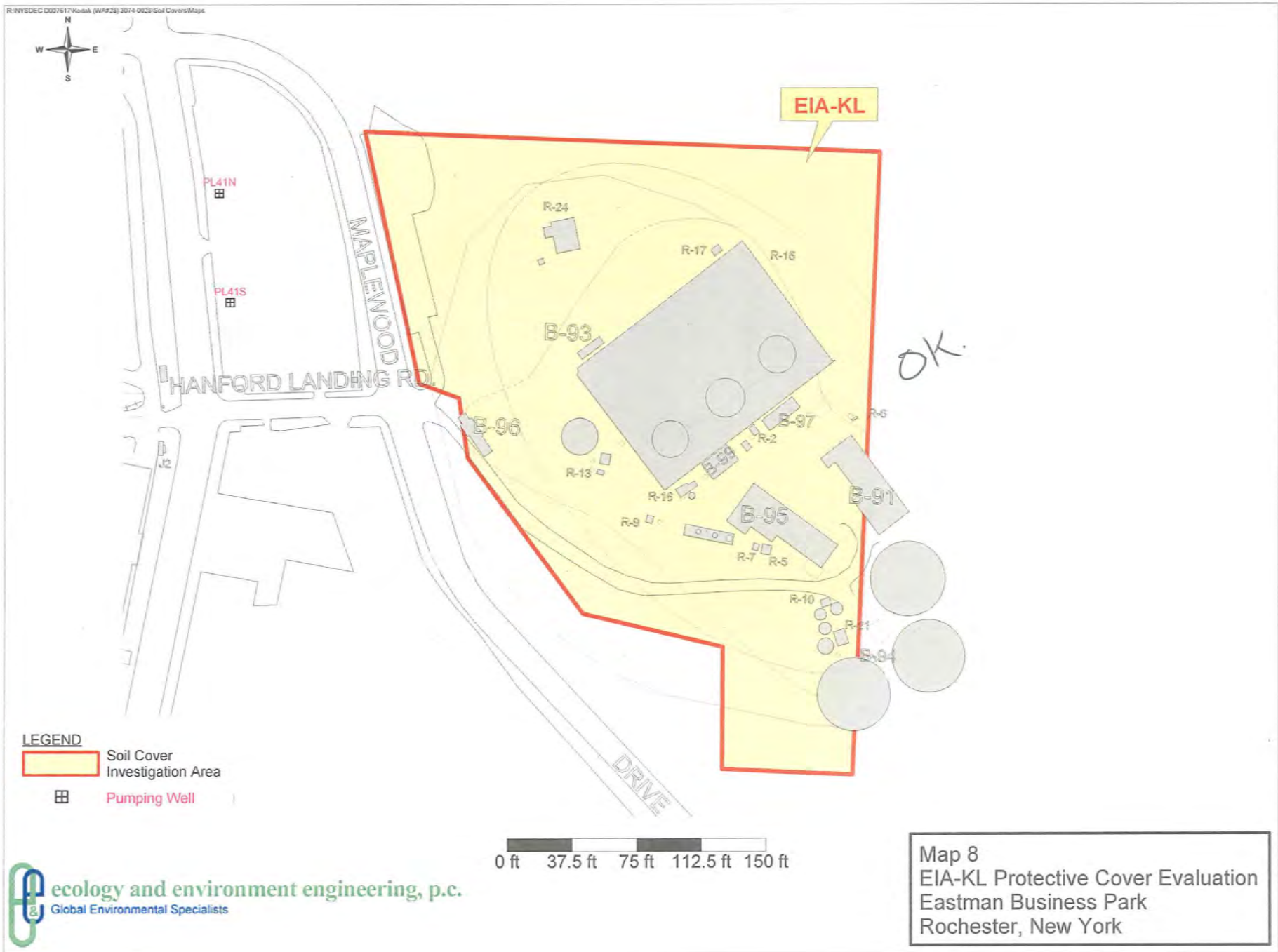
Global Environmental Specialists

Map 7
NE-KPE Protective Cover Evaluation
Eastman Business Park
Rochester, New York



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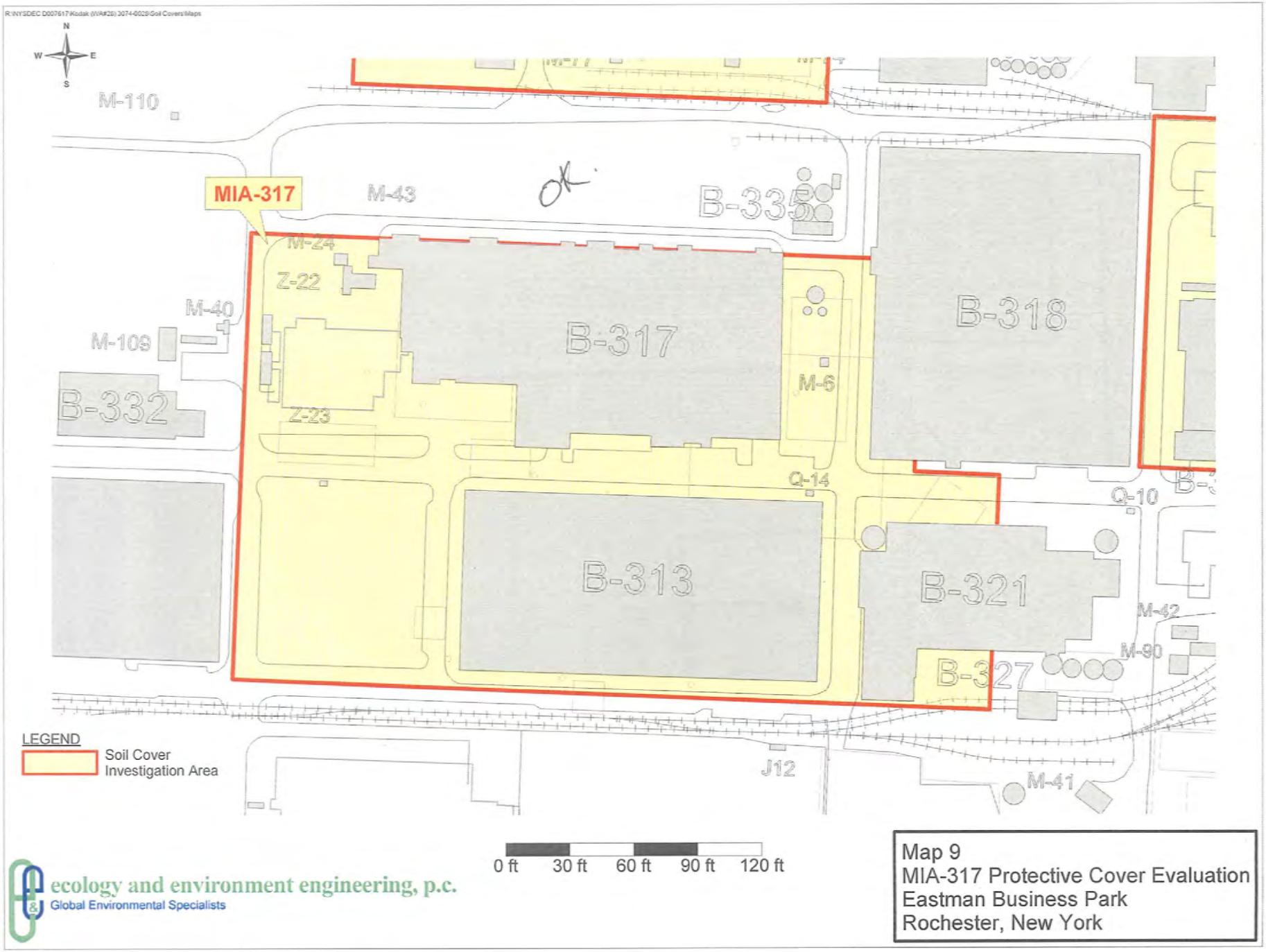
Map 8
EIA-KL Protective Cover Evaluation
Eastman Business Park
Rochester, New York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N
W
E
S
M-110
MIA-317
M-43
B-335
M-24
Z-22
M-40
M-109
B-317
B-318
M-6
B-332
Z-23
Q-14
Q-10
B-313
B-321
M-42
M-90
B-327
J12
M-41
LEGEND
Soil Cover Investigation Area
0 ft
30 ft
60 ft
90 ft
120 ft
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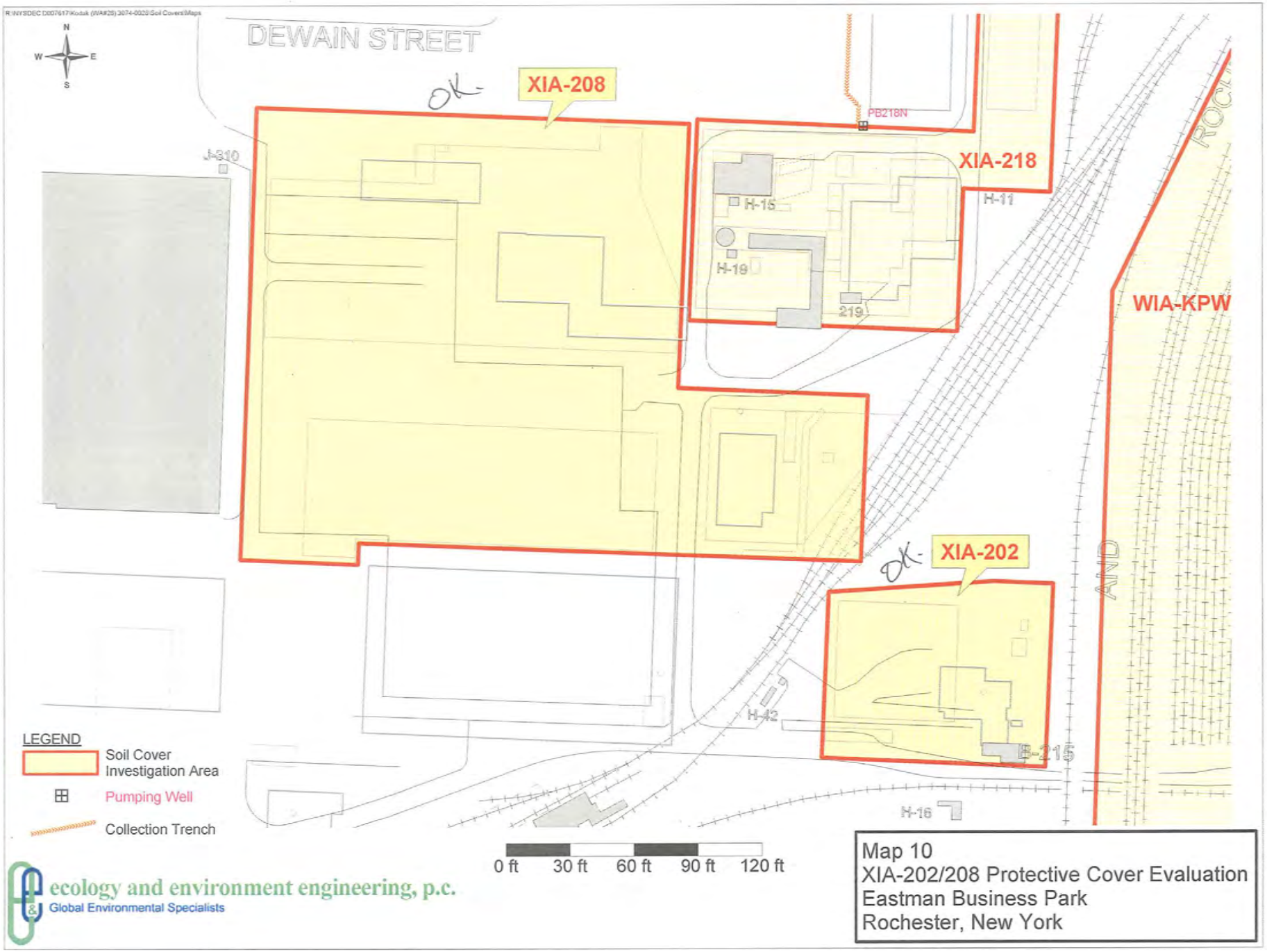
Map 9
MIA-317 Protective Cover Evaluation
Eastman Business Park
Rochester, New York



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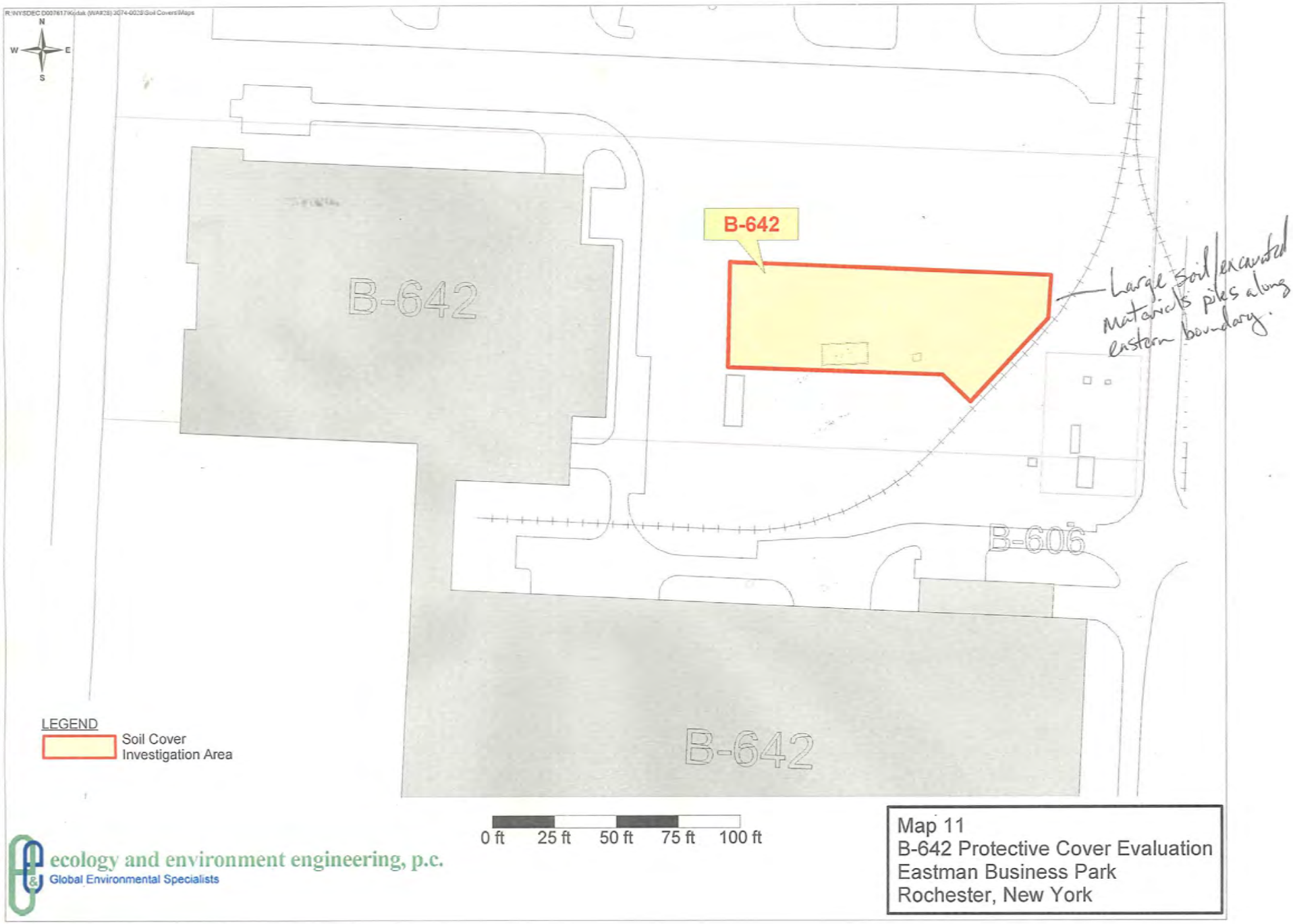
Map 10
XIA-202/208 Protective Cover Evaluation
Eastman Business Park
Rochester, New York



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Map 11
B-642 Protective Cover Evaluation
Eastman Business Park
Rochester, New York

Photo 20181018_133230
Large soil or excavated materials pile and building materials along the eastern boundary of the B-642 Soil Cover area. Facing north.

Photo 20181018_133300
Large soil or excavated materials pile and building materials along the eastern boundary of the B-642 Soil Cover area. Facing north.

Photo 120181018_133639
Large soil or excavated materials pile and building materials along the eastern boundary of the B-642 Soil Cover area. Facing northwest.

Photo 20181018_142208
Landscape fabric at eastern MIA-WRL boundary with minor tears. Facing south.