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Prepared for

NATIONAL PRESTO INDUSTRIES, INC.

EAU CLAIRE, WISCONSIN

ANNUAL INTERIM REMEDIAL ACTION

STATUS REPORT FOR 2018

PROJECT #34283.000

JUNE 2019

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June 13, 2019
File #34283.000

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Ms. Mae Willkom
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
1300 W. Clairemont Avenue
Eau Claire, WI 54701

Re: Annual Interim Remedial Action Status Report - 2018
National Presto Industries, Inc., Eau Claire, Wisconsin
USEPA CERCLIS ID WID006196174
WDNR BRRTS 02-09-000267 and FID 609038320

Dear Howard and Mae:

At your request, Gannett Fleming, Inc. (GF) is submitting the referenced annual report for the National Presto Industries, Inc. (NPI) site in Eau Claire, Wisconsin. The report documents the effectiveness of the past and on-going active soil and groundwater remediation at the site. In addition, this report provides analytical results from the samples collected from select water supply wells at the Eau Claire Municipal Well Field (ECMWF) and its water treatment system during 2018, conclusions based on the historical groundwater monitoring data, and a list of activities to be completed in 2019.

Executive Summary

During 2018, NPI continued to monitor groundwater and three soil vapor extraction (SVE) systems: one associated with the Melby Road Disposal Site (MRDS) (former Plume 3/4), and two in the Southwest Corner (SWC) of the site (former Plume 1/2), in accordance with the agency-approved sampling plans. Dissolved-phase volatile organic compounds of concern at the site are limited to trichloroethylene (TCE), 1,1,1-trichloroethane (TCA), tetrachloroethylene (PCE), 1,1-dichloroethane (DCA), and 1,1-dichloroethylene (DCE). For this report, they will hereafter be referred to as NPI volatile organic compounds (NPI VOCs). Since project inception, 2016 was the first year there were no exceedances of the NR 140 Enforcement Standards (ESs)/Maximum Contaminant Levels (MCLs) for the NPI VOCs in any monitoring well or piezometer either on site or off site.

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Extraction well EW-6, installed in 2011 to help capture groundwater migrating from a newly identified VOC source area that we believe is located beneath the NPI main building, continues to capture and remove VOC-impacted groundwater from that area of the site.

SVE vent well VW-1, installed inside the NPI main building in late 2014 to remove vapor phase VOCs from the suspected source area beneath the building, became operational in January 2015. Since startup of this vent well, NPI VOC concentrations in groundwater samples collected from MW-76A, the water table monitoring well immediately downgradient from the newly identified source area beneath the building, have decreased.

Cadmium (Cd) concentrations in groundwater continue to be above its 5.0 µg/ℓ ES/MCL in on-site monitoring wells MW-10A and MW-34A, south of the main building. Like the NPI VOC concentrations in MW-76A, however, overall Cd concentrations continue to show a decreasing trend. In addition, supplemental sampling completed in 2015 confirmed that Cd concentrations above the ES/MCL in groundwater are confined to a relatively small area immediately adjacent to former Lagoon #1, which includes MW-10A and MW-34A.

In summary, VOC concentrations in virtually all the wells used to monitor the original plumes associated with the NPI site are stable or decreasing, and a significant number of wells no longer contain detectable concentrations of TCE. There were no exceedances of the ES/MCL for TCE of 5 µg/ℓ or any other NPI VOC in any monitoring wells either on site or off site in 2016, 2017, or 2018.

Site Description, Hydrogeological Setting, and Conceptual Site Model

The site is relatively flat and abuts a sandstone ridge to the south. Areas to the north, east, and west are also relatively level, generally sloping gradually toward the Chippewa River, which is located approximately 2 miles north and west of the site. Lake Hallie, an impounded remnant of a former channel of the Chippewa River, lies approximately 1 mile north of the site.

Extending northward from the northwestern portion of the site to Lake Hallie and westerly from the site to the Chippewa River are buried pre-glacial valleys within which alluvial sand and gravel deposits serve as a primary drinking water aquifer in the Eau Claire area. Approximately 2 miles west of the NPI site, for example, the ECMWF draws groundwater from more of these buried deposits and provides drinking water for the City of Eau Claire. The direction of groundwater flow is controlled by the sandstone and granite bedrock valleys beneath the sand and gravel, which carry groundwater to the northwest towards Lake Hallie and to the west

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towards the Chippewa River and the ECMWF. The depth to bedrock is at or near the surface at the sandstone ridge in the extreme south-central portion of the NPI site and dips to the north and west. The top of bedrock is at least 100 feet below the ground surface (ft bgs) at the north and west property boundaries. The average depth to water under NPI's main building and the MRDS is about 70 ft bgs.

Past waste-handling practices related to the manufacturing activities on the NPI site have included the use of dry wells and seepage lagoons. Manufacturing wastes were also discharged to a former sand and gravel pit. The major waste stream was waste forge compound. NPI discharged wastewater containing significant amounts of waste forge compound to Lagoon #1, a remnant of the former sand and gravel pit. From 1966 to 1969, waste forge compound was also landfilled at the MRDS.

The conceptual site model is that VOCs observed in the source areas on the NPI property migrated vertically through the unconsolidated soils to the groundwater and then traveled within the aquifer following the buried valleys. These valleys, which trend westerly toward the Chippewa River and ECMWF (former Plume 1/2) and northwesterly toward Lake Hallie (former Plumes 3/4 and 5), control the direction of groundwater flow in the unconsolidated deposits in the area. Figure 1 is a 24-inch x 36-inch area-wide map showing the approximate former locations of Plume 1/2, Plume 3/4, and Plume 5, as defined by select NPI VOCs in 1993. The outlines of the former plumes define a groundwater flow divide that bisects the NPI site along a northwesterly line. The average groundwater flow velocity in the alluvial deposits in the area is approximately 12.5 feet/day, with an average gradient of about 0.015 in former Plume 1/2 that stretches from the NPI site to the ECMWF. Figure 2 provides an 11-inch x 17-inch on-site groundwater flow map for convenience.

Table 1 is a summary of the construction information for all monitoring and extraction wells associated with the NPI site. This summary table also identifies with which former plume each well is/was associated and provides the grid coordinates for each well shown on Figure 1.

Note that, as approved by the USEPA and WDNR, Ken Olson Well Drilling & Pump Services (Olson Drilling) of Eau Claire filled and sealed MW-8, MW-9A/B, MW-22A/B, MW-26A/B, MW-27A/B, MW-29A/B, MW-47A/B, MW-57A/B, and MW-60A/B between April 24 and May 8, 2018. On May 17, 2018, Olson Drilling completed a Form 3300-005 for each abandoned well/piezometer online. On May 25, 2018, GF provided a pdf of Olson Drilling's electronic submittal to both agencies and sent Mae Willkom a paper copy, as requested.

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General Status of the Remedial Program

Most of the selected interim and final remedies for the site were implemented in the mid- to late-1990s. These included:

- The removal from Lagoon #1 of approximately 1,100,000 gallons of pumpable waste forge compound (>5,000 BTU/lb), which was blended with spent solvents and transported via rail cars to CERCLA-approved cement kilns for use as a supplemental fuel.
- The excavation and off-site disposal of >5,000 BTU/lb waste forge compound from Lagoon #1 and impacted soil from several other waste management areas of concern, including Dry Wells #2 and #5, the swale between former Lagoons #3 and #4, the southwest corner of former Lagoon #2, and the Loading Dock Area (LDA). TCA was the primary VOC associated with the waste forge compound removed from Lagoon #1.
- The installation of four groundwater extraction wells and two associated cascade aerators for groundwater capture, control, and treatment. These interim systems were designed for continuous operation when needed and to be shut down once the off-site migration of impacted groundwater is no longer of concern.
- The construction of an engineered landfill with a multi-layer cap and SVE system at the MRDS for the long-term management of residual waste forge compound and impacted soil. Excavated material placed at the MRDS prior to installation of the cap included waste forge compound mixed with soil from Lagoon #1 with <5,000 BTU/lb, soil contaminated with waste forge compound from Drainage Ditch #3, and impacted material from the East Extension of Lagoon #1 and East Disposal Site. The final remedy for the MRDS is the multi-layer cap and SVE system. Over time, it has become apparent that the MRDS SVE no longer needs to operate continuously since the cap has essentially eliminated the vertical migration of contaminants due to the infiltration of precipitation and proven to provide reliable protection of groundwater quality.

However, two supplemental, relatively small TCE source areas have been identified in what is known as the SWC: the MW-34/70 area and an area beneath the main building. SVE systems have been installed and are currently operating at both areas to remove VOCs in the soil and provide a barrier to downward migration of these chemicals to groundwater.

All active remediation systems onsite are effective in protecting human health and the environment. Three of the four groundwater extraction wells (EW-1R, EW-2, and EW-5) and one of the cascade aerators (CAS-1) are no longer in use because of the effectiveness of the remedial actions that have been implemented.

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Current and planned future activities at the site include:

- Maintenance and annual inspection of the cap at the MRDS. The maintenance activity is ongoing, and annual inspections are conducted to document conditions and monitor progress. No further reference to cap maintenance is provided in this remedial action report. However, copies of the annual inspection reports are available upon request.
- Operation and maintenance (O&M) of the three SVE systems and extraction well EW-6.
- Sampling of the exhaust gas from the MRDS, MW-34/70 area, and main building SVE systems and select on- and off-site groundwater monitoring wells/piezometers, EW-6, cascade aerator CAS-2R, manhole MH-18, city water supply wells, and unit operations at the ECMWF.

SVE System O&M and Sampling

The NPI site currently has three separate SVE systems in operation, as shown on Figure 3. The purpose of these systems is to remove VOCs from the subsurface and provide either a seasonal or year-round vapor barrier to protect/improve groundwater quality.

The largest SVE system is at the MRDS where 12 vent wells are installed beneath the capped landfill, which primarily contains waste forge compound from historic disposal operations there and the on-site remedial excavations described in the previous section. In 2018, the MRDS SVE system was offline until March 15th, due to its second agency-approved, 6-month trial shutdown from December 14, 2017, through June 15, 2018. However, it operated with one blower running in “low-flow” mode for 198.5 hours between March 19th and 27th for quarterly field screening of the vent wells and exhaust gas sampling. The operator used a variable frequency drive (VFD) to control the flow of the vacuum blower(s).

On June 15, 2018, low-flow operation of the SVE system resumed. On June 18th, the VFD was adjusted for normal seasonal operation. On December 14th, the system was shut down for its third 6-month trial period, as approved by both agencies. See GF’s August 2018 *MRDS SVE System Second Trial Seasonal Shutdown Assessment* and monthly progress reports for additional details.

In the SWC, the MW-34/70 area SVE system is used to address residual TCE present in degreaser sludge that was buried there in the mid-1900s. This system currently includes six vent wells and operates only during warm weather when the ground is not frozen and the average ambient air temperature is above freezing (i.e., the MW-34/70 area SVE system operates seasonally). When

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temperatures are below freezing, it is more difficult to keep the system running because the condensate that collects in the knock-out tanks freezes. Furthermore, when frost is in the ground, there is virtually no vertical migration from precipitation. Consequently, running the system when the ground is frozen provides little, if any, benefit. Analytical results to date confirm that this remedial approach is effective in protecting groundwater quality.

The main building SVE system is being used to address VOC impacts from a likely source area beneath the main building at NPI. The exact location and size of this source area is not known. The main building SVE system includes just one vent well (VW-1) screened from 15 to 45 feet below the top of the concrete floor, located near the center of Building 103. The intent of this system is to maintain a vapor barrier that helps improve and protect local groundwater quality. Figure 4 shows the locations of VW-1, its blower and condensate knock-out tank, extraction well EW-6, and downgradient monitoring well nests MW-76 and MW-77. As shown on Figure 4, the vacuum blower, its knock-out tank, and the well-head connection to VW-1 are all located indoors. As a result, it is relatively easy for this SVE system to operate continuously, 365 days a year.

The exhaust gas from each of the three SVE systems is discharged directly into the atmosphere through a stack less than 25 feet high. Exhaust gas samples are collected quarterly from the MRDS and main building SVE systems. The samples are analyzed for TCE, 1,1,1-TCA, PCE, and 1,1-DCA. The MW-34/70 area SVE system is sampled annually and only for TCE. The exhaust gas samples are collected in Summa canisters supplied by the laboratory and analyzed using Method TO-15. Analytical results are used for performance and compliance monitoring and available upon request.

Table 2A summarizes compound-specific emission thresholds, as defined in Table A of NR 445.07, when stack heights are less than 25 feet. Table 2B summarizes estimated emissions for 2014-2018 from:

- Each of the three SVE systems, when operating.
- All three of the systems combined.

Based on the relatively low estimated maximum emission rate and cumulative emission mass of 0.00308 lb/hr and 15.81 lb, respectively, for total VOCs from all three of the SVE systems combined in 2018, the compound-specific emissions of TCE and all other compounds were below their respective limits, as summarized in Tables 2A/B. GF's May 2016 *Annual Remedial Action Status Report - 2015*, November 2017 *Annual Remedial Action Status Report - 2016*, and February 2018 *Annual Interim Remedial Action Status Report - 2017* provide additional detail.

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General Groundwater Monitoring Information

Groundwater samples were collected for NPI VOC analysis at least once from a total of 56 monitoring wells/piezometers, on-site extraction well EW-6, and 4 city production wells during the four routine quarterly sampling rounds completed in 2018. In addition to collecting samples from the above wells/piezometers and manhole MH-18, samples were also collected of the combined pumpage from the production wells in the City's north well field, both before and after the air strippers and following routine water treatment and chlorination by the City. The data from the ECMWF and within the treatment system were used to evaluate the impact of blending the water from several production wells on the TCE concentration and the efficiency of the air strippers in removing TCE from the pumped water.

Samples were also collected from:

- Twelve monitoring wells/piezometers and manhole MH-18 in the SWC for analysis of dissolved Cd.
- MW-10A, MW-34A, and MW-70A in August and December 2018 for perfluoroalkyl substances (PFAS) analysis at the request of the USEPA. The analytical results document that former Lagoon #1 is not a source area of PFAS. No further reference to PFAS is provided in this remedial action report. However, see GF's February 2019 *Groundwater Analytical Results for Perfluoroalkyl Substances* report for additional details.

Figure 1 shows the locations of all the groundwater monitoring points that have been sampled during this project. Wells that have been abandoned are shaded.

Ms. Mary Gannon, MCW Scientific Solutions, Cedar Park, Texas, validated the data from each of the four quarterly sampling rounds in 2018. Mary validated the data following USEPA guidance documents *National Functional Guidelines for Superfund Organic Methods Data Review*, dated September 2016 and January 2017, and the *National Functional Guidelines for Inorganic Superfund Methods Data Review*, dated September 2016 and January 2017. The reviews were based on Level II data packages supplied by the analytical laboratory. All the VOC and cadmium data reported for 2018 were determined to be usable for assessing groundwater quality.

Water levels were measured in all on-site wells and piezometers quarterly, whether or not they were scheduled to be sampled. Water levels were measured in virtually all monitoring wells and piezometers, regardless of whether they were sampled, during the second quarter sampling

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round to provide a more complete set of groundwater elevations to allow preparation of a comprehensive groundwater flow map for the project.

Table 3 lists the water level measurements for all four 2018 sampling rounds. Figure 1 includes an area-wide groundwater flow map. Figures 2 and 4 are 11-inch x 17-inch groundwater flow maps for the site and SWC, respectively. To provide the most complete groundwater flow maps, all three figures are based on the water level measurements made during the June 2018 sampling round when virtually all project wells were measured. Site datum is mean sea level (MSL).

Note that water levels were relatively high in 2017 and 2018. For example, consider MW-10A located in the SWC between the south end of the main building and former Lagoon #1. Groundwater elevations in the well ranged from 827.16 to 828.35 feet MSL between December 2014 and 2015, respectively. By August 2017, the measured water level elevation in MW-10A had increased nearly 3 feet to 831.16 feet MSL. In 2018, measured elevations in MW-10A ranged from 829.24 to 829.85 ft MSL, lower than in August 2017, but elevated relative to 2013-2015. GF's November 16, 2016, *EW-5 Status Report and Work Plan for a 12-Month Trial Shutdown of EW-6* provides additional detail on the general increase in water levels in the SWC since April 2013.

Groundwater Sampling Methods

Since March 2012, passive diffusion bags (PDBs) have been used almost exclusively to collect groundwater samples for VOC analysis. In March 2012, NPI also received approval from the USEPA to use HydraSleeve® bags for sampling at the NPI site. These bags are used primarily to collect groundwater samples for Cd analysis, but can also be used to collect samples for VOC analysis. Other sampling methods have also been approved for use at this site, but these two are the primary methods currently in use, as described in the *Groundwater Monitoring Plan* for the site (last revised January 2012). In addition, an updated quality assurance plan (QAPP) was submitted on October 30, 2017, for review at Howard's request. Once approved by the agencies, the updated QAPP will supersede all prior QAPPs prepared for the site. The updated QAPP basically formalizes the January 2012 monitoring plan, with several minor changes in protocol to reduce the project's environmental footprint, optimize work flow, and continue to protect human health and the environment.

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Groundwater Extraction Well Operation and Sampling

MRDS Extraction Wells

Extraction wells EW-1R and EW-2 at the MRDS remained shut down in 2018. Likewise, neither of these wells operated in 2015-2017, apart from about 15 minutes in March and June 2015 to purge the wells prior to the collection of groundwater samples from them. In September 2015, the field team was unable to collect a sample from EW-1R, so NPI pulled the pump. Because the collar between the motor and pump was damaged due to corrosion, as approved by both agencies, NPI:

- Left the pump out of EW-1R and pulled the pump from EW-2 (to avoid the type of corrosion evident at EW-1R).
- Stockpiled the standpipe and one operable pump in the MRDS equipment building.
- Hung PDBs in EW-1R and EW-2 for quarterly sampling, instead.

A new replacement pump for EW-1R and two local drillers are readily available to get both extraction wells back online promptly (i.e., in one week or less) if VOC rebound occurs.

Southwest Corner Extraction Wells

Extraction well EW-5 in the SWC remained shut down in 2018, as approved by both agencies. Like EW-1R and EW-2 at the MRDS, the pump was pulled and PDBs were hung in EW-5 for quarterly sampling instead, starting in 2015. At Mae's request, multi-level PDBs were installed at 10-foot intervals in EW-1R, EW-2, and EW-5 to assess NPI VOC concentrations over the full saturated screen length. GF's November 16, 2016, *EW-5 Status Report and Work Plan for a 12-Month Trial Shutdown of EW-6* provides additional detail regarding EW-5.

In 2018 though, also as approved by both agencies, NPI stopped sampling EW-1R, EW-2, and EW-5, given that their screened intervals are relatively long and other nearby wells/piezometers in the monitoring network with standard-size screened intervals provide adequate coverage. GF's February 2018 *Annual Interim Remedial Action Status Report – 2017* provides additional detail regarding this change.

Extraction well EW-6 operated continuously in 2018 with the following exceptions:

- On March 28th, the pump in EW-6 was shut down as a precaution during the installation of a waterline to serve a building addition. On April 13th, EW-6 resumed full-time operation.

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- EW-6 was off line again December 15-18 for well redevelopment and December 27, 2018 - January 3, 2019, for electrical repair. EW-6 resumed full-time operation on January 4, 2019.

See the 2018 and January 2019 monthly progress reports that were submitted for the MRDS and SWC groundwater pump-and-treat systems for more details.

Southwest Corner and Off-Property Groundwater Quality (Former Plume 1/2)

Volatile Organic Compounds

On-Site and Off-Site Monitoring/Extraction Wells and Piezometers

Table 4 summarizes the analytical results for the samples collected from EW-5 and EW-6, the one SWC extraction well that operated in 2018. Note that:

- All tables attached to this report containing analytical results only include data from the last four years to minimize the size of the report. Appendix A states that a CD with Excel workbooks summarizing all historical analytical data for all wells associated with the site is available upon request.
- Starting in 2009, groundwater analytical tables identify the method used for collecting each sample for reference.
- NPI stopped sampling EW-5 but continued sampling EW-6 quarterly in 2018, as agreed. The TCE concentrations in EW-6 ranged from 0.75J to 0.89J $\mu\text{g}/\ell$. These concentrations are all well below the 5 $\mu\text{g}/\ell$ ES/MCL.

Table 5 contains the last four years of historical analytical results for samples collected from the on-site monitoring wells in the SWC area of the site, as well as off-site, downgradient monitoring wells in Plume 1/2. Appendices B and C note that all the laboratory reports and chain of custody records from the routine quarterly sampling done in 2018 and a copy of the text of the 2018 quarterly data validation reports, respectively, are available upon request.

The TCE concentration in groundwater samples collected from all monitoring wells/piezometers in former Plume 1/2 were below the ES/MCL of 5.0 $\mu\text{g}/\ell$ in all four sampling rounds in 2018. This continues the downward trend in Plume 1/2 TCE concentrations and reflects positively on the remedial efforts that have and continue to take place onsite. Appendix D contains TCE concentration versus time graphs for all historically impacted Plume 1/2 wells (i.e., TCE \geq 5 $\mu\text{g}/\ell$) and other select wells of interest or concern. These graphs include best-fit exponential trend lines

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generated using Excel, and they depict the overall decreasing to stable TCE concentrations in the Plume 1/2 wells.

City of Eau Claire Monitoring Wells

Three of the five remaining City of Eau Claire monitoring wells (EC wells) were sampled in 2018, as agreed. EC-1 was sampled four times, while EC-2 and EC-6 were each sampled once. EC-7 was approved for abandonment years ago but was retained at the request of the City for its internal use. However, EC-7 and EC-5 are no longer being sampled by NPI because both wells are outside the former 1993 TCE plume boundary. The TCE concentrations in the samples collected from EC-2 and EC-6 were both below the laboratory's limit of detection. Well EC-1 was once again the only EC well that contained detectable concentrations of TCE, ranging from 0.26U to 1.7 µg/ℓ. Table 5 includes the analytical data for these wells.

City of Eau Claire Production Wells

Historically, the City of Eau Claire collected and analyzed monthly water samples for VOCs from five of its production wells (CW-11, CW-15 to CW-17, and CW-19) in the north well field. In the fall of 2013, their laboratory instrument broke, and the City contracted the analyses to the Eau Claire County Health Department (County) beginning in December 2013. In May 2014, the City notified GF that they would no longer collect and analyze monthly samples from the above city wells and that the April 2014 samples would be the last ones collected and analyzed by the City.

- On April 25, 2017, the City brought CW-22 and CW-23 online.
- Production well water routed through the air stripper at the ECMWF included city wells 11/15/16/17/19 prior to April 25th and city wells 17/19/22/23 starting on April 25th.

In 2018, as approved by both agencies, NPI:

- Stopped sampling CW-11, CW-16, and CW-17 because they are downgradient of the TCE capture zone created by CW-15, CW-19, CW-22, and CW-23.
- Continued to sample CW-15, CW-19, CW-22 and CW-23 quarterly and had three of the four sample sets analyzed using drinking water Method 524 by Pace's Minneapolis, Minnesota, lab. The cooler sent from NPI to the lab in Minneapolis was received above 6°C in June, according to Pace. Consequently, the June sample set was discarded and not analyzed for the NPI VOCs, as agreed.

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ECMWF staff continue to accompany GF field staff during the collection of samples from the production wells, air stripper, and water plant.

Table 6 contains analytical results of the raw water samples that GF collected in 2018 from the individual city production wells; the commingled untreated raw water prior to the two air stripping towers; the commingled treated water after each of the towers, but before chlorination; and the commingled treated water after sand filtration and chlorination. All the quarterly samples collected from CW-15 by GF in 2018 had TCE concentrations below the laboratory's detection limit, which ranged from 0.11 to 0.12 µg/ℓ.

CW-19 and CW-22 are the two northern-most city production wells within the limits of former Plume 1/2, as shown on Figure 1. Based on historical data, we believe that CW-19 and CW-22, when pumping, intercept virtually all the TCE in Plume 1/2 that reaches the city well field. As shown in Table 6, TCE concentrations in:

- CW-19 ranged from 0.40 to 2.4 µg/ℓ in 2017 and from 0.62 to 0.97 µg/ℓ in 2018.
- CW-22 ranged from 2.2 to 2.4 µg/ℓ in 2017 and from 2.0 to 2.7 µg/ℓ in 2018.

We believe the gradual changes are attributable to CW-22 starting to capture more TCE relative to CW-19 over time. This capture pattern progression is consistent with prior results, before CW-22 started operating, when CW-19 was at the leading edge of Plume 1/2 instead. Every one of the six samples collected from CW-19 and CW-22 in 2018 and analyzed by Pace contained detectable concentrations of TCE, ranging from 0.62 to 2.7 µg/ℓ, but all TCE concentrations were well below the 5.0 µg/ℓ ES/MCL.

The samples collected from CW-23 in 2018 contained TCE at concentrations ranging from 0.12U to 0.15J µg/ℓ.

The samples of comingled untreated raw water from CW-17, CW-19, CW-22, and CW-23 prior to air stripping contained TCE at concentrations ranging from 0.36J to 1.1 µg/ℓ in 2018. None of the samples collected following the stripping towers contained TCE at concentrations above the limit of detection, which ranged from 0.11 to 0.12 µg/ℓ in 2018. The final product delivered to the public, following further conventional treatment, did not contain detectable concentrations of TCE in any of the three samples in 2018.

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Eau Claire Municipal Well Field and Revised Groundwater Clean-Up Goal

In December 2009, the USEPA issued an Explanation of Significant Differences (ESD) that revised the groundwater clean-up goal for the ECMWF and NPI sites from the PALs to the ESs/MCLs. This change in the groundwater clean-up goal, to be consistent with NR 140 and the MCL, led to a meeting with the City and ultimately to a short-term sampling program at several of the city wells, the two air stripper towers, and within the water treatment plant. The sampling was done on four days in late November and early December 2011. The data from the sampling program documented that, while TCE was detectable in three of the four samples of the finished water entering the city distribution system, the concentrations were an order of magnitude below the 5.0 µg/ℓ ES/MCL.

Based on historical monitoring data and that from the 2011 city well system sampling program, the USEPA issued an August 1, 2012, letter to the City of Eau Claire confirming that operation of the air strippers to remove VOCs prior to distribution to its customers would no longer be required. The City has subsequently chosen to continue operation of the strippers at its own cost. If the City ever decides to turn the strippers off, the USEPA letter requires that they be kept in operating condition until the USEPA either deletes the NPI site from the National Priorities List (NPL) or until USEPA's review of future NPI site groundwater monitoring data allows it to determine that the strippers can be permanently dismantled prior to the deletion of the NPI site from the NPL. On April 5, 2013, the USEPA issued a Final Closeout Report (FCOR) for the ECMWF site, and the site was deleted from the NPL on May 27, 2014.

Cadmium Monitoring

Historically, dissolved Cd has been present in a few monitoring wells in the SWC. The Cd concentrations in several wells (MW-10A&B and MW-34A) have often been above the 5.0 µg/ℓ NR 140 ES/MCL. The agencies requested during the December 13, 2012, annual on-site meeting that an expanded list of monitoring wells be sampled for Cd during each of the first two quarters of 2013. The agencies wanted to use the data to assist in determining whether additional investigation or remedial action was needed. A total of 15 monitoring wells and the 2 extraction wells in the SWC were sampled for Cd at least twice in 2013. As expected, most of the Cd concentrations in the samples collected from monitoring wells MW-10A&B and MW-34A were above the ES/MCL. One of the four samples collected from monitoring well MW-70B also was above the ES/MCL. At least one sample from five other wells (MW-4B, MW-34B&C, MW-68, and MW-76A) and extraction well EW-5 contained a Cd concentration above the PAL. Of the remaining seven wells, only one contained a Cd concentration above the 0.38 µg/ℓ limit of detection. Table 7 contains the last four years of results for the wells in the SWC that were

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routinely sampled for Cd analysis in 2018. Appendix A notes that a CD with Excel workbooks summarizing all historical Cd analytical data is available upon request.

In 2014, at least one round of groundwater samples was collected from 22 additional monitoring wells in Plume 1/2 between the NPI property boundary and the city well field to confirm that Cd has not historically migrated off site. The results demonstrated that Cd is not currently migrating off site at detectable concentrations.

Metals are relatively immobile in the subsurface. In 2015, additional sampling for Cd in the SWC continued. At least one sample was collected from each of ten on-site monitoring wells and the two extraction wells. Groundwater samples collected from MW-10A (3 samples), MW-10B (3 samples), MW-34A (2 samples), and MW-75 (2 samples) contained Cd at a concentration above the 5 µg/ℓ ES/MCL. This data confirmed that, while there are exceedances of the ES/MCL for Cd in groundwater, the extent of groundwater with Cd concentrations above the ES/MCL is restricted to a relatively small area around former Lagoon #1. They also show that it has not migrated significantly horizontally or vertically at the site within the aquifer. See Figure 4 for a groundwater flow map of the SWC.

As agreed, GF compiled and analyzed all historical Cd data associated with the NPI site in 2015. Based on this data, a remedial alternatives analysis was completed and submitted to the WDNR and USEPA on June 23, 2015. The report concluded that former Lagoon #1, which was remediated in the late 1990s, was the primary source of Cd in groundwater and that the Cd concentrations in groundwater were exhibiting a decreasing trend. It recommended continued monitoring of Cd in groundwater with a re-evaluation as part of the 2016 annual report.

In 2016, groundwater quality directly below and downgradient of former Lagoon #1 continued to improve. As described previously, groundwater samples from MW-10A, MW-10B, MW-34A, and MW-75 contained Cd at a concentration above the 5 µg/ℓ ES/MCL in 2015. By 2016, samples from only two of the four wells (MW-10A and MW-34A) contained Cd at a concentration above the 5 µg/ℓ ES/MCL (see Table 7). Consequently, our recommendation for continued routine monitoring of Cd remained unchanged.

In a letter to NPI dated December 13, 2017, Howard concluded both agencies “are satisfied that NPI has submitted enough lines of evidence to support MNA [monitored natural attenuation] as a viable remedy for the cadmium at the NPI site.” In 2018, samples from only MW-10A and MW-34A contained Cd at a concentration above the 5 µg/ℓ ES/MCL, providing further support for continued MNA.

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Melby Road Disposal Site (Former Plume 3/4)

The installation and startup of the groundwater extraction wells (EW-1 and EW-2) at the MRDS in March 1994 was an interim remedial action that was intended to be used until the final remedy for this area of the site was developed and implemented. The final remedy was the engineered multi-layer cap over the MRDS and the SVE system that was installed beneath the cap, both completed in 1998. Since 1998, both extraction wells were operated continuously apart from down time for pump repairs. None of the groundwater samples collected from the on-site wells under the cap have contained detectable concentrations of TCE since at least 2001, documenting that the final remedy had eliminated the need to continue operation of the interim remedial action (pumping from EW-1R [a replacement for EW-1] and from EW-2).

In 2010, NPI prepared and submitted a draft Restrictive Use Covenant (RUC) for the MRDS as requested by the USEPA, and subsequently the USEPA approved an 18-month trial shutdown of EW-1R and EW-2 to determine whether these wells were needed to protect groundwater quality beneath and downgradient from the site. The trial shutdown occurred from October 2010 through April 2012.

Throughout the shutdown, groundwater quality at and immediately downgradient from the MRDS remained stable or improved slightly. The analytical results from the final sampling round were submitted to the USEPA and WDNR in a May 23, 2012, report. The report recommended approval of the long-term shutdown of the MRDS extraction wells. Both agencies verbally approved the long-term shutdown of extraction wells EW-1R and EW-2 during a December 13, 2012, meeting with NPI.

The groundwater contours at and near the MRDS are shown on Figures 1 and 2 and represent groundwater elevations measured in the monitoring wells in June 2018.

Table 8 contains the last four years of analytical results for the groundwater monitoring wells/piezometers at the MRDS and downgradient monitoring wells/piezometers in former Plume 3/4. Concentrations of all VOCs in most of the wells/piezometers in the MRDS area have been below the laboratory limit of detection for many years. A total of 7 of the 14 existing wells/piezometers in the MRDS area and downgradient in former Plume 3/4 were sampled once in 2018. VOC concentrations in 6 of the 7 wells were below the laboratory limit of detection. There were no exceedances of the TCE ES of 5.0 µg/l in the 2018 groundwater samples collected from any of the former Plume 3/4 wells/piezometers, and none of the analytical results

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represented an increasing trend in TCE concentration. MW-65C was the only remaining piezometer in former Plume 3/4 with a detectable concentration of TCE in 2018, with a TCE concentration of 0.72J µg/ℓ. MW-65C is located off site and approximately 250 feet north-northwest of the MRDS.

Table 9 contains the 2014-2017 analytical results for the groundwater samples collected from the two MRDS extraction wells (EW-1R and EW-2). They were sampled four times in 2017 but were not sampled in 2018, as agreed. None of the samples collected from these two wells in 2017 contained detectable concentrations of any VOCs and haven't since August 2001.

Appendix E contains TCE concentration versus time graphs for all monitoring wells/piezometers in the MRDS area with detectable TCE in 2018 and other select wells of interest or concern, both on and off site. These graphs provide a visual representation of TCE concentrations over time and provide further evidence that TCE concentrations in groundwater at and downgradient from the MRDS area are well below the ES/MCL and that the trend in those wells that do have detectable TCE concentrations is stable or decreasing.

East Disposal Site (Former Plume 5)

Groundwater samples collected from monitoring wells associated with the East Disposal Site (EDS) had not contained detectable concentrations of TCE for years. Following approval by the USEPA, all the EDS monitoring wells, apart from two, were abandoned in 2011. Two "Plume 5" wells (MW-7 and MW-8) formerly associated with the EDS, but located immediately up- or side-gradient of the MRDS, were retained for future water level measurements and "re-classified" as Plume 3/4 monitoring wells.

Extraction Well Pumping Volumes and Cascade Aerator Removal Efficiencies

Extraction wells EW-1R and EW-2 at the MRDS and EW-5 and EW-6 in the SWC are components of the interim remedial action for groundwater, as described in the September 30, 1991, Record of Decision (ROD). The extraction wells have been used since 1994 to remove contaminated groundwater and provide hydraulic gradient control in these two areas of the site (as noted above, the MRDS wells and EW-5 have now been turned off). Groundwater pumped from these wells is directed to cascade aeration systems CAS-1 and CAS-2R, respectively. The goal of the cascade aerators is to remove, by volatilization, a minimum of 25 percent of the VOCs from the pumped groundwater before it is discharged to a storm sewer that in turn discharges to the Chippewa River via a subsurface diffuser.

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As discussed above, EW-1R, EW-2, and EW-5 are now considered “non-active”. Extraction well EW-6 operated continuously in 2018 with the following exceptions:

- On March 28th, the pump in EW-6 was shut down as a precaution during the installation of a waterline to serve a building addition. On April 13th, EW-6 resumed full-time operation.
- EW-6 was off line again December 15-18 for well redevelopment and December 27, 2018 - January 3, 2019, for electrical repair. EW-6 resumed full-time operation on January 4, 2019.

Samples of the groundwater pumped from EW-6 were collected four times in 2018 prior to the groundwater’s discharge to CAS-2R. As required by the WPDES permit for this discharge, four samples were also collected of the treated effluent from CAS-2R in 2018. These samples are collected from manhole MH-18, which is within 60 feet of CAS-2R and receives its discharge. Because EW-1R and EW-2 were “non-active”, discharge samples were not collected from CAS-1 in 2018.

Table 10 provides the annual volumes of groundwater pumped from the MRDS extraction wells (EW-1R and EW-2) to CAS-1 and from the SWC extraction wells (EW-5 and EW-6) to CAS-2R, and the cumulative volume of treated groundwater discharged to the storm sewer from the inception of the system through 2018. Due to the trial shutdown of MRDS extraction wells EW-1R and EW-2 during the first quarter of 2012 and the fact that these wells were not turned back on following the trial shutdown, we continued to treat them (and EW-5) as non-discharging wells for 2018.

In 2018, the total volume of treated groundwater discharged to the storm sewer was 87.72 million gallons. The volume removed from all the extraction wells since March 1994 now totals over 4.49 billion gallons.

Tables 11 and 12 list the concentrations of TCA and TCE, respectively, in the groundwater pumped from the extraction wells. The tables also include all historical TCA and TCE effluent concentrations for each of the cascade aerators, the aerators’ calculated removal efficiencies, and the effluent concentration of the combined effluent discharged from the cascade aerators. Because extraction wells EW-1R and EW-2 were not operating in 2018, there is no need to calculate the removal efficiency for CAS-1. Table 11 shows that the TCA removal efficiency of CAS-2R in 2018 ranged from 31 to 58 percent. Table 12 shows that the TCE removal efficiency of CAS-2R in 2018 ranged from 22 to 54 percent. The lower end of this range is below the removal efficiency goal of 25 percent.

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Likely reasons for the lower-than-goal removal efficiencies in March and August include:

- The influent and effluent samples were collected at different times.
- The measured concentrations were relatively low and flagged as less-reliable J values in both sample sets.

Overall results document that the performance of CAS-2R in 2018 exceeded the TCA/TCE removal efficiency goal of 25 percent.

The discharge from both cascade aerators flows to manhole MH-18 in the southwest corner of the NPI property, from there to the City of Eau Claire storm sewer system, and ultimately discharges to the Chippewa River through a subsurface diffuser. The discharge from the cascade aerators is regulated by the WDNR at MH-18. Discharge monitoring report (DMR) forms for MH-18, etc. are submitted to the WDNR manager of the Superfund program rather than the manager of the wastewater program, in accordance with a March 12, 2008, WDNR directive.

In April 2018, the WDNR revised NPI's DMR requirements to include:

1. One annual DMR per year for pH, temperature, and total recoverable cadmium.
2. Four quarterly DMRs per year for discharge flow and the NPI VOCs.
3. The priority pollutants (PP) in 2018 and every 5 years thereafter until discharges of the pump-and-treat groundwater to the Chippewa River cease. On September 19, 2018, GF submitted the PP results for 2018 to the WDNR and USEPA on NPI's behalf.

Likewise, routine DMRs are submitted to the WDNR and USEPA on a quarterly basis, and an annual summary report is also submitted to the WDNR and USEPA.

Table 13 summarizes the analytical results of all the MH-18 samples collected during the last four years. There have never been any exceedances of the limitations established by the WDNR. However, while the removal of pumpable waste forge compound from Lagoon #1 was in progress, the estimated discharge of Cd spiked up from its normal rate of <0.10 lb/day to 0.36 lb/day in June 1994 and was temporarily above the 0.21 lb/day weekly average Cd discharge requirement. Supplemental sampling documented that the one-time spike was anomalous.

Following the completion of Lagoon #1 and LDA remedial activities in July 1998 and December 2001, respectively, estimated Cd discharge rates also decreased approximately three orders of

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magnitude from 0.36 lb/day and have been at relatively low to “non-detect” levels since December 2010. GF’s *June 2015 Compilation and Analysis of Cd Soil and Groundwater Data* report provides additional details (e.g., Attachment A to the June 2015 report describes the supplemental sampling that was conducted following the June 1994 spike in Cd concentrations). The total Cd concentration in the sample collected from MH-18 in 2018 was 0.13J µg/ℓ, as shown in Table 13.

Well/Piezometer Abandonment Request and Groundwater Sampling Schedule for 2019

NPI requests agency approval to abandon the following monitoring wells/piezometers in 2019.

- In former Plume 1/2: MW-39A, MW-69B, and MW-71A.
- In former Plume 3/4: MW-5B, MW-62C, MW-63B, and MW-66C.

Given the documented improvement in groundwater quality and PFAS sampling results in 2018, continued monitoring of these seven wells/piezometers is no longer necessary. In addition, it will eliminate the chance of a well or piezometer getting lost or damaged and serving as a conduit for contamination to reach the aquifer, etc.

Table 14 presents the 2019 groundwater sampling and well abandonment schedule for the site. Based on the long-term improvement in overall groundwater quality, proposed changes in the sampling schedule for 2019 include:

1. Reduce sampling frequency for NPI VOC analysis from quarterly to semi-annual at ECMWF, EC-1, MW-4B, MW-34A, MW-68A/B, and MW-77A/B (all Plume 1/2 wells or piezometers) based on the relatively low levels of TCE and long-term decreasing trends. In addition, there is enough quarterly data to document that concentrations do not fluctuate seasonally.
2. Reduce sampling frequency for Cd analysis from annual to none at MW-4B, MW-34C, MW-68A, and MW-70A. Cd concentrations in these wells/piezometers were below detection limits in 2017/2018 and historically have ranged from non-detect to J values well below its 5.0 µg/ℓ ES/MCL. The two exceptions are Cd concentrations of 13.1 µg/ℓ in MW-70A on October 11, 2011, and 2.0 µg/ℓ (below the 5.0 µg/ℓ ES/MCL but not J flagged) in MW-4B on March 4, 1993.

During the November 28, 2018, annual meeting at NPI, the agencies agreed that they would consider reduced monitoring. Table 14 summarizes the proposed well/piezometer abandonment request and changes in the sampling schedule for 2019, as outlined above.

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Findings and Conclusions

As described in our September 24, 2015, *Remedial Alternatives Analysis for the MW-34/70 Area TCE Degreaser Sludge* report, operation of the MW-34/70 area SVE system has removed a substantial mass of TCE. The residual TCE in this area has been shown to be bound relatively tightly to the sludge. However, NPI will continue to operate both mid-depth SVE wells and will rotate the four shallow SVE wells (two at a time) seasonally. Geoprobe sampling will be conducted in the area in 2023 to re-evaluate the effectiveness of the system.

Based on the long-term success of the MW-34/70 area SVE system, continued seasonal operation of the MRDS SVE system is also proposed to eliminate condensate production and reduce the project's environmental footprint. Continued full-time operation of the system for the protection of groundwater quality appears unnecessary. See GF's August 2018 *MRDS SVE System Second Trial Seasonal Shutdown Assessment* report for additional details.

Although the location of the TCE/TCA source area beneath the building has not been completely defined, installation and operation of groundwater extraction well EW-6 reduced TCE/TCA concentrations in groundwater in- and downgradient from this area of the site. The data from monitoring wells and past Geoprobe investigations document that TCE and TCA concentrations in the groundwater at the property boundary remain far below the applicable ESs/MCLs. The installation of SVE vent well VW-1 (began 24/7 operation in January 2015) inside the main building to remove VOCs from the vadose zone beneath the building and improve groundwater quality in that area of the site has been successful. TCE concentrations in monitoring well MW-76A, directly downgradient:

- Decreased an order of magnitude in 2015.
- Were below the PAL of 0.5 µg/ℓ in 2016.
- Increased from <0.33 to 4.6 µg/ℓ in March 2017, after EW-6 stopped pumping groundwater in January. However, with EW-6 back online, TCE concentrations in MW-76A decreased from 4.6 to <0.33 µg/ℓ in June 2017, remained below detection limits for the remainder of 2017 and ranged from 0.26U to 0.36J µg/ℓ in 2018. Virtually coincidental with the January through April 2017 trial shutdown of EW-6, it appears the March 2017 TCE spike occurred because historically high-water levels in the second half of 2016 "flushed out" residual TCE previously trapped in or just above the capillary fringe and below/beyond the main building SVE system's vapor barrier. GF's February 2018 *Annual Interim Remedial Action Status Report – 2017* provides additional detail.

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Meanwhile, the continued operation of SWC extraction well EW-6 provides hydraulic control and prevents the off-site migration of residual dissolved-phase TCE.

Because of all remedial activities completed through 2018:

- The general trend of TCE concentrations in Plume 1/2 wells is decreasing, and there were no exceedances of the ES/MCL for TCE of 5 µg/ℓ or any other NPI VOC in any monitoring wells either on site or off site in 2016, 2017, or 2018.
- All NPI VOCs were virtually non-existent in the sampled Plume 3/4 wells, EW-1R, and EW-2. In 2018, for example, TCE was the only NPI VOC present at concentrations above its limit of detection, TCE was detected in a sample from just one off-site piezometer, and its detected concentration was below the limit of quantitation.
- Cd concentrations above its ES/MCL of 5 µg/ℓ are confined to a relatively small area immediately adjacent to former Lagoon #1, which included only MW-10A and MW-34A in 2018.

Planned Work (2019)

NPI plans the following work in 2019:

- Continue to operate the SVE systems at the MRDS, the shallow and mid-depth wells in the MW-34/70 area, and VW-1 inside the main building to remove additional TCE and protect groundwater quality. Both the MRDS and MW-34/70 area systems will operate seasonally. Field screen, sample, and report results from each system in accordance with agreed upon schedules.
- Continue to operate EW-6, monitor NPI VOCs in the SWC to assess the need to restart extraction well EW-5, sample EW-6 and manhole MH-18, and submit DMRs in accordance with agreed upon schedules.
- Continue to operate and maintain CAS-2R and, if the MRDS extraction wells are restarted, CAS-1.
- Abandon the Plume 1/2 and Plume 3/4 monitoring wells/piezometer summarized in Table 14 upon receiving approval from the agencies.
- Continue to conduct routine quarterly groundwater monitoring. These activities will include the measuring of water levels and sampling of select on- and off-site monitoring wells/piezometers, city production wells, and unit operations at the ECMWF in accordance

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with the approved groundwater sampling schedule and QAPP/monitoring plans for the analysis of NPI VOCs and Cd.

If you have any questions during your review of the report, please call.

Sincerely,

GANNETT FLEMING, INC.

Cliff Wright, P.E., P.G.
Project Engineer

Dennis Kugle
Sr. Project Manager

CCW/jec/Enc

ecc: Derrick Paul (NPI)
Mark Wichman (USACOE)
Lane Berg (City of Eau Claire)
LeAnne Addy (Village of Lake Hallie)

FIGURES

<u>No.</u>	<u>Description</u>
1	24" x 36" Water Table Groundwater Contour Map (June 2018) with 1993 Plume Locations
2	11" x 17" On-site Groundwater Flow Map (June 2018)
3	11" x 17" Site Plan with Three Existing SVE System Locations
4	11" x 17" Main Building SVE Well and June 2018 SWC Groundwater Contour Map

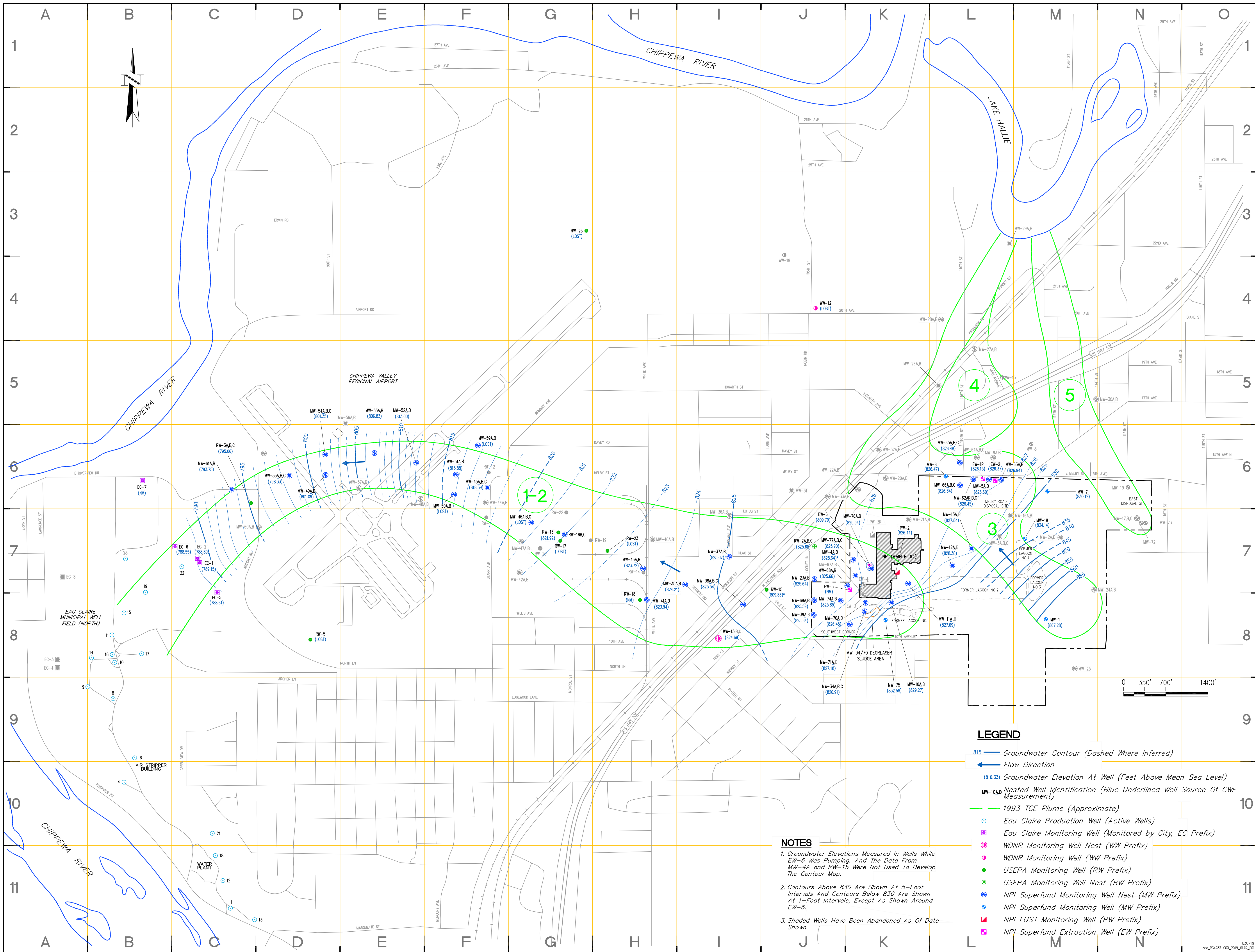
TABLES

<u>No.</u>	<u>Description</u>
1	Well Construction Information
2A	Emission Threshold Information from NR 445.07, Table A, for Detected VOCs in Exhaust Gas Samples
2B	Summary of Air Emissions from/TCE Removal by NPI SVE Systems (2015-2018)
3	Water Level Measurements for 2018
4	NPI VOC Analytical Results from SWC Extraction Wells EW-5 and EW-6 (2015-2018)
5	NPI VOC Analytical Results from Former Plume 1/2 Monitoring Wells (2015-2018)
6	NPI VOC Analytical Results from the Eau Claire Municipal Well Field (2015-2018)
7	Dissolved Cadmium Analytical Results (2015-2018)
8	NPI VOC Analytical Results from Former Plume 3/4 Wells (2015-2018)
9	NPI VOC Analytical Results from MRDS Extraction Wells (2015-2018)
10	Annual Pumpage from NPI Groundwater Extraction Wells
11	TCA Concentrations in NPI Pumped Groundwater (2015-2018)
12	TCE Concentrations in NPI Pumped Groundwater (2015-2018)
13	Summary of Results from Manhole MH-18 Sampling (2015-2018)
14	Groundwater Sampling and Well Abandonment Schedule for 2019

APPENDICES

A	CD with Historical Data Summary Workbooks (available upon request)
B	Laboratory Reports for 2018 Groundwater Analytical Data (available upon request)
C	Text of the 2018 Analytical Data Validation Reports (available upon request)
D	TCE Concentration vs Time Graphs (Former Plume 1/2)
E	TCE Concentration vs Time Graphs (Former Plume 3/4)

FIGURES



No.	REVISIONS	DATE	BY
0	PRELIMINARY DRAFT.	10/10/18	CJP
1	FIRST DRAFT.	10/16/18	CJP

AREA SITE PLAN WITH WELL AND 1993 PLUME LOCATIONS, INC. AND NATIONAL PRESTO INDUSTRIES, INC. AND EAU CLAIRE MUNICIPAL WELL FIELD

Gannett Fleming
EAU CLAIRE, WISCONSIN

HARRISBURG, PENNSYLVANIA MADISON, WISCONSIN

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PROJECT
2018 ANNUAL REPORT
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

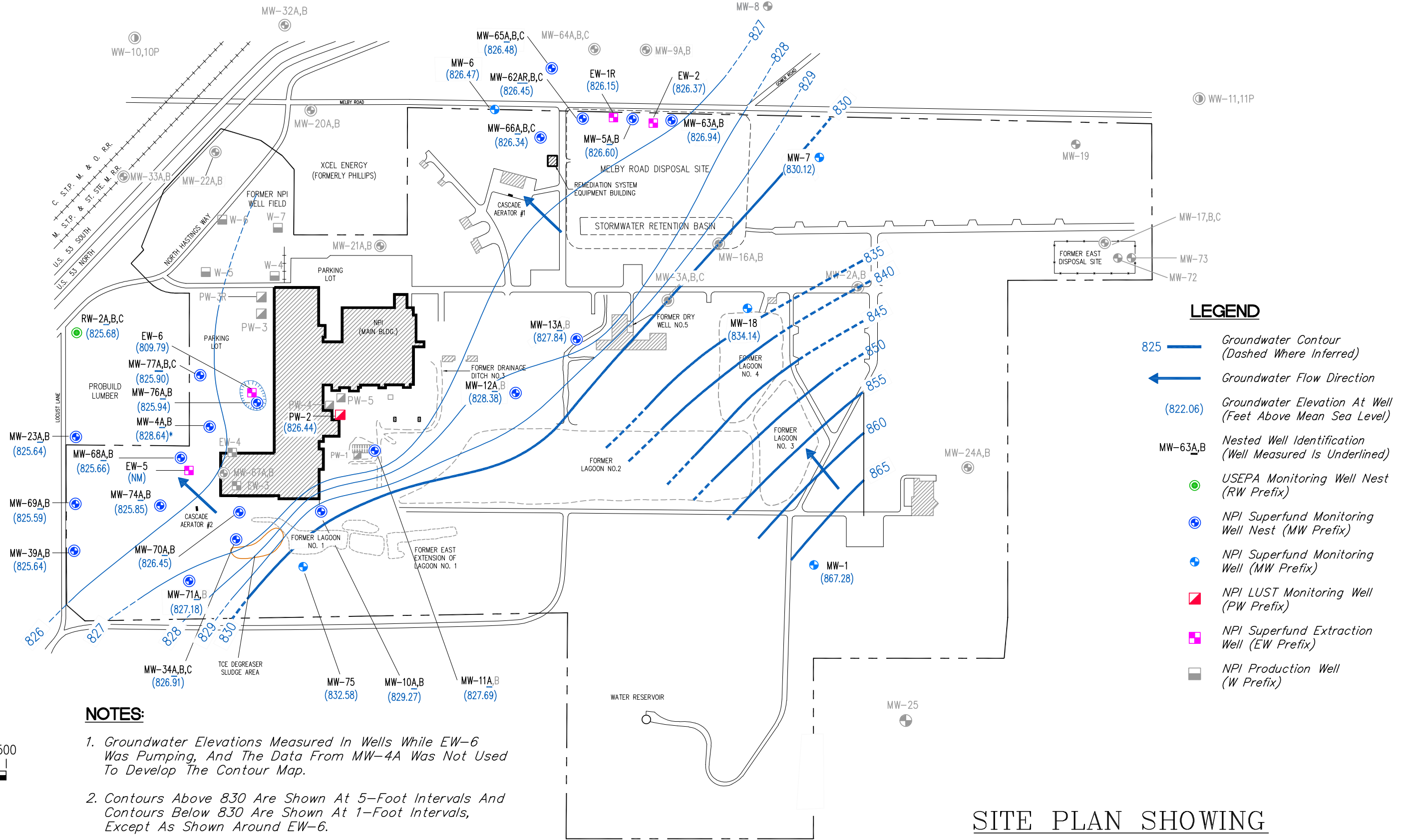
TITLE
WATERTABLE GROUNDWATER CONTOUR MAP (JUNE 2018) WITH 1993 PLUME LOCATIONS

DESIGNED BY CJP	SCALE 1" = 700'
APPROVED BY CCW	PROJECT No. 34283.000
DATE MARCH 2019	DRAWING NO. FIGURE 1

- LEGEND**
- 815 Groundwater Contour (Dashed Where Inferred)
 - Flow Direction
 - (816.33) Groundwater Elevation At Well (Feet Above Mean Sea Level)
 - MW-10A,B Nested Well Identification (Blue Underlined Well Source of GWE Measurement)
 - 1993 TCE Plume (Approximate)
 - Eau Claire Production Well (Active Wells)
 - Eau Claire Monitoring Well (Monitored by City, EC Prefix)
 - WDNR Monitoring Well Nest (WW Prefix)
 - WDNR Monitoring Well (WW Prefix)
 - USEPA Monitoring Well (RW Prefix)
 - USEPA Monitoring Well Nest (RW Prefix)
 - NPI Superfund Monitoring Well Nest (MW Prefix)
 - NPI Superfund Monitoring Well (MW Prefix)
 - NPI LUST Monitoring Well (PW Prefix)
 - NPI Superfund Extraction Well (EW Prefix)

- NOTES**
- Groundwater Elevations Measured in Wells While EW-6 Was Pumping, And The Data From MW-4A and RW-15 Were Not Used To Develop The Contour Map.
 - Contours Above 830 Are Shown At 5-Foot Intervals And Contours Below 830 Are Shown At 1-Foot Intervals, Except As Shown Around EW-6.
 - Shaded Wells Have Been Abandoned As Of Date Shown.

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LEGEND

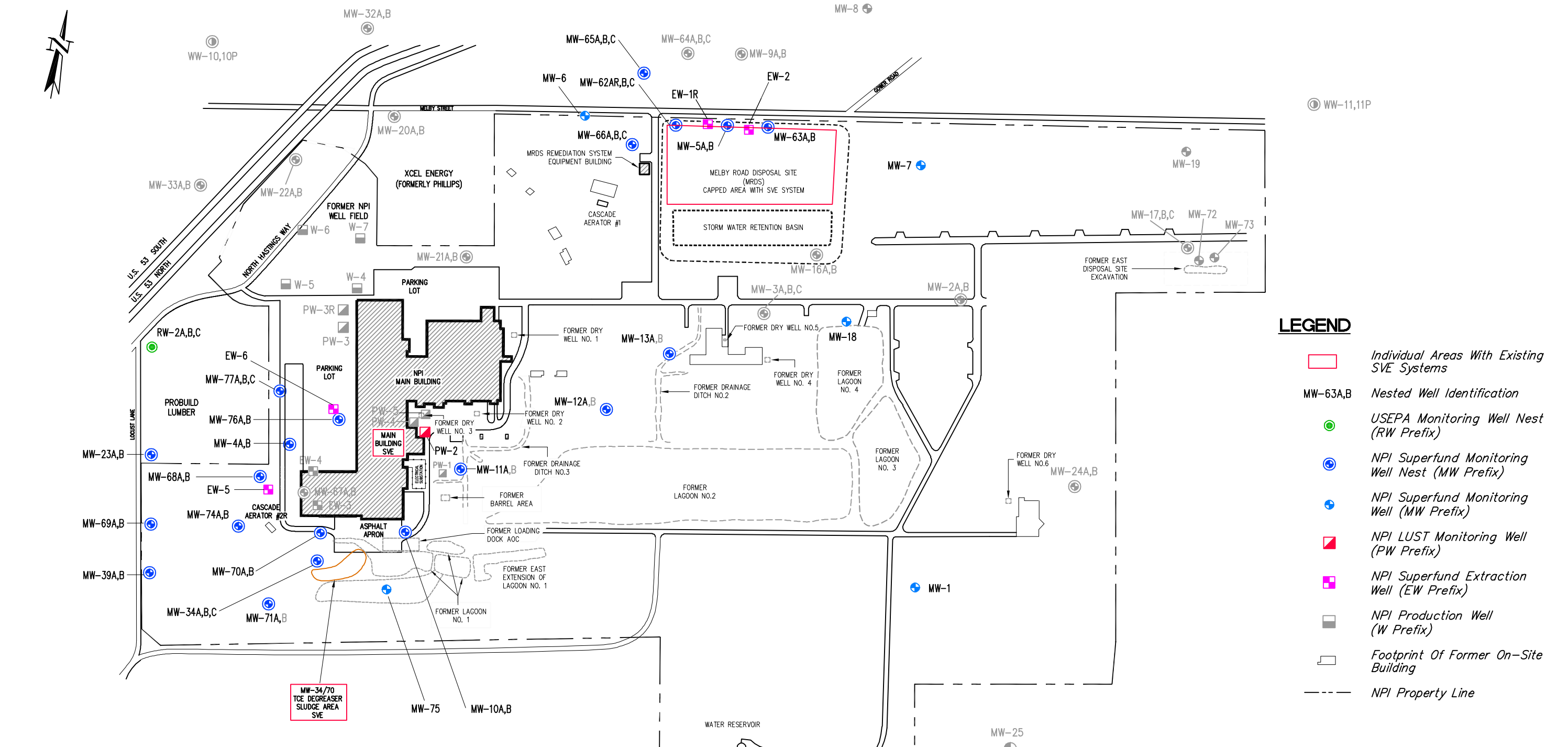
- 825 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (822.06) Groundwater Elevation At Well (Feet Above Mean Sea Level)
- MW-63A,B Nested Well Identification (Well Measured Is Underlined)
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- ⊕ NPI Superfund Extraction Well (EW Prefix)
- NPI Production Well (W Prefix)

NOTES:

1. Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From MW-4A Was Not Used To Develop The Contour Map.
2. Contours Above 830 Are Shown At 5-Foot Intervals And Contours Below 830 Are Shown At 1-Foot Intervals, Except As Shown Around EW-6.
3. Shaded Wells Have Been Abandoned And Shaded Buildings Have Been Removed.
4. EW-3 Was Replaced By EW-5 On January 7, 2004, And EW-4 Was Replaced By EW-6 On September 22, 2011.

**SITE PLAN SHOWING
JUNE 2018 GROUNDWATER CONTOURS**

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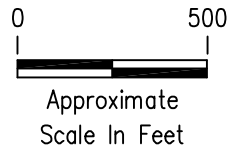


LEGEND

- Individual Areas With Existing SVE Systems
- MW-63A,B Nested Well Identification
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- NPI Superfund Extraction Well (EW Prefix)
- NPI Production Well (W Prefix)
- Footprint Of Former On-Site Building
- NPI Property Line

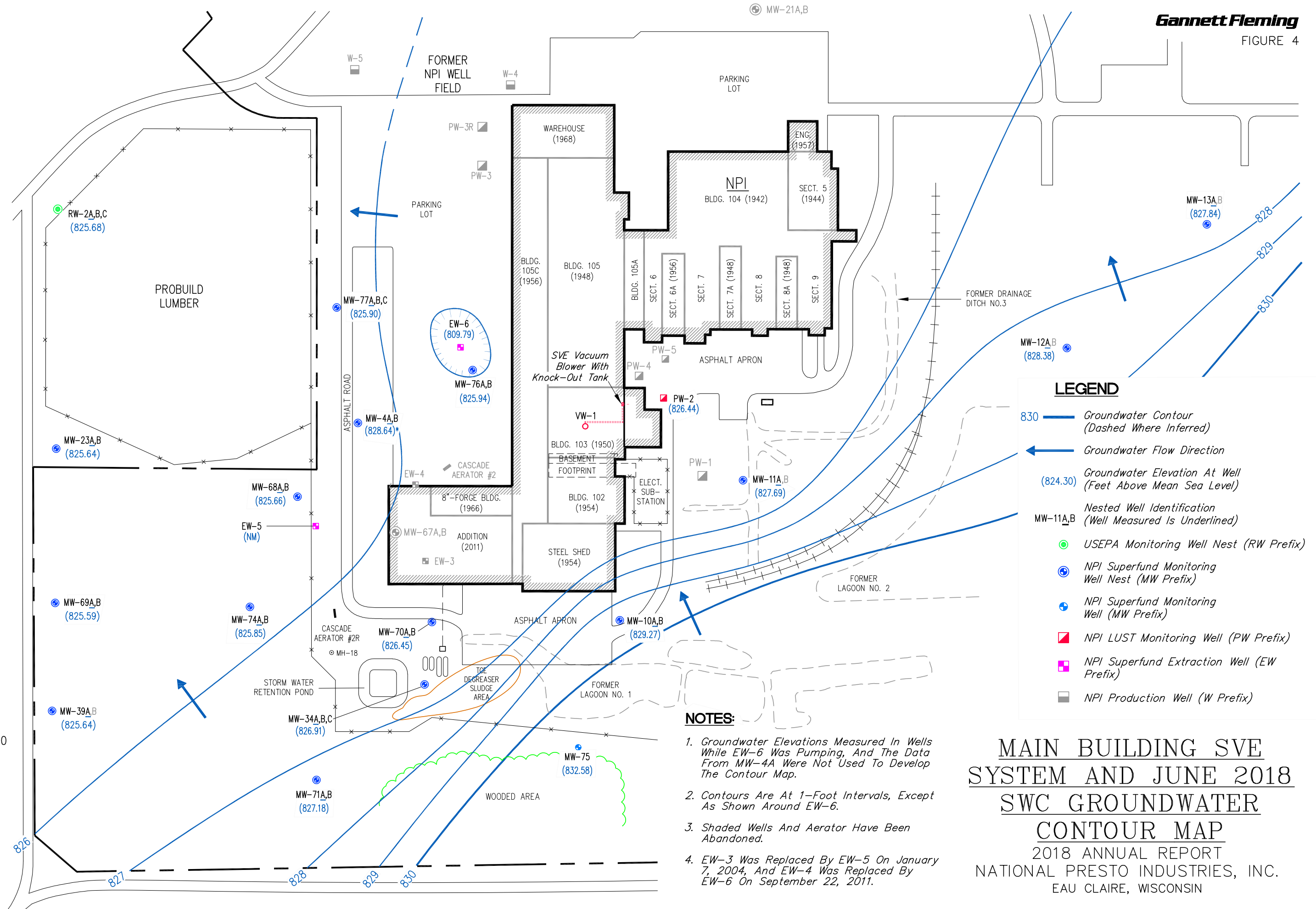
NOTES:

1. Except For The South Half Of Lagoon No.1, Which Was Simply Backfilled With Clean Sand In 1981 At The Request Of WDNR, All Other Former Disposal Areas Were Excavated Prior To Being Backfilled With Clean Sand And/Or Regraded.
2. Shaded Wells Have Been Abandoned And Shaded Buildings Have Been Demolished And Removed.



SITE PLAN WITH THREE EXISTING SVE SYSTEM LOCATIONS

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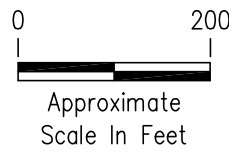


LEGEND

- 830 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (824.30) Groundwater Elevation At Well (Feet Above Mean Sea Level)
- MW-11A,B Nested Well Identification (Well Measured Is Underlined)
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- NPI Superfund Extraction Well (EW Prefix)
- NPI Production Well (W Prefix)

- NOTES:**
1. Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From MW-4A Were Not Used To Develop The Contour Map.
 2. Contours Are At 1-Foot Intervals, Except As Shown Around EW-6.
 3. Shaded Wells And Aerator Have Been Abandoned.
 4. EW-3 Was Replaced By EW-5 On January 7, 2004, And EW-4 Was Replaced By EW-6 On September 22, 2011.

MAIN BUILDING SVE SYSTEM AND JUNE 2018 SWC GROUNDWATER CONTOUR MAP
 2018 ANNUAL REPORT
 NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



TABLES

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Diameter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
CW-10 (city production well)	1/2	B8		CT	1945	65-95	Gravel	20		Bronze	--	NA
CW-11	1/2	B8		CT	1947	56-90	Gravel	20		Bronze	--	NA
CW-14	1/2	B8		CT	1968	63-99	Gravel packed	16		SS	--	NA
CW-15	1/2	B8		CT	1968	62-87	Gravel packed	16		SS	--	NA
CW-16	1/2	B8		CT	1975	75-110	Gravel	20		SS	--	NA
CW-17	1/2	B8		CT	1975	65-100	Gravel	20		SS	--	NA
CW-19	1/2	B7		CT	1992	72-97	Gravel	20		SS	--	NA
CW-22	1/2	C7		CT	2017	54-100	Gravel	20		SS	--	NA
CW-23	1/2	B7		CT	2017	55-80	Gravel	20		SS	--	NA
EC-1 (city monitoring well)	1/2	C7		--	12/16/82	90-100	--	4	P	Steel	813.95	NA
EC-2	1/2	C7		--	12/20/82	18-28	--	4	P	Steel	814.44	NA
EC-3	1/2	A8		--	12/23/82	53-75	--	6	P	Steel	799.58	09/04/08
EC-4	1/2	A8		--	01/31/83	9-19	--	4	P	Steel	800.84	09/04/08
EC-5	1/2	C7		--	12/23/82	17-27	--	4	P	Steel	813.56	NA
EC-6	1/2	C7		--	01/04/83	15-25	--	4	P	Steel	813.19	NA
EC-7 (approved for abandonment-kept by city)	1/2	B6		--	01/05/83	19-29	--	4	P	Steel	816.22	NA
EC-8	1/2	A7		--	01/07/83	20-30	--	4		Steel	812.93	09/04/08
EW-1 (fka MW-14)	3/4	L6	(1)	AR	03/05/87	62.5-97.5	Alluvium	5		Steel	896.00	08/25/95
EW-1R (replaced EW-1)	3/4	L6		HSA/CT	08/25/95	75-100	Alluvium	6	F	SS	900.08	NA
EW-2 (fka MW-15)	3/4	L6		AR	02/26/87	69-104	Alluvium	8	F	Steel	901.45	NA
EW-3 (Last sampled 7/22/03)	1/2	K8		MR	09/01/92	65.2-85.2	Alluvium	6	Vault	Steel	897.22	06/24/10
EW-4	1/2	K7		MR	09/03/92	72-92	Alluvium	6	Vault	Steel	898.23	10/14/10
EW-5	1/2	K7		MR	07/10/03	70-90	Alluvium	6	Vault	Steel/SS	889.90	NA
EW-6	1/2	K7		Sonic	08/06/11	70.3-100.3	Alluvium	6	Vault	Steel/SS	894.89	NA
MW-1	3/4	M8	(2)	HSA	10/26/76	39.5-49.5	Alluvium	2	P	PVC	910.26	NA
MW-2A	3/4	M7	(2,3)	HSA	10/27/76	45-55	Bedrock	2		PVC	905.19	07/15/88
MW-2B	3/4	M7	(2)	HSA	10/27/76	6-16	Alluvium	2		PVC	905.19	07/15/88
MW-3A	3/4	L7	(2,3)	HSA	10/28/76	69-72	Bedrock	2		PVC	899.95	07/15/88
MW-3B	3/4	L7	(2,3)	HSA	10/28/76	73-76	Bedrock	2		PVC	899.95	07/15/88
MW-3C	3/4	L7	(2,3)	HSA	10/28/76	77-80	Bedrock	2		PVC	899.95	07/15/88
MW-4A	1/2	K7	(2)	HSA	10/28/76	70-80	Alluvium	2	P	PVC	898.42	NA
MW-4B	1/2	K7		MR	05/24/90	95-105	Alluvium	2	P	PVC	894.39	NA
MW-5A	3/4	L6	(2)	HSA	02/27/84	64-81	Alluvium	2	P	PVC	902.60	NA
MW-5B	3/4	L6	(2)	MR	12/05/86	87-97	Alluvium	2	P	PVC	902.39	NA
MW-6	3/4	L6	(2)	HSA	01/10/85	73.8-88.8	Alluvium	2	P	PVC	904.70	NA
MW-7	3/4	M6	(2,3)	MR	01/08/85	62-77	Bedrock	2	P	PVC	897.73	NA
MW-8	3/4	M6	(2)	HSA	01/11/85	75-90	Alluvium	2	P	PVC	904.24	05/07/18
MW-9A	3/4	L6	(2)	MR	03/28/85	80-90	Alluvium	2	P	PVC	905.30	04/24/18
MW-9B	3/4	L6	(2,3)	HSA	03/28/85	98-113	Bedrock	2	P	PVC	905.30	04/24/18
MW-10A	1/2	K8	(3)	HSA	11/14/86	56-71	Both	2	P	PVC	894.84	NA
MW-10B	1/2	K8	(3)	MR	11/14/86	90.5-100.5	Bedrock	2	P	PVC	894.91	NA
MW-11A	1/2	K7		HSA	11/15/86	58-73	Alluvium	2	P	PVC	896.03	NA
MW-11B	1/2	K7	(3)	MR	11/17/86	77-87	Bedrock	2	P	PVC	896.27	11/23/11
MW-12A	1/2	L7		HSA	11/18/86	58-73	Alluvium	2	P	PVC	897.09	NA
MW-12B	1/2	L7	(3)	MR	11/18/86	77.5-87.5	Bedrock	2	P	PVC	897.20	11/23/11
MW-13A	3/4	L7		HSA	11/21/86	58.5-73.5	Alluvium	2	P	PVC	896.86	NA
MW-13B	3/4	L7	(3)	HSA	11/21/86	81-91	Bedrock	2	P	PVC	?	11/23/11
MW-14 (nka EW-1)	3/4	L6	(1)	AR	03/05/87	62.5-97.5	Alluvium	2		Steel	896.00	03/05/87
MW-15 (nka EW-2)	3/4	L6		AR	02/26/87	69-104	Alluvium	2		Steel	895.81	02/26/87
MW-16A	3/4	M7	(3)	HSA	11/25/86	58-73	Bedrock	2		PVC	896.62	08/21/98
MW-16B	3/4	M7	(3)	MR	11/24/86	83.5-93.5	Bedrock	2		PVC	896.51	08/21/98
MW-17	5	N7	(3)	HSA	12/03/86	25-40	Both	2	P	PVC	898.91	11/23/11
MW-17B	5	N7	(3)	HSA	12/04/86	50-60	Bedrock	2	P	PVC	899.12	11/23/11
MW-17C	5	N7	(3)	MR	05/20/88	70-80	Bedrock	2	P	PVC	899.50	11/23/11
MW-18	3/4	M7	(3)	HSA	05/19/88	58-73	Bedrock	2	P	PVC	898.38	NA
MW-19	5	N6	(3)	HSA	05/17/88	58-73	Bedrock	2	P	PVC	898.89	11/30/11
MW-20A	3/4	K6		HSA	05/25/88	65.5-80.5	Alluvium	2		PVC	897.82	04/15/95

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Diameter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-20B	3/4	K6		HSA	06/01/88	92-102	Alluvium	2		PVC	896.74	04/15/95
MW-21A	3/4	K7		HSA	05/23/88	67-82	Alluvium	2		PVC	899.27	04/07/10
MW-21B	3/4	K7		MR	05/20/88	92-102	Alluvium	2		PVC	898.95	04/07/10
MW-22A	3/4	K6		HSA	06/03/88	66.5-81.5	Alluvium	2	P	PVC	900.79	05/07/18
MW-22B	3/4	K6		HSA	06/01/88	91.5-101.5	Alluvium	2	P	PVC	900.75	05/07/18
MW-23A	1/2	J7		HSA	06/04/88	65-80	--	2	P	PVC	895.99	NA
MW-23B	1/2	J7		HSA	06/03/88	90-100	--	2	P	PVC	895.95	NA
MW-24A	3/4	M7	(3)	MR	05/25/88	45-60	Bedrock	2		PVC	915.66	09/05/08
MW-24B	3/4	M7	(3)	MR	05/23/88	70-80	Bedrock	2		PVC	915.57	09/05/08
MW-25	3/4	M8	(3)	HSA	05/17/88	39-54	Both	2		PVC	930.35	09/05/08
MW-26A	3/4	L5		HSA	06/22/89	63-78	Alluvium	2	F	PVC	890.17	05/04/18
MW-26B	3/4	L5		MR	06/20/89	109-119	Alluvium	2	F	PVC	890.03	05/04/18
MW-27A	3/4	L5		HSA	06/21/89	62-77	Alluvium	2	F	PVC	890.20	05/04/18
MW-27B	3/4	L5		MR	06/20/89	85.3-95.3	Alluvium	2	F	PVC	890.15	05/04/18
MW-28A	3/4	L4		HSA	06/08/89	65-80	Alluvium	2		PVC	892.86	06/15/99
MW-28B	3/4	L4		MR	06/08/89	113-123	Alluvium	2		PVC	893.16	06/15/99
MW-29A	3/4	L3		HSA	05/25/89	69-84	Alluvium	2	P	PVC	892.72	05/08/18
MW-29B	3/4	L3		MR	05/31/89	124-134	Alluvium	2	P	PVC	892.49	05/08/18
MW-30A	5	M5		HSA	06/12/89	66-81	Alluvium	2		PVC	898.69	09/08/08
MW-30B	5	M5		MR	06/10/89	115-125	Alluvium	2		PVC	898.49	09/08/08
MW-31	1/2	J6		HSA	06/02/89	56-71	Alluvium	2		PVC	887.65	09/09/08
MW-32A	3/4	K6		HSA	06/23/89	59-74	Alluvium	2		PVC	887.83	04/08/95
MW-32B	3/4	K6		MR	06/21/89	90-100	Alluvium	2		PVC	887.77	04/08/95
MW-33A	1/2	J6		HSA	07/07/89	55-70	Alluvium	2		PVC	885.30	04/07/10
MW-33B	1/2	J6		MR	07/07/89	100-110	Alluvium	2		PVC	885.25	04/07/10
MW-34A (data per boring log)	1/2	K8		HSA	06/08/90	67-72	Alluvium	2	P	PVC	895.36	NA
MW-34B (data per boring log)	1/2	K8	(3)	MR	05/31/90	90-100	Both	2	P	PVC	895.28	NA
MW-34C	1/2	K8	(3)	--	--	?-102	Bedrock	2	P	PVC	895.25	NA
MW-35A	1/2	I7		HSA	05/31/90	59-74	Alluvium	2	P	PVC	888.28	NA
MW-35B	1/2	I7		MR	06/06/90	84-94	Alluvium	2	P	PVC	888.02	NA
MW-36A	1/2	I7		HSA	06/06/90	63.5-78.5	Alluvium	2	F	PVC	889.87	11/23/11
MW-36B	1/2	I7		MR	06/07/90	88.5-98.5	Alluvium	2	F	PVC	889.89	11/23/11
MW-37A	1/2	I7		HSA	12/18/90	55.7-70.7	Alluvium	2	F	PVC	885.55	NA
MW-37B	1/2	I7		HSA	02/12/91	68.5-73.5	Alluvium	2	F	PVC	885.27	NA
MW-38A	1/2	I8		HSA	12/16/90	54.5-69.5	Alluvium	2	F	PVC	884.89	NA
MW-38B	1/2	I8		HSA	02/05/91	97.5-107.5	Alluvium	2	F	PVC	884.82	NA
MW-38C	1/2	I8		MR	01/13/91	139.2-149.2	Alluvium	2	F	PVC	884.83	NA
MW-39A	1/2	J8		HSA	12/11/90	62.5-77.5	Alluvium	2	P	PVC	896.17	NA
MW-39B	1/2	J8		MR	01/26/91	114.8-124.8	Alluvium	2	P	PVC	896.38	11/29/11
MW-40A	1/2	H7		HSA	12/20/90	58-73	Alluvium	2		PVC	886.57	08/24/09
MW-40B	1/2	H7		MR	01/16/91	79-89	Alluvium	2		PVC	886.34	08/24/09
MW-41A	1/2	H8		HSA	12/19/90	56-71	Alluvium	2	F	PVC	884.04	NA
MW-41B	1/2	H8		MR	01/23/91	102.5-112.5	Alluvium	2	F	PVC	883.84	NA
MW-42A	1/2	G7		HSA	01/31/91	65.5-75.5	Alluvium	2	P	PVC	891.83	11/29/11
MW-42B	1/2	G7		MR	01/17/91	74.5-84.5	Alluvium	2	P	PVC	891.32	11/29/11
MW-43A	1/2	H7		HSA	02/12/91	61-76	Alluvium	2	F	PVC	885.34	NA
MW-43B	1/2	H7		MR	02/11/91	107.5-117.5	Alluvium	2	F	PVC	885.35	NA
MW-44A	1/2	F6		HSA	08/20/91	62-67	Alluvium	2	F	PVC	885.35	08/25/15
MW-44B	1/2	F6		HSA	08/24/91	114-124	Alluvium	2	F	PVC	885.34	08/25/15
MW-45A	1/2	F6		HSA	08/21/91	63-78	Alluvium	2	F	PVC	886.20	NA
MW-45B	1/2	F6		MR	09/11/91	101-111	Alluvium	2	F	PVC	886.26	NA
MW-45C	1/2	F6		MR	08/26/91	134-144	Alluvium	2	F	PVC	886.05	NA
MW-46A (not found)	1/2	G7		HSA	08/22/91	60-75	Alluvium	2	P	PVC	885.46	NA
MW-46B (not found)	1/2	G7		MR	09/12/91	99.5-109.5	Alluvium	2	P	PVC	885.42	NA
MW-46C (not found)	1/2	G7		MR	08/28/91	134.3-144.3	Alluvium	2	P	PVC	885.38	NA
MW-47A	1/2	G7		HSA	08/23/91	60-75	Alluvium	2	P	PVC	888.39	05/08/18
MW-47B	1/2	G7		MR	09/04/91	100-110	Alluvium	2	P	PVC	888.24	05/08/18
MW-48A	1/2	E6		HSA	09/07/91	66.5-81.5	Alluvium	2	F	PVC	885.15	12/01/11
MW-48B	1/2	E6		MR	09/06/91	93-103	Alluvium	2	F	PVC	885.40	12/01/11
MW-49A	1/2	D6		HSA	09/10/91	78.5-91.5	Alluvium	2	F	PVC	883.04	NA
MW-49B	1/2	D6		MR	09/09/91	107-117	Alluvium	2	F	PVC	883.02	NA

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Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Diameter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-50A (not found)	1/2	F6		HSA	09/16/91	63.4-78.4	Alluvium	2	F	PVC	883.61	NA
MW-50B (not found)	1/2	F6		MR	09/15/91	95-105	Alluvium	2	F	PVC	883.57	NA
MW-51A	1/2	F6		HSA	09/17/91	63.5-78.5	Alluvium	2	F	PVC	884.02	NA
MW-51B	1/2	F6		MR	09/17/91	102-112	Alluvium	2	F	PVC	883.99	NA
MW-52A	1/2	F6		HSA	10/02/91	67.4-82.4	Alluvium	2	F	PVC	884.13	NA
MW-52B	1/2	F6		MR	10/02/91	113-123	Alluvium	2	F	PVC	884.12	NA
MW-53A	1/2	E6		HSA	10/05/91	76-91	Alluvium	2	F	PVC	887.93	NA
MW-53B	1/2	E6		MR	10/05/91	112-123	Alluvium	2	F	PVC	888.25	NA
MW-54A	1/2	D6		HSA	10/10/91	77-92	Alluvium	2	F	PVC	883.78	NA
MW-54B	1/2	D6		MR	10/11/91	112-122	Alluvium	2	F	PVC	883.87	NA
MW-54C	1/2	D6		MR	10/09/91	142-152	Alluvium	2	F	PVC	883.66	NA
MW-55A	1/2	D6		HSA	11/05/91	78-93	Alluvium	2	F	PVC	881.75	NA
MW-55B	1/2	D6		MR	11/26/91	118.5-128.5	Alluvium	2	F	PVC	882.08	NA
MW-55C	1/2	D6		MR	11/04/91	154-164	Alluvium	2	F	PVC	881.91	NA
MW-56A	1/2	E5		HSA	11/06/91	75.5-90.5	Alluvium	2		PVC	885.67	09/04/08
MW-56B	1/2	E5		MR	11/11/91	150-160	Alluvium	2		PVC	885.89	09/04/08
MW-57A	1/2	E6		HSA	11/23/91	76-91	Alluvium	2	F	PVC	886.31	05/08/18
MW-57B	1/2	E6		MR	11/21/91	108-118	Alluvium	2	F	PVC	886.13	05/08/18
MW-58A	1/2	D6		HSA	11/07/91	76-91	Alluvium	2	F	PVC	880.88	?
MW-58B	1/2	D6		MR	11/13/91	112-122	Alluvium	2	F	PVC	880.96	12/01/11
MW-59A (approved for abandonment, but can't find)	1/2	F6		HSA	11/08/91	62-77	Alluvium	2		PVC	882.00	NA
MW-59B (approved for abandonment, but can't find)	1/2	F6		MR	11/19/91	129-139	Alluvium	2		PVC	882.07	NA
MW-60A	1/2	D7		HSA	12/04/91	78.5-93.5	Alluvium	2	F	PVC	879.19	05/07/18
MW-60B	1/2	D7		MR	12/08/91	104-114	Alluvium	2	F	PVC	879.09	05/07/18
MW-61A	1/2	C6		HSA	12/05/91	78.5-93.5	Alluvium	2	F	PVC	879.37	NA
MW-61B	1/2	C6		MR	12/11/91	124-134	Alluvium	2	F	PVC	879.58	NA
MW-62A	3/4	L6		HSA	06/25/92	61-76	Alluvium	2		PVC	893.69	12/22/98
MW-62AR	3/4	L6		HSA	12/22/98	71-86	Alluvium	2	P	PVC	901.75	NA
MW-62B	3/4	L6		MR	06/30/92	96-106	Alluvium	2	P	PVC	901.79	NA
MW-62C	3/4	L6		MR	06/24/92	126.5-136.5	Alluvium	2	P	PVC	901.15	NA
MW-63A	3/4	M6		HSA	06/28/92	65-80	Alluvium	2	P	PVC	899.05	NA
MW-63B	3/4	M6		MR	06/27/92	95-105	Alluvium	2	P	PVC	899.13	NA
MW-64A	3/4	L6		HSA	07/08/92	63.5-78.5	Alluvium	2	P	PVC	894.89	05/08/14
MW-64B	3/4	L6		MR	07/08/92	103.8-113.8	Alluvium	2	P	PVC	895.24	05/08/14
MW-64C	3/4	L6		MR	07/01/92	139-149	Alluvium	2	P	PVC	894.75	05/08/14
MW-65A	3/4	L6		HSA	07/02/92	60.4-75.4	Alluvium	2	P	PVC	891.68	NA
MW-65B	3/4	L6		MR	07/08/92	100-110	Alluvium	2	P	PVC	891.62	NA
MW-65C	3/4	L6		MR	07/07/92	133.9-143.9	Alluvium	2	P	PVC	891.77	NA
MW-66A	3/4	L6		HSA	06/27/92	66.5-81.5	Alluvium	2	P	PVC	900.53	NA
MW-66B	3/4	L6		MR	07/01/92	111-121	Alluvium	2	P	PVC	900.26	NA
MW-66C	3/4	L6		MR	06/27/92	150-160	Alluvium	2	P	PVC	900.43	NA
MW-67A	1/2	K7		HSA	06/22/92	61-76	Alluvium	2		PVC	895.96	09/22/10
MW-67B	1/2	K7		MR	07/09/92	77.8-82.8	Alluvium	2		PVC	895.79	09/22/10
MW-68A	1/2	J7		HSA	07/08/92	63.5-78.5	Alluvium	2	P	PVC	896.47	NA
MW-68B	1/2	J7		MR	06/19/92	97-107	Alluvium	2	P	PVC	896.77	NA
MW-69A	1/2	J8		HSA	07/09/92	65-80	Alluvium	2	P	PVC	898.02	NA
MW-69B	1/2	J8		MR	06/21/92	108.8-118.8	Alluvium	2	P	PVC	898.23	NA
MW-70A	1/2	K8		HSA	06/22/92	62-77	Alluvium	2	P	PVC	895.68	NA
MW-70B	1/2	K8		HSA	07/10/92	77-82	Alluvium	2	P	PVC	895.67	NA
MW-71A	1/2	K8		MR	06/17/92	57-72	Alluvium	2	P	PVC	894.70	NA
MW-71B	1/2	K8	(3)	MR	07/09/92	79-89	Both	2	P	PVC	894.89	11/23/11
MW-72	5	N7		HSA	09/09/98	34-49	Both	2	P	PVC	899.26	11/23/11
MW-73	5	N7		HSA	09/09/98	32-47	Both	2	P	PVC	899.71	11/23/11
MW-74A	1/2	J8		HSA	07/08/03	66-76	Alluvium	2	P	PVC	896.08	NA
MW-74B	1/2	J8	(3)	MR	07/09/03	95-100	Bedrock	2	P	PVC	895.88	NA
MW-75	1/2	K8	(3)	HSA	07/11/03	56-66	Bedrock	2	P	PVC	890.61	NA
MW-76A	1/2	K7		Sonic	09/22/10	65-80	Alluvium	2	F	PVC	894.80	NA
MW-76B	1/2	K7		Sonic	09/22/10	95-100	Alluvium	2	F	PVC	895.12	NA
MW-77A	1/2	K7		Sonic	09/22/10	65-80	Alluvium	2	F	PVC	895.22	NA

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Diameter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-77B	1/2	K7		Sonic	09/21/10	95-100	Alluvium	2	F	PVC	895.21	NA
MW-77C	1/2	K7		Sonic	09/21/10	115-120	Alluvium	2	F	PVC	895.18	NA
PW-1	1/2	K7		HSA	01/05/94	65-75	Alluvium	2		PVC	898.28	09/08/08
PW-2 (approved for aband.-kept for WL measurements)	1/2	K7		HSA	01/03/94	66-76	Alluvium	2		PVC	894.71	NA
PW-3	1/2	K7		HSA	07/12/94	69-79	Alluvium	2		PVC	898.83	06/15/96
PW-3R	1/2	K7		HSA	11/22/96	69-79	Alluvium	2	F	PVC	896.21	08/18/17
PW-4	1/2	K7		HSA	07/12/97	68-78	Alluvium	2		PVC	895.59	09/08/08
PW-5	1/2	K7		HSA	07/13/94	67-77	Alluvium	2		PVC	886.93	01/15/04
PW-67 (Owner: Joles)	5	M4		--	--	--	--	--		--	--	NA
PW-218 (Owner: Martens)	5	M4		--	--	--	--	--		--	--	NA
PW-230 (Owner: Ihlenfeld)	5	M4		--	--	--	--	--		--	--	NA
RW-1	1/2	F7		HSA	12/12/85	60.5-112.5	Alluvium	2		PVC	887.19	07/27/09
RW-2A	1/2	J7		HSA	01/03/86	69-79	Alluvium	2	P	PVC	897.18	NA
RW-2B	1/2	J7		HSA	01/04/86	91-101	Alluvium	2	P	PVC	896.78	NA
RW-2C	1/2	J7		HSA	12/15/85	108-118	Alluvium	2	P	PVC	897.57	NA
RW-3A	1/2	C6		HSA	12/19/85	79-89	Alluvium	2	P	PVC	881.78	NA
RW-3B	1/2	C6		HSA	01/07/86	96-106	Alluvium	2	P	PVC	881.48	NA
RW-3C	1/2	C6		HSA	01/05/86	108.5-118.5	Alluvium	2	P	PVC	881.30	NA
RW-4	1/2	H9	(3)	HSA	02/04/86	53-78	Both	2		PVC	884.65	09/10/08
RW-5 (approved for abandonment, but can't find)	1/2	D8		HSA	01/18/86	82-112	Alluvium	2		PVC	882.19	NA
RW-6	1/2	D7	(3)	HSA	02/11/86	78.5-103.5	Both	2		PVC	883.89	09/03/08
RW-7	1/2	H6		HSA	01/29/86	68-118	Alluvium	2		PVC	890.71	09/10/08
RW-8	1/2	G5		HSA	02/05/86	64-109	Alluvium	2		PVC	889.12	09/09/08
RW-9	1/2	D4		HSA	01/20/86	75.5-105.5	Alluvium	2		PVC	886.62	09/10/08
RW-10	1/2	D6		HSA	07/21/87	70-120	Alluvium	2		PVC	888.28	09/04/08
RW-11	1/2	E5		HSA	07/21/87	65-120	Alluvium	2		PVC	890.45	09/03/08
RW-12	1/2	F6		HSA	07/22/87	60-120	Alluvium	2		PVC	891.01	07/27/09
RW-13	1/2	F8	(3)	HSA	08/11/87	65-75	Bedrock	2		PVC	885.57	09/03/08
RW-14	1/2	H7		HSA	07/24/87	54-114	Alluvium	2		PVC	888.06	07/27/09
RW-15	1/2	J7		HSA	07/24/87	52-92	Alluvium	2	P	PVC	874.76	NA
RW-16	1/2	G7		HSA	07/28/87	63-73	Alluvium	2	P	SS	888.87	NA
RW-16B	1/2	G7		HSA	02/06/91	103-113	Alluvium	2	P	PVC	889.66	NA
RW-16C	1/2	G7		MR	01/31/91	142.5-152.5	Alluvium	2	P	PVC	890.01	NA
RW-17 (approved for abandonment, but can't find)	1/2	G7		HSA	07/29/87	60-70	Alluvium	2		SS	890.24	NA
RW-18 (not found; PW-6 on Indianhead property?)	1/2	H8		HSA	07/29/87	62-72	Alluvium	2		SS	890.62	NA
RW-19	1/2	G7		HSA	07/30/87	60-70	Alluvium	2	P	SS	888.57	12/01/11
RW-20	1/2	G7		HSA	07/30/87	64-74	Alluvium	2		SS	889.43	05/15/95
RW-21	1/2	G6		HSA	07/31/87	63-73	Alluvium	2		SS	890.39	02/15/95
RW-22	1/2	G7		HSA	07/31/87	62-72	Alluvium	2	P	SS	887.42	12/01/11
RW-23 (not found)	1/2	H7		HSA	07/31/87	61-71	Alluvium	2		SS	890.30	NA
RW-24	1/2	E6		HSA	08/01/87	66-76	Alluvium	2		SS	886.52	09/04/08
RW-25 (approved for abandonment, but can't find)	1/2	G3	(3)	HSA	08/13/87	55-65	Bedrock	2		PVC	926.22	NA
WW-1	--	--		HSA	08/08/85	30-40	--	2		PVC	945.05	10/16/01
WW-2	--	--		HSA	08/10/85	57.5-67.5	--	2		PVC	900.53	NA
WW-3	3/4	K5		HSA	07/27/85	63.2-73.2	--	2		PVC	891.45	12/12/91
WW-3B	3/4	K5		MR	06/19/89	138.5-148.5	Alluvium	2		PVC	888.98	12/12/91
WW-4	--	--		HSA	08/07/85	70-80	--	2		PVC	904.18	07/26/06
WW-5	3/4	K4		HSA	08/01/85	69-79	--	2		PVC	892.55	09/09/08
WW-5P	3/4	K4		HSA	10/01/85	104-109	--	2		PVC	892.69	09/09/08
WW-6	1/2	I6		HSA	07/31/85	57.8-67.8	--	2		PVC	889.46	09/09/08
WW-7	1/2	I4		HSA	08/08/85	15-25	--	2		PVC	893.19	09/08/08
WW-8	3/4	J2		HSA	08/01/85	16.75-26.75	--	2		PVC	846.94	09/08/08
WW-9	3/4	N3		HSA	08/06/85	74.9-84.9	--	2		PVC	901.71	08/19/99
WW-9P	3/4	N3		HSA	07/25/85	105-115	--	2		PVC	901.63	08/19/99
WW-10	3/4	J6		HSA	10/02/85	60-70	--	2		PVC	889.10	05/07/99
WW-10P	3/4	J6		HSA	10/02/85	91.3-96.3	--	2		PVC	889.19	05/07/99

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Diameter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
WW-11	5	N6		HSA	09/26/85	36.5-46.5	--	2		PVC	901.36	09/05/08
WW-11P	5	N6		HSA	09/30/85	72-77	--	2		PVC	901.16	09/05/08
WW-12 (not found)	3/4	J4		HSA	09/27/85	17-27	--	2		PVC	892.25	NA
WW-13	4	L5		HSA	10/01/85	67-77	--	2	P	PVC	905.45	11/29/11
WW-14	5	O4		HSA	05/07/85	70-80	--	2		PVC	899.72	09/10/08
WW-15	1/2	I8		HSA	10/03/85	53-63	Alluvium	2	P	PVC	882.61	NA
WW-15B	1/2	I8		HSA	02/06/91	95.6-105.6	Alluvium	2	F	PVC	879.97	11/23/11
WW-15C	1/2	I8		MR	02/01/91	137-147	Alluvium	2	F	PVC	879.76	11/23/11
WW-16	1/2	H8		HSA	10/02/86	57-67	--	2		PVC	885.63	09/10/08
WW-17	1/2	H5		HSA	10/01/85	13-23	--	2		PVC	887.21	09/08/08
WW-18	1/2	I5		HSA	10/01/85	16-26	--	2		PVC	890.84	09/08/08
WW-19	3/4	J3		HSA	09/28/85	20-30	--	2		PVC	894.02	11/30/11
Hallie Golf Course	110th Avenue			--	--	TD = 86	--	6.5		--	--	09/05/08
Don & Bonnie Berg	11265 16th Ave			--	--	TD = 73.4	--	4		--	--	09/09/08

TABLE 1

WELL CONSTRUCTION INFORMATION

NOTES:

Red font in the "Well/Piezometer ID" column indicates the well/piezometer is abandoned or lost/destroyed (125).

Purple font in the "Well/Piezometer ID" column indicates well is approved for abandonment (but 5 not found, EC-7 kept by City, and PW-2 kept for water level measurements).

Blue font in the "Plume" column indicates well not found (13).

Melby Rd. wells MW-62B/C and MW-5A/B and East Disposal Site wells MW-17A, MW-72, and MW-73 were resurveyed by Ayres in December 1998.

Site datum = Mean sea level (MSL).

AR = Air rotary.

CT = Cable tool.

CW = City production well.

EC = City monitoring well.

EW = NPI extraction well.

F = Flush-mount well.

FN = Footnote (see below).

HSA = Hollow stem auger.

MR = Mud rotary.

MW = NPI monitoring well.

NA = Not abandoned.

P = Pro top well.

PW = NPI petroleum UST well.

RW = EPA monitoring well.

Screened Interval = Depth in feet below ground surface (ft bgs) of screened interval.

SS = Stainless steel.

WW = WDNR monitoring well.

-- = Not available/unknown.

FOOTNOTES:

(1) Converted to/replaced by EW-1R in August 1995.

(2) Pre-remedial investigation monitoring well.

(3) Denotes a well screened in sandstone bedrock or both bedrock and alluvium (i.e., sand and gravel glacial outwash).

NATIONAL PRESTO INDUSTRIES, INC.
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TABLE 2A

EMISSION THRESHOLD INFO FROM TABLE A IN NR 445.07 FOR DETECTED VOCs IN SVE EXHAUST GAS SAMPLES

Hazardous Air Contaminant	Detected VOCs ^(1,2)			Emission Threshold(3) (lb/hr or lb/yr)	Time Period for Threshold	Control Requirement ⁽⁴⁾
	Main Bldg. SVE	MRDS SVE	MW-34/70 Area SVE			
Acetone	X	X	X	Not regulated	na	na
Benzene	X			228	Annual	LAER
2- Butanone (MEK)	X	X	X	Not regulated	na	na
Carbon disulfide	X			124,381	Annual	na
"	X			1.67	24-hr avg	na
Carbon tetrachloride	X			118	Annual	BACT
Chlorobenzene	X			2.47	24-hr avg	na
Chloroethane	X	X		14.2	24-hr avg	na
"	X	X		1,776,876	Annual	na
Chloroform	X			2.62	24-hr avg	na
"	X			77.3	Annual	BACT
Chloromethane	X			5.55	24-hr avg	na
1,1-Dichloroethane	X	X	X	21.7	24-hr avg	na
1,1-Dichloroethene	X			1.06	24-hr avg	na
1,2-Dichloroethene (combined)	X		X	42.6	24-hr avg	na
Ethylbenzene	X	X		23.3	24-hr avg	na
"	X	X		177,688	Annual	na
2-Hexanone	X			1.1	24-hr avg	na
Methylene chloride	X			9.33	24-hr avg	na
"	X			3,781	Annual	BACT
4-Methyl-2-pentanone (Methyl isobutyl ketone)	X			11	24-hr avg	na
Tetrachloroethene	X	X	X	9.11	24-hr avg	na
"	X	X	X	301	Annual	BACT
Toluene	X	X		71,075	Annual	na
"	X	X		10.1	24-hr avg	na
1,1,1-Trichloroethane	X	X	X	Not regulated	na	na
Trichloroethene	X	X	X	888	Annual	BACT
"	X	X	X	14.4	24-hr avg	na
Xylenes (mixtures and isomers, combined)	X	X		23.3	24-hr avg	na

NOTES:

Emission thresholds are in lb/hr or lb/yr based on time period shown.

NR 445.07 Table A thresholds are from Wisconsin Administrative Code updated March 2016, and the NR 406.04(2) emission limit for total VOCs is 5.7 lb/hr.

1,2-Dichloroethene = cis-1,2-Dichloroethene and trans-1,2-Dichloroethene concentrations, combined.

Xylenes = m&p-Xylene and o-Xylene concentrations, combined.

BACT = Best available control technology.

LAER = Lowest achievable emission rate.

na = Not applicable.

FOOTNOTES:

(1) For MRDS SVE - includes only those USEPA TCL VOCs historically detected at or above 0.1 µg/ℓ in one or more samples, as shown.

(2) For MW-34/70 Area SVE - includes only those USEPA TCL VOCs historically detected at or above 0.1 µg/ℓ in one or more samples.

(3) Listed thresholds are for emissions from stacks < 25 ft high.

(4) Control listed is required if emissions exceed threshold shown, unless other conditions are met.

NATIONAL PRESTO INDUSTRIES, INC.
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TABLE 2B

SUMMARY OF AIR EMISSIONS FROM/TCE REMOVAL BY NPI SVE SYSTEMS (2014-2018)⁽¹⁾

Year	Main Building SVE ⁽²⁾					MRDS SVE ⁽³⁾				MW-34/70 Area SVE ⁽⁴⁾				Combined ⁽⁵⁾		
	TCE			Total VOCs		TCE		Total VOCs		TCE			Total VOCs		Total VOCs	
	Hourly (lb/hr)	Annual (lb)	Cumulative (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Cumulative (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)
2014	NI	NI	NI	NI	NI	NC	NC	0.0012	1.9	0.0012	5.3	182.6	0.0014	5.8	0.0026	7.7
2015	0.00038	1.8	1.8	0.0033	16.2	NC	NC	0.00014	0.93	0.00075	3.4	186.0	0.00086	3.9	0.00430	21.03
2016	0.00085	2.6	4.4	0.0035	10.1	NC	NC	0.00024	1.2	0.0013	5.7	191.7	0.0015	6.7	0.00524	18.0
2017	0.00140	8.7	13.1	0.0017	11.3	NC	NC	0.00031	0.61	0.0010	4.3	196.0	0.0012	5.0	0.00321	16.91
2018	0.00152	9.0	22.1	0.0018	11.4	NC	NC	0.00035	0.71	0.00079	3.2	199.2	0.00093	3.7	0.00308	15.81

NOTES:

The exhaust gas from each of the three SVE systems is discharged directly into the atmosphere through a stack <25 feet high.

SVE system exhaust gas samples were analyzed for the 34 volatile organic compounds (VOCs) on USEPA's target compound list (TCL) through 2015. Starting in 2016, exhaust gas samples were analyzed for:

TCE, TCA, PCE, and 1,1-DCA from the main building and MRDS SVE systems.

TCE from the MW-34/70 Area system.

NC = Not calculated because TCE was not detected in the MRDS SVE system exhaust gas at least once during the year and total VOC emissions are not elevated.

NI = Not installed and operating.

DCA = 1,1,-Dichloroethane.

PCE = Tetrachloroethylene.

TCA = 1,1,1-Trichloroethane.

TCE = Trichloroethylene.

Total VOCs = Summation of detected TCL VOCs for 2014 and 2015.

Total VOCs = Summation of detected TCE, TCA, PCE, & 1,1-DCA starting in 2016 for the main building & MRDS SVE systems.

Total VOCs = TCE/0.85 starting in 2016 for the MW-34/70 Area SVE system, based on historical data prior to 2016.

FOOTNOTES:

(1) Hourly rates shown are the maximum estimated rate for each year shown. See Table 2A for compound-specific emission thresholds. The NR 406.04(2) emission limit for total VOCs is 5.7 lb/hr.

(2) The main building SVE system began full-time operation in January 2015.

(3) The MRDS system completed 6-month trial seasonal shut downs 12/6/16-6/5/17 and 12/14/17-6/15/18.

(4) The exhaust gas from the MW-34/70 area SVE system is sampled only annually and then typically during one of the warm summer months. Consequently, its total mass estimates are biased high. Values for 2013 and 2014 were updated to include all three SVE units in 2018. Starting in 2015, the system uses only one unit for SVE.

(5) Combined = Summation of air emissions from the SVE systems that operated during a given year.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 3

2018 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)	3/27-29/2018 (Q1)		6/18-21/2018 (Q2)		08/13-14/2018 (Q3)		12/10-11/2018 (Q4)	
		Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
Southwest Corner to the Eau Claire Municipal Well Field (Plume 1/2)									
EC-1	813.95	22.82	791.13	24.80	789.15	27.18	786.77	23.62	790.33
EC-2	814.44	NM	NM	25.55	788.89	NM	NM	NM	NM
EC-5	813.56	NM	NM	24.95	788.61	NM	NM	NM	NM
EC-6	813.19	NM	NM	24.64	788.55	NM	NM	NM	NM
EW-5	889.90	NM	NM	NM	NM	NM	NM	NM	NM
EW-6	894.89	68.18	826.71	85.10	809.79	88.10	806.79	91.50	803.39
MW-4A	897.25	67.89	829.36	68.61	828.64	68.72	828.53	68.30	828.95
MW-4B	896.65	67.88	828.77	68.62	828.03	68.72	827.93	68.26	828.39
MW-10A	894.60	64.75	829.85	65.33	829.27	65.36	829.24	64.93	829.67
MW-10B	894.91	65.18	829.73	65.81	829.10	65.95	828.96	65.52	829.39
MW-11A	897.20	68.97	828.23	69.51	827.69	69.75	827.45	69.28	827.92
MW-12A	896.95	67.99	828.96	68.57	828.38	68.72	828.23	68.18	828.77
MW-23A	895.99	NM	NM	70.35	825.64	NM	NM	NM	NM
MW-23B	895.95	NM	NM	70.03	825.92	NM	NM	NM	NM
MW-34A	895.36	67.73	827.63	68.45	826.91	68.63	826.73	68.18	827.18
MW-34B	895.28	67.57	827.71	68.37	826.91	68.54	826.74	68.12	827.16
MW-34C	895.25	67.58	827.67	68.25	827.00	68.44	826.81	67.98	827.27
MW-35A	888.28	NM	NM	64.07	824.21	NM	NM	NM	NM
MW-35B	888.02	NM	NM	63.78	824.24	NM	NM	NM	NM
MW-37A	885.55	NM	NM	60.48	825.07	NM	NM	NM	NM
MW-37B	885.27	NM	NM	60.21	825.06	NM	NM	NM	NM
MW-38A	884.89	59.25	825.64	59.35	825.54	NM	NM	NM	NM
MW-38B	884.82	59.10	825.72	59.72	825.10	NM	NM	NM	NM
MW-38C	884.83	59.10	825.73	59.71	825.12	NM	NM	NM	NM
MW-39A	896.17	69.83	826.34	70.53	825.64	70.70	825.47	70.23	825.94
MW-41A	884.04	NM	NM	60.10	823.94	NM	NM	NM	NM
MW-41B	883.84	NM	NM	59.90	823.94	NM	NM	NM	NM
MW-43A	885.34	NM	NM	61.62	823.72	NM	NM	NM	NM
MW-43B	885.35	NM	NM	61.65	823.70	NM	NM	NM	NM
MW-45A	886.20	NM	NM	67.81	818.39	NM	NM	NM	NM
MW-45B	886.26	NM	NM	67.86	818.40	NM	NM	NM	NM
MW-45C	886.05	NM	NM	67.62	818.43	NM	NM	NM	NM
MW-47A	888.39	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-47B	888.24	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-49A	883.04	NM	NM	81.95	801.09	NM	NM	NM	NM
MW-49B	883.02	NM	NM	81.95	801.07	NM	NM	NM	NM
MW-51A	884.02	NM	NM	68.14	815.88	NM	NM	NM	NM
MW-51B	883.99	NM	NM	68.10	815.89	NM	NM	NM	NM
MW-52A	884.13	NM	NM	71.13	813.00	NM	NM	NM	NM
MW-52B	884.12	NM	NM	71.07	813.05	NM	NM	NM	NM
MW-53A	887.93	NM	NM	81.10	806.83	NM	NM	NM	NM
MW-53B	888.25	NM	NM	81.20	807.05	NM	NM	NM	NM

TABLE 3

2018 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)	3/27-29/2018 (Q1)		6/18-21/2018 (Q2)		08/13-14/2018 (Q3)		12/10-11/2018 (Q4)	
		Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
MW-54A	882.42	NM	NM	81.07	801.35	NM	NM	NM	NM
MW-54B	882.43	NM	NM	81.12	801.31	NM	NM	NM	NM
MW-54C	882.54	NM	NM	81.04	801.50	NM	NM	NM	NM
MW-55A	881.75	NM	NM	83.42	798.33	NM	NM	NM	NM
MW-55B	882.08	NM	NM	83.90	798.18	NM	NM	NM	NM
MW-55C	881.91	NM	NM	83.60	798.31	NM	NM	NM	NM
MW-57A	886.31	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-57B	886.13	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-60A	879.19	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-60B	879.09	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-61A	879.37	NM	NM	85.62	793.75	NM	NM	NM	NM
MW-61B	879.58	NM	NM	85.78	793.80	NM	NM	NM	NM
MW-68A	896.47	70.05	826.42	70.81	825.66	70.93	825.54	70.44	826.03
MW-68B	896.77	70.40	826.37	71.12	825.65	71.22	825.55	70.78	825.99
MW-69A	898.02	71.72	826.30	72.43	825.59	72.60	825.42	72.13	825.89
MW-69B	898.23	71.93	826.30	72.56	825.67	72.82	825.41	72.33	825.90
MW-70A	895.68	68.55	827.13	69.23	826.45	69.45	826.23	68.98	826.70
MW-70B	895.67	68.42	827.25	69.10	826.57	69.30	826.37	68.88	826.79
MW-71A	894.70	66.82	827.88	67.52	827.18	67.68	827.02	67.27	827.43
MW-74A	896.08	69.45	826.63	70.23	825.85	70.32	825.76	69.83	826.25
MW-74B	895.88	69.20	826.68	69.97	825.91	70.07	825.81	69.57	826.31
MW-75	890.61	57.50	833.11	58.03	832.58	58.05	832.56	57.48	833.13
MW-76A	894.80	68.28	826.52	68.86	825.94	69.15	825.65	68.61	826.19
MW-76B	895.12	68.63	826.49	69.30	825.82	69.48	825.64	68.97	826.15
MW-77A	895.22	68.65	826.57	69.32	825.90	69.47	825.75	69.05	826.17
MW-77B	895.21	68.62	826.59	69.30	825.91	69.42	825.79	69.03	826.18
MW-77C	895.18	68.58	826.60	69.26	825.92	69.41	825.77	68.97	826.21
PW-2	894.46	67.38	827.08	68.02	826.44	68.23	826.23	ice	ice
RW-2A	897.18	70.80	826.38	71.50	825.68	NM	NM	NM	NM
RW-2B	896.78	70.33	826.45	71.10	825.68	NM	NM	NM	NM
RW-2C	897.57	71.18	826.39	61.92	835.65	NM	NM	NM	NM
RW-3A	881.78	NM	NM	86.72	795.06	NM	NM	86.50	795.28
RW-3B	881.48	NM	NM	86.38	795.10	NM	NM	86.16	795.32
RW-3C	881.30	NM	NM	86.21	795.09	NM	NM	85.97	795.33
RW-15	874.76	64.23	810.53	64.90	809.86	NM	NM	NM	NM
RW-16	888.87	NM	NM	66.95	821.92	NM	NM	NM	NM
RW-16B	889.66	NM	NM	67.75	821.91	NM	NM	NM	NM
RW-16C	890.01	NM	NM	68.05	821.96	NM	NM	NM	NM
WW-15	882.61	57.35	825.26	57.92	824.69	NM	NM	NM	NM
Melby Road Disposal Site Area to Lake Hallie (Plumes 3/4)									
EW-1R	900.08	75.33	824.75	73.93	826.15	74.00	826.08	73.50	826.58
EW-2	901.46	74.28	827.18	75.09	826.37	75.18	826.28	74.68	826.78
MW-1	910.26	42.28	867.98	42.98	867.28	42.37	867.89	41.42	868.84
MW-5A	902.60	75.18	827.42	76.00	826.60	76.08	826.52	75.42	827.18
MW-5B	902.39	75.01	827.38	75.82	826.57	75.90	826.49	75.58	826.81
MW-6	904.70	77.44	827.26	78.23	826.47	78.32	826.38	77.86	826.84
MW-7	897.73	67.08	830.65	67.61	830.12	67.92	829.81	67.36	830.37

TABLE 3

2018 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)	3/27-29/2018 (Q1)		6/18-21/2018 (Q2)		08/13-14/2018 (Q3)		12/10-11/2018 (Q4)	
		Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
MW-8	904.24	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-9A	905.30	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-9B	905.30	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-13A	896.72	68.15	828.57	68.88	827.84	69.02	827.70	68.48	828.24
MW-18	898.38	63.68	834.70	64.24	834.14	64.15	834.23	63.63	834.75
MW-22A	900.79	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-22B	900.75	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-26A	890.17	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-26B	890.03	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-27A	890.20	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-27B	890.15	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-29A	892.72	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-29B	892.49	NM	NM	(2)	(2)	(2)	(2)	(2)	(2)
MW-62AR	901.69	74.44	827.25	75.24	826.45	75.33	826.36	74.84	826.85
MW-62B	901.79	74.54	827.25	75.35	826.44	75.44	826.35	74.94	826.85
MW-62C	901.15	73.93	827.22	74.77	826.38	74.86	826.29	74.28	826.87
MW-63A	902.59	74.80	827.79	75.65	826.94	75.72	826.87	75.20	827.39
MW-63B	902.12	74.35	827.77	75.20	826.92	75.25	826.87	74.76	827.36
MW-65A	891.68	64.50	827.18	65.20	826.48	65.35	826.33	64.88	826.80
MW-65B	891.62	64.41	827.21	65.12	826.50	65.28	826.34	64.80	826.82
MW-65C	891.77	64.51	827.26	65.27	826.50	65.43	826.34	64.95	826.82
MW-66A	897.70	70.56	827.14	71.36	826.34	71.45	826.25	70.76	826.94
MW-66B	897.26	70.12	827.14	70.92	826.34	71.08	826.18	70.53	826.73
MW-66C	897.35	70.15	827.20	70.95	826.40	71.03	826.32	70.58	826.77

NOTE:

NM = Not measured.

FOOTNOTES:

(1) Wells that cannot be located are not shown including MW-46A/B/C, MW-50A/B, MW59A, RW-18, and RW-23.

(2) Abandoned.

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TABLE 4

NPI VOC ANALYTICAL RESULTS FROM SWC EXTRACTION WELLS EW-5 AND EW-6 (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	Sample Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
				1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
				None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
EW-5 (extraction well at Grid Coordinate K7) ⁽¹⁾													
	03/24/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/16/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J	
	09/22/15	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/07/15	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J	
	03/21/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.34	J	
	08/30/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J	
	12/06/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.75	J	
	12/06/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.34	J	
	03/21/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.47	J	
	06/13/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.39	J	
	06/13/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	08/28/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J	
	08/28/17	L	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.40	JA	
	12/13/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J	
	12/13/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.36	J	
EW-6 (extraction well at Grid Coordinate K7) ⁽²⁾													
	03/24/15	G	0.24	U	0.41	U	0.50	U	1.2		0.99	J	
	06/16/15	G	0.24	U	0.41	U	0.50	U	1.4		0.71	J	
	09/22/15	G	0.24	U	0.41	U	0.50	U	1.4		0.79	J	
	12/08/15	G	0.24	U	0.41	U	0.50	U	0.86	J	0.58	J	
	03/21/16	G	0.24	U	0.41	U	0.50	U	1.3		0.75	J	
	06/13/16	G	0.24	U	0.41	U	0.50	U	1.5		0.81	J	
	08/30/16	G	0.24	U	0.41	U	0.50	U	1.1		0.73	J	
	12/06/16	G	0.24	U	0.41	U	0.50	U	1.2		0.70	J	
	03/21/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/17	G	0.24	U	0.41	U	0.50	U	1.4		0.75	J	
	08/28/17	G	0.24	UA	0.41	UA	0.50	UA	1.3	A	0.82	JA	
	12/13/17	G	0.24	UA	0.41	UA	0.50	UA	1.3	A	0.705	JA	
	03/27/18	G	0.24	U	0.41	U	0.50	U	1.5		0.87	J	
	06/19/18	G	0.24	U	0.41	U	0.50	U	1.2		0.75	J	
	08/14/18	G	0.27	UA	0.24	UA	0.33	UA	1.0	JA	0.745	JA	
	12/10/18	G	0.27	U	0.24	U	0.33	U	0.93	J	0.89	J	

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TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
				1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
				None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
EC-1 (monitoring well at Grid Coordinate C7)													
	03/25/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9		
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J	
	09/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	Dup	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5		
	03/22/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6		
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2		
	12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5		
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6		
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.88	J	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2		
	12/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.6	A	
	03/29/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.28	JA	
	06/20/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.18	JA	
	08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	1.7		
	12/11/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U	
EC-2 (monitoring well at Grid Coordinate C7)													
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
EC-5 (monitoring well at Grid Coordinate C7 no longer scheduled for routine sampling)													
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
EC-6 (monitoring well at Grid Coordinate C7)													
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-4A (monitoring well at Grid Coordinate K7)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	UJ	0.33	U	
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/12/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA	
	08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
	Level	None/850/85	7/7/0.7		5/5/0.5		200/200/40		5/5/0.5			
MW-4B (piezometer at Grid Coordinate K7)												
	03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.79	J
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	J	0.75	J
	09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	J	1.1	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.83	J
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.39	JA
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.38	J
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.38	J
	03/27/18	M	0.33	J	0.41	U	0.50	U	0.50	U	0.42	J
	06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.34	J
	08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.34	J
	12/10/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	J
MW-23A (monitoring well at Grid Coordinate J7)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
	03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.04	JA
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.35	A
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.84	J
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.58	J
MW-23B (piezometer at Grid Coordinate J7)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	A
	03/22/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
			None/850/85	7/7/0.7	5/5/0.5	200/200/40	5/5/0.5					
MW-34A (monitoring well at Grid Coordinate K8)												
06/15/15	M		0.71	J	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M		0.53	J	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	HS		0.59	J	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M		0.5	J	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M		0.28	J	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/28/18	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/21/18	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/14/18	M		0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
12/10/18	M		0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-34B (piezometer at Grid Coordinate K8)												
12/07/15	HS		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	HS		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M		0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
12/05/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/20/18	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-34C (piezometer at Grid Coordinate K8)												
12/07/15	HS		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	HS		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/20/18	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-35A (monitoring well at Grid Coordinate I7)												
06/16/15	M		0.24	U	0.41	U	0.50	U	0.50	U	1.6	
06/14/16	M		0.24	U	0.41	U	0.50	U	0.50	U	1.0	
06/14/17	M		0.24	UA	0.41	UA	0.50	UA	0.65	JA	1.9	A
06/19/18	M		0.24	U	0.41	U	0.50	U	0.50	U	1.8	
MW-35B (piezometer at Grid Coordinate I7)												
06/16/15	M		0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/14/16	M		0.24	U	0.41	U	0.50	U	0.50	U	1	
06/14/17	M		0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/19/18	M		0.24	U	0.41	U	0.50	U	0.50	U	1.1	
MW-37B (piezometer at Grid Coordinate I7 no longer scheduled for routine sampling)												
06/17/15	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/14/17	M		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL			None/850/85	7/7/0.7	5/5/0.5	5/5/0.5	200/200/40	200/200/40	5/5/0.5			
MW-38A (monitoring well at Grid Coordinate I8)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	A
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
MW-38B (piezometer at Grid Coordinate I8)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.57	J	3.4	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.3	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.79	J	3.7	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.65	J	3.2	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.60	J	3.7	
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.54	J	3.0	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.51	J	2.9	
MW-38C (piezometer at Grid Coordinate I8)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
MW-41A (monitoring well at Grid Coordinate H8)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
MW-41B (piezometer at Grid Coordinate H8)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.4	A
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	2.4	
MW-43A (monitoring well at Grid Coordinate H7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.5	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.5	U	1.7	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.54	J	3.6	
MW-43B (piezometer at Grid Coordinate H7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.54	J	2.0	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.54	J	1.7	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
MW-44A (abandoned monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-44B (abandoned piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-45A (monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
	Level	None/850/85	7/7/0.7		5/5/0.5		200/200/40		5/5/0.5			
MW-45B (piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.78	J
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.4	
	06/19/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.5	A
MW-45C (piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.8	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	A
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.9	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.0	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.0	
MW-47A (abandoned monitoring well at at Grid Coordinate G7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.76	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.58	J
MW-47B (abandoned piezometer at Grid Coordinate G7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-49A (monitoring well at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.67	J
MW-49B (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-51A (monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
MW-51B (piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	4.5	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.51	J	4.5	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	4.2	A
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	4.0	
MW-52A (monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.51	J	3.0	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	4.4	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.2	
MW-52B (piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	3.35	A
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.51	J	5.0	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.5	
MW-53A (monitoring well at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
	Level	None/850/85	7/7/0.7		5/5/0.5		200/200/40		5/5/0.5			
MW-53B (piezometer at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.8	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.1	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.4	
MW-54A (monitoring well at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-54B (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.5	U	0.5	J	3.6	
	06/14/16	M	0.24	U	0.41	U	0.5	U	0.5	J	3.8	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.5	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
MW-54C (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	J	2.5	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.57	J	4.7	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	4.5	A
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.53	J	4.0	
MW-55B (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
MW-55C (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/20/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-57A (abandoned monitoring well at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
MW-57B (abandoned piezometer at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
MW-60A (abandoned monitoring well at Grid Coordinate D7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-60B (abandoned piezometer at Grid Coordinate D7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-61A (monitoring well at Grid Coordinate C6 no longer scheduled for routine sampling)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
MW-61B (piezometer at Grid Coordinate C6 no longer scheduled for routine sampling)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
	06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.435	JA

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-68A (monitoring well at Grid Coordinate J7)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
08/29/16	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
03/27/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.40	J
12/10/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.30	J
MW-68B (piezometer at Grid Coordinate J7)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.49	J
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
08/29/16	M	0.25	J	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/27/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.27	J
12/10/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-70A (monitoring well at Grid Coordinate K8)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
06/13/16	HS	0.40	J	0.41	U	0.50	U	0.50	U	0.74	J
08/29/16	M	0.45	J	0.41	U	0.50	U	0.50	U	0.55	J
12/05/16	M	0.25	JA	0.41	UA	0.50	UA	0.50	UA	0.51	JA
03/20/17	M	0.37	JA	0.41	UA	0.50	UA	0.50	UA	0.59	JA
06/12/17	M	0.73	J	0.41	J	0.50	U	0.50	U	0.68	J
08/28/17	M	0.38	JA	0.41	UA	0.50	UA	0.50	UA	0.65	JA
12/12/17	M	0.31	JA	0.41	UA	0.50	UA	0.50	UA	0.49	JA
03/28/18	M	0.27	J	0.41	U	0.50	U	0.50	U	0.54	J
06/21/18	M	0.44	J	0.41	U	0.50	U	0.50	U	0.51	J
08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.52	J
12/10/18	M	0.35	J	0.24	U	0.33	U	0.24	U	0.29	J
MW-70B (piezometer at Grid Coordinate K8)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-74A (monitoring well at Grid Coordinate J8)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-74B (piezometer at Grid Coordinate J8 no longer scheduled for routine sampling)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-76A (monitoring well at Grid Coordinate K7)											
03/24/15	M	0.61	J	0.41	U	1.3		137		8.1	
06/16/15	M	0.50	J	0.46	J	0.93	J	106		6.3	
09/23/15	M	0.24	U	0.41	U	0.50	U	2.5		0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	4.9		0.47	J
03/21/16	M	0.24	U	0.41	U	0.50	U	2.2		0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.61	J	0.38	J
08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/17	M	1.9		0.41	U	1.0		42.8		4.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	1.7		0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/27/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	JUA	0.33	UA
06/19/18	M	0.24	U	0.41	U	0.56	J	0.62	J	0.33	U
08/14/18	M	0.27	U	0.24	U	0.60	J	2.2		0.36	J
12/10/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-76B (piezometer at Grid Coordinate K7)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
			None/850/85	7/7/0.7	5/5/0.5	200/200/40	5/5/0.5					
MW-77A (monitoring well at Grid Coordinate K7)												
	03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.89	J
	09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.91	J
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.51	J
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/27/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/19/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.66	JA
	08/14/18	M	0.27	UA	0.24	UA	0.33	UA	0.27	JA	0.66	JA
	12/10/18	M	0.27	UA	0.24	UA	0.33	UA	0.25	JA	1.53	JA
MW-77B (piezometer at Grid Coordinate K7)												
	03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2	
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	03/27/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
	08/14/18	M	0.27	U	0.24	U	0.33	U	0.38	J	2.1	
	12/10/18	M	0.27	U	0.24	U	0.33	U	0.24	U	2.2	
MW-77C (piezometer at Grid Coordinate K7)												
	03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.54	J
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.59	J
	09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.74	J
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J
	06/16/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.60	J
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.96	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.76	J
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.59	J
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.68	J

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
PW-3R (abandoned monitoring well at Grid Coordinate K7)											
06/16/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
RW-2A (monitoring well at Grid Coordinate J7)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.71	J
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.74	J
06/13/16	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.95	JA
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.77	J
06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.10	JA
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.91	J
RW-2B (piezometer at Grid Coordinate J7)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.59	J	1.7	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.66	J	1.8	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.64	J	2.0	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
06/19/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.05	A
RW-2C (piezometer at Grid Coordinate J7)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.59	J	1.2	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.52	J	1.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
12/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.7	A
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
RW-3A (monitoring well at Grid Coordinate C6)											
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
12/11/18	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
RW-3B (piezometer at Grid Coordinate C6)											
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
12/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	3.1	A
06/19/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	3.45	A
12/11/18	M	0.27	UA	0.24	UA	0.33	UA	0.34	JA	3.40	A
RW-3C (piezometer at Grid Coordinate C6)											
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	4.0	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.8	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.52	J	4.3	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.4	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.1	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
12/11/18	M	0.27	UA	0.24	UA	0.33	UA	0.30	JA	3.5	A
RW-15 (monitoring well at Grid Coordinate J7)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.4	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.4	
12/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.60	JA	3.7	A
06/19/18	M	0.24	UA	0.41	UA	0.50	UA	0.60	JA	3.45	A
RW-16 (monitoring well at Grid Coordinate G7)											
06/17/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.7	A
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
RW-16B (piezometer at Grid Coordinate G7)											
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.90	J
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.2	
RW-16C (piezometer at Grid Coordinate G7)											
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.9	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	3.3	
WW-15 (monitoring well at Grid Coordinate I8)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.89	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	
06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.73	J

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2015-2018)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

Detected concentrations at or above an applicable MCL/NR 140 ES are in red font and bold.

A = Average of original sample and duplicate. Began this approach in 2014.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

HS = HydraSleeve.

LF = Low flow.

NR = Not recorded until 2009.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

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TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2015-2018)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
City Well 11 (CW-11 no longer scheduled for routine sampling)								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 15 (CW-15)								
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.21 J
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.11 J
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.15 J
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.30 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.15 J
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.19 J
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.19 J
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.18 J
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.33
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.28 J
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.078 J
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
City Well 16 (CW-16 no longer scheduled for routine sampling)								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.35 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2015-2018)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
City Well 17 (CW-17 no longer scheduled for routine sampling)								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 19 (CW-19)								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.18 J	(10)	1.6
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.29 J	(10)	2.0
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.39 J	(10)	2.4
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.44 J	(10)	1.7
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.44 J	(10)	1.8
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.22 J	(10)	1.9
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	2.0
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.27 J	(10)	2.1
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.55	(10)	2.4
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.55	(10)	1.8
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10	(10)	0.82
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.40
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.73
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.97
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.62
City Well 22 (CW-22 started production pumping on 04/25/17)								
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.27 J	(10)	2.3
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.26 J	(10)	2.2
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.25 J	(10)	2.4
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.32 J	(10)	2.7
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	2.0
12/11/18	(10)	0.16 U	(10)	0.41 J	(10)	0.59 J	(10)	2.7
City Well 23 (CW-23 started production pumping on 04/25/17)								
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.16 J
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.15 J
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
Commingled untreated raw water prior to air stripping ⁽¹⁾								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.62
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.60
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.97
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.30 J	(10)	0.55
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.7

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2015-2018)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.77
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.94
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.6
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	1.1
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	1.0
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	1.1
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.50
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	1.1
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.36 J
Tower A (North) - discharge from air stripper ⁽²⁾								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
Tower B (South) - discharge from air stripper ⁽³⁾								
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
Commingled treated water after chlorination (finished product) ⁽⁴⁾								
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2015-2018)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
03/29/18	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
08/14/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2015-2018)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

Samples collected jointly by Gannett Fleming (GF) field staff and a City of Eau Claire Water Department representative.

GF samples analyzed by U.S. Filter using EPA Method 524.2 (Safe Drinking Water Act required method), and city samples analyzed in-house using EPA Method 8260.

Detected concentrations at or above an NR 140 PAL are in red font and italicized.

There are no results at or above an MCL/NR 140 ES.

D = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

J = Estimated concentration below laboratory quantitation level.

MCL = Maximum contaminant level is the federal established health-based maximum permissible level of a contaminant in water that is delivered to any user of a public water supply system.

NIS = Not in service at time of split sampling with city.

NS = Not sampled.

U = Compound not detected at or above this value, which is the detection limit.

FOOTNOTES:

(1) Sample collected from spigot on inlet line to Air Stripper Towers A and B. Well water routed through the air stripper included CW-11/15/16/17/19 prior to 04/25/17 and CW-17/19/22/23 starting on 04/25/17.

(2) Sample collected from spigot on Tower A discharge line.

(3) Sample collected from spigot on Tower B discharge line.

(4) Distribution system sample collected from drinking fountain or breakroom sink in the water treatment plant (WTP) prior to 08/29/17. Starting on 08/29/17, sample collected from exit port in basement of WTP.

(5) Lab error, results not recorded.

(6) Sample not collected.

(7) Not sampled because sample port was rusted shut.

(8) Shut down for repairs during October 2011 sampling round.

(9) Shut down for repairs.

(10) The City of Eau Claire stopped collecting samples as of May 7, 2014.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 7

SUMMARY OF RESULTS FROM NPI WELLS ROUTINELY SAMPLED FOR DISSOLVED CADMIUM ANALYSIS (2015-2018)

Date	FN	EW-5	EW-6	MW-4A	MW-4B	MW-10A	MW-10B	MW-34A	MW-34B	MW-34C	MW-68A	MW-68B	MW-70A	MW-70B	MW-75
03/25/15	HS	NS	NS	NS	NS	22.3	5.3	NS	NS	NS	NS	<i>3.2 J</i>	NS	<i>3.4 J</i>	NS
06/17/15	HS	0.60 U	0.60 U	0.60 U	<i>0.70 J</i>	21.4	8.2	<i>12.7</i>	<i>1.2 J</i>	<i>1.2 J</i>	<i>0.81 J</i>	<i>2.9 J</i>	<i>0.73 J</i>	<i>3.6 J</i>	10
09/22/15	HS	NS	NS	NS	NS	20.2	8.0	NS	NS	NS	NS	<i>4.3 J</i>	NS	<i>3.6 J</i>	5.9
12/07/15	HS	0.60 U	0.60 U	NS	NS	20.8	6.4	10.8	<i>1.5 J</i>	NS	0.60 U	<i>4.0 J</i>	0.60 U	<i>3.9 J</i>	<i>2.4 J</i>
03/21/16	HS	NS	NS	NS	NS	19.1	<i>3.8 J</i>	NS	NS	NS	NS	<i>2.4 J</i>	NS	<i>3.5 J</i>	<i>2.4 J</i>
06/13/16	HS	0.60 U	0.60 U	0.60 U	<i>0.65 J</i>	16.7	<i>2.7 J</i>	6.5	<i>1.4 J</i>	<i>0.87 J</i>	0.60 U	<i>4.5 J</i>	0.60 U	<i>3.2 J</i>	<i>2.3 J</i>
08/30/16	HS	NS	NS	NS	NS	18.8	<i>3.6 J</i>	NS	NS	NS	NS	<i>4.0 J</i>	NS	<i>4.1 J</i>	<i>2.2 J</i>
10/06/16	(2)	NS	NS	NS	NS	19.4	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/05/16	(3)	1.3 U	1.3 U	NS	NS	18.8	1.3 U	6.5	<i>1.5 J</i>	NS	NS	<i>4.0 J</i>	NS	<i>4.1 J</i>	<i>2.4 J</i>
03/20/17	HS	NS	NS	NS	NS	18.5	<i>1.4 J</i>	NS	NS	NS	NS	<i>3.9 J</i>	NS	<i>4.0 J</i>	<i>1.9 J</i>
06/13/17	(3)	1.3 U	1.3 U	1.3 U	1.3 U	17.4	<i>3.6 J</i>	<i>4.4 J</i>	<i>1.4 J</i>	1.3 U	1.3 U	<i>3.9 J</i>	1.3 U	<i>4.5 J</i>	<i>2.0 J</i>
08/28/17	HS	NS	NS	NS	NS	20.1	1.3 U	NS	NS	NS	NS	<i>4.0 J</i>	NS	<i>4.0 J</i>	<i>2.1 J</i>
12/12/17	(3)	1.3 U	1.3 U	NS	NS	18.8	1.3 U	1.3 U	<i>1.4 J</i>	NS	NS	<i>2.5 J</i>	NS	<i>2.4 J</i>	1.3 U
3/28/18	HS	NS	NS	NS	NS	18.9	NS	NS	NS	NS	NS	NS	NS	NS	NS
6/21/18	HS	NS	NS	NS	NS	18.4	NS	7.8	NS	NS	NS	NS	NS	NS	NS
8/14/18	HS	NS	NS	1.3 U	1.3 U	17.9	1.3 U	6.0	<i>1.8 J</i>	1.3 U	1.3 U	<i>3.2 J</i>	1.3 U	<i>3.4 J</i>	<i>2.4 J</i>
12/10/18	HS	NS	NS	NS	NS	16.1	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 7

SUMMARY OF RESULTS FROM NPI WELLS ROUTINELY SAMPLED FOR DISSOLVED CADMIUM ANALYSIS (2015-2018)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

The PAL for cadmium is $0.5 \mu\text{g}/\ell$: detected concentrations at or above the PAL are in red font and italicized.

The MCL/ES for cadmium is $5.0 \mu\text{g}/\ell$: detected concentrations at or above the MCL/ES are in red font and bold.

abnd = Abandoned well no longer available for monitoring.

B = Compound detected in blank.

FN = Footnote (see below) and used to indicate dates when samples were collected using HydraSleeves.

HS = HydraSleeve.

J = Estimated concentration below laboratory quantitation level.

NA = Not analyzed.

NS = Not sampled.

U = Compound not detected at or above the detection limit, which is the value shown.

FOOTNOTES:

(1) Wells MW-10A&B, MW-34B, and MW-70B were sampled using USEPA Jan. 2010 low-stress (low-flow) protocol. Wells MW-34A and MW-70A were sampled using bailers.

(2) Unfiltered ($19.3 \mu\text{g}/\ell$) and filtered ($19.4 \mu\text{g}/\ell$) samples were collected from MW-10A using USEPA Jan. 2010 low-stress (low-flow) protocol.

(3) Sampled well using a HydraSleeve (HS), except EW-6 was a grab sample from pumped groundwater. EW-5 HS samples collected from the upper and lower sections of the saturated screened interval and both were non-detect for cadmium, as shown.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	Sample Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
				1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
				None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-5A (monitoring well at Grid Coordinate L6)													
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-5B (piezometer at Grid Coordinate L6 no longer scheduled for routine sampling)													
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-6 (monitoring well at Grid Coordinate L6 no longer scheduled for routine sampling)													
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-9A (abandoned monitoring well at Grid Coordinate L6)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-22B (abandoned piezometer at Grid Coordinate K6)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-26A (abandoned monitoring well at Grid Coordinate L5)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-26B (abandoned piezometer at Grid Coordinate L5)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.39	J	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.36	J	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J	
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.60	J	
MW-29A (abandoned monitoring well at Grid Coordinate L3)													
	04/27/17	LF	0.17	U	0.28	U	0.25	U	0.17	U	0.052	U	
MW-29B (abandoned piezometer at Grid Coordinate L3)													
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	04/27/17	LF	0.17	U	0.28	U	0.25	U	0.17	U	0.052	U	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL			None/850/85	7/7/0.7	5/5/0.5	5/5/0.5	200/200/40	200/200/40	5/5/0.5	5/5/0.5		
MW-62AR (monitoring well at Grid Coordinate L6)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/18/18	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
MW-62B (piezometer at Grid Coordinate L6)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-62C (piezometer at Grid Coordinate L6 no longer scheduled for routine sampling)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-63A (monitoring well at Grid Coordinate M6)												
	06/18/15	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
	06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-63B (piezometer at Grid Coordinate M6 no longer scheduled for routine sampling)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U,A
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65A (monitoring well at Grid Coordinate L6 no longer scheduled for routine sampling)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65B (piezometer at Grid Coordinate L6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.52	J
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.53	J
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65C (piezometer at Grid Coordinate L6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.56	J
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.68	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.63	J
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.73	J
	06/19/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2015-2018)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
			None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-66A (monitoring well at Grid Coordinate L6 no longer scheduled for routine sampling)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-66B (piezometer at Grid Coordinate L6)												
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/18/18	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-66C (piezometer at Grid Coordinate L6 no longer scheduled for routine sampling)												
	06/18/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2015-2018)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

Detected concentrations at or above an applicable MCL/NR 140 ES are in red font and bold.

A = Average of original sample and duplicate.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

HS = HydraSleeve.

LF = Low flow.

NR = Not recorded until 2009.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 9

NPI VOC ANALYTICAL RESULTS FROM MRDS EXTRACTION WELLS (2015-2018)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
EW-1/1R (extraction well at Grid Coordinate L6) ^(1,2)											
03/23/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
12/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
EW-2 (extraction well at Grid Coordinate L6) ⁽¹⁾											
03/23/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
09/22/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 9

NPI VOC ANALYTICAL RESULTS FROM MRDS EXTRACTION WELLS (2015-2018)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

There are no concentrations at or above an applicable MCL/NR 140 ES.

A = Average of original sample and duplicate. Began this approach in 2014.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

G = Grab sample collected from sample tap while the extraction well was pumping groundwater.

HS = HydraSleeve.

LF = Low flow.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

FOOTNOTES:

(1) EW-1R and EW-2 have been shut down since October 2010, and NPI stopped sampling both wells in 2018, as approved by both agencies.

(2) EW-1R replaced EW-1 in September 1995.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 10

ANNUAL PUMPAGE FROM NPI GROUNDWATER EXTRACTION WELLS (MG)

Year	MRDS Operations			Southwest Corner Operations					Combined Discharge to Storm Sewer
	EW-1/1R	EW-2	CAS-1	EW-3	EW-4	EW-5	EW-6	CAS-2/2R	
1994 ⁽¹⁾	42.89	34.34	77.23	30.6	56.91	NI	NI	87.51	164.74
1995	37.41	35.98	73.39	29.8	75.8	NI	NI	105.60	178.99
1996	59.75	48.95	108.7	24.63	87.08	NI	NI	111.71	220.41
1997	59.72	47.96	107.68	22.49	85.17	NI	NI	107.66	215.34
1998 ⁽²⁾	46.45	38.59	85.04	21.22	76.23	NI	NI	97.45	182.49
1999 ⁽³⁾	56.00	46.67	102.67	20.39	71.33	NI	NI	91.72	194.39
2000	55.15	51.11	106.26	21.62	70.67	NI	NI	92.29	198.55
2001	54.24	50.18	104.42	26.26	68.97	NI	NI	95.23	199.65
2002	53.73	50.55	104.28	33.04	69.70	NI	NI	102.74	207.02
2003	53.61	49.36	102.97	21.54	83.60	NI	NI	105.14	208.11
2004	48.38	47.59	95.97	NO	74.23	86.70	NI	160.93	256.90
2005 ⁽⁴⁾	46.24	43.67	89.91	NO	57.82	81.48	NI	139.30	229.21
2006	46.34	43.46	89.8	NO	52.36	74.83	NI	127.19	216.99
2007	42.62	38.99	81.61	NO	43.73	64.46	NI	108.19	189.80
2008	44.19	40.46	84.65	NO	44.06	65.75	NI	109.81	194.46
2009 ⁽⁵⁾	43.30	25.73	69.03	NO	43.41	73.45	NI	116.86	185.89
2010 ⁽⁶⁾	32.88	19.5	52.38	NO	36.12	74.63	NI	110.75	163.13
2011 ^(7,8)	NO	NO	NO	abnd	abnd	88.80	26.77	115.57	115.57
2012 ⁽⁸⁾	NO	NO	NO	abnd	abnd	88.92	103.44	192.36	192.36
2013	NO	NO	NO	abnd	abnd	89.40	99.64	189.04	189.04
2014	NO	NO	NO	abnd	abnd	87.25	97.24	184.49	184.49
2015	NO	NO	NO	abnd	abnd	59.82	89.09	148.91	148.91
2016	NO	NO	NO	abnd	abnd	NO	96.44	96.44	96.44
2017	NO	NO	NO	abnd	abnd	NO	70.40	70.40	70.40
2018	NO	NO	NO	abnd	abnd	NO	87.72	87.72	87.72
TOTALS	822.90	713.09	1,535.99	251.59	1,097.19	935.49	670.74	2,955.01	4,491.00

NOTES:

Units are in millions of gallons (MG).

CAS-1 and CAS-2/2R were/are cascade aerators serving the extraction wells shown and discharge to the storm sewer via manhole MH-18.

EW-3 was turned off in August 2003 when its pump failed. The well was abandoned on June 24, 2010.

EW-4 was turned off and abandoned in October 2010.

EW-5 began full-time operation on January 8, 2014, and stopped operating on September 12, 2015.

EW-6 began operating in late October 2011.

abnd = Abandoned and not operating.

NI = Not installed and operating.

NO = Not operated in year shown.

FOOTNOTES:

(1) No pumpage in Jan. and Feb.; full-scale pumping did not begin until March.

(2) Pumpage affected in June and July; pumps were off all or part of these months due to construction at Melby Road and removal of Drywell #2.

(3) Pumpage affected in June for EW-3 and EW-4; pump and meter replaced at EW-3, new flow meter turbine at EW-4.

(4) Pumpage affected in May; pumps were turned off on the 16th and back on the 17th to shock O/W separator and address algae growth.

(5) Pumpage affected in August, November, and December for EW-2 due to pump problems.

(6) Pumpage for EW-2 was affected Jan.-Feb. due to pump problems. EW-4 affected in March-June due to low groundwater elevations. EW-5 affected Oct. 18-Nov. 9 while CAS-2 was replaced and power re-routed. All wells off Sept. 22-27 for O/W separator maintenance.

(7) EW-6 was shut down all or part of October 14-16 and 22-23 for pump tests.

(8) During their 18-month trial shutdown, EW-1R and EW-2 only operated about 15 minutes each per quarter to purge them prior to sampling.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 11

TCA CONCENTRATIONS IN NPI PUMPED GROUNDWATER (2015-2018)

Date	FN	MRDS Extraction Wells		CAS-1		Southwest Corner Extraction Wells					CAS-2/2R		Manhole MH-18	
		EW-1/1R	EW-2	Effluent	Percent Removal	EW-3	EW-4	EW-5	EW-6	RQ	Effluent	Percent Removal	Effluent	RQ
03/23/15		NO	NO	NO	na	abnd	abnd	0.50 U	1.2		NS	--	0.68	J
06/15/15		NO	NO	NO	na	abnd	abnd	0.50 U	1.4		NS	--	0.60	J
09/22/15		NO	NO	NO	na	abnd	abnd	NO	1.4		NS	36	0.89	J
12/07/15		NO	NO	NO	na	abnd	abnd	NO	0.86	J	NS	--	0.90	J
03/21/16		NO	NO	NO	na	abnd	abnd	NO	1.3		NS	36	0.83	J
06/13/16		NO	NO	NO	na	abnd	abnd	NO	1.5		NS	33	1.0	
08/30/16		NO	NO	NO	na	abnd	abnd	NO	1.1		NS	37	0.69	J
12/06/16		NO	NO	NO	na	abnd	abnd	NO	1.2		NS	42	0.70	J
06/13/17		NO	NO	NO	na	abnd	abnd	NO	1.4		NS	41	0.83	J
08/28/17		NO	NO	NO	na	abnd	abnd	NO	1.3	A	NS	32	0.88	J
Dec-17		NO	NO	NO	na	abnd	abnd	NO	1.3	A	NS	51	0.61	J
03/27/18		NO	NO	NO	na	abnd	abnd	NO	1.5		NS	37	0.94	J
06/19/18		NO	NO	NO	na	abnd	abnd	NO	1.2		NS	58	0.50	U
08/14/18		NO	NO	NO	na	abnd	abnd	NO	1.0	JA	NS	31	0.71	J
12/10/18		NO	NO	NO	na	abnd	abnd	NO	0.93	J	NS	52	0.45	J

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

A = Average of original sample and duplicate.

abnd = Abandoned and not operating.

FN = Footnotes (see below, if any).

J = Estimated concentration below laboratory quantitation level.

N = No removal needed as influent concentrations were below the detection limit.

na = Not applicable.

NI = Not installed and operating.

NO = Not operating.

NS = Not sampled.

RQ = Results qualifier.

U = Compound not detected at or above this value, which is the detection limit.

-- = Percent removal not estimated due to ND input, U value(s), NS, no removal, etc.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 12

TCE CONCENTRATIONS IN NPI PUMPED GROUNDWATER (2015-2018)

Date	FN	MRDS		CAS-1		Southwest Corner					CAS-2/2R		Manhole	
		Extraction Wells		Effluent	Percent Removal	Extraction Wells					Effluent	Percent Removal	MH-18	RQ
		EW-1/1R	EW-2			EW-3	EW-4	EW-5	EW-6	RQ				
03/23/15		NO	NO	NO	na	abnd	abnd	0.33 U	0.99	J	NS	29	0.47	J
06/15/15		NO	NO	NO	na	abnd	abnd	0.41 J	0.71	J	NS	--	0.70	J
09/22/15		NO	NO	NO	na	abnd	abnd	NO	0.79	J	NS	30	0.55	J
12/07/15		NO	NO	NO	na	abnd	abnd	NO	0.58	J	NS	--	0.61	J
03/21/16		NO	NO	NO	na	abnd	abnd	NO	0.75	J	NS	36	0.48	J
06/13/16		NO	NO	NO	na	abnd	abnd	NO	0.81	J	NS	20	0.65	J
08/30/16		NO	NO	NO	na	abnd	abnd	NO	0.73	J	NS	30	0.51	J
12/06/16		NO	NO	NO	na	abnd	abnd	NO	0.70	J	NS	23	0.54	J
06/13/17		NO	NO	NO	na	abnd	abnd	NO	0.75	J	NS	48	0.39	J
08/28/17		NO	NO	NO	na	abnd	abnd	NO	0.82	JA	NS	34	0.54	J
Dec-17		NO	NO	NO	na	abnd	abnd	NO	0.71	JA	NS	28	0.51	J
03/27/18		NO	NO	NO	na	abnd	abnd	NO	0.87	J	NS	22	0.68	J
06/19/18		NO	NO	NO	na	abnd	abnd	NO	0.75	J	NS	39	0.46	J
08/14/18		NO	NO	NO	na	abnd	abnd	NO	0.75	JA	NS	23	0.57	J
12/10/18		NO	NO	NO	na	abnd	abnd	NO	0.89	J	NS	54	0.41	J

NOTES:

- Concentrations are in micrograms per liter (µg/ℓ)/parts per billion (ppb).
- A = Average of original sample and duplicate.
- abnd = Abandoned and not operating.
- FN = Footnotes (see below, if any).
- J = Estimated concentration below laboratory quantitation level.
- N = No removal needed as influent concentrations were below the detection limit.
- na = Not applicable.
- NI = Not installed and operating.
- NO = Not operating.
- NS = Not sampled.
- RQ = Results qualifier.
- U = Compound not detected at or above this value, which is the detection limit.
- = Percent removal not estimated due to ND input, U value(s), NS, no removal, etc.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2015-2018)

Method (units) Analyte/Parameter	Date				Date				Date ⁽¹⁾			Date			
	3/24/15	6/16/15	9/23/15	12/8/15	3/21/16	6/13/16	8/30/16	12/6/16	6/13/17	8/29/17	12/12/17	3/27/18	6/19/18	8/14/18 ⁽³⁾	12/10/18
EPA 150.1 (standard units)															
Field pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5	7.2	7.3	7.1	7.4
EPA 6010 (mg/L)															
Hardness as CaCO3	NA	NA	NA	46.2	NA	NA	NA	51.2	NA	NA	51.9	NA	NA	52.5	NA
EPA 6010/6020 (µg/L)															
Total Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.28	NA
Total Cadmium	NA	NA	NA	<1.0	NA	NA	NA	<1.3	NA	NA	<1.3 ⁽²⁾	NA	NA	0.13 J	NA
Total Chromium	NA	NA	NA	2.2 J	NA	NA	NA	NA	NA	NA	<2.5	NA	NA	2.6 J	NA
Total Copper	NA	NA	NA	<3.4	NA	NA	NA	NA	NA	NA	8.0 J	NA	NA	2.5 J	NA
Total Lead	NA	NA	NA	<1.6	NA	NA	NA	NA	NA	NA	6.8 J	NA	NA	<0.20	NA
Total Nickel	NA	NA	NA	2.0 J	NA	NA	NA	3.3 J	NA	NA	4.7 J	NA	NA	4.0	NA
Total Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	NA
Total Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	NA
Total Zinc	NA	NA	NA	8.7 J	NA	NA	NA	<9.3	NA	NA	55.5	NA	NA	12 J	NA
Trivalent Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 7196A (mg/L)															
Hexavalent Chromium	NA	NA	NA	<0.0039	NA	NA	NA	NA	NA	NA	<0.0051	NA	NA	<5.1	NA
NPI volatile organic compounds (VOCs) by EPA 8021/8260 (µg/L)															
1,1,1-Trichloroethane	0.68 J	0.60 J	0.89 J	0.90 J	0.83 J	1.0	0.69 J	0.70 J	0.83 J	0.88 J	0.61 J	0.94 J	<0.50	0.71 J	0.45 J
1,1-Dichloroethane	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.27
1,1-Dichloroethylene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.24
Tetrachloroethylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.33
Trichloroethylene	0.47 J	0.70 J	0.55 J	0.61 J	0.48 J	0.65	0.51 J	0.54 J	0.39 J	0.54 J	0.51 J	0.68 J	0.46 J	0.57 J	0.41 J

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2015-2018)

Method (units) Analyte/Parameter	Date				Date				Date ⁽¹⁾			Date			
	3/24/15	6/16/15	9/23/15	12/8/15	3/21/16	6/13/16	8/30/16	12/6/16	6/13/17	8/29/17	12/12/17	3/27/18	6/19/18	8/14/18 ⁽³⁾	12/10/18
Polycyclic aromatic hydrocarbons by EPA 8270/8310 (µg/L)															
Acenaphthene	NA	NA	NA	<1.3	NA	NA	NA	0.040	NA	NA	0.050	NA	NA	<0.92	NA
Acenaphthylene	NA	NA	NA	<1.0	NA	NA	NA	<0.0050	NA	NA	0.0047J	NA	NA	<0.96	NA
Anthracene	NA	NA	NA	<1.7	NA	NA	NA	<0.010	NA	NA	0.013J	NA	NA	<0.0036	NA
Benzo(a)Anthracene	NA	NA	NA	<0.51	NA	NA	NA	<0.0076	NA	NA	<0.0068	NA	NA	<0.0046	NA
Benzo(a)Pyrene	NA	NA	NA	<1.8	NA	NA	NA	<0.0011	NA	NA	<0.0095	NA	NA	<0.0040	NA
Benzo(b)Fluoranthene	NA	NA	NA	<0.62	NA	NA	NA	<0.0057	NA	NA	<0.0052	NA	NA	<0.0048	NA
Benzo(ghi)Perylene	NA	NA	NA	<0.77	NA	NA	NA	<0.0068	NA	NA	<0.0061	NA	NA	<0.0032	NA
Benzo(k)Fluoranthene	NA	NA	NA	<0.95	NA	NA	NA	<0.0076	NA	NA	<0.0068	NA	NA	<0.0051	NA
Chrysene	NA	NA	NA	<1.7	NA	NA	NA	<0.013	NA	NA	<0.012	NA	NA	<0.0038	NA
Dibenz(a,h)Anthracene	NA	NA	NA	<1.3	NA	NA	NA	<0.010	NA	NA	<0.0090	NA	NA	<0.0050	NA
Fluoranthene	NA	NA	NA	<0.54	NA	NA	NA	<0.011	NA	NA	<0.0096	NA	NA	<0.0085	NA
Fluorene	NA	NA	NA	<0.71	NA	NA	NA	0.018 J	NA	NA	0.022J	NA	NA	0.027 J	NA
Indeno(1,2,3-cd)Pyrene	NA	NA	NA	<1.4	NA	NA	NA	<0.018	NA	NA	<0.016	NA	NA	<0.0032	NA
1-Methyl Naphthalene	NA	NA	NA	<1.6	NA	NA	NA	0.012 J	NA	NA	0.096	NA	NA	NA	NA
2-Methyl Naphthalene	NA	NA	NA	<1.4	NA	NA	NA	0.0074 J	NA	NA	0.027	NA	NA	NA	NA
Naphthalene	NA	NA	NA	<1.8	NA	NA	NA	<0.018	NA	NA	0.072J	NA	NA	<0.68	NA
Phenanthrene	NA	NA	NA	<1.7	NA	NA	NA	<0.014	NA	NA	0.023J	NA	NA	0.0078 J	NA
Pyrene	NA	NA	NA	<1.3	NA	NA	NA	<0.0076	NA	NA	<0.0069	NA	NA	<0.0069	NA
EPA 8270 (µg/L)															
Pentachlorophenol	NA	NA	NA	<1.4	NA	NA	NA	NA	NA	NA	<1.4	NA	NA	<0.72	NA

NOTES:

Concentrations are in micrograms per liter (µg/ℓ)/parts per billion (ppb).

A quarterly sample for NPI VOC analysis is routinely collected from MH-18 for discharge monitoring. In addition, MH-18 is sampled once a year for an expanded analyte list, per agreement with the WDNR. In odd years the list includes hardness (as CaCO₃); cadmium, chromium, chromium+6, copper, lead, nickel, and zinc as total metals; PAHs; and pentachlorophenol. In even years, the list includes hardness (as CaCO₃); cadmium, nickel, and zinc as total metals; and PAHs.

J = Estimated concentration below laboratory quantitation level.

NA = Not analyzed.

FOOTNOTES:

(1) All NPI groundwater extraction wells were shut down in the first quarter of 2017. Consequently, no quarterly sample was collected from MH-18.

(2) The sample(s) submitted for metals analysis was/were inadvertently field filtered, and thus the results represent dissolved concentrations. The data are within the historical range.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 14

GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2019

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change (in red text) as it applies to Sampling Frequency (SF) for NPI VOCs/Cd or if Well Abandonment is Proposed (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium ⁽¹⁾	NPI VOCs	Cadmium ⁽¹⁾	
PLUME 1/2						
CW-15	B8	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
CW-19	B7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
CW-22	C7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
CW-23	B7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
Raw	Air stripper bldg	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
Tower A	Air stripper bldg	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
Tower B	Air stripper bldg	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
Finished Product	Water plant	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
EC-1	C7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
EC-2	C7	Annual	None	Annual	None	
EC-5	C7	None	None	None	None	
EC-6	C7	Annual	None	Annual	None	
EW-5	K7	None	None	None	None	
EW-6	K7	Quarterly	None	Quarterly	None	
CAS-2R	K7	None	None	None	None	Use results from MH-18; we believe water quality is essentially the same ⁽²⁾
MH-18	K7	Quarterly	Annual	Quarterly	Annual	Plus priority pollutants in 2018, 2023, etc. until pumping discharges cease ⁽³⁾
MW-4A	K7	Annual	None	Annual	None	
MW-4B	K7	Quarterly	Annual	Semi-annual	None	Chg SF for NPI VOCs analysis from Q to SA and Cd analysis from A to None
MW-10A	K8	None	Quarterly	None	Quarterly	
MW-10B	K8	None	Annual	None	Annual	
MW-11A	K7	None	None	None	None	
MW-12A	L7	None	None	None	None	
MW-23A	J7	Annual	None	Annual	None	
MW-23B	J7	Annual	None	Annual	None	

TABLE 14

GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2019

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change (in red text) as it applies to Sampling Frequency (SF) for NPI VOCs/Cd or if Well Abandonment is Proposed (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium ⁽¹⁾	NPI VOCs	Cadmium ⁽¹⁾	
MW-34A	K8	Quarterly	Semi-annual	Semi-annual	Semi-annual	Chg sampling frequency for NPI VOC analysis from Q to SA
MW-34B	K8	Annual	Annual	Annual	Annual	
MW-34C	K8	Annual	Annual	Annual	None	Chg sampling frequency for Cd analysis from A to None
MW-35A	I7	Annual	None	Annual	None	
MW-35B	I7	Annual	None	Annual	None	
MW-37A	I7	None	None	None	None	
MW-37B	I7	None	None	None	None	
MW-38A	I8	Annual	None	Annual	None	
MW-38B	I8	Annual	None	Annual	None	
MW-38C	I8	Annual	None	Annual	None	
MW-39A	J8	None	None	None	None	Abandon well; TCE=0.8 & 0.2 ppb in 10/88 & 2/94 and ND since 3/94
MW-41A	H8	Annual	None	Annual	None	
MW-41B	H8	Annual	None	Annual	None	
MW-43A	H7	Annual	None	Annual	None	
MW-43B	H7	Annual	None	Annual	None	
MW-45A	F6	Biennial	None	Biennial	None	
MW-45B	F6	Annual	None	Annual	None	
MW-45C	F6	Annual	None	Annual	None	
MW-46A	G7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-46B	G7	Lost	None	Lost	None	If found sample once for NPI VOCs and evaluate
MW-46C	G7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-49A	D6	Biennial	None	Biennial	None	
MW-49B	D6	Biennial	None	Biennial	None	
MW-50A	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-50B	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-51A	F6	Biennial	None	Biennial	None	
MW-51B	F6	Annual	None	Annual	None	

TABLE 14

GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2019

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change (in red text) as it applies to Sampling Frequency (SF) for NPI VOCs/Cd or if Well Abandonment is Proposed (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium ⁽¹⁾	NPI VOCs	Cadmium ⁽¹⁾	
MW-52A	F6	Annual	None	Annual	None	
MW-52B	F6	Annual	None	Annual	None	
MW-53A	E6	Biennial	None	Biennial	None	
MW-53B	E6	Annual	None	Annual	None	
MW-54A	D6	Biennial	None	Biennial	None	
MW-54B	D6	Annual	None	Annual	None	
MW-54C	D6	Annual	None	Annual	None	
MW-55A	D6	None	None	None	None	
MW-55B	D6	Annual	None	Annual	None	
MW-55C	D6	Annual	None	Annual	None	
MW-59A	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-59B	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-61A	C6	None	None	None	None	
MW-61B	C6	None	None	None	None	
MW-68A	J7	Quarterly	Annual	Semi-annual	None	Chg SF for NPI VOCs analysis from Q to SA and Cd analysis from A to None
MW-68B	J7	Quarterly	Annual	Semi-annual	Annual	Chg sampling frequency for NPI VOC analysis from Q to SA
MW-69A	J8	None	None	None	None	
MW-69B	J8	None	None	None	None	Abandon piezometer; TCE<0.5 ppb always since 7/92 and ND since 1/01
MW-70A	K8	Quarterly	Annual	Quarterly	None	Chg sampling frequency for Cd analysis from A to None
MW-70B	K8	Annual	Annual	Annual	Annual	
MW-71A	K8	None	None	None	None	Abandon well; TCE<0.3 ppb always since 7/92 and ND since 5/97
MW-74A	J8	Annual	None	Annual	None	
MW-74B	J8	None	None	None	None	
MW-75	K8	None	Annual	None	Annual	
MW-76A	K7	Quarterly	None	Quarterly	None	
MW-76B	K7	Annual	None	Annual	None	
MW-77A	K7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA

TABLE 14

GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2019

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change (in red text) as it applies to Sampling Frequency (SF) for NPI VOCs/Cd or if Well Abandonment is Proposed (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium ⁽¹⁾	NPI VOCs	Cadmium ⁽¹⁾	
MW-77B	K7	Quarterly	None	Semi-annual	None	Chg sampling frequency for NPI VOC analysis from Q to SA
MW-77C	K7	Annual	None	Annual	None	
PW-2	K7	None	None	None	None	
RW-2A	J7	Annual	None	Annual	None	
RW-2B	J7	Annual	None	Annual	None	
RW-2C	J7	Annual	None	Annual	None	
RW-3A	C6	Semi-annual	None	Semi-annual	None	
RW-3B	C6	Semi-annual	None	Semi-annual	None	
RW-3C	C6	Semi-annual	None	Semi-annual	None	
RW-15	J7	Annual	None	Annual	None	
RW-16	G7	Annual	None	Annual	None	
RW-16B	G7	Annual	None	Annual	None	
RW-16C	G7	Annual	None	Annual	None	
RW-18	H8	None	None	None	None	If found, sample once for NPI VOCs and evaluate
RW-23	H7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
WW-15	I8	Annual	None	Annual	None	
PLUME 3/4						
EW-1R ⁽⁴⁾	L6	None	None	None	None	
EW-2 ⁽⁴⁾	L6	None	None	None	None	
CAS-1	L6	None	None	None	None	Quarterly sampling for NPI VOC analysis if EW-1R and/or EW-2 resume pumping
MW-1	M8	None	None	None	None	
MW-5A	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOCs if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-5B	L6	None	None	None	None	Abandon piezometer; TCE=2 and 0.15J ppb in 7/90 & 10/99 & ND since 2/00
MW-6	L6	None	None	None	None	
MW-7 ⁽⁶⁾	M6	None	None	None	None	
MW-13A	L7	None	None	None	None	
MW-18	M7	None	None	None	None	

TABLE 14

GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2019

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change (in red text) as it applies to Sampling Frequency (SF) for NPI VOCs/Cd or if Well Abandonment is Proposed (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium ⁽¹⁾	NPI VOCs	Cadmium ⁽¹⁾	
MW-62AR	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-62B	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-62C	L6	None	None	None	None	Abandon piezometer; TCE<1 ppb always since 7/92 and ND since 3/94
MW-63A	M6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-63B	M6	None	None	None	None	Abandon piezometer; TCE=0.08 ppb on 2/8/94 and ND since 3/28/94
MW-65A	L6	None	None	None	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-65B	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-65C	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-66A	L6	None	None	None	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-66B	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping ^(4,5)
MW-66C	L6	None	None	None	None	Abandon piezometer; TCE=0.377 ppb on 4/20/98; ND since 10/26/98

NOTES:

Biennial = Sample collection and analysis in odd years only.

Lost = Well/piezometer has been lost. If the well/piezometer is found, then it will be sampled once for NPI VOC analysis, and the results will be evaluated to determine if additional sampling is necessary.

NPI VOCs = 1, 1-DCA; 1, 1-DCE; PCE; 1, 1, 1-TCA; and TCE.

Semi-annual = Semi-annual samples collected in second/fourth quarters (Q2/Q4); annual & biennial samples collected in Q2, except annual samples for Cd collected in Q3.

FOOTNOTES:

(1) Sampling frequency for cadmium (Cd) wells/piezometers is annual (in Q3) except quarterly for MW-10A and semi-annual (in Q1 and Q3) for MW-34A.

(2) CAS-2R and MH-18 are located within 60 feet of each other. Consequently, we sample MH-18 only, not both MH-18 and CAS-2R.

(3) For discharge monitoring reports, MH-18 also sampled once every 5 years for the priority pollutants, per agreement with the WDNR, until pumping discharges cease.

(4) Pumping from and quarterly sampling of EW-1R and/or EW-2 will resume if an increasing trend in TCE or 1,1,1-TCA is observed in any of the MRDS monitoring wells/piezometers (MW-5A/B, MW-62A/B/C, MW-63A/B, MW-65A/B/C, and MW-66A/B/C).

(5) Re-evaluate sampling frequency for NPI VOC analysis if EW-1R and/or EW-2 resume pumping.

(6) Previously classified as a Plume 5 monitoring well.

APPENDIX A (available upon request)

CD WITH HISTORICAL DATA SUMMARY WORKBOOKS

APPENDIX B (available upon request)

LABORATORY REPORTS FOR 2018 GROUNDWATER ANALYTICAL DATA

April 11, 2018

Project #34283.000
NPI Q1 GW (1 of 3)
Reviewed by CCW
4/11/18

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40166652

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40166652

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40166652

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166652001	EW-6	Water	03/27/18 10:45	03/29/18 09:39
40166652002	MH-18	Water	03/27/18 13:10	03/29/18 09:39
40166652003	MW-4B	Water	03/27/18 11:30	03/29/18 09:39
40166652004	MW-10A	Water	03/28/18 07:50	03/29/18 09:39
40166652005	MW-34A	Water	03/28/18 08:15	03/29/18 09:39
40166652006	MW-68A	Water	03/27/18 12:10	03/29/18 09:39
40166652007	MW-68B	Water	03/27/18 12:00	03/29/18 09:39
40166652008	MW-70A	Water	03/28/18 08:05	03/29/18 09:39
40166652009	MW-76A	Water	03/27/18 10:55	03/29/18 09:39
40166652010	MW-76A DUP	Water	03/27/18 11:00	03/29/18 09:39
40166652011	MW-77A	Water	03/27/18 11:20	03/29/18 09:39
40166652012	MW-77B	Water	03/27/18 11:10	03/29/18 09:39
40166652013	TRIP BLANK	Water	03/27/18 00:00	03/29/18 09:39

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40166652

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166652001	EW-6	EPA 8260	LAP	8	PASI-G
40166652002	MH-18	EPA 8260	LAP	8	PASI-G
40166652003	MW-4B	EPA 8260	LAP	8	PASI-G
40166652004	MW-10A	EPA 6010	JLD	1	PASI-G
40166652005	MW-34A	EPA 8260	LAP	8	PASI-G
40166652006	MW-68A	EPA 8260	LAP	8	PASI-G
40166652007	MW-68B	EPA 8260	LAP	8	PASI-G
40166652008	MW-70A	EPA 8260	LAP	8	PASI-G
40166652009	MW-76A	EPA 8260	LAP	8	PASI-G
40166652010	MW-76A DUP	EPA 8260	LAP	8	PASI-G
40166652011	MW-77A	EPA 8260	LAP	8	PASI-G
40166652012	MW-77B	EPA 8260	LAP	8	PASI-G
40166652013	TRIP BLANK	EPA 8260	LAP	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40166652

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40166652001	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.5	ug/L	1.0	04/02/18 12:45	
EPA 8260	Trichloroethene	0.87J	ug/L	1.0	04/02/18 12:45	
40166652002	MH-18					
EPA 8260	1,1,1-Trichloroethane	0.94J	ug/L	1.0	04/02/18 13:07	
EPA 8260	Trichloroethene	0.68J	ug/L	1.0	04/02/18 13:07	
40166652003	MW-4B					
EPA 8260	1,1-Dichloroethane	0.33J	ug/L	1.0	04/02/18 10:07	
EPA 8260	Trichloroethene	0.42J	ug/L	1.0	04/02/18 10:07	
40166652004	MW-10A					
EPA 6010	Cadmium, Dissolved	18.9	ug/L	5.0	04/06/18 11:54	
40166652008	MW-70A					
EPA 8260	1,1-Dichloroethane	0.27J	ug/L	1.0	04/02/18 14:37	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	04/02/18 14:37	
40166652009	MW-76A					
EPA 8260	1,1,1-Trichloroethane	0.50J	ug/L	1.0	04/02/18 15:00	
40166652012	MW-77B					
EPA 8260	Trichloroethene	1.4	ug/L	1.0	04/03/18 00:09	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40166652

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: April 11, 2018

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40166652

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: April 11, 2018

General Information:

12 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: EW-6 **Lab ID: 40166652001** Collected: 03/27/18 10:45 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.5	ug/L	1.0	0.50	1		04/02/18 12:45	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 12:45	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 12:45	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 12:45	127-18-4	
Trichloroethene	0.87J	ug/L	1.0	0.33	1		04/02/18 12:45	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		04/02/18 12:45	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		04/02/18 12:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/02/18 12:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MH-18 **Lab ID: 40166652002** Collected: 03/27/18 13:10 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.94J	ug/L	1.0	0.50	1		04/02/18 13:07	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 13:07	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 13:07	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 13:07	127-18-4	
Trichloroethene	0.68J	ug/L	1.0	0.33	1		04/02/18 13:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		04/02/18 13:07	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		04/02/18 13:07	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/02/18 13:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-4B **Lab ID: 40166652003** Collected: 03/27/18 11:30 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 10:07	71-55-6	
1,1-Dichloroethane	0.33J	ug/L	1.0	0.24	1		04/02/18 10:07	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 10:07	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 10:07	127-18-4	
Trichloroethene	0.42J	ug/L	1.0	0.33	1		04/02/18 10:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		04/02/18 10:07	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		04/02/18 10:07	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/02/18 10:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-10A **Lab ID: 40166652004** Collected: 03/28/18 07:50 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium, Dissolved	18.9	ug/L	5.0	1.3	1	03/30/18 06:02	04/06/18 11:54	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-34A **Lab ID: 40166652005** Collected: 03/28/18 08:15 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 13:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 13:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 13:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 13:30	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 13:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		04/02/18 13:30	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		04/02/18 13:30	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/02/18 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-68A **Lab ID: 40166652006** Collected: 03/27/18 12:10 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 13:52	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 13:52	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 13:52	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 13:52	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 13:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		04/02/18 13:52	460-00-4	
Dibromofluoromethane (S)	120	%	67-130		1		04/02/18 13:52	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/02/18 13:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-68B **Lab ID: 40166652007** Collected: 03/27/18 12:00 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 14:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 14:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 14:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 14:15	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 14:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		04/02/18 14:15	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		04/02/18 14:15	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/02/18 14:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-70A **Lab ID: 40166652008** Collected: 03/28/18 08:05 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 14:37	71-55-6	
1,1-Dichloroethane	0.27J	ug/L	1.0	0.24	1		04/02/18 14:37	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 14:37	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 14:37	127-18-4	
Trichloroethene	0.54J	ug/L	1.0	0.33	1		04/02/18 14:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		04/02/18 14:37	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		04/02/18 14:37	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/02/18 14:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-76A **Lab ID: 40166652009** Collected: 03/27/18 10:55 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.50J	ug/L	1.0	0.50	1		04/02/18 15:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 15:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 15:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 15:00	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 15:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		04/02/18 15:00	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		04/02/18 15:00	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/02/18 15:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-76A DUP **Lab ID: 40166652010** Collected: 03/27/18 11:00 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 23:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 23:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 23:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 23:47	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 23:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		04/02/18 23:47	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		04/02/18 23:47	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/02/18 23:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-77A **Lab ID: 40166652011** Collected: 03/27/18 11:20 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 10:29	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 10:29	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 10:29	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 10:29	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 10:29	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		04/02/18 10:29	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		04/02/18 10:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/02/18 10:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: MW-77B **Lab ID: 40166652012** Collected: 03/27/18 11:10 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/03/18 00:09	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/03/18 00:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/03/18 00:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/03/18 00:09	127-18-4	
Trichloroethene	1.4	ug/L	1.0	0.33	1		04/03/18 00:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		04/03/18 00:09	460-00-4	
Dibromofluoromethane (S)	120	%	67-130		1		04/03/18 00:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/03/18 00:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166652

Sample: TRIP BLANK **Lab ID: 40166652013** Collected: 03/27/18 00:00 Received: 03/29/18 09:39 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		04/02/18 09:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		04/02/18 09:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		04/02/18 09:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		04/02/18 09:44	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		04/02/18 09:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		04/02/18 09:44	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		04/02/18 09:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/02/18 09:44	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI

Pace Project No.: 40166652

QC Batch: 284717

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 40166652004

METHOD BLANK: 1666446

Matrix: Water

Associated Lab Samples: 40166652004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	04/06/18 11:49	

LABORATORY CONTROL SAMPLE: 1666447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	489	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1666448 1666449

Parameter	Units	40166652004		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Cadmium, Dissolved	ug/L	18.9	500	500	500	519	519	100	100	75-125	0	20			

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40166652

QC Batch: 284714 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40166652001, 40166652002, 40166652003, 40166652005, 40166652006, 40166652007, 40166652008, 40166652009, 40166652010, 40166652011, 40166652012, 40166652013

METHOD BLANK: 1666436 Matrix: Water
Associated Lab Samples: 40166652001, 40166652002, 40166652003, 40166652005, 40166652006, 40166652007, 40166652008, 40166652009, 40166652010, 40166652011, 40166652012, 40166652013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/02/18 05:59	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/02/18 05:59	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/02/18 05:59	
Tetrachloroethene	ug/L	<0.50	1.0	04/02/18 05:59	
Trichloroethene	ug/L	<0.33	1.0	04/02/18 05:59	
4-Bromofluorobenzene (S)	%	89	61-130	04/02/18 05:59	
Dibromofluoromethane (S)	%	114	67-130	04/02/18 05:59	
Toluene-d8 (S)	%	97	70-130	04/02/18 05:59	

LABORATORY CONTROL SAMPLE: 1666437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.8	122	70-130	
1,1-Dichloroethane	ug/L	50	59.2	118	71-132	
1,1-Dichloroethene	ug/L	50	58.0	116	75-130	
Tetrachloroethene	ug/L	50	53.5	107	70-130	
Trichloroethene	ug/L	50	58.9	118	70-130	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			108	67-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1667540 1667541

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40166652003 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.3	59.8	119	120	70-134	1	20
1,1-Dichloroethane	ug/L	0.33J	50	50	57.5	58.0	114	115	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	56.9	57.9	114	116	75-136	2	20
Tetrachloroethene	ug/L	<0.50	50	50	50.5	53.0	101	106	70-130	5	20
Trichloroethene	ug/L	0.42J	50	50	55.3	57.0	110	113	70-130	3	20
4-Bromofluorobenzene (S)	%						104	102	61-130		
Dibromofluoromethane (S)	%						111	110	67-130		
Toluene-d8 (S)	%						98	99	70-130		

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40166652

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40166652

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166652004	MW-10A	EPA 3010	284717	EPA 6010	285053
40166652001	EW-6	EPA 8260	284714		
40166652002	MH-18	EPA 8260	284714		
40166652003	MW-4B	EPA 8260	284714		
40166652005	MW-34A	EPA 8260	284714		
40166652006	MW-68A	EPA 8260	284714		
40166652007	MW-68B	EPA 8260	284714		
40166652008	MW-70A	EPA 8260	284714		
40166652009	MW-76A	EPA 8260	284714		
40166652010	MW-76A DUP	EPA 8260	284714		
40166652011	MW-77A	EPA 8260	284714		
40166652012	MW-77B	EPA 8260	284714		
40166652013	TRIP BLANK	EPA 8260	284714		

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 800-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Marcus Mussey
 Sampled By (Sign): *[Signature]*

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of

40166652



CHAIN OF CUSTODY

*Preservation Codes							
A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol	G=NaOH	
H=Sodium Bisulfate Solution		I=Sodium Thiosulfate			J=Other		

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Y/N	<u>N</u>	<u>Y</u>									
Pick Letter	<u>B</u>	<u>P</u>									
Analyses Requested	VOCS	NPI Short List	Disolved Cd								

Quote #: 40166652
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
 Invoice To Contact: ↑
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone: 608-836-1500

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED
		DATE	TIME		
<u>001</u>	<u>EW-6</u>	<u>3/27</u>	<u>1045</u>	<u>GW</u>	<u>3'</u>
<u>002</u>	<u>MHI-18</u>	<u>3/27</u>	<u>1310</u>		<u>3'</u>
<u>003</u>	<u>MW-4B</u>	<u>3/27</u>	<u>1130</u>		<u>3'</u>
<u>004</u>	<u>MW-10A</u>	<u>3/28</u>	<u>750</u>		<u>1'</u>
<u>005</u>	<u>MW-34A</u>	<u>3/28</u>	<u>815</u>		<u>3'</u>
<u>006</u>	<u>MW-68A</u>	<u>3/27</u>	<u>1210</u>		<u>3'</u>
<u>007</u>	<u>MW-68B</u>	<u>3/27</u>	<u>1200</u>		<u>3'</u>
<u>008</u>	<u>MW-70A</u>	<u>3/28</u>	<u>805</u>		<u>3'</u>
<u>009</u>	<u>MW-76A</u>	<u>3/27</u>	<u>1055</u>		<u>3'</u>
<u>010</u>	<u>MW-76A Dup</u>	<u>3/27</u>	<u>1100</u>		<u>3'</u>
<u>011</u>	<u>MW-77A</u>	<u>3/27</u>	<u>1120</u>		<u>3'</u>
<u>012</u>	<u>MW-77B</u>	<u>3/27</u>	<u>1110</u>		<u>3'</u>
<u>013</u>	<u>Trip Blank</u>				<u>2'</u>

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: 3/28/18, 1400

Relinquished By: <u>[Signature]</u> Date/Time: <u>3/28/18, 1400</u>	Received By: <u>FedEx</u> Date/Time: <u>3/29/18 0939</u>	PACE Project No. <u>40166652</u>
Relinquished By: <u>Fed Ex</u> Date/Time: <u>3/29/18 0939</u>	Received By: <u>Suzanne Wylke</u> Date/Time: <u>3/29/18 0939</u>	Receipt Temp = <u>ROI °C</u>
Relinquished By: <u>[Signature]</u> Date/Time:	Received By: <u>[Signature]</u> Date/Time:	Sample Receipt pH <u>OK / Adjusted</u>
Relinquished By: <u>[Signature]</u> Date/Time:	Received By: <u>[Signature]</u> Date/Time:	Cooler Custody Seal <u>Present / Not Present</u>
Relinquished By: <u>[Signature]</u> Date/Time:	Received By: <u>[Signature]</u> Date/Time:	Intact / Not Intact

Client Name: Gannett Fleming Project # 4016652

Initial when completed: SKW Date/Time:

All containers needing preservation have been checked and noted below: Yes No N/A Lab Std #/ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN	
001																	3																	2.5 / 5 / 10
002																	3																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																																*		2.5 / 5 / 10
005																	3																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	3																	2.5 / 5 / 10
008																	3																	2.5 / 5 / 10
009																	3																	2.5 / 5 / 10
010																	3																	2.5 / 5 / 10
011																	3																	2.5 / 5 / 10
012																	3																	2.5 / 5 / 10
013																	2																	2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-GB-C-031-rev.06

Document Revised: 31Jan2018
 Issuing Authority:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Garnett Fleming

Project #: **WO#: 40166652**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Tracking #: 8115 9775 9923

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 3-29-18
 Initials: SKU

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: KAR for DM Date: 3/29/18

April 06, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #34283.000
NPI Q1 GW (3 of 3)
Reviewed by CCW
4/6/18

RE: Project: 34283.000 NPI
Pace Project No.: 40166761

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI
Pace Project No.: 40166761

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064

Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40166761

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166761001	CW-15	Water	03/29/18 08:10	03/30/18 10:10
40166761002	CW-19	Water	03/29/18 08:20	03/30/18 10:10
40166761003	CW-22	Water	03/29/18 08:30	03/30/18 10:10
40166761004	CW-23	Water	03/29/18 08:25	03/30/18 10:10
40166761006	RAW	Water	03/29/18 08:05	03/30/18 10:10
40166761007	TOWER A	Water	03/29/18 08:01	03/30/18 10:10
40166761008	TOWER B	Water	03/29/18 08:00	03/30/18 10:10
40166761009	FINISHED PRODUCT	Water	03/29/18 07:50	03/30/18 10:10
40166761010	TRIP BLANK	Water	03/29/18 00:00	03/30/18 10:10

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40166761

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166761001	CW-15	EPA 524.2	AEZ	8	PASI-M
40166761002	CW-19	EPA 524.2	AEZ	8	PASI-M
40166761003	CW-22	EPA 524.2	AEZ	8	PASI-M
40166761004	CW-23	EPA 524.2	AEZ	8	PASI-M
40166761006	RAW	EPA 524.2	AEZ	8	PASI-M
40166761007	TOWER A	EPA 524.2	AEZ	8	PASI-M
40166761008	TOWER B	EPA 524.2	AEZ	8	PASI-M
40166761009	FINISHED PRODUCT	EPA 524.2	AEZ	8	PASI-M
40166761010	TRIP BLANK	EPA 524.2	AEZ	8	PASI-M

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40166761

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40166761002	CW-19					
EPA 524.2	Trichloroethene	0.73	ug/L	0.36	04/05/18 14:58	
40166761003	CW-22					
EPA 524.2	1,1,1-Trichloroethane	0.32J	ug/L	0.44	04/05/18 15:21	
EPA 524.2	Trichloroethene	2.7	ug/L	0.36	04/05/18 15:21	
40166761004	CW-23					
EPA 524.2	Trichloroethene	0.15J	ug/L	0.36	04/05/18 15:45	
40166761006	RAW					
EPA 524.2	Trichloroethene	0.50	ug/L	0.36	04/05/18 16:09	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40166761

Method: EPA 524.2

Description: 524.2 MSV

Client: Gannett Fleming Inc.

Date: April 06, 2018

General Information:

9 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: CW-15 **Lab ID: 40166761001** Collected: 03/29/18 08:10 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 14:34	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 14:34	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 14:34	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 14:34	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		04/05/18 14:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		04/05/18 14:34	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 14:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		04/05/18 14:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: CW-19 **Lab ID: 40166761002** Collected: 03/29/18 08:20 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 14:58	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 14:58	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 14:58	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 14:58	71-55-6	
Trichloroethene	0.73	ug/L	0.36	0.11	1		04/05/18 14:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		04/05/18 14:58	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 14:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		04/05/18 14:58	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: CW-22 **Lab ID: 40166761003** Collected: 03/29/18 08:30 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 15:21	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 15:21	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 15:21	127-18-4	
1,1,1-Trichloroethane	0.32J	ug/L	0.44	0.13	1		04/05/18 15:21	71-55-6	
Trichloroethene	2.7	ug/L	0.36	0.11	1		04/05/18 15:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		04/05/18 15:21	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 15:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		04/05/18 15:21	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: CW-23 **Lab ID: 40166761004** Collected: 03/29/18 08:25 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 15:45	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 15:45	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 15:45	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 15:45	71-55-6	
Trichloroethene	0.15J	ug/L	0.36	0.11	1		04/05/18 15:45	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		04/05/18 15:45	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		04/05/18 15:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		04/05/18 15:45	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: RAW **Lab ID: 40166761006** Collected: 03/29/18 08:05 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 16:09	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 16:09	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 16:09	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 16:09	71-55-6	
Trichloroethene	0.50	ug/L	0.36	0.11	1		04/05/18 16:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		04/05/18 16:09	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 16:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		04/05/18 16:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: TOWER A **Lab ID: 40166761007** Collected: 03/29/18 08:01 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 16:33	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 16:33	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 16:33	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 16:33	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		04/05/18 16:33	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		04/05/18 16:33	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 16:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		04/05/18 16:33	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: TOWER B **Lab ID: 40166761008** Collected: 03/29/18 08:00 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 16:57	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 16:57	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 16:57	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 16:57	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		04/05/18 16:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		04/05/18 16:57	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		04/05/18 16:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		04/05/18 16:57	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: FINISHED PRODUCT **Lab ID: 40166761009** Collected: 03/29/18 07:50 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 17:20	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 17:20	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 17:20	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 17:20	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		04/05/18 17:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		04/05/18 17:20	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 17:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		04/05/18 17:20	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40166761

Sample: TRIP BLANK **Lab ID: 40166761010** Collected: 03/29/18 00:00 Received: 03/30/18 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		04/05/18 13:00	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		04/05/18 13:00	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		04/05/18 13:00	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		04/05/18 13:00	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		04/05/18 13:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		04/05/18 13:00	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		04/05/18 13:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		04/05/18 13:00	17060-07-0	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40166761

QC Batch: 530817 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40166761001, 40166761002, 40166761003, 40166761004, 40166761006, 40166761007, 40166761008, 40166761009, 40166761010

METHOD BLANK: 2881385 Matrix: Water
Associated Lab Samples: 40166761001, 40166761002, 40166761003, 40166761004, 40166761006, 40166761007, 40166761008, 40166761009, 40166761010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.13	0.44	04/05/18 12:36	
1,1-Dichloroethane	ug/L	<0.14	0.48	04/05/18 12:36	
1,1-Dichloroethene	ug/L	<0.18	0.60	04/05/18 12:36	
Tetrachloroethene	ug/L	<0.12	0.38	04/05/18 12:36	
Trichloroethene	ug/L	<0.11	0.36	04/05/18 12:36	
1,2-Dichloroethane-d4 (S)	%	100	75-125	04/05/18 12:36	
4-Bromofluorobenzene (S)	%	98	75-125	04/05/18 12:36	
Toluene-d8 (S)	%	98	75-125	04/05/18 12:36	

LABORATORY CONTROL SAMPLE: 2881386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1-Dichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	20	20.8	104	70-130	
Tetrachloroethene	ug/L	20	21.6	108	70-130	
Trichloroethene	ug/L	20	20.5	103	70-130	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2882095 2882096

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40166347008 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.13	20	20	20.2	21.4	101	107	70-130	6	20
1,1-Dichloroethane	ug/L	0.41J	20	20	19.0	20.1	93	98	70-130	6	20
1,1-Dichloroethene	ug/L	<0.18	20	20	20.4	21.4	102	107	70-130	5	20
Tetrachloroethene	ug/L	<0.12	20	20	20.0	20.9	100	105	70-130	5	20
Trichloroethene	ug/L	7.0	20	20	26.1	27.1	95	100	70-130	4	20
1,2-Dichloroethane-d4 (S)	%						98	100	75-125		
4-Bromofluorobenzene (S)	%						99	99	75-125		
Toluene-d8 (S)	%						100	100	75-125		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40166761

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40166761

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166761001	CW-15	EPA 524.2	530817		
40166761002	CW-19	EPA 524.2	530817		
40166761003	CW-22	EPA 524.2	530817		
40166761004	CW-23	EPA 524.2	530817		
40166761006	RAW	EPA 524.2	530817		
40166761007	TOWER A	EPA 524.2	530817		
40166761008	TOWER B	EPA 524.2	530817		
40166761009	FINISHED PRODUCT	EPA 524.2	530817		
40166761010	TRIP BLANK	EPA 524.2	530817		

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of

Page 19 of 21



JSM

4046761

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	Pick Letter	B	Analyses Requested	VOC	SVOC	DW	3

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Marcus Mussey
 Sampled By (Sign): [Signature]
 PO #: _____ Regulatory Program: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	CW-15	3/29	810	DW
002	CW-19		820	
003	CW-22		830	
004	CW-23		825	
005	Raw		805	
006	Tower A		801	
007	Tower B		800	
008	Finished Product		750	
009	Trip Blank			

Quote #: _____
 Mail To Contact: cwright@gannett.com
 Mail To Company: _____
 Mail To Address: 8025 Exclusion Dr. Madison WI, 53717
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Relinquished By: <u>Marcus Mussey</u> Date/Time: <u>3/29, 1010</u>	Received By: <u>Fed Ex</u> Date/Time: _____	PACE Project No. _____ Receipt Temp = _____ °C Sample Receipt pH <u>OK / Adjusted</u> Cooler Custody Seal <u>Present / Not Present</u> Intact / Not Intact
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

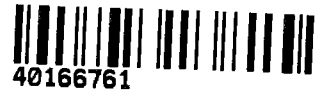
Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming Project #:

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other:

WO#: 40166761



Tracking #: 780300112550

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None

Cooler Temperature Uncorr: ROI Corr: _____ Samples on ice, cooling process has begun

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 3-30-18
Initials: [Signature]

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>394</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 3/30/18

June 21, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #34283.000
NPI
Reviewed by CCW
6/22/18

RE: Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40171069

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171069001	MW-4B	Water	06/18/18 14:55	06/19/18 09:10
40171069002	MW-5A	Water	06/18/18 13:42	06/19/18 09:10
40171069003	MW-62AR	Water	06/18/18 13:20	06/19/18 09:10
40171069004	MW-62AR DUP	Water	06/18/18 13:22	06/19/18 09:10
40171069005	MW-62B	Water	06/18/18 13:30	06/19/18 09:10
40171069006	MW-63A	Water	06/18/18 13:55	06/19/18 09:10
40171069007	MW-66B	Water	06/18/18 13:05	06/19/18 09:10
40171069008	MW-68A	Water	06/18/18 14:30	06/19/18 09:10
40171069009	MW-68B	Water	06/18/18 14:28	06/19/18 09:10
40171069010	MW-74A	Water	06/18/18 14:20	06/19/18 09:10
40171069011	TRIP BLANK	Water	06/18/18 00:00	06/19/18 09:10

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SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171069001	MW-4B	EPA 8260	HNW	8	PASI-G
40171069002	MW-5A	EPA 8260	HNW	8	PASI-G
40171069003	MW-62AR	EPA 8260	HNW	8	PASI-G
40171069004	MW-62AR DUP	EPA 8260	HNW	8	PASI-G
40171069005	MW-62B	EPA 8260	HNW	8	PASI-G
40171069006	MW-63A	EPA 8260	HNW	8	PASI-G
40171069007	MW-66B	EPA 8260	HNW	8	PASI-G
40171069008	MW-68A	EPA 8260	HNW	8	PASI-G
40171069009	MW-68B	EPA 8260	HNW	8	PASI-G
40171069010	MW-74A	EPA 8260	HNW	8	PASI-G
40171069011	TRIP BLANK	EPA 8260	HNW	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40171069

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40171069001 EPA 8260	MW-4B Trichloroethene	0.34J	ug/L	1.0	06/20/18 09:00	

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: June 21, 2018

General Information:

11 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-4B **Lab ID: 40171069001** Collected: 06/18/18 14:55 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 09:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 09:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 09:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 09:00	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.33	1		06/20/18 09:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/20/18 09:00	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		06/20/18 09:00	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 09:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-5A **Lab ID: 40171069002** Collected: 06/18/18 13:42 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 12:49	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 12:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 12:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 12:49	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 12:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/20/18 12:49	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 12:49	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-62AR **Lab ID: 40171069003** Collected: 06/18/18 13:20 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 13:11	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 13:11	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 13:11	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 13:11	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 13:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/20/18 13:11	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 13:11	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/20/18 13:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-62AR DUP **Lab ID: 40171069004** Collected: 06/18/18 13:22 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 09:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 09:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 09:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 09:22	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 09:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/20/18 09:22	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		06/20/18 09:22	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 09:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-62B **Lab ID: 40171069005** Collected: 06/18/18 13:30 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 13:34	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 13:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 13:34	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 13:34	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 13:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/20/18 13:34	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/20/18 13:34	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/20/18 13:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-63A **Lab ID: 40171069006** Collected: 06/18/18 13:55 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 13:56	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 13:56	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 13:56	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 13:56	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 13:56	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/20/18 13:56	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 13:56	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/20/18 13:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-66B **Lab ID: 40171069007** Collected: 06/18/18 13:05 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 14:19	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 14:19	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 14:19	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 14:19	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 14:19	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/20/18 14:19	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/20/18 14:19	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/20/18 14:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-68A **Lab ID: 40171069008** Collected: 06/18/18 14:30 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 14:41	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 14:41	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 14:41	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 14:41	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 14:41	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/20/18 14:41	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 14:41	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 14:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-68B **Lab ID: 40171069009** Collected: 06/18/18 14:28 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 15:03	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 15:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 15:03	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 15:03	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 15:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/20/18 15:03	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 15:03	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: MW-74A **Lab ID: 40171069010** Collected: 06/18/18 14:20 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 15:26	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 15:26	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 15:26	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 15:26	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 15:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/20/18 15:26	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/20/18 15:26	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/20/18 15:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Sample: TRIP BLANK **Lab ID: 40171069011** Collected: 06/18/18 00:00 Received: 06/19/18 09:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/18 15:48	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/18 15:48	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/18 15:48	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/18 15:48	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/18 15:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/20/18 15:48	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/20/18 15:48	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/20/18 15:48	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40171069

QC Batch: 292317 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171069001, 40171069002, 40171069003, 40171069004, 40171069005, 40171069006, 40171069007, 40171069008, 40171069009, 40171069010, 40171069011

METHOD BLANK: 1709012 Matrix: Water
Associated Lab Samples: 40171069001, 40171069002, 40171069003, 40171069004, 40171069005, 40171069006, 40171069007, 40171069008, 40171069009, 40171069010, 40171069011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/20/18 07:07	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/20/18 07:07	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/20/18 07:07	
Tetrachloroethene	ug/L	<0.50	1.0	06/20/18 07:07	
Trichloroethene	ug/L	<0.33	1.0	06/20/18 07:07	
4-Bromofluorobenzene (S)	%	99	70-130	06/20/18 07:07	
Dibromofluoromethane (S)	%	97	70-130	06/20/18 07:07	
Toluene-d8 (S)	%	103	70-130	06/20/18 07:07	

LABORATORY CONTROL SAMPLE: 1709013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.2	110	70-133	
1,1-Dichloroethane	ug/L	50	52.6	105	70-134	
1,1-Dichloroethene	ug/L	50	51.7	103	75-132	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Trichloroethene	ug/L	50	56.5	113	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1709018 1709019

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40171069001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	60.1	58.8	120	117	70-136	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	57.1	55.4	114	110	70-139	3	20
1,1-Dichloroethene	ug/L	<0.41	50	50	58.7	57.4	117	115	72-137	2	20
Tetrachloroethene	ug/L	<0.50	50	50	59.6	58.6	119	117	70-132	2	20
Trichloroethene	ug/L	0.34J	50	50	59.4	59.1	118	118	70-131	0	20
4-Bromofluorobenzene (S)	%						118	116	70-130		
Dibromofluoromethane (S)	%						102	101	70-130		
Toluene-d8 (S)	%						106	105	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40171069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171069001	MW-4B	EPA 8260	292317		
40171069002	MW-5A	EPA 8260	292317		
40171069003	MW-62AR	EPA 8260	292317		
40171069004	MW-62AR DUP	EPA 8260	292317		
40171069005	MW-62B	EPA 8260	292317		
40171069006	MW-63A	EPA 8260	292317		
40171069007	MW-66B	EPA 8260	292317		
40171069008	MW-68A	EPA 8260	292317		
40171069009	MW-68B	EPA 8260	292317		
40171069010	MW-74A	EPA 8260	292317		
40171069011	TRIP BLANK	EPA 8260	292317		

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(Please Print Clearly)

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: National Presto Industries (NPI)
Project State: WI
Sampled By (Print): Brett Seidlitz / Chelsea Paylor
Sampled By (Sign): *Chelsea Paylor*
PO #:
Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

COC No. 40171069

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722
CLIENT COMMENTS **LAB COMMENTS (Lab Use Only)** **Profile #**

Data Package Options (billable)
 EPA Level III
 EPA Level IV
MS/MSD
 On your sample (billable)
 NOT needed on your sample
Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	Y / N	N	Pick Letter	PRESERVATION (CODE)*
		DATE	TIME						
201	MW-4B	6-18-18	14:55	GW					
202	MW-5A		13:42						
203	MW-62 AR		13:20						
204	MW-62 AR dup		13:22						
205	MW-62 B		13:30						
206	MW-63 A		13:55						
207	MW-66 B		13:05						
208	MW-68 A		14:30						
209	MW-68 B		14:28						
210	MW-74A		14:20						
211	Trip Blank								

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: *Chelsea Paylor* Date/Time: 6-18-18 18:00
 Received By:
 Date/Time:
 PACE Project No. 40171069
 Receipt Temp = 12.9 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact
 Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: *Feder* Date/Time: 6/19/18 0910
 Received By: *Paul Pace* Date/Time: 6/19/18 0910
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Sample Preservation Receipt Form

Client Name: Gannett Fleming Project # 40171069

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN		
001																	W																		2.5 / 5 / 10
002																	W																		2.5 / 5 / 10
003																	W																		2.5 / 5 / 10
004																	W																		2.5 / 5 / 10
005																	W																		2.5 / 5 / 10
006																	W																		2.5 / 5 / 10
007																	W																		2.5 / 5 / 10
008																	W																		2.5 / 5 / 10
009																	W																		2.5 / 5 / 10
010																	W																		2.5 / 5 / 10
011																	W																		2.5 / 5 / 10
012																	W																		2.5 / 5 / 10
013																	W																		2.5 / 5 / 10
014																	W																		2.5 / 5 / 10
015																	W																		2.5 / 5 / 10
016																	W																		2.5 / 5 / 10
017																	W																		2.5 / 5 / 10
018																	W																		2.5 / 5 / 10
019																	W																		2.5 / 5 / 10
020																	W																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Condition Upon Receipt Form (SCUR)

Client Name: Garnett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO#: 40171069



Tracking #: 8718 1217 2113
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used: SR - N/A **Type of Ice:** Wet Blue Dry None
 Samples on ice, cooling process has begun

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 6/19/18
Initials: [Signature]

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 6/19/18

June 26, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #34283.000
NPI Q2 GW
Reviewed by CCW
7/3/18

RE: Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171242001	RW-2A	Water	06/19/18 09:06	06/21/18 09:13
40171242002	RW-2B	Water	06/19/18 09:10	06/21/18 09:13
40171242003	RW-2B DUP	Water	06/19/18 09:08	06/21/18 09:13
40171242004	RW-2C	Water	06/19/18 09:02	06/21/18 09:13
40171242005	RW-3A	Water	06/19/18 13:15	06/21/18 09:13
40171242006	RW-15	Water	06/19/18 10:15	06/21/18 09:13
40171242007	RW-15 DUP	Water	06/19/18 10:17	06/21/18 09:13
40171242008	RW-16	Water	06/19/18 11:05	06/21/18 09:13
40171242009	RW-16B	Water	06/19/18 11:10	06/21/18 09:13
40171242010	RW-16C	Water	06/19/18 11:15	06/21/18 09:13
40171242011	RW-3B	Water	06/19/18 13:25	06/21/18 09:13
40171242012	RW-3B DUP	Water	06/19/18 13:25	06/21/18 09:13
40171242013	RW-3C	Water	06/19/18 13:30	06/21/18 09:13
40171242014	WW-15	Water	06/19/18 09:45	06/21/18 09:13
40171242015	EW-6	Water	06/19/18 08:00	06/21/18 09:13
40171242016	MW-23A	Water	06/19/18 09:30	06/21/18 09:13
40171242017	MW-23B	Water	06/19/18 09:35	06/21/18 09:13
40171242018	MW-35A	Water	06/19/18 10:35	06/21/18 09:13
40171242019	MW-35B	Water	06/19/18 10:40	06/21/18 09:13
40171242020	MW-38A	Water	06/19/18 09:55	06/21/18 09:13
40171242021	MW-38B	Water	06/19/18 10:00	06/21/18 09:13
40171242022	MW-38C	Water	06/19/18 09:57	06/21/18 09:13
40171242023	MW-41A	Water	06/19/18 14:35	06/21/18 09:13
40171242024	MW-41B	Water	06/19/18 14:40	06/21/18 09:13
40171242025	MW-43A	Water	06/19/18 14:20	06/21/18 09:13
40171242026	MW-43B	Water	06/19/18 14:15	06/21/18 09:13
40171242027	MW-45B DUP	Water	06/19/18 13:45	06/21/18 09:13
40171242028	MW-45B	Water	06/19/18 13:45	06/21/18 09:13
40171242029	MW-45C	Water	06/19/18 15:25	06/21/18 09:13
40171242030	MW-65B	Water	06/19/18 12:45	06/21/18 09:13
40171242031	MW-65C	Water	06/19/18 12:55	06/21/18 09:13
40171242032	MW-76A	Water	06/19/18 08:04	06/21/18 09:13
40171242033	MW-76B	Water	06/19/18 08:10	06/21/18 09:13
40171242034	MW-77A	Water	06/19/18 07:50	06/21/18 09:13
40171242035	MW-77A DUP	Water	06/19/18 07:52	06/21/18 09:13
40171242036	MW-77B	Water	06/19/18 07:48	06/21/18 09:13
40171242037	MW-77C	Water	06/19/18 07:45	06/21/18 09:13

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SAMPLE SUMMARY

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171242038	MH-18	Water	06/19/18 07:30	06/21/18 09:13
40171242039	TRIP BLANK	Water	06/19/18 00:00	06/21/18 09:13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171242001	RW-2A	EPA 8260	MDS	8	PASI-G
40171242002	RW-2B	EPA 8260	MDS	8	PASI-G
40171242003	RW-2B DUP	EPA 8260	MDS	8	PASI-G
40171242004	RW-2C	EPA 8260	MDS	8	PASI-G
40171242005	RW-3A	EPA 8260	MDS	8	PASI-G
40171242006	RW-15	EPA 8260	MDS	8	PASI-G
40171242007	RW-15 DUP	EPA 8260	MDS	8	PASI-G
40171242008	RW-16	EPA 8260	MDS	8	PASI-G
40171242009	RW-16B	EPA 8260	MDS	8	PASI-G
40171242010	RW-16C	EPA 8260	MDS	8	PASI-G
40171242011	RW-3B	EPA 8260	MDS	8	PASI-G
40171242012	RW-3B DUP	EPA 8260	MDS	8	PASI-G
40171242013	RW-3C	EPA 8260	MDS	8	PASI-G
40171242014	WW-15	EPA 8260	MDS	8	PASI-G
40171242015	EW-6	EPA 8260	MDS	8	PASI-G
40171242016	MW-23A	EPA 8260	MDS	8	PASI-G
40171242017	MW-23B	EPA 8260	MDS	8	PASI-G
40171242018	MW-35A	EPA 8260	MDS	8	PASI-G
40171242019	MW-35B	EPA 8260	MDS	8	PASI-G
40171242020	MW-38A	EPA 8260	HNW	8	PASI-G
40171242021	MW-38B	EPA 8260	HNW	8	PASI-G
40171242022	MW-38C	EPA 8260	HNW	8	PASI-G
40171242023	MW-41A	EPA 8260	HNW	8	PASI-G
40171242024	MW-41B	EPA 8260	HNW	8	PASI-G
40171242025	MW-43A	EPA 8260	HNW	8	PASI-G
40171242026	MW-43B	EPA 8260	HNW	8	PASI-G
40171242027	MW-45B DUP	EPA 8260	HNW	8	PASI-G
40171242028	MW-45B	EPA 8260	HNW	8	PASI-G
40171242029	MW-45C	EPA 8260	HNW	8	PASI-G
40171242030	MW-65B	EPA 8260	HNW	8	PASI-G
40171242031	MW-65C	EPA 8260	HNW	8	PASI-G
40171242032	MW-76A	EPA 8260	HNW	8	PASI-G
40171242033	MW-76B	EPA 8260	HNW	8	PASI-G
40171242034	MW-77A	EPA 8260	HNW	8	PASI-G
40171242035	MW-77A DUP	EPA 8260	HNW	8	PASI-G
40171242036	MW-77B	EPA 8260	HNW	8	PASI-G
40171242037	MW-77C	EPA 8260	LAP	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171242038	MH-18	EPA 8260	LAP	8	PASI-G
40171242039	TRIP BLANK	EPA 8260	MDS	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.0000 NATIONAL PRESTO IND
 Pace Project No.: 40171242

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40171242001	RW-2A					
EPA 8260	Trichloroethene	0.91J	ug/L	1.0	06/25/18 12:27	
40171242002	RW-2B					
EPA 8260	Trichloroethene	2.0	ug/L	1.0	06/25/18 12:49	
40171242003	RW-2B DUP					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	06/25/18 13:11	
40171242004	RW-2C					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/25/18 13:56	
40171242005	RW-3A					
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/25/18 14:18	
40171242006	RW-15					
EPA 8260	Trichloroethene	3.5	ug/L	1.0	06/25/18 14:41	
40171242007	RW-15 DUP					
EPA 8260	Trichloroethene	3.4	ug/L	1.0	06/25/18 15:03	
40171242008	RW-16					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/25/18 15:25	
40171242009	RW-16B					
EPA 8260	Trichloroethene	3.2	ug/L	1.0	06/25/18 15:47	
40171242010	RW-16C					
EPA 8260	Trichloroethene	3.3	ug/L	1.0	06/25/18 16:10	
40171242011	RW-3B					
EPA 8260	Trichloroethene	3.4	ug/L	1.0	06/25/18 19:10	
40171242012	RW-3B DUP					
EPA 8260	Trichloroethene	3.5	ug/L	1.0	06/25/18 19:32	
40171242013	RW-3C					
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/25/18 19:55	
40171242014	WW-15					
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	06/25/18 20:17	
40171242015	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.2	ug/L	1.0	06/25/18 20:39	
EPA 8260	Trichloroethene	0.75J	ug/L	1.0	06/25/18 20:39	
40171242016	MW-23A					
EPA 8260	Trichloroethene	0.58J	ug/L	1.0	06/25/18 21:01	
40171242017	MW-23B					
EPA 8260	Trichloroethene	1.9	ug/L	1.0	06/26/18 11:42	
40171242018	MW-35A					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/26/18 12:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40171242019	MW-35B					
EPA 8260	Trichloroethene	1.1	ug/L	1.0	06/26/18 12:27	
40171242020	MW-38A					
EPA 8260	Trichloroethene	1.9	ug/L	1.0	06/22/18 12:01	
40171242021	MW-38B					
EPA 8260	1,1,1-Trichloroethane	0.51J	ug/L	1.0	06/22/18 10:54	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/22/18 10:54	
40171242022	MW-38C					
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/22/18 12:25	
40171242023	MW-41A					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/22/18 12:47	
40171242024	MW-41B					
EPA 8260	Trichloroethene	2.4	ug/L	1.0	06/22/18 13:13	
40171242025	MW-43A					
EPA 8260	1,1,1-Trichloroethane	0.54J	ug/L	1.0	06/22/18 13:50	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/22/18 13:50	
40171242026	MW-43B					
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/22/18 14:13	
40171242027	MW-45B DUP					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/22/18 11:16	
40171242028	MW-45B					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/22/18 14:35	
40171242029	MW-45C					
EPA 8260	Trichloroethene	3.0	ug/L	1.0	06/22/18 15:12	
40171242031	MW-65C					
EPA 8260	Trichloroethene	0.72J	ug/L	1.0	06/22/18 15:57	
40171242032	MW-76A					
EPA 8260	1,1,1-Trichloroethane	0.62J	ug/L	1.0	06/22/18 11:36	
EPA 8260	Tetrachloroethene	0.56J	ug/L	1.0	06/22/18 11:36	
40171242034	MW-77A					
EPA 8260	Trichloroethene	0.53J	ug/L	1.0	06/22/18 16:42	
40171242035	MW-77A DUP					
EPA 8260	Trichloroethene	0.79J	ug/L	1.0	06/22/18 11:39	
40171242036	MW-77B					
EPA 8260	Trichloroethene	2.3	ug/L	1.0	06/22/18 17:35	
40171242037	MW-77C					
EPA 8260	Trichloroethene	0.68J	ug/L	1.0	06/26/18 09:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40171242038	MH-18					
EPA 8260	Trichloroethene	0.46J	ug/L	1.0	06/26/18 10:21	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: June 26, 2018

General Information:

39 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-2A **Lab ID: 40171242001** Collected: 06/19/18 09:06 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 12:27	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 12:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 12:27	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 12:27	127-18-4	
Trichloroethene	0.91J	ug/L	1.0	0.33	1		06/25/18 12:27	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/25/18 12:27	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/25/18 12:27	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/18 12:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-2B **Lab ID: 40171242002** Collected: 06/19/18 09:10 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 12:49	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 12:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 12:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 12:49	127-18-4	
Trichloroethene	2.0	ug/L	1.0	0.33	1		06/25/18 12:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 12:49	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/25/18 12:49	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/25/18 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-2B DUP **Lab ID: 40171242003** Collected: 06/19/18 09:08 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 13:11	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 13:11	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 13:11	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 13:11	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		06/25/18 13:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 13:11	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/25/18 13:11	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/18 13:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-2C **Lab ID: 40171242004** Collected: 06/19/18 09:02 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 13:56	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 13:56	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 13:56	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 13:56	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.33	1		06/25/18 13:56	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/25/18 13:56	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/25/18 13:56	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/25/18 13:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

Sample: RW-3A **Lab ID:** 40171242005 Collected: 06/19/18 13:15 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 14:18	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 14:18	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 14:18	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 14:18	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		06/25/18 14:18	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/25/18 14:18	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/25/18 14:18	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/25/18 14:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-15 **Lab ID: 40171242006** Collected: 06/19/18 10:15 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 14:41	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 14:41	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 14:41	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 14:41	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.33	1		06/25/18 14:41	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 14:41	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/25/18 14:41	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/25/18 14:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-15 DUP **Lab ID: 40171242007** Collected: 06/19/18 10:17 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 15:03	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 15:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 15:03	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 15:03	127-18-4	
Trichloroethene	3.4	ug/L	1.0	0.33	1		06/25/18 15:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/25/18 15:03	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/25/18 15:03	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/25/18 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-16 **Lab ID: 40171242008** Collected: 06/19/18 11:05 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 15:25	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 15:25	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 15:25	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 15:25	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/25/18 15:25	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 15:25	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/25/18 15:25	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/25/18 15:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-16B **Lab ID: 40171242009** Collected: 06/19/18 11:10 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 15:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 15:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 15:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 15:47	127-18-4	
Trichloroethene	3.2	ug/L	1.0	0.33	1		06/25/18 15:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/25/18 15:47	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/25/18 15:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/25/18 15:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-16C **Lab ID: 40171242010** Collected: 06/19/18 11:15 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 16:10	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 16:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 16:10	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 16:10	127-18-4	
Trichloroethene	3.3	ug/L	1.0	0.33	1		06/25/18 16:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/25/18 16:10	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/25/18 16:10	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/25/18 16:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-3B **Lab ID: 40171242011** Collected: 06/19/18 13:25 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 19:10	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 19:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 19:10	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 19:10	127-18-4	
Trichloroethene	3.4	ug/L	1.0	0.33	1		06/25/18 19:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/25/18 19:10	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/25/18 19:10	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/25/18 19:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-3B DUP **Lab ID:** 40171242012 Collected: 06/19/18 13:25 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 19:32	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 19:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 19:32	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 19:32	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.33	1		06/25/18 19:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 19:32	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/25/18 19:32	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/25/18 19:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: RW-3C **Lab ID: 40171242013** Collected: 06/19/18 13:30 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 19:55	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 19:55	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 19:55	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 19:55	127-18-4	
Trichloroethene	3.6	ug/L	1.0	0.33	1		06/25/18 19:55	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/25/18 19:55	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/25/18 19:55	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/25/18 19:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: WW-15 **Lab ID: 40171242014** Collected: 06/19/18 09:45 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 20:17	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 20:17	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 20:17	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 20:17	127-18-4	
Trichloroethene	0.73J	ug/L	1.0	0.33	1		06/25/18 20:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 20:17	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/25/18 20:17	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/25/18 20:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: EW-6 **Lab ID: 40171242015** Collected: 06/19/18 08:00 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.2	ug/L	1.0	0.50	1		06/25/18 20:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 20:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 20:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 20:39	127-18-4	
Trichloroethene	0.75J	ug/L	1.0	0.33	1		06/25/18 20:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/25/18 20:39	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/25/18 20:39	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/18 20:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-23A **Lab ID: 40171242016** Collected: 06/19/18 09:30 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 21:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 21:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 21:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 21:01	127-18-4	
Trichloroethene	0.58J	ug/L	1.0	0.33	1		06/25/18 21:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/25/18 21:01	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/25/18 21:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/25/18 21:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-23B **Lab ID: 40171242017** Collected: 06/19/18 09:35 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 11:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 11:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 11:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 11:42	127-18-4	
Trichloroethene	1.9	ug/L	1.0	0.33	1		06/26/18 11:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 11:42	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/26/18 11:42	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/26/18 11:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-35A **Lab ID: 40171242018** Collected: 06/19/18 10:35 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 12:04	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 12:04	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 12:04	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 12:04	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.33	1		06/26/18 12:04	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 12:04	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/26/18 12:04	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/26/18 12:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-35B **Lab ID: 40171242019** Collected: 06/19/18 10:40 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 12:27	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 12:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 12:27	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 12:27	127-18-4	
Trichloroethene	1.1	ug/L	1.0	0.33	1		06/26/18 12:27	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/26/18 12:27	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/26/18 12:27	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/26/18 12:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-38A **Lab ID: 40171242020** Collected: 06/19/18 09:55 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 12:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 12:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 12:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 12:01	127-18-4	
Trichloroethene	1.9	ug/L	1.0	0.33	1		06/22/18 12:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/18 12:01	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/22/18 12:01	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 12:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-38B **Lab ID: 40171242021** Collected: 06/19/18 10:00 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.51J	ug/L	1.0	0.50	1		06/22/18 10:54	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 10:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 10:54	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 10:54	127-18-4	
Trichloroethene	2.9	ug/L	1.0	0.33	1		06/22/18 10:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/22/18 10:54	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/18 10:54	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 10:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-38C **Lab ID: 40171242022** Collected: 06/19/18 09:57 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 12:25	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 12:25	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 12:25	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 12:25	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		06/22/18 12:25	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/18 12:25	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/22/18 12:25	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 12:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-41A **Lab ID: 40171242023** Collected: 06/19/18 14:35 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 12:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 12:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 12:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 12:47	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/22/18 12:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/22/18 12:47	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/18 12:47	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/22/18 12:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-41B **Lab ID: 40171242024** Collected: 06/19/18 14:40 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 13:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 13:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 13:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 13:13	127-18-4	
Trichloroethene	2.4	ug/L	1.0	0.33	1		06/22/18 13:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/22/18 13:13	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/22/18 13:13	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/22/18 13:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-43A **Lab ID: 40171242025** Collected: 06/19/18 14:20 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.54J	ug/L	1.0	0.50	1		06/22/18 13:50	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 13:50	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 13:50	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 13:50	127-18-4	
Trichloroethene	3.6	ug/L	1.0	0.33	1		06/22/18 13:50	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/22/18 13:50	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/22/18 13:50	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/22/18 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-43B **Lab ID: 40171242026** Collected: 06/19/18 14:15 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 14:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 14:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 14:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 14:13	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		06/22/18 14:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/22/18 14:13	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/22/18 14:13	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 14:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-45B DUP **Lab ID: 40171242027** Collected: 06/19/18 13:45 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 11:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 11:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 11:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 11:16	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/22/18 11:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/22/18 11:16	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/18 11:16	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/22/18 11:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-45B **Lab ID: 40171242028** Collected: 06/19/18 13:45 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 14:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 14:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 14:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 14:35	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/22/18 14:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/22/18 14:35	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/22/18 14:35	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/22/18 14:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-45C **Lab ID: 40171242029** Collected: 06/19/18 15:25 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 15:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 15:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 15:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 15:12	127-18-4	
Trichloroethene	3.0	ug/L	1.0	0.33	1		06/22/18 15:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/18 15:12	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/18 15:12	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/22/18 15:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-65B **Lab ID: 40171242030** Collected: 06/19/18 12:45 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 15:34	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 15:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 15:34	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 15:34	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/22/18 15:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/22/18 15:34	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/22/18 15:34	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/22/18 15:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-65C **Lab ID: 40171242031** Collected: 06/19/18 12:55 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 15:57	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 15:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 15:57	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 15:57	127-18-4	
Trichloroethene	0.72J	ug/L	1.0	0.33	1		06/22/18 15:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/22/18 15:57	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/22/18 15:57	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 15:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-76A **Lab ID: 40171242032** Collected: 06/19/18 08:04 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.62J	ug/L	1.0	0.50	1		06/22/18 11:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 11:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 11:36	75-35-4	
Tetrachloroethene	0.56J	ug/L	1.0	0.50	1		06/22/18 11:36	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/22/18 11:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/22/18 11:36	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		06/22/18 11:36	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/22/18 11:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-76B **Lab ID: 40171242033** Collected: 06/19/18 08:10 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 16:20	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 16:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 16:20	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 16:20	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/22/18 16:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/22/18 16:20	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/22/18 16:20	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/22/18 16:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-77A **Lab ID: 40171242034** Collected: 06/19/18 07:50 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 16:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 16:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 16:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 16:42	127-18-4	
Trichloroethene	0.53J	ug/L	1.0	0.33	1		06/22/18 16:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/18 16:42	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/18 16:42	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/22/18 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-77A DUP **Lab ID: 40171242035** Collected: 06/19/18 07:52 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 11:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 11:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 11:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 11:39	127-18-4	
Trichloroethene	0.79J	ug/L	1.0	0.33	1		06/22/18 11:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/22/18 11:39	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/22/18 11:39	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/22/18 11:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-77B **Lab ID: 40171242036** Collected: 06/19/18 07:48 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/22/18 17:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/18 17:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/22/18 17:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/22/18 17:35	127-18-4	
Trichloroethene	2.3	ug/L	1.0	0.33	1		06/22/18 17:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/22/18 17:35	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/22/18 17:35	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/22/18 17:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MW-77C **Lab ID: 40171242037** Collected: 06/19/18 07:45 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 09:58	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 09:58	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 09:58	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 09:58	127-18-4	
Trichloroethene	0.68J	ug/L	1.0	0.33	1		06/26/18 09:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 09:58	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/26/18 09:58	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/26/18 09:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: MH-18 **Lab ID: 40171242038** Collected: 06/19/18 07:30 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 10:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 10:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 10:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 10:21	127-18-4	
Trichloroethene	0.46J	ug/L	1.0	0.33	1		06/26/18 10:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/26/18 10:21	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/26/18 10:21	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/26/18 10:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Sample: TRIP BLANK **Lab ID: 40171242039** Collected: 06/19/18 00:00 Received: 06/21/18 09:13 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 21:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 21:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 21:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 21:24	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/25/18 21:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/25/18 21:24	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/25/18 21:24	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/25/18 21:24	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

QC Batch: 292566 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171242001, 40171242002, 40171242003, 40171242004, 40171242005, 40171242006, 40171242007, 40171242008, 40171242009, 40171242010, 40171242011, 40171242012, 40171242013, 40171242014, 40171242015, 40171242016, 40171242017, 40171242018, 40171242019

METHOD BLANK: 1710445 Matrix: Water
Associated Lab Samples: 40171242001, 40171242002, 40171242003, 40171242004, 40171242005, 40171242006, 40171242007, 40171242008, 40171242009, 40171242010, 40171242011, 40171242012, 40171242013, 40171242014, 40171242015, 40171242016, 40171242017, 40171242018, 40171242019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/25/18 10:13	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/25/18 10:13	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/25/18 10:13	
Tetrachloroethene	ug/L	<0.50	1.0	06/25/18 10:13	
Trichloroethene	ug/L	<0.33	1.0	06/25/18 10:13	
4-Bromofluorobenzene (S)	%	102	70-130	06/25/18 10:13	
Dibromofluoromethane (S)	%	111	70-130	06/25/18 10:13	
Toluene-d8 (S)	%	101	70-130	06/25/18 10:13	

LABORATORY CONTROL SAMPLE: 1710446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-133	
1,1-Dichloroethane	ug/L	50	56.6	113	70-134	
1,1-Dichloroethene	ug/L	50	52.6	105	75-132	
Tetrachloroethene	ug/L	50	48.8	98	70-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			112	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710447 1710448

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40171242005 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	59.7	59.5	119	119	70-136	0	20
1,1-Dichloroethane	ug/L	<0.24	50	50	59.1	59.2	118	118	70-139	0	20
1,1-Dichloroethene	ug/L	<0.41	50	50	55.0	53.7	110	107	72-137	2	20
Tetrachloroethene	ug/L	<0.50	50	50	51.1	49.3	102	99	70-132	4	20
Trichloroethene	ug/L	1.5	50	50	56.0	55.6	109	108	70-131	1	20
4-Bromofluorobenzene (S)	%						104	101	70-130		
Dibromofluoromethane (S)	%						113	111	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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QUALITY CONTROL DATA

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

QC Batch: 292567 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171242020, 40171242021, 40171242022, 40171242023, 40171242024, 40171242025, 40171242026, 40171242027, 40171242028, 40171242029, 40171242030, 40171242031, 40171242033, 40171242034, 40171242035, 40171242036, 40171242037, 40171242038

METHOD BLANK: 1710449 Matrix: Water
Associated Lab Samples: 40171242020, 40171242021, 40171242022, 40171242023, 40171242024, 40171242025, 40171242026, 40171242027, 40171242028, 40171242029, 40171242030, 40171242031, 40171242033, 40171242034, 40171242035, 40171242036, 40171242037, 40171242038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/22/18 07:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/22/18 07:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/22/18 07:32	
Tetrachloroethene	ug/L	<0.50	1.0	06/22/18 07:32	
Trichloroethene	ug/L	<0.33	1.0	06/22/18 07:32	
4-Bromofluorobenzene (S)	%	98	70-130	06/22/18 07:32	
Dibromofluoromethane (S)	%	106	70-130	06/22/18 07:32	
Toluene-d8 (S)	%	93	70-130	06/22/18 07:32	

LABORATORY CONTROL SAMPLE: 1710450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	110	70-133	
1,1-Dichloroethane	ug/L	50	56.3	113	70-134	
1,1-Dichloroethene	ug/L	50	52.6	105	75-132	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710451 1710452

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40171242021 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	0.51J	50	50	56.0	56.8	111	113	70-136	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	57.1	58.3	114	117	70-139	2	20
1,1-Dichloroethene	ug/L	<0.41	50	50	57.3	54.6	115	109	72-137	5	20
Tetrachloroethene	ug/L	<0.50	50	50	47.5	49.7	95	99	70-132	4	20
Trichloroethene	ug/L	2.9	50	50	57.1	56.4	108	107	70-131	1	20
4-Bromofluorobenzene (S)	%						100	101	70-130		
Dibromofluoromethane (S)	%						107	109	70-130		
Toluene-d8 (S)	%						93	95	70-130		

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QUALITY CONTROL DATA

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

QC Batch: 292568 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171242032

METHOD BLANK: 1710453 Matrix: Water
Associated Lab Samples: 40171242032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/22/18 07:51	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/22/18 07:51	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/22/18 07:51	
Tetrachloroethene	ug/L	<0.50	1.0	06/22/18 07:51	
Trichloroethene	ug/L	<0.33	1.0	06/22/18 07:51	
4-Bromofluorobenzene (S)	%	99	70-130	06/22/18 07:51	
Dibromofluoromethane (S)	%	92	70-130	06/22/18 07:51	
Toluene-d8 (S)	%	103	70-130	06/22/18 07:51	

LABORATORY CONTROL SAMPLE: 1710454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-133	
1,1-Dichloroethane	ug/L	50	42.6	85	70-134	
1,1-Dichloroethene	ug/L	50	42.1	84	75-132	
Tetrachloroethene	ug/L	50	58.9	118	70-130	
Trichloroethene	ug/L	50	59.1	118	70-130	
4-Bromofluorobenzene (S)	%			115	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1710455 1710456

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40171242032 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	0.62J	50	50	52.1	51.1	103	101	70-136	2 20
1,1-Dichloroethane	ug/L	<0.24	50	50	43.1	41.7	86	83	70-139	3 20
1,1-Dichloroethene	ug/L	<0.41	50	50	42.6	41.7	85	83	72-137	2 20
Tetrachloroethene	ug/L	0.56J	50	50	60.0	59.3	119	117	70-132	1 20
Trichloroethene	ug/L	<0.33	50	50	57.8	57.8	115	115	70-131	0 20
4-Bromofluorobenzene (S)	%						113	114	70-130	
Dibromofluoromethane (S)	%						99	97	70-130	
Toluene-d8 (S)	%						103	104	70-130	

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QUALITY CONTROL DATA

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

QC Batch: 292781 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171242039

METHOD BLANK: 1712011 Matrix: Water
Associated Lab Samples: 40171242039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/25/18 17:41	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/25/18 17:41	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/25/18 17:41	
Tetrachloroethene	ug/L	<0.50	1.0	06/25/18 17:41	
Trichloroethene	ug/L	<0.33	1.0	06/25/18 17:41	
4-Bromofluorobenzene (S)	%	98	70-130	06/25/18 17:41	
Dibromofluoromethane (S)	%	103	70-130	06/25/18 17:41	
Toluene-d8 (S)	%	99	70-130	06/25/18 17:41	

LABORATORY CONTROL SAMPLE: 1712012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.9	110	70-133	
1,1-Dichloroethane	ug/L	50	54.8	110	70-134	
1,1-Dichloroethene	ug/L	50	52.0	104	75-132	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Trichloroethene	ug/L	50	53.1	106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712217 1712218

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40171378058 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.3	54.1	107	108	70-136	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	54.7	54.4	109	109	70-139	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	49.9	51.2	100	102	72-137	3	20
Tetrachloroethene	ug/L	<0.50	50	50	50.9	50.9	102	102	70-132	0	20
Trichloroethene	ug/L	<0.33	50	50	51.8	50.2	104	100	70-131	3	20
4-Bromofluorobenzene (S)	%						104	101	70-130		
Dibromofluoromethane (S)	%						105	105	70-130		
Toluene-d8 (S)	%						102	99	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 34283.0000 NATIONAL PRESTO IND
Pace Project No.: 40171242

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.0000 NATIONAL PRESTO IND

Pace Project No.: 40171242

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171242001	RW-2A	EPA 8260	292566		
40171242002	RW-2B	EPA 8260	292566		
40171242003	RW-2B DUP	EPA 8260	292566		
40171242004	RW-2C	EPA 8260	292566		
40171242005	RW-3A	EPA 8260	292566		
40171242006	RW-15	EPA 8260	292566		
40171242007	RW-15 DUP	EPA 8260	292566		
40171242008	RW-16	EPA 8260	292566		
40171242009	RW-16B	EPA 8260	292566		
40171242010	RW-16C	EPA 8260	292566		
40171242011	RW-3B	EPA 8260	292566		
40171242012	RW-3B DUP	EPA 8260	292566		
40171242013	RW-3C	EPA 8260	292566		
40171242014	WW-15	EPA 8260	292566		
40171242015	EW-6	EPA 8260	292566		
40171242016	MW-23A	EPA 8260	292566		
40171242017	MW-23B	EPA 8260	292566		
40171242018	MW-35A	EPA 8260	292566		
40171242019	MW-35B	EPA 8260	292566		
40171242020	MW-38A	EPA 8260	292567		
40171242021	MW-38B	EPA 8260	292567		
40171242022	MW-38C	EPA 8260	292567		
40171242023	MW-41A	EPA 8260	292567		
40171242024	MW-41B	EPA 8260	292567		
40171242025	MW-43A	EPA 8260	292567		
40171242026	MW-43B	EPA 8260	292567		
40171242027	MW-45B DUP	EPA 8260	292567		
40171242028	MW-45B	EPA 8260	292567		
40171242029	MW-45C	EPA 8260	292567		
40171242030	MW-65B	EPA 8260	292567		
40171242031	MW-65C	EPA 8260	292567		
40171242032	MW-76A	EPA 8260	292568		
40171242033	MW-76B	EPA 8260	292567		
40171242034	MW-77A	EPA 8260	292567		
40171242035	MW-77A DUP	EPA 8260	292567		
40171242036	MW-77B	EPA 8260	292567		
40171242037	MW-77C	EPA 8260	292567		
40171242038	MH-18	EPA 8260	292567		
40171242039	TRIP BLANK	EPA 8260	292781		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

(Please Print Clearly)

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: National Presto Industries (NPI)
Project State: WI
Sampled By (Print): Brett Seidlitz / *Chelsea Payne*
Sampled By (Sign): *[Signature]*
PO #: _____ **Regulatory Program:** _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 5

COC No. 40171242

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
-----------------	-----------------------------	-----------

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y / N	N	Pick Letter	Analyses Requested
		DATE	TIME					
001	RW-2A	6-19-18	9:06	GW			B	NPI Short-list VOCs Disinfection By-Products
002	RW-2B		9:10				B	
003	RW-2B dup		9:08				B	
004	RW-2C		9:02				B	
005	RW-3A		13:15				B	
	RW-3AMS		~				B	
	RW-3AMS		~				B	
006	RW-15		10:15				B	
007	RW-15 dup		10:17				B	
008	RW-16		11:05				B	
009	RW-16B		11:10				B	
010	RW-16C		11:15				B	
011	RW-3B		13:25				B	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>Chelsea Payne</i>	Date/Time: 6-19-18 18:00	Received By: _____	Date/Time: _____
Relinquished By: <i>Fred Ex</i>	Date/Time: 6-21-18 09:13	Received By: <i>Susant Wylke</i>	Date/Time: 6-21-18 09:13
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40171242
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

Page 2 of 4

MN: 612-607-1700 WI: 920-469-2436

COC No. 40171242

Page 57 of 62



CHAIN OF CUSTODY

Company Name: Gannett Fleming, Inc.
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608/836-1500 x6722
 Project Number: 34283.000
 Project Name: National Presto Industries (NPI)
 Project State: WI
 Sampled By (Print): Brett Seidlitz
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:

***Preservation Codes**

A=None B=HCL C=H2SO4 D=HNO3 E=Dl Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Y / N	N	✓										
	B	✓										
Analyses Requested	NPI Short-list VOCs	✓										

Quote #: Pace 2018
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
 Invoice To Contact: See "Mail to Contact" info above
 Invoice To Company: "
 Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
 Invoice To Phone: 608/836-1500 x6722
 CLIENT COMMENTS LAB COMMENTS (Lab Use Only) Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	✓
		DATE	TIME				
012	RW-3Bdup	6-19-18	13:25	GW			3
013	RW-3C		13:30				
014	NW-15		9:45				
015	EW-6		8:00				
016	MW-23A		9:30				
017	MW-23B		9:35				
018	MW-35A		10:35				
019	MW-35B		10:40				
020	MW-38A		9:55				
021	MW-38B		10:00				
	MW-38B MS		10:02				
	MW-38B MSD		10:05				
022	MW-38C		9:57				

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: *[Signature]* Date/Time: 6-17-18 18:00
 Received By: Date/Time:
 Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: *[Signature]* Date/Time: 6-21-18 09:13
 Received By: *[Signature]* Date/Time: 6-21-18 09:13
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability
 Relinquished By: Date/Time:
 Received By: Date/Time:
 PACE Project No. 40171242
 Receipt Temp = ROT °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

COC No. 40171242

Company Name:	Gannett Fleming, Inc.
Branch/Location:	Madison, WI
Project Contact:	Cliff Wright
Phone:	608/836-1500 x6722
Project Number:	34283.000
Project Name:	National Presto Industries (NPI)
Project State:	WI
Sampled By (Print):	Brett Seidlitz / Chelsea Payne
Sampled By (Sign):	<i>[Signature]</i>
PO #:	
Regulatory Program:	



CHAIN OF CUSTODY

*Preservation Codes						
A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol	G=NaOH
H=Sodium Bisulfate Solution	I=Sodium Thiosulfate	J=Other				

FILTERED?
(YES/NO)
PRESERVATION
(CODE)*

Y / N	N	<i>[Handwritten]</i>											
Pick Letter	B	<i>[Handwritten]</i>											
Analyses Requested	NPI Short-list VOCs	<i>[Handwritten]</i>											

Quote #:	Pace 2018	
Mail To Contact:	Cliff Wright	
Mail To Company:	Gannett Fleming	
Mail To Address:	8025 Excelsior Dr. Madison, WI 53717	
Invoice To Contact:	See "Mail to Contact" info above	
Invoice To Company:	"	
Invoice To Address:	See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.	
Invoice To Phone:	608/836-1500 x6722	
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Data Package Options (billable)	MS/MSD	Matrix Codes
<input type="checkbox"/> EPA Level III <input checked="" type="checkbox"/> EPA Level IV	<input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample	A = Air W = Water B = Biota DW = Drinking Water C = Charcoal GW = Ground Water O = Oil SW = Surface Water S = Soil WW = Waste Water Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
023	MW-41A	6-19-18	14:35	GW
024	MW-41B		14:40	
025	MW-43A		14:20	
026	MW-43B	14:15	14:15	
027	MW-45B dup		13:45	
028	MW-45B		13:45	
029	MW-45C		15:25	
030	MW-65B		12:45	
031	MW-65C		12:55	
032	MW-76A		8:04	
	MW-76A MS		8:06	
	MW-76A MSD		8:08	
033	MW-76B	✓	8:10	✓

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>[Signature]</i> Date/Time: 6-19-18 18:00	Received By: _____ Date/Time: _____	PACE Project No. 40171242
	Relinquished By: <i>[Signature]</i> Date/Time: 6-21-18 09:13	Received By: <i>[Signature]</i> Date/Time: 6-21-18 09:13	
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal Present / Not Present Intact / Not Intact
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40171242

Page: 4 Of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Gannett Fleming Inc.		Report To: Chelsea Payne <i>Cliff Wright</i>		Attention:	
Address: 8025 Excelsior Drive		Copy To:		Company Name:	
Madison, WI 53717		Purchase Order #:		Address: <i>see pg 1</i>	
Email: cpayne@gfnet.com		Project Name: 34283.000 NPI		Pace Quote:	
Phone: NONE Fax:		Project #:		Pace Project Manager: dan.milewsky@pacelabs.com,	
Requested Due Date:				Pace Profile #:	
				Regulatory Agency:	
				State / Location:	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Metals	VOC 8260	Trip BLANK	PFAS by 537				
				DATE	TIME	DATE	TIME																			
1	MW-77A	WT		6/19/18	7:50			3																		034
2	MW-77A dup				7:52																					035
3	MW-77B				7:48																					036
4	MW-77C				7:45																					037
5	MH-15				7:30			3																		038
6	Trip Blank							2																		039
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>Chelsea Payne / GF</i>	6/19/18	18:00	<i>Susan H. Taylor / GF</i>	6/19/18	09:13	RET	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Chelsea Payne</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed:	6/19/18		

Sample Preservation Receipt Form

Client Name: Gannett Fleming Project # 40171242

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC
001																	3															2.5 / 5 / 10
002																	3															2.5 / 5 / 10
003																	2															2.5 / 5 / 10
004																	3															2.5 / 5 / 10
005																	3															2.5 / 5 / 10
006																	3															2.5 / 5 / 10
007																	3															2.5 / 5 / 10
008																	3															2.5 / 5 / 10
009																	3															2.5 / 5 / 10
010																	3															2.5 / 5 / 10
011																	3															2.5 / 5 / 10
012																	3															2.5 / 5 / 10
013																	3															2.5 / 5 / 10
014																	3															2.5 / 5 / 10
015																	3															2.5 / 5 / 10
016																	3															2.5 / 5 / 10
017																	3															2.5 / 5 / 10
018																	3															2.5 / 5 / 10
019																	3															2.5 / 5 / 10
020																	3															2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

Client Name: Gannett Fleming Sample Preservation Receipt Form
 Project #: 40171242

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN		
021																	9																		2.5 / 5 / 10
022																	3																		2.5 / 5 / 10
023																	3																		2.5 / 5 / 10
024																	3																		2.5 / 5 / 10
025																	3																		2.5 / 5 / 10
026																	3																		2.5 / 5 / 10
027																	3																		2.5 / 5 / 10
028																	3																		2.5 / 5 / 10
029																	3																		2.5 / 5 / 10
030																	3																		2.5 / 5 / 10
031																	3																		2.5 / 5 / 10
032																	9																		2.5 / 5 / 10
033																	3																		2.5 / 5 / 10
034																	3																		2.5 / 5 / 10
035																	3																		2.5 / 5 / 10
036																	3																		2.5 / 5 / 10
037																	3																		2.5 / 5 / 10
038																	3																		2.5 / 5 / 11
039																	2																		2.5 / 5 / 12
																																			2.5 / 5 / 13
																																			2.5 / 5 / 14
																																			2.5 / 5 / 15
																																			2.5 / 5 / 16
																																			2.5 / 5 / 17
																																			2.5 / 5 / 18
																																			2.5 / 5 / 19
																																			2.5 / 5 / 20
																																			2.5 / 5 / 21
																																			2.5 / 5 / 22
																																			2.5 / 5 / 23

Sample Condition Upon Receipt Form (SCUR)

Client Name: Garnett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: **WO# : 40171242**



Tracking #: 871812170021; 871812170010

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other cardboard 6-21-18 SW
Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDI /Corr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 6-21-18
 Initials: SW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Client crossed out analysis on COC, 6-21-18 SW</u>
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 6/21/18

July 03, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #34283.000
NPI Q2 GW
Reviewed by CCW
7/3/18

RE: Project: 34283.000 NPI
Pace Project No.: 40171347

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40171347

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40171347

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171347001	EC-1	Water	06/20/18 09:05	06/22/18 09:05
40171347002	EC-1 DUP	Water	06/20/18 09:05	06/22/18 09:05
40171347003	EC-2	Water	06/20/18 09:10	06/22/18 09:05
40171347004	EC-6	Water	06/20/18 09:00	06/22/18 09:05
40171347005	MW-34B	Water	06/20/18 12:50	06/22/18 09:05
40171347006	MW-34C	Water	06/20/18 12:55	06/22/18 09:05
40171347007	MW-51B	Water	06/20/18 10:10	06/22/18 09:05
40171347008	MW-52A	Water	06/20/18 10:30	06/22/18 09:05
40171347009	MW-52B	Water	06/20/18 10:35	06/22/18 09:05
40171347010	MW-53B	Water	06/20/18 10:50	06/22/18 09:05
40171347011	MW-54B	Water	06/20/18 11:05	06/22/18 09:05
40171347012	MW-54C	Water	06/20/18 11:10	06/22/18 09:05
40171347013	MW-55B	Water	06/20/18 11:30	06/22/18 09:05
40171347014	MW-55C	Water	06/20/18 11:35	06/22/18 09:05
40171347015	TRIP BLANK	Water	06/20/18 00:00	06/22/18 09:05
40171347016	MW-10A	Water	06/21/18 07:30	06/22/18 09:05
40171347017	MW-34A	Water	06/21/18 08:00	06/22/18 09:05
40171347018	MW-70A	Water	06/21/18 07:40	06/22/18 09:05
40171347019	TRIP BLANK	Water	06/21/18 00:00	06/22/18 09:05

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40171347

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171347001	EC-1	EPA 8260	LAP	8	PASI-G
40171347002	EC-1 DUP	EPA 8260	LAP	8	PASI-G
40171347003	EC-2	EPA 8260	LAP	8	PASI-G
40171347004	EC-6	EPA 8260	LAP	8	PASI-G
40171347005	MW-34B	EPA 8260	LAP	8	PASI-G
40171347006	MW-34C	EPA 8260	LAP	8	PASI-G
40171347007	MW-51B	EPA 8260	LAP	8	PASI-G
40171347008	MW-52A	EPA 8260	HNW	8	PASI-G
40171347009	MW-52B	EPA 8260	LAP	8	PASI-G
40171347010	MW-53B	EPA 8260	LAP	8	PASI-G
40171347011	MW-54B	EPA 8260	LAP	8	PASI-G
40171347012	MW-54C	EPA 8260	LAP	8	PASI-G
40171347013	MW-55B	EPA 8260	LAP	8	PASI-G
40171347014	MW-55C	EPA 8260	LAP	8	PASI-G
40171347015	TRIP BLANK	EPA 8260	HNW	8	PASI-G
40171347016	MW-10A	EPA 6010	JLD	1	PASI-G
40171347017	MW-34A	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40171347018	MW-70A	EPA 8260	LAP	8	PASI-G
40171347019	TRIP BLANK	EPA 8260	HNW	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40171347

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40171347001	EC-1					
EPA 8260	Trichloroethene	0.86J	ug/L	1.0	06/26/18 11:28	
40171347002	EC-1 DUP					
EPA 8260	Trichloroethene	1.5	ug/L	1.0	06/26/18 11:51	
40171347007	MW-51B					
EPA 8260	Trichloroethene	4.0	ug/L	1.0	06/26/18 13:43	
40171347008	MW-52A					
EPA 8260	Trichloroethene	3.2	ug/L	1.0	06/25/18 18:36	
40171347009	MW-52B					
EPA 8260	Trichloroethene	3.5	ug/L	1.0	06/26/18 14:06	
40171347010	MW-53B					
EPA 8260	Trichloroethene	3.4	ug/L	1.0	06/26/18 14:28	
40171347011	MW-54B					
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/26/18 15:01	
40171347012	MW-54C					
EPA 8260	1,1,1-Trichloroethane	0.53J	ug/L	1.0	06/26/18 15:24	
EPA 8260	Trichloroethene	4.0	ug/L	1.0	06/26/18 15:24	
40171347013	MW-55B					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	06/27/18 08:23	
40171347016	MW-10A					
EPA 6010	Cadmium, Dissolved	18.4	ug/L	5.0	06/26/18 18:59	
40171347017	MW-34A					
EPA 6010	Cadmium, Dissolved	7.8	ug/L	5.0	06/26/18 19:01	
40171347018	MW-70A					
EPA 8260	1,1-Dichloroethane	0.44J	ug/L	1.0	06/27/18 09:44	
EPA 8260	Trichloroethene	0.51J	ug/L	1.0	06/27/18 09:44	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40171347

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: July 03, 2018

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40171347

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: July 03, 2018

General Information:

18 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: EC-1 **Lab ID:** 40171347001 Collected: 06/20/18 09:05 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 11:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 11:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 11:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 11:28	127-18-4	
Trichloroethene	0.86J	ug/L	1.0	0.33	1		06/26/18 11:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/26/18 11:28	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/26/18 11:28	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/26/18 11:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: EC-1 DUP **Lab ID: 40171347002** Collected: 06/20/18 09:05 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 11:51	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 11:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 11:51	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 11:51	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		06/26/18 11:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 11:51	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/18 11:51	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/26/18 11:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: EC-2 **Lab ID: 40171347003** Collected: 06/20/18 09:10 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 12:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 12:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 12:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 12:13	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/18 12:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/26/18 12:13	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/18 12:13	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/26/18 12:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: EC-6 **Lab ID: 40171347004** Collected: 06/20/18 09:00 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 12:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 12:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 12:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 12:36	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/18 12:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/26/18 12:36	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		06/26/18 12:36	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/26/18 12:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-34B **Lab ID: 40171347005** Collected: 06/20/18 12:50 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 12:58	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 12:58	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 12:58	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 12:58	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/18 12:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/26/18 12:58	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/18 12:58	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/26/18 12:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-34C **Lab ID: 40171347006** Collected: 06/20/18 12:55 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 13:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 13:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 13:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 13:21	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/26/18 13:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 13:21	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/18 13:21	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/26/18 13:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-51B **Lab ID: 40171347007** Collected: 06/20/18 10:10 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 13:43	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 13:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 13:43	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 13:43	127-18-4	
Trichloroethene	4.0	ug/L	1.0	0.33	1		06/26/18 13:43	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 13:43	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/26/18 13:43	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/26/18 13:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-52A **Lab ID: 40171347008** Collected: 06/20/18 10:30 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 18:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 18:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 18:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 18:36	127-18-4	
Trichloroethene	3.2	ug/L	1.0	0.33	1		06/25/18 18:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/25/18 18:36	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/25/18 18:36	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/25/18 18:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-52B **Lab ID: 40171347009** Collected: 06/20/18 10:35 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 14:06	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 14:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 14:06	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 14:06	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.33	1		06/26/18 14:06	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/26/18 14:06	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/26/18 14:06	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/26/18 14:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-53B **Lab ID: 40171347010** Collected: 06/20/18 10:50 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 14:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 14:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 14:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 14:28	127-18-4	
Trichloroethene	3.4	ug/L	1.0	0.33	1		06/26/18 14:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 14:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/26/18 14:28	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/26/18 14:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-54B **Lab ID: 40171347011** Collected: 06/20/18 11:05 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/26/18 15:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 15:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 15:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 15:01	127-18-4	
Trichloroethene	3.6	ug/L	1.0	0.33	1		06/26/18 15:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/26/18 15:01	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/26/18 15:01	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/26/18 15:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-54C **Lab ID: 40171347012** Collected: 06/20/18 11:10 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.53J	ug/L	1.0	0.50	1		06/26/18 15:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/18 15:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/26/18 15:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/26/18 15:24	127-18-4	
Trichloroethene	4.0	ug/L	1.0	0.33	1		06/26/18 15:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/26/18 15:24	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/26/18 15:24	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		06/26/18 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-55B **Lab ID: 40171347013** Collected: 06/20/18 11:30 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/27/18 08:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/27/18 08:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/27/18 08:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/27/18 08:23	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		06/27/18 08:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/27/18 08:23	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		06/27/18 08:23	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		06/27/18 08:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-55C **Lab ID: 40171347014** Collected: 06/20/18 11:35 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/27/18 08:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/27/18 08:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/27/18 08:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/27/18 08:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/27/18 08:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/27/18 08:46	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/27/18 08:46	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/27/18 08:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: TRIP BLANK **Lab ID: 40171347015** Collected: 06/20/18 00:00 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 18:58	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 18:58	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 18:58	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 18:58	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/25/18 18:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/25/18 18:58	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/25/18 18:58	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/25/18 18:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-10A **Lab ID: 40171347016** Collected: 06/21/18 07:30 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	18.4	ug/L	5.0	1.3	1		06/26/18 18:59	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-34A **Lab ID: 40171347017** Collected: 06/21/18 08:00 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	7.8	ug/L	5.0	1.3	1		06/26/18 19:01	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/27/18 09:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/27/18 09:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/27/18 09:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/27/18 09:21	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/27/18 09:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/27/18 09:21	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/27/18 09:21	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/27/18 09:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: MW-70A **Lab ID: 40171347018** Collected: 06/21/18 07:40 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/27/18 09:44	71-55-6	
1,1-Dichloroethane	0.44J	ug/L	1.0	0.24	1		06/27/18 09:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/27/18 09:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/27/18 09:44	127-18-4	
Trichloroethene	0.51J	ug/L	1.0	0.33	1		06/27/18 09:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/27/18 09:44	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/27/18 09:44	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		06/27/18 09:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40171347

Sample: TRIP BLANK **Lab ID: 40171347019** Collected: 06/21/18 00:00 Received: 06/22/18 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/25/18 19:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/18 19:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/25/18 19:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/25/18 19:21	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/25/18 19:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/25/18 19:21	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/25/18 19:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/25/18 19:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40171347

QC Batch: 292900 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40171347016, 40171347017

METHOD BLANK: 1712479 Matrix: Water
Associated Lab Samples: 40171347016, 40171347017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	06/26/18 18:02	

LABORATORY CONTROL SAMPLE: 1712480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	508	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1712481 1712482

Parameter	Units	40171235001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Cadmium, Dissolved	ug/L	<5.0	500	500	519	522	104	104	75-125	1	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40171347

QC Batch: 292678 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40171347001, 40171347002, 40171347003, 40171347004, 40171347005, 40171347006, 40171347007, 40171347008, 40171347009, 40171347010, 40171347011, 40171347012, 40171347013, 40171347014, 40171347015, 40171347017, 40171347018, 40171347019

METHOD BLANK: 1711693 Matrix: Water
Associated Lab Samples: 40171347001, 40171347002, 40171347003, 40171347004, 40171347005, 40171347006, 40171347007, 40171347008, 40171347009, 40171347010, 40171347011, 40171347012, 40171347013, 40171347014, 40171347015, 40171347017, 40171347018, 40171347019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/25/18 17:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/25/18 17:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/25/18 17:06	
Tetrachloroethene	ug/L	<0.50	1.0	06/25/18 17:06	
Trichloroethene	ug/L	<0.33	1.0	06/25/18 17:06	
4-Bromofluorobenzene (S)	%	97	70-130	06/25/18 17:06	
Dibromofluoromethane (S)	%	103	70-130	06/25/18 17:06	
Toluene-d8 (S)	%	95	70-130	06/25/18 17:06	

LABORATORY CONTROL SAMPLE: 1711694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-133	
1,1-Dichloroethane	ug/L	50	53.1	106	70-134	
1,1-Dichloroethene	ug/L	50	52.4	105	75-132	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1711695 1711696

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40171347008 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	56.4	54.3	113	109	70-136	4	20
1,1-Dichloroethane	ug/L	<0.24	50	50	56.7	54.5	113	109	70-139	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	54.4	53.3	109	107	72-137	2	20
Tetrachloroethene	ug/L	<0.50	50	50	57.1	54.2	114	108	70-132	5	20
Trichloroethene	ug/L	3.2	50	50	57.7	57.4	109	108	70-131	1	20
4-Bromofluorobenzene (S)	%						98	100	70-130		
Dibromofluoromethane (S)	%						101	98	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40171347

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40171347

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171347016	MW-10A	EPA 6010	292900		
40171347017	MW-34A	EPA 6010	292900		
40171347001	EC-1	EPA 8260	292678		
40171347002	EC-1 DUP	EPA 8260	292678		
40171347003	EC-2	EPA 8260	292678		
40171347004	EC-6	EPA 8260	292678		
40171347005	MW-34B	EPA 8260	292678		
40171347006	MW-34C	EPA 8260	292678		
40171347007	MW-51B	EPA 8260	292678		
40171347008	MW-52A	EPA 8260	292678		
40171347009	MW-52B	EPA 8260	292678		
40171347010	MW-53B	EPA 8260	292678		
40171347011	MW-54B	EPA 8260	292678		
40171347012	MW-54C	EPA 8260	292678		
40171347013	MW-55B	EPA 8260	292678		
40171347014	MW-55C	EPA 8260	292678		
40171347015	TRIP BLANK	EPA 8260	292678		
40171347017	MW-34A	EPA 8260	292678		
40171347018	MW-70A	EPA 8260	292678		
40171347019	TRIP BLANK	EPA 8260	292678		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40171347

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**Section A
Required Client Information:**

Company: Gannett Fleming Inc.
Address: 8025 Excelsior Drive
Madison, WI 53717
Email: cpayne@gnf.com cwright@gnf.com
Phone: NONE Fax:
Requested Due Date:

**Section B
Required Project Information:**

Report To: Chelsea Payne Cliff Wright
Copy To:
Purchase Order #:
Project Name: 34283.000 NPI
Project #:

**Section C
Invoice Information:**

Attention: Cliff Wright
Company Name: Gannett Fleming
Address: 8025 Excelsior Dr, Madison, WI 53717
Pace Quote: PACE 2018
Pace Project Manager: dan.milewsky@pacelabs.com
Pace Profile #:

Page: 1 Of 2

Regulatory Agency
State / Location

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX CODE <small>Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)					
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Metals	VOC 8260	TriP BLANK		PFAS by 537				
																					DATE	TIME	DATE	TIME
			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)																				
1	EC-1		6-20-18	9:05		3					X													Sand copy of Level IV data package to Mary Gannon for validation
2	EC-1 dup		6-20-18	"																				001
3	EC-2			9:10																				002
4	EC-6			9:00																				003
5	MW-34B			12:50																				004
6	MW-34C			12:55																				005
7	MW-51B			10:10		3																		006
8	MW-52A			10:30		9																		007
9	MW-52B			10:35		3																		008
10	MW-53B			10:50																				009
11	MW-54B			11:05																				010
12	MW-54C			11:10																				011
																								012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Cliff Wright / GF	6-21-18	10:00				
	Jed Ay	6-22-18	0905	Jessica Wylie / GF	6-22-18	0905	3 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chelsea Payne
SIGNATURE of SAMPLER: *[Signature]*
DATE Signed: 6-21-18

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40171347

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Gannett Fleming Inc.	Report To: <i>Chelsea Payne - Cliff Wright</i>	Attention:			
Address: 8025 Excelsior Drive	Copy To:	Company Name:			
Madison, WI 53717		Address:	<i>see pg 1</i>	Regulatory Agency	
Email: <i>cpayne@gfmet.com cwright@pfmed.com</i>	Purchase Order #:	Pace Quote:		State / Location	
Phone: NONE Fax:	Project Name: 34283.000 NPI	Pace Project Manager: dan.milewsky@pacelabs.com,			
Requested Due Date:	Project #:	Pace Profile #:			

Page: 2 Of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)								
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Metals	VOC 8260	Trip BLANK	PFAS by 537											
					DATE	TIME	DATE	TIME																										
1	MW-SSB				6/20/18	11:30			3				X						X														013	
2	MW-SSC				↓	11:35	↓	↓	3				X						X														014	
3	MW Trip Blank				↓		↓	↓	2				X						X													015		
4	MW-10A				6/21/18	7:30			1	X									X													016		
5	MW-34A				↓	8:00	↓	↓	4	X	X								X	X												017		
6	MW-70A				↓	7:40	↓	↓	3				X						X													018		
7	Trip Blank				6/21/18		↓	↓	2				X						X													019		
8																																		
9																																		
10																																		
11																																		
12																																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
		<i>Mike Dye / GF</i>		6/21/18		<i>Suzanne Wylie / Pace</i>		6/21/18	0905	3	Y	Y	Y
		<i>Fred Sx</i>		6/22/18									

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Chelsea Payne</i>		DATE Signed: <i>6-21-18</i>	
SIGNATURE of SAMPLER: <i>CP</i>			

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples intact (Y/N)

Client Name: Gannett Heming Sample Preservation Receipt Form Project # 40121347

All containers needing preservation have been checked and noted below Yes No N/A

Initial when completed: [Signature] Date/Time:

Lab Lot# of pH paper: 10051771 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)	
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU
001																														2.5 / 5 / 10
002																														2.5 / 5 / 10
003																														2.5 / 5 / 10
004																														2.5 / 5 / 10
005																														2.5 / 5 / 10
006																														2.5 / 5 / 10
007																														2.5 / 5 / 10
008																														2.5 / 5 / 10
009																														2.5 / 5 / 10
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014																														2.5 / 5 / 10
015																														2.5 / 5 / 10
016																														2.5 / 5 / 10
017																														2.5 / 5 / 10
018																														2.5 / 5 / 10
019																														2.5 / 5 / 10
020																														2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: **WO# : 40171347**



Tracking #: 871812170032
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other cardboard
Thermometer Used SR - 9 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 2.5 / Corr: 3

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 6-22-18
Initials: AW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No project state</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>395</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ **Date/Time:** _____
Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 6/22/18



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40171347

CW

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Gannett Fleming Inc.		Report To: Chelsea Payne <i>Cliff Wright</i>		Attention: <i>Cliff Wright</i>	
Address: 8025 Excelsior Drive		Copy To:		Company Name: Gannett Fleming	
Madison, WI 53717				Address: <i>8025 Excelsior Dr, Madison, WI 53717</i>	
Email: <i>cpayne@gnf.com</i> <i>carwright@gnf.com</i>		Purchase Order #:		Pace Quote: <i>PACE 2018</i>	
Phone: NONE Fax:		Project Name: 34283.000 NPI		Pace Project Manager: dan.milewsky@pacelabs.com	
Requested Due Date:		Project #:		Pace Profile #:	
Regulatory Agency					
State / Location					

ITEM #	SAMPLE ID (A-Z, 0-9/, -) Sample Ids must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	MATRIX CODE (see valid codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test											
				DATE	TIME	DATE	TIME											Metals	VOC 8260		TriP BLANK	PFAS by 537							
1	EC.1			6-20-18	9:05	---	---	3					X																
2	EC.1 dup			6-20-18	"																								
3	EC.2				9:10																								
4	EC.6				9:00																								
5	MW.34B				12:50																								
6	MW.34C				12:55			↓																					
7	MW.51B				10:10			3																					
8	MW.52A				10:30			9																					
9	MW.52B				10:35			3																					
10	MW.53B				10:50			↓																					
11	MW.54B				11:05			↓																					
12	MW.54C				11:10			↓																					

Send copy of Level IV data package to Mary Gramon for validation

MS/MSD

001
002
003
004
005
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008
009
010
011
012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<i>Cheryl Payne / GF</i>	6-21-18	10:00								
	<i>Fred Payne</i>	6-22-18	0905	<i>Jusant, Wynne Pau</i>	6-22-18	0905	3	Y	Y	Y	

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>Chelsea Payne</i>
SIGNATURE of SAMPLER:	<i>Chelsea Payne</i>
DATE Signed:	6-21-18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40171347

Section A

Required Client Information:

Company: Gannett Fleming Inc.
 Address: 8025 Excelsior Drive
 Madison, WI 53717
 Email: cpayne@gfnet.com cwright@pacelabs.com
 Phone: NONE Fax:
 Requested Due Date:

Section B

Required Project Information:

Report To: Chelsea Payne - Cliff Wright
 Copy To:
 Purchase Order #:
 Project Name: 34283.000 NPI
 Project #:

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: dan.milewsky@pacelabs.com
 Pace Profile #:

Page : 2	Of 2
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Regulatory Agency
 State / Location

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test Metals VOC 8260 Trip BLANK PFAS by 537	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other			
						DATE	TIME	DATE	TIME																
1	MW-SSB					6/20/18	11:30			3			X												
2	MW-SSC					↓	11:35	↓	↓	3			X												013
3	MW Trip Blank					↓		↓	↓	2			X				X								014
4	MW-10A					6/21/18	7:30			1		X					X								015
5	MW-34A					↓	8:00	↓	↓	4		X	X				X	X							016
6	MW-70A					↓	7:40	↓	↓	3			X				X								017
7	Trip Blank					6/21/18		↓	↓	2			X				X								018
8																									019

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Michelle / GF	6/21/18		Suzanne / Pace	6/21/18	0905	3	Y	Y	Y
	Fred / GF	6/22/18								

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Chelsea Payne
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 6-21-18

TEMP in C
 Received on
 Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples intact (Y/N)

Client Name: Gannett Heming Sample Preservation Receipt Form
Project # 40171347

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed: SKW Date/Time:

Lab Lot# of pH paper: 10051771 Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass						Plastic						Vials			Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU								WGFU	WPFU	SP5T	ZPLC	GN	
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: **WO# : 40171347**



Tracking #: 871812170032
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other cardboard
Thermometer Used SR - 9 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 2.5 / Corr: 3

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 6-22-18
Initials: AW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No project state</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>395</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 6/22/18

August 22, 2018

Project #34283.000
NPI Q3 GW (1 of 4)
Reviewed by CCW
8/23/18

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40174216

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 17, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174216001	EW-6	Water	08/14/18 13:20	08/17/18 09:35
40174216002	EW-6 DUP	Water	08/14/18 13:20	08/17/18 09:35
40174216003	MW-4A	Water	08/14/18 12:20	08/17/18 09:35
40174216004	MW-4B	Water	08/14/18 12:30	08/17/18 09:35
40174216005	MW-10A	Water	08/14/18 08:50	08/17/18 09:35
40174216006	MW-10B	Water	08/14/18 08:00	08/17/18 09:35
40174216007	MW-34A	Water	08/14/18 08:25	08/17/18 09:35
40174216008	MW-34B	Water	08/14/18 10:07	08/17/18 09:35
40174216009	MW-34C	Water	08/14/18 10:06	08/17/18 09:35
40174216010	MW-68A	Water	08/14/18 11:45	08/17/18 09:35
40174216011	MW-68B	Water	08/14/18 12:00	08/17/18 09:35
40174216012	MW-70A	Water	08/14/18 08:10	08/17/18 09:35
40174216013	MW-70B	Water	08/14/18 10:00	08/17/18 09:35
40174216014	MW-75	Water	08/14/18 10:25	08/17/18 09:35
40174216015	MW-76A	Water	08/14/18 13:30	08/17/18 09:35
40174216016	MW-77A	Water	08/14/18 12:35	08/17/18 09:35
40174216017	MW-77A DUP	Water	08/14/18 12:35	08/17/18 09:35
40174216018	MW-77B	Water	08/14/18 12:40	08/17/18 09:35
40174216020	TRIP BLANK	Water	08/14/18 00:00	08/17/18 09:35
40174216021	EC-1	Water	08/14/18 09:30	08/17/18 09:35

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SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174216001	EW-6	EPA 8260	LAP	8	PASI-G
40174216002	EW-6 DUP	EPA 8260	LAP	8	PASI-G
40174216003	MW-4A	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216004	MW-4B	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216005	MW-10A	EPA 6010	AJT	1	PASI-G
40174216006	MW-10B	EPA 6010	AJT	1	PASI-G
40174216007	MW-34A	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216008	MW-34B	EPA 6010	AJT	1	PASI-G
40174216009	MW-34C	EPA 6010	AJT	1	PASI-G
40174216010	MW-68A	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216011	MW-68B	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216012	MW-70A	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216013	MW-70B	EPA 6010	AJT	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40174216014	MW-75	EPA 6010	AJT	1	PASI-G
40174216015	MW-76A	EPA 8260	LAP	8	PASI-G
40174216016	MW-77A	EPA 8260	LAP	8	PASI-G
40174216017	MW-77A DUP	EPA 8260	LAP	8	PASI-G
40174216018	MW-77B	EPA 8260	LAP	8	PASI-G
40174216020	TRIP BLANK	EPA 8260	LAP	8	PASI-G
40174216021	EC-1	EPA 8260	LAP	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40174216

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40174216001	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.1	ug/L	1.0	08/20/18 12:17	
EPA 8260	Trichloroethene	0.79J	ug/L	1.0	08/20/18 12:17	
40174216002	EW-6 DUP					
EPA 8260	1,1,1-Trichloroethane	0.96J	ug/L	1.0	08/20/18 12:40	
EPA 8260	Trichloroethene	0.70J	ug/L	1.0	08/20/18 12:40	
40174216004	MW-4B					
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	08/21/18 09:31	
40174216005	MW-10A					
EPA 6010	Cadmium, Dissolved	17.9	ug/L	5.0	08/21/18 17:29	
40174216007	MW-34A					
EPA 6010	Cadmium, Dissolved	6.0	ug/L	5.0	08/21/18 17:34	
40174216008	MW-34B					
EPA 6010	Cadmium, Dissolved	1.8J	ug/L	5.0	08/21/18 17:37	
40174216010	MW-68A					
EPA 8260	Trichloroethene	0.40J	ug/L	1.0	08/20/18 13:03	
40174216011	MW-68B					
EPA 6010	Cadmium, Dissolved	3.2J	ug/L	5.0	08/21/18 17:44	
EPA 8260	Trichloroethene	0.27J	ug/L	1.0	08/20/18 13:26	
40174216012	MW-70A					
EPA 8260	Trichloroethene	0.52J	ug/L	1.0	08/20/18 13:48	
40174216013	MW-70B					
EPA 6010	Cadmium, Dissolved	3.4J	ug/L	5.0	08/21/18 17:49	
40174216014	MW-75					
EPA 6010	Cadmium, Dissolved	2.4J	ug/L	5.0	08/21/18 17:56	
40174216015	MW-76A					
EPA 8260	1,1,1-Trichloroethane	2.2	ug/L	1.0	08/20/18 11:32	
EPA 8260	Tetrachloroethene	0.60J	ug/L	1.1	08/20/18 11:32	
EPA 8260	Trichloroethene	0.36J	ug/L	1.0	08/20/18 11:32	
40174216016	MW-77A					
EPA 8260	1,1,1-Trichloroethane	0.29J	ug/L	1.0	08/20/18 12:37	
EPA 8260	Trichloroethene	0.64J	ug/L	1.0	08/20/18 12:37	
40174216017	MW-77A DUP					
EPA 8260	Trichloroethene	0.68J	ug/L	1.0	08/20/18 12:59	
40174216018	MW-77B					
EPA 8260	1,1,1-Trichloroethane	0.38J	ug/L	1.0	08/20/18 13:22	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	08/20/18 13:22	
40174216021	EC-1					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	08/20/18 12:14	

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: August 22, 2018

General Information:

12 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40174216

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: August 22, 2018

General Information:

15 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: EW-6 **Lab ID: 40174216001** Collected: 08/14/18 13:20 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.24	1		08/20/18 12:17	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 12:17	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 12:17	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 12:17	127-18-4	
Trichloroethene	0.79J	ug/L	1.0	0.26	1		08/20/18 12:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/20/18 12:17	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		08/20/18 12:17	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		08/20/18 12:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: EW-6 DUP **Lab ID: 40174216002** Collected: 08/14/18 13:20 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.96J	ug/L	1.0	0.24	1		08/20/18 12:40	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 12:40	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 12:40	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 12:40	127-18-4	
Trichloroethene	0.70J	ug/L	1.0	0.26	1		08/20/18 12:40	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/20/18 12:40	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		08/20/18 12:40	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		08/20/18 12:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-4A **Lab ID: 40174216003** Collected: 08/14/18 12:20 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:20	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/21/18 09:09	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 09:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/21/18 09:09	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/21/18 09:09	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/21/18 09:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/21/18 09:09	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		08/21/18 09:09	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		08/21/18 09:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-4B **Lab ID: 40174216004** Collected: 08/14/18 12:30 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:27	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/21/18 09:31	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/21/18 09:31	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/21/18 09:31	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/21/18 09:31	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.26	1		08/21/18 09:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/21/18 09:31	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		08/21/18 09:31	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/21/18 09:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-10A **Lab ID: 40174216005** Collected: 08/14/18 08:50 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	17.9	ug/L	5.0	1.3	1		08/21/18 17:29	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-10B **Lab ID: 40174216006** Collected: 08/14/18 08:00 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:32	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-34A **Lab ID: 40174216007** Collected: 08/14/18 08:25 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	6.0	ug/L	5.0	1.3	1		08/21/18 17:34	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 14:11	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 14:11	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 14:11	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 14:11	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/20/18 14:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/20/18 14:11	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		08/20/18 14:11	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		08/20/18 14:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-34B **Lab ID: 40174216008** Collected: 08/14/18 10:07 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	1.8J	ug/L	5.0	1.3	1		08/21/18 17:37	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-34C **Lab ID: 40174216009** Collected: 08/14/18 10:06 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:39	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-68A **Lab ID: 40174216010** Collected: 08/14/18 11:45 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:42	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 13:03	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 13:03	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 13:03	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 13:03	127-18-4	
Trichloroethene	0.40J	ug/L	1.0	0.26	1		08/20/18 13:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/20/18 13:03	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		08/20/18 13:03	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		08/20/18 13:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-68B **Lab ID: 40174216011** Collected: 08/14/18 12:00 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	3.2J	ug/L	5.0	1.3	1		08/21/18 17:44	7440-43-9	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 13:26	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 13:26	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 13:26	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 13:26	127-18-4	
Trichloroethene	0.27J	ug/L	1.0	0.26	1		08/20/18 13:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		08/20/18 13:26	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		08/20/18 13:26	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		08/20/18 13:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-70A **Lab ID: 40174216012** Collected: 08/14/18 08:10 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/21/18 17:47	7440-43-9	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 13:48	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 13:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 13:48	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 13:48	127-18-4	
Trichloroethene	0.52J	ug/L	1.0	0.26	1		08/20/18 13:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/20/18 13:48	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		08/20/18 13:48	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/20/18 13:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-70B **Lab ID: 40174216013** Collected: 08/14/18 10:00 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	3.4J	ug/L	5.0	1.3	1		08/21/18 17:49	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 14:34	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 14:34	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 14:34	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 14:34	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/20/18 14:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/20/18 14:34	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		08/20/18 14:34	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/20/18 14:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-75 **Lab ID: 40174216014** Collected: 08/14/18 10:25 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	2.4J	ug/L	5.0	1.3	1		08/21/18 17:56	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-76A **Lab ID: 40174216015** Collected: 08/14/18 13:30 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	2.2	ug/L	1.0	0.24	1		08/20/18 11:32	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 11:32	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 11:32	75-35-4	
Tetrachloroethene	0.60J	ug/L	1.1	0.33	1		08/20/18 11:32	127-18-4	
Trichloroethene	0.36J	ug/L	1.0	0.26	1		08/20/18 11:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/20/18 11:32	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		08/20/18 11:32	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/20/18 11:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-77A **Lab ID: 40174216016** Collected: 08/14/18 12:35 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.29J	ug/L	1.0	0.24	1		08/20/18 12:37	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 12:37	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 12:37	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 12:37	127-18-4	
Trichloroethene	0.64J	ug/L	1.0	0.26	1		08/20/18 12:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		08/20/18 12:37	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		08/20/18 12:37	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/20/18 12:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-77A DUP **Lab ID: 40174216017** Collected: 08/14/18 12:35 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 12:59	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 12:59	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 12:59	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 12:59	127-18-4	
Trichloroethene	0.68J	ug/L	1.0	0.26	1		08/20/18 12:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		08/20/18 12:59	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		08/20/18 12:59	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/20/18 12:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: MW-77B **Lab ID: 40174216018** Collected: 08/14/18 12:40 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.38J	ug/L	1.0	0.24	1		08/20/18 13:22	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 13:22	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 13:22	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 13:22	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.26	1		08/20/18 13:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		08/20/18 13:22	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		08/20/18 13:22	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/20/18 13:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: TRIP BLANK **Lab ID: 40174216020** Collected: 08/14/18 00:00 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 11:52	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 11:52	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 11:52	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 11:52	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/20/18 11:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		08/20/18 11:52	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		08/20/18 11:52	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/20/18 11:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Sample: EC-1 **Lab ID:** 40174216021 Collected: 08/14/18 09:30 Received: 08/17/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/20/18 12:14	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/20/18 12:14	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/20/18 12:14	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/20/18 12:14	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.26	1		08/20/18 12:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		08/20/18 12:14	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		08/20/18 12:14	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/20/18 12:14	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
 Pace Project No.: 40174216

QC Batch: 297796 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Associated Lab Samples: 40174216003, 40174216004, 40174216005, 40174216006, 40174216007, 40174216008, 40174216009,
 40174216010, 40174216011, 40174216012, 40174216013, 40174216014

METHOD BLANK: 1739138 Matrix: Water
 Associated Lab Samples: 40174216003, 40174216004, 40174216005, 40174216006, 40174216007, 40174216008, 40174216009,
 40174216010, 40174216011, 40174216012, 40174216013, 40174216014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	08/21/18 17:07	

LABORATORY CONTROL SAMPLE: 1739139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1739140 1739141

Parameter	Units	40174284001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	<1.3	500	500	490	485	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40174216

QC Batch: 297581 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40174216001, 40174216002, 40174216003, 40174216004, 40174216007, 40174216010, 40174216011, 40174216012, 40174216013, 40174216015

METHOD BLANK: 1738410 Matrix: Water
Associated Lab Samples: 40174216001, 40174216002, 40174216003, 40174216004, 40174216007, 40174216010, 40174216011, 40174216012, 40174216013, 40174216015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/20/18 09:16	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/20/18 09:16	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/20/18 09:16	
Tetrachloroethene	ug/L	<0.33	1.1	08/20/18 09:16	
Trichloroethene	ug/L	<0.26	1.0	08/20/18 09:16	
4-Bromofluorobenzene (S)	%	92	70-130	08/20/18 09:16	
Dibromofluoromethane (S)	%	104	70-130	08/20/18 09:16	
Toluene-d8 (S)	%	103	70-130	08/20/18 09:16	

LABORATORY CONTROL SAMPLE: 1738411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-133	
1,1-Dichloroethane	ug/L	50	50.0	100	70-134	
1,1-Dichloroethene	ug/L	50	51.8	104	75-132	
Tetrachloroethene	ug/L	50	56.8	114	70-130	
Trichloroethene	ug/L	50	51.0	102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1738412 1738413

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40174216015	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	2.2	50	50	51.0	50.5	98	97	70-136	1	20
1,1-Dichloroethane	ug/L	<0.27	50	50	49.5	49.3	99	99	70-139	1	20
1,1-Dichloroethene	ug/L	<0.24	50	50	52.5	52.3	105	105	72-137	0	20
Tetrachloroethene	ug/L	0.60J	50	50	55.6	56.1	110	111	70-132	1	20
Trichloroethene	ug/L	0.36J	50	50	48.6	50.5	96	100	70-131	4	20
4-Bromofluorobenzene (S)	%						100	100	70-130		
Dibromofluoromethane (S)	%						98	95	70-130		
Toluene-d8 (S)	%						107	106	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40174216

QC Batch: 297583 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40174216016, 40174216017, 40174216018, 40174216020, 40174216021

METHOD BLANK: 1738416 Matrix: Water
Associated Lab Samples: 40174216016, 40174216017, 40174216018, 40174216020, 40174216021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/20/18 10:00	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/20/18 10:00	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/20/18 10:00	
Tetrachloroethene	ug/L	<0.33	1.1	08/20/18 10:00	
Trichloroethene	ug/L	<0.26	1.0	08/20/18 10:00	
4-Bromofluorobenzene (S)	%	89	70-130	08/20/18 10:00	
Dibromofluoromethane (S)	%	112	70-130	08/20/18 10:00	
Toluene-d8 (S)	%	93	70-130	08/20/18 10:00	

LABORATORY CONTROL SAMPLE: 1738417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.8	104	70-133	
1,1-Dichloroethane	ug/L	50	49.3	99	70-134	
1,1-Dichloroethene	ug/L	50	52.3	105	75-132	
Tetrachloroethene	ug/L	50	54.1	108	70-130	
Trichloroethene	ug/L	50	57.2	114	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1738418 1738419

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.3	52.8	103	106	70-136	3	20
1,1-Dichloroethane	ug/L	<0.27	50	50	52.2	52.8	104	106	70-139	1	20
1,1-Dichloroethene	ug/L	<0.24	50	50	51.7	52.3	103	105	72-137	1	20
Tetrachloroethene	ug/L	<0.33	50	50	55.5	55.2	111	110	70-132	0	20
Trichloroethene	ug/L	1.7	50	50	58.4	58.4	113	113	70-131	0	20
4-Bromofluorobenzene (S)	%						106	104	70-130		
Dibromofluoromethane (S)	%						98	100	70-130		
Toluene-d8 (S)	%						97	96	70-130		

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QUALIFIERS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40174216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174216003	MW-4A	EPA 6010	297796		
40174216004	MW-4B	EPA 6010	297796		
40174216005	MW-10A	EPA 6010	297796		
40174216006	MW-10B	EPA 6010	297796		
40174216007	MW-34A	EPA 6010	297796		
40174216008	MW-34B	EPA 6010	297796		
40174216009	MW-34C	EPA 6010	297796		
40174216010	MW-68A	EPA 6010	297796		
40174216011	MW-68B	EPA 6010	297796		
40174216012	MW-70A	EPA 6010	297796		
40174216013	MW-70B	EPA 6010	297796		
40174216014	MW-75	EPA 6010	297796		
40174216001	EW-6	EPA 8260	297581		
40174216002	EW-6 DUP	EPA 8260	297581		
40174216003	MW-4A	EPA 8260	297581		
40174216004	MW-4B	EPA 8260	297581		
40174216007	MW-34A	EPA 8260	297581		
40174216010	MW-68A	EPA 8260	297581		
40174216011	MW-68B	EPA 8260	297581		
40174216012	MW-70A	EPA 8260	297581		
40174216013	MW-70B	EPA 8260	297581		
40174216015	MW-76A	EPA 8260	297581		
40174216016	MW-77A	EPA 8260	297583		
40174216017	MW-77A DUP	EPA 8260	297583		
40174216018	MW-77B	EPA 8260	297583		
40174216020	TRIP BLANK	EPA 8260	297583		
40174216021	EC-1	EPA 8260	297583		

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Company Name:	Gannett Fleming, Inc.
Branch/Location:	Madison, WI
Project Contact:	Cliff Wright
Phone:	608/836-1500 x6722
Project Number:	34283.000
Project Name:	National Presto Industries (NPI)
Project State:	WI
Sampled By (Print):	Brett Seidlitz / <i>Chelsea Payne</i>
Sampled By (Sign):	<i>[Signature]</i>
PO #:	



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2
 COC No. 40174216

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	Pace 2018
Mail To Contact:	Cliff Wright
Mail To Company:	Gannett Fleming
Mail To Address:	8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact:	See "Mail to Contact" info above
Invoice To Company:	"
Invoice To Address:	See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone:	608/836-1500 x6722

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
-----------------	-----------------------------	-----------

Data Package Options (billable) <input type="checkbox"/> EPA Level III <input checked="" type="checkbox"/> EPA Level IV	MS/MSD <input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample	Matrix Codes A = Air W = Water B = Biota DW = Drinking Water C = Charcoal GW = Ground Water O = Oil SW = Surface Water S = Soil WW = Waste Water Sl = Sludge WP = Wipe
---	---	---

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
201	EW-6	8/14/18	13:20	GW
082	EW-6 dup		13:20	
203	MW-4A		12:20	
204	MW-4B		12:30	
205	MW-10A		8:50	
206	MW-10B		8:00	
207	MW-34A		8:25	
208	MW-34B		10:07	
209	MW-34C		10:06	
010	MW-68A		11:45	
011	MW-68B		12:00	
012	MW-70A		8:10	
013	MW-70B		10:00	

Y/N	N	Y									
	B	D									
Analyses Requested	NPI Short-list VOCs	Dissolved cadmium									

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>Chelsea Payne</i>	Date/Time: 8/16/18 10:00
Relinquished By: <i>[Signature]</i>	Date/Time: 8/17/18 09:35
Relinquished By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____

Received By: _____	Date/Time: _____
Received By: <i>[Signature]</i>	Date/Time: 8/17/18 09:35
Received By: _____	Date/Time: _____
Received By: _____	Date/Time: _____

PACE Project No. 40174216

Receipt Temp = 20.9 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2

COC No. 40174216

Page 34 of 39



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: National Presto Industries (NPI)
Project State: WI
Sampled By (Print): Brett Seidlitz
Sampled By (Sign): *[Signature]*
PO #:
Regulatory Program:

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	Y	Z															
	B	D	0															
Analyses Requested	NPI Short-list VOCs	Dissolved cadmium	Cadmium, lead, PAH, PCB															

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	Y	Z											
		DATE	TIME																
014	MW-75	8/14/18	10:25	GW															
015	MW-76A		13:30																
016	MW-77A		12:35																
017	MW-77A dup		"																
018	MW-77B		12:40																
019	MH-18		15:05																
020	Trip Bknk																		
021	EC-1		9:30																

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: *8-16-18*

Relinquished By: *[Signature]* Date/Time: *8-16-18 10:00*
 Received By: *[Signature]* Date/Time: *8/17/18 0835*

Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: *[Signature]* Date/Time: *8/17/18 0835*
 Received By: *[Signature]* Date/Time: *8/17/18 0835*

PACE Project No. 40174216
Receipt Temp = *POI* °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

Pace Container Order #386974

40174216

Addresses

Order By :	Ship To :	Return To:
Company <u>Gannett Fleming Inc.</u>	Company <u>National Presto</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Payne, Chelsea</u>	Contact <u>Brett Seidlitz</u>	Contact <u>Milewsky, Dan</u>
Email <u>cpayne@gfnet.com</u>	Email <u>cpayne@gfnet.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>8025 Excelsior Drive</u>	Address <u>3925 North Hastings Way</u>	Address <u>1241 Bellevue Street</u>
Address 2 _____	Address 2 _____	Address 2 <u>Suite 9</u>
City <u>Madison</u>	City <u>Eau Claire</u>	City <u>Green Bay</u>
State <u>WI</u> Zip <u>53717</u>	State <u>WI</u> Zip <u>54703</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>NONE</u>	Phone <u>(608) 286-8491</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>34283.000 NPI</u>	Due Date <u>08/08/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input type="checkbox"/> Blank <input checked="" type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper Number <input checked="" type="checkbox"/> With Shipper Number	Misc <input type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers <u>2</u> <input type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>3</u> <input checked="" type="checkbox"/> Pre-Printed <u>3</u>	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
13	WT	Metals	250mL plastic w/HNO3	13	0	M-8-103-04BB	Diss Cd
28	WT	VOC 8260	3-40ml clear vial HCl-hydrochloric acid	84	0	B-8-160-02VB	
2	WT	Trip BLANK	2-40mL HCL w/custody seal	4	0	B-8-034-01VB	
6	WT	PFAS by 537	shipping from MN	6	0		HDPE w/o trizma

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	<u>08/02/2018</u>
Prepared By:	<u>Mai Yer Her</u>
Verified By:	_____

Sample Preservation Receipt Form

Client Name: Garnett Fleming

Project # 40174214

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: 12250781 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: [Signature] Date/Time:

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN	
001																	3																	2.5 / 5 / 10
002																	3																2.5 / 5 / 10	
003																	3																2.5 / 5 / 10	
004												/					3														X		2.5 / 5 / 10	
005												/					3														X		2.5 / 5 / 10	
006												/					3														X		2.5 / 5 / 10	
007												/					3														X		2.5 / 5 / 10	
008												/					3														X		2.5 / 5 / 10	
009												/					3														X		2.5 / 5 / 10	
010												/					3														X		2.5 / 5 / 10	
011												/					3														X		2.5 / 5 / 10	
012												/					3														X		2.5 / 5 / 10	
013												/					3														X		2.5 / 5 / 10	
014												/					3														X		2.5 / 5 / 10	
015												/					3														X		2.5 / 5 / 10	
016												/					3																2.5 / 5 / 10	
017												/					3																2.5 / 5 / 10	
018												/					3																2.5 / 5 / 10	
019												/					3														X		2.5 / 5 / 10	
020												/					2																2.5 / 5 / 10	

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Client Name:


Gannett Fleming

Sample Preservation Receipt Form

Project #:

40174216

Pace Lab #	Glass							Plastic							Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH s2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH s2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T								ZPLC	GN		
<i>021</i>																																			2.5 / 5 / 10
																																		2.5 / 5 / 10	
																																		2.5 / 5 / 10	
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																																		2.5 / 5 / 17	
																																		2.5 / 5 / 18	
																																		2.5 / 5 / 19	
																																		2.5 / 5 / 20	
																																		2.5 / 5 / 21	
																																		2.5 / 5 / 22	
																																		2.5 / 5 / 23	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Garnett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: _____

WO#: 40174216



40174216

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
Custody Seal on Samples Present: yes no Seals intact: yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: P2 iCorr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 8/17/18
 Initials: [Signature]

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005-750 time</u>
-Includes date/time/ID/Analysis Matrix: <u>4</u>		<u>[Signature]</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>402</u>		

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: Ar for DM **Date:** 8/17/18

From: "Wright, Clifford C." <cwright@GFNET.com>
To: Dan Milewsky <Dan.Milewsky@pacelabs.com>
CC: "Payne, Chelsea J." <cpayne@GFNET.com>
Date: 8/20/2018 10:20 AM
Subject: RE: NPI, matrix spikes and MH-18 (40174216)

Dan- Given that the MH-18 priority pollutant samples will cover VOCs, PAHs, and cadmium, please cancel the duplicative order for MH-18, as you and I recently discussed.

From: Dan Milewsky <Dan.Milewsky@pacelabs.com>
Sent: Friday, August 17, 2018 3:57 PM
To: Wright, Clifford C. <cwright@GFNET.com>
Cc: Payne, Chelsea J. <cpayne@GFNET.com>
Subject: NPI, matrix spikes and MH-18 (40174216)

Cliff/Chelsea,

I've scheduled MS/MSD for MW-76A and EC-1. The COC didn't specify that, but we did receive the extra vials.

I have not scheduled metals yet for MH-18 as the COC was unclear which elements you need. PAH is not scheduled as we don't have the right container. Please note that we are running PAH and a long metals list on the MH-18 priority pollutant sample received earlier this week.

Dan Milewsky
Project Manager
Pace Analytical Services
1241 Bellevue Street
Green Bay, WI 54302
920.412-8566 (Direct/Cell) | 920.469.2436<tel:9204692436> (Green Bay Lab) |
www.pacelabs.com<http://www.pacelabs.com>

[X]

August 24, 2018

Project #34283.000
NPI Q3 GW (2 of 4)
Reviewed by CCW
8/27/18

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40174069

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40174069

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40174069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174069001	CW-15	Water	08/14/18 09:10	08/15/18 09:35
40174069002	CW-19	Water	08/14/18 09:13	08/15/18 09:35
40174069003	CW-22	Water	08/14/18 09:25	08/15/18 09:35
40174069004	CW-23	Water	08/14/18 09:20	08/15/18 09:35
40174069005	RAW	Water	08/14/18 09:05	08/15/18 09:35
40174069006	TOWER A	Water	08/14/18 09:02	08/15/18 09:35
40174069007	TOWER B	Water	08/14/18 09:00	08/15/18 09:35
40174069008	FINISHED PRODUCT	Water	08/14/18 08:50	08/15/18 09:35
40174069009	TRIP BLANK	Water	08/14/18 00:00	08/15/18 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40174069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174069001	CW-15	EPA 524.2	AEZ	8	PASI-M
40174069002	CW-19	EPA 524.2	AEZ	8	PASI-M
40174069003	CW-22	EPA 524.2	AEZ	8	PASI-M
40174069004	CW-23	EPA 524.2	AEZ	8	PASI-M
40174069005	RAW	EPA 524.2	AEZ	8	PASI-M
40174069006	TOWER A	EPA 524.2	AEZ	8	PASI-M
40174069007	TOWER B	EPA 524.2	AEZ	8	PASI-M
40174069008	FINISHED PRODUCT	EPA 524.2	AEZ	8	PASI-M
40174069009	TRIP BLANK	EPA 524.2	AEZ	8	PASI-M

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40174069

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40174069002	CW-19					
EPA 524.2	Trichloroethene	0.97	ug/L	0.39	08/21/18 18:34	
40174069003	CW-22					
EPA 524.2	Trichloroethene	2.0	ug/L	0.39	08/21/18 18:58	
40174069005	RAW					
EPA 524.2	Trichloroethene	1.1	ug/L	0.39	08/21/18 19:46	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40174069

Method: EPA 524.2
Description: 524.2 MSV
Client: Gannett Fleming Inc.
Date: August 24, 2018

General Information:

9 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: CW-15 **Lab ID: 40174069001** Collected: 08/14/18 09:10 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 18:10	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 18:10	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 18:10	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 18:10	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 18:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		08/21/18 18:10	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		08/21/18 18:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		08/21/18 18:10	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: CW-19 **Lab ID: 40174069002** Collected: 08/14/18 09:13 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 18:34	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 18:34	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 18:34	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 18:34	71-55-6	
Trichloroethene	0.97	ug/L	0.39	0.12	1		08/21/18 18:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		08/21/18 18:34	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		08/21/18 18:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		08/21/18 18:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: CW-22 **Lab ID: 40174069003** Collected: 08/14/18 09:25 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 18:58	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 18:58	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 18:58	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 18:58	71-55-6	
Trichloroethene	2.0	ug/L	0.39	0.12	1		08/21/18 18:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		08/21/18 18:58	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		08/21/18 18:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		08/21/18 18:58	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: CW-23 **Lab ID: 40174069004** Collected: 08/14/18 09:20 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 19:22	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 19:22	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 19:22	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 19:22	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 19:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		08/21/18 19:22	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		08/21/18 19:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		08/21/18 19:22	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: RAW **Lab ID: 40174069005** Collected: 08/14/18 09:05 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 19:46	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 19:46	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 19:46	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 19:46	71-55-6	
Trichloroethene	1.1	ug/L	0.39	0.12	1		08/21/18 19:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		08/21/18 19:46	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		08/21/18 19:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		08/21/18 19:46	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: TOWER A **Lab ID: 40174069006** Collected: 08/14/18 09:02 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 20:11	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 20:11	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 20:11	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 20:11	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 20:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		08/21/18 20:11	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		08/21/18 20:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	75-125		1		08/21/18 20:11	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: TOWER B **Lab ID: 40174069007** Collected: 08/14/18 09:00 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 20:35	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 20:35	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 20:35	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 20:35	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 20:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		08/21/18 20:35	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		08/21/18 20:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		08/21/18 20:35	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: FINISHED PRODUCT **Lab ID: 40174069008** Collected: 08/14/18 08:50 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 20:59	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 20:59	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 20:59	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 20:59	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 20:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		08/21/18 20:59	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		08/21/18 20:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		08/21/18 20:59	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40174069

Sample: TRIP BLANK **Lab ID: 40174069009** Collected: 08/14/18 00:00 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		08/21/18 14:09	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		08/21/18 14:09	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		08/21/18 14:09	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		08/21/18 14:09	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		08/21/18 14:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		08/21/18 14:09	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		08/21/18 14:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		08/21/18 14:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40174069

QC Batch: 558092 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40174069001, 40174069002, 40174069003, 40174069004, 40174069005, 40174069006, 40174069007, 40174069008, 40174069009

METHOD BLANK: 3029824 Matrix: Water
Associated Lab Samples: 40174069001, 40174069002, 40174069003, 40174069004, 40174069005, 40174069006, 40174069007, 40174069008, 40174069009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.19	0.62	08/21/18 12:29	
1,1-Dichloroethane	ug/L	<0.16	0.55	08/21/18 12:29	
1,1-Dichloroethene	ug/L	<0.19	0.62	08/21/18 12:29	
Tetrachloroethene	ug/L	<0.17	0.56	08/21/18 12:29	
Trichloroethene	ug/L	<0.12	0.39	08/21/18 12:29	
1,2-Dichloroethane-d4 (S)	%	97	75-125	08/21/18 12:29	
4-Bromofluorobenzene (S)	%	100	75-125	08/21/18 12:29	
Toluene-d8 (S)	%	100	75-125	08/21/18 12:29	

LABORATORY CONTROL SAMPLE: 3029825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	21.3	106	70-130	
Trichloroethene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3031468 3031469

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40173972099 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.19	20	20	20.8	20.0	104	100	70-130	4	20
1,1-Dichloroethane	ug/L	<0.16	20	20	20.3	19.7	102	99	70-130	3	20
1,1-Dichloroethene	ug/L	<0.19	20	20	21.2	21.1	106	105	70-130	1	20
Tetrachloroethene	ug/L	<0.17	20	20	21.8	21.0	109	105	70-130	4	20
Trichloroethene	ug/L	<0.12	20	20	21.5	20.8	107	104	70-130	3	20
1,2-Dichloroethane-d4 (S)	%						95	96	75-125		
4-Bromofluorobenzene (S)	%						100	98	75-125		
Toluene-d8 (S)	%						96	98	75-125		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40174069

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

WORKORDER QUALIFIERS

WO: 40174069

[1] This data is not intended for compliance use.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40174069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174069001	CW-15	EPA 524.2	558092		
40174069002	CW-19	EPA 524.2	558092		
40174069003	CW-22	EPA 524.2	558092		
40174069004	CW-23	EPA 524.2	558092		
40174069005	RAW	EPA 524.2	558092		
40174069006	TOWER A	EPA 524.2	558092		
40174069007	TOWER B	EPA 524.2	558092		
40174069008	FINISHED PRODUCT	EPA 524.2	558092		
40174069009	TRIP BLANK	EPA 524.2	558092		

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40174069



SSM

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Table with columns: Y/N, Pick Letter, Analyses Requested, and Matrix. Row 1: Y/N N, Pick Letter B, Analyses Requested Drinking Water 5/24/2, Matrix GW.

Company Name: Garnett Fleming
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608-836-1800
Project Number: 34283006
Project Name: NPI
Project State: WI
Sampled By (Print): Chelsea Page
Sampled By (Sign): [Signature]

Data Package Options (billable)
EPA Level III
EPA Level IV
MS/MSD
On your sample (billable)
NOT needed on your sample
Matrix Codes
W = Water
DW = Drinking Water
GW = Ground Water
SW = Surface Water
WW = Waste Water
WP = Wipe

Quote #:
Mail To Contact: Cliff Wright
Mail To Company: Garnett Fleming
Mail To Address: 8025 Excelsior Dr Madison, WI 53717
Invoice To Contact: See mail to
Invoice To Company:
Invoice To Address:
Invoice To Phone: 608-836-1800
CLIENT COMMENTS: See Pace CO # 386977 -> data pkg
LAB COMMENTS (Lab Use Only)
Profile #

Table with columns: PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRIX. Rows include CW-15, CW-19, CW-22, CW-23, Raw, Tower A, Tower B, Finished Product, Trip Blank.

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
Date Needed:
Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:
Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Chelsea Page Date/Time: 8-14-18 17:30
Received By: [Signature] Date/Time: 8/15/18 09:35
Relinquished By: FedEx Date/Time: 8/15/18 09:35
Received By: [Signature] Date/Time: 8/15/18 09:35

PACE Project No. 40174069
Receipt Temp = 20.2 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / (Not Present) Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Garnett Fleming Project # 40174069

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Initial when completed:

Date/Time:

Pace Lab #	Glass							Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN	
001																	2																	2.5 / 5 / 10
002																	3																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																	3																	2.5 / 5 / 10
005																	3																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	2																	2.5 / 5 / 10
008																	3																	2.5 / 5 / 10
009																	2																	2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

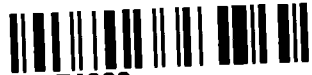
 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: _____

WO#: 40174069



40174069

Tracking #: 8130 1610 8726
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature **Uncorr:** 122 **ICorr:** _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 8/15/18
Initials: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>402</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: RAR for DM **Date:** 8/15/18

August 29, 2018

Project #3428.000
NPI Q3 GW (3 of 4)
Reviewed by CCW
8/31/18

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Duluth Minnesota Certification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 1434215

Montana DHHS Certification #: CERT0102

Wisconsin DNR Certification # : 999446800

North Dakota Certification #: R-105

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174032001	MH-18	Water	08/14/18 15:05	08/15/18 09:35
40174032002	TRIP BLANK	Water	08/14/18 00:00	08/15/18 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174032001	MH-18	SM 4500-CN-E (1997 &1999)	KJD	1	PASI-DUL
		SM 4500-CN-G (1997 &1999)	KJD	1	PASI-DUL
		EPA 608	BDS	9	PASI-G
		EPA 608	DMH	20	PASI-G
		EPA 200.8	KXS	14	PASI-G
		EPA 245.1	AJT	1	PASI-G
		EPA 625	RJN	52	PASI-G
		EPA 625 SIM	TPO	15	PASI-G
		EPA 624	HNW	35	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G
40174032002	TRIP BLANK	EPA 624	HNW	35	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40174032001	MH-18					
EPA 608	beta-BHC	0.043	ug/L	0.026	08/16/18 22:00	
EPA 608	gamma-BHC (Lindane)	0.010J	ug/L	0.020	08/16/18 22:00	
EPA 200.8	Cadmium	0.00013J	mg/L	0.0010	08/21/18 05:47	
EPA 200.8	Chromium	0.0026J	mg/L	0.0034	08/21/18 05:47	
EPA 200.8	Copper	0.0025J	mg/L	0.0036	08/21/18 05:47	B
EPA 200.8	Nickel	0.0040	mg/L	0.0013	08/21/18 05:47	
EPA 200.8	Selenium	0.0032	mg/L	0.0011	08/21/18 05:47	
EPA 200.8	Total Hardness by 2340B	52.5	mg/L	5.0	08/21/18 05:47	
EPA 200.8	Zinc	0.012J	mg/L	0.015	08/21/18 05:47	B
EPA 625 SIM	Fluorene	0.027J	ug/L	0.045	08/17/18 15:05	
EPA 625 SIM	Phenanthrene	0.0078J	ug/L	0.045	08/17/18 15:05	
EPA 624	1,1,1-Trichloroethane	0.71J	ug/L	1.0	08/16/18 17:44	
EPA 624	Trichloroethene	0.57J	ug/L	1.0	08/16/18 17:44	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Method: SM 4500-CN-E (1997 &1999)
Description: 4500CN-E Cyanide, Total
Client: Gannett Fleming Inc.
Date: August 29, 2018

General Information:

1 sample was analyzed for SM 4500-CN-E (1997 &1999). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 4500-CN-E (1997 &1999) with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: SM 4500-CN-G (1997 &1999)

Description: 4500CNG Cyanide, Amenable

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

1 sample was analyzed for SM 4500-CN-G (1997 &1999). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 4500-CN-G (1997 &1999) with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Method: EPA 608
Description: 608 GCS PCB
Client: Gannett Fleming Inc.
Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 608. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 297372

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: EPA 608

Description: 608 GCS Pesticides

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 608. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 297373

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 297613

B: Analyte was detected in the associated method blank.

- BLANK for HBN 297613 [MPRP/184 (Lab ID: 1738491)]
 - Copper
 - Zinc

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: EPA 245.1

Description: 245.1 Mercury

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Method: EPA 625
Description: 625 MSSV
Client: Gannett Fleming Inc.
Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 625. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 297738

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Method: EPA 625 SIM
Description: 625 MSSV PAH by SIM
Client: Gannett Fleming Inc.
Date: August 29, 2018

General Information:

1 sample was analyzed for EPA 625 SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.

- QC Batch: 297507

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: EPA 624

Description: 624 Volatile Organics

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

2 samples were analyzed for EPA 624. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent

Client: Gannett Fleming Inc.

Date: August 29, 2018

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Sample: MH-18 Lab ID: 40174032001 Collected: 08/14/18 15:05 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
4500CN-E Cyanide, Total Analytical Method: SM 4500-CN-E (1997 &1999) Preparation Method: SM 4500-CN-E (1997 &1999)									
Cyanide	<6.7	ug/L	22.4	6.7	1	08/23/18 10:37	08/23/18 16:47	57-12-5	
4500CNG Cyanide, Amenable Analytical Method: SM 4500-CN-G (1997 &1999) Preparation Method: SM 4500-CN-G (1997 &1999)									
Amenable Cyanide	<6.7	ug/L	22.4	6.7	1	08/23/18 10:37	08/23/18 16:49	57-12-5	
608 GCS PCB Analytical Method: EPA 608 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.24	ug/L	0.48	0.24	1	08/16/18 09:10	08/17/18 20:54	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	44-121		1	08/16/18 09:10	08/17/18 20:54	877-09-8	
Decachlorobiphenyl (S)	61	%	10-119		1	08/16/18 09:10	08/17/18 20:54	2051-24-3	
608 GCS Pesticides Analytical Method: EPA 608 Preparation Method: EPA 3510									
Aldrin	<0.0071	ug/L	0.024	0.0071	1	08/16/18 09:10	08/16/18 22:00	309-00-2	
alpha-BHC	<0.0075	ug/L	0.025	0.0075	1	08/16/18 09:10	08/16/18 22:00	319-84-6	
beta-BHC	0.043	ug/L	0.026	0.0077	1	08/16/18 09:10	08/16/18 22:00	319-85-7	
delta-BHC	<0.011	ug/L	0.037	0.011	1	08/16/18 09:10	08/16/18 22:00	319-86-8	
gamma-BHC (Lindane)	0.010J	ug/L	0.020	0.0060	1	08/16/18 09:10	08/16/18 22:00	58-89-9	
Chlordane (Technical)	<0.21	ug/L	0.69	0.21	1	08/16/18 09:10	08/16/18 22:00	57-74-9	
4,4'-DDD	<0.013	ug/L	0.045	0.013	1	08/16/18 09:10	08/16/18 22:00	72-54-8	
4,4'-DDE	<0.018	ug/L	0.058	0.018	1	08/16/18 09:10	08/16/18 22:00	72-55-9	
4,4'-DDT	<0.014	ug/L	0.045	0.014	1	08/16/18 09:10	08/16/18 22:00	50-29-3	
Dieldrin	<0.013	ug/L	0.042	0.013	1	08/16/18 09:10	08/16/18 22:00	60-57-1	
Endosulfan I	<0.0092	ug/L	0.031	0.0092	1	08/16/18 09:10	08/16/18 22:00	959-98-8	
Endosulfan II	<0.023	ug/L	0.076	0.023	1	08/16/18 09:10	08/16/18 22:00	33213-65-9	
Endosulfan sulfate	<0.014	ug/L	0.047	0.014	1	08/16/18 09:10	08/16/18 22:00	1031-07-8	
Endrin	<0.015	ug/L	0.050	0.015	1	08/16/18 09:10	08/16/18 22:00	72-20-8	
Endrin aldehyde	<0.015	ug/L	0.049	0.015	1	08/16/18 09:10	08/16/18 22:00	7421-93-4	
Heptachlor	<0.0062	ug/L	0.021	0.0062	1	08/16/18 09:10	08/16/18 22:00	76-44-8	
Heptachlor epoxide	<0.012	ug/L	0.041	0.012	1	08/16/18 09:10	08/16/18 22:00	1024-57-3	
Toxaphene	<1.4	ug/L	2.9	1.4	1	08/16/18 09:10	08/16/18 22:00	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	45-112		1	08/16/18 09:10	08/16/18 22:00	877-09-8	
Decachlorobiphenyl (S)	49	%	10-108		1	08/16/18 09:10	08/16/18 22:00	2051-24-3	
200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Aluminum	<0.059	mg/L	0.25	0.059	1	08/20/18 08:12	08/21/18 05:47	7429-90-5	
Antimony	<0.00015	mg/L	0.0010	0.00015	1	08/20/18 08:12	08/21/18 05:47	7440-36-0	
Arsenic	<0.00028	mg/L	0.0010	0.00028	1	08/20/18 08:12	08/21/18 05:47	7440-38-2	
Beryllium	<0.00018	mg/L	0.0010	0.00018	1	08/20/18 08:12	08/21/18 05:47	7440-41-7	
Cadmium	0.00013J	mg/L	0.0010	0.000081	1	08/20/18 08:12	08/21/18 05:47	7440-43-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Sample: MH-18 **Lab ID: 40174032001** Collected: 08/14/18 15:05 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.0026J	mg/L	0.0034	0.0010	1	08/20/18 08:12	08/21/18 05:47	7440-47-3	
Copper	0.0025J	mg/L	0.0036	0.0011	1	08/20/18 08:12	08/21/18 05:47	7440-50-8	B
Lead	<0.00020	mg/L	0.0010	0.00020	1	08/20/18 08:12	08/21/18 05:47	7439-92-1	
Nickel	0.0040	mg/L	0.0013	0.00040	1	08/20/18 08:12	08/21/18 05:47	7440-02-0	
Selenium	0.0032	mg/L	0.0011	0.00032	1	08/20/18 08:12	08/21/18 05:47	7782-49-2	
Silver	<0.00010	mg/L	0.00050	0.00010	1	08/20/18 08:12	08/21/18 05:47	7440-22-4	
Thallium	<0.00014	mg/L	0.0010	0.00014	1	08/20/18 08:12	08/21/18 05:47	7440-28-0	
Total Hardness by 2340B	52.5	mg/L	5.0	0.15	1	08/20/18 08:12	08/21/18 05:47		
Zinc	0.012J	mg/L	0.015	0.0046	1	08/20/18 08:12	08/21/18 05:47	7440-66-6	B
245.1 Mercury									
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1									
Mercury	<0.00013	mg/L	0.00042	0.00013	1	08/17/18 10:00	08/20/18 08:54	7439-97-6	
625 MSSV									
Analytical Method: EPA 625 Preparation Method: EPA 625									
Acenaphthene	<0.92	ug/L	4.8	0.92	1	08/21/18 07:50	08/22/18 12:51	83-32-9	
Acenaphthylene	<0.96	ug/L	4.8	0.96	1	08/21/18 07:50	08/22/18 12:51	208-96-8	
Benzidine	<27.0	ug/L	48.1	27.0	1	08/21/18 07:50	08/22/18 12:51	92-87-5	
4-Bromophenylphenyl ether	<0.48	ug/L	4.8	0.48	1	08/21/18 07:50	08/22/18 12:51	101-55-3	
Butylbenzylphthalate	<0.73	ug/L	4.8	0.73	1	08/21/18 07:50	08/22/18 12:51	85-68-7	
4-Chloro-3-methylphenol	<1.4	ug/L	4.8	1.4	1	08/21/18 07:50	08/22/18 12:51	59-50-7	
bis(2-Chloroethoxy)methane	<0.97	ug/L	4.8	0.97	1	08/21/18 07:50	08/22/18 12:51	111-91-1	
bis(2-Chloroethyl) ether	<0.71	ug/L	4.8	0.71	1	08/21/18 07:50	08/22/18 12:51	111-44-4	
bis(2-Chloroisopropyl) ether	<1.1	ug/L	4.8	1.1	1	08/21/18 07:50	08/22/18 12:51	108-60-1	
2-Chloronaphthalene	<1.0	ug/L	4.8	1.0	1	08/21/18 07:50	08/22/18 12:51	91-58-7	
2-Chlorophenol	<0.99	ug/L	4.8	0.99	1	08/21/18 07:50	08/22/18 12:51	95-57-8	
4-Chlorophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	08/21/18 07:50	08/22/18 12:51	7005-72-3	
1,2-Dichlorobenzene	<1.8	ug/L	4.8	1.8	1	08/21/18 07:50	08/22/18 12:51	95-50-1	
1,3-Dichlorobenzene	<1.6	ug/L	4.8	1.6	1	08/21/18 07:50	08/22/18 12:51	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/L	4.8	1.9	1	08/21/18 07:50	08/22/18 12:51	106-46-7	
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	08/21/18 07:50	08/22/18 12:51	91-94-1	
2,4-Dichlorophenol	<1.1	ug/L	4.8	1.1	1	08/21/18 07:50	08/22/18 12:51	120-83-2	
Diethylphthalate	<0.52	ug/L	4.8	0.52	1	08/21/18 07:50	08/22/18 12:51	84-66-2	
2,4-Dimethylphenol	<0.90	ug/L	4.8	0.90	1	08/21/18 07:50	08/22/18 12:51	105-67-9	
Dimethylphthalate	<0.70	ug/L	4.8	0.70	1	08/21/18 07:50	08/22/18 12:51	131-11-3	
Di-n-butylphthalate	<0.91	ug/L	4.8	0.91	1	08/21/18 07:50	08/22/18 12:51	84-74-2	
4,6-Dinitro-2-methylphenol	<0.60	ug/L	4.8	0.60	1	08/21/18 07:50	08/22/18 12:51	534-52-1	
2,4-Dinitrophenol	<0.83	ug/L	9.6	0.83	1	08/21/18 07:50	08/22/18 12:51	51-28-5	
2,4-Dinitrotoluene	<0.96	ug/L	4.8	0.96	1	08/21/18 07:50	08/22/18 12:51	121-14-2	
2,6-Dinitrotoluene	<1.5	ug/L	4.8	1.5	1	08/21/18 07:50	08/22/18 12:51	606-20-2	
Di-n-octylphthalate	<1.4	ug/L	4.8	1.4	1	08/21/18 07:50	08/22/18 12:51	117-84-0	
1,2-Diphenylhydrazine	<1.2	ug/L	4.8	1.2	1	08/21/18 07:50	08/22/18 12:51	122-66-7	
bis(2-Ethylhexyl)phthalate	<0.74	ug/L	4.8	0.74	1	08/21/18 07:50	08/22/18 12:51	117-81-7	
Hexachloro-1,3-butadiene	<1.7	ug/L	9.6	1.7	1	08/21/18 07:50	08/22/18 12:51	87-68-3	
Hexachlorobenzene	<0.55	ug/L	4.8	0.55	1	08/21/18 07:50	08/22/18 12:51	118-74-1	
Hexachlorocyclopentadiene	<0.86	ug/L	4.8	0.86	1	08/21/18 07:50	08/22/18 12:51	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	08/21/18 07:50	08/22/18 12:51	67-72-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI PRIORITY POLL.

Sample Project No.: 40174032

Sample: MH-18 **Lab ID: 40174032001** Collected: 08/14/18 15:05 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625									
Isophorone	<0.99	ug/L	4.8	0.99	1	08/21/18 07:50	08/22/18 12:51	78-59-1	
Naphthalene	<0.68	ug/L	4.8	0.68	1	08/21/18 07:50	08/22/18 12:51	91-20-3	
Nitrobenzene	<0.99	ug/L	4.8	0.99	1	08/21/18 07:50	08/22/18 12:51	98-95-3	
2-Nitrophenol	<0.82	ug/L	4.8	0.82	1	08/21/18 07:50	08/22/18 12:51	88-75-5	
4-Nitrophenol	<0.57	ug/L	9.6	0.57	1	08/21/18 07:50	08/22/18 12:51	100-02-7	
N-Nitrosodimethylamine	<1.1	ug/L	4.8	1.1	1	08/21/18 07:50	08/22/18 12:51	62-75-9	
N-Nitroso-di-n-propylamine	<0.98	ug/L	4.8	0.98	1	08/21/18 07:50	08/22/18 12:51	621-64-7	
N-Nitrosodiphenylamine	<2.1	ug/L	9.6	2.1	1	08/21/18 07:50	08/22/18 12:51	86-30-6	
Pentachlorophenol	<0.72	ug/L	9.6	0.72	1	08/21/18 07:50	08/22/18 12:51	87-86-5	
Phenol	<0.52	ug/L	4.8	0.52	1	08/21/18 07:50	08/22/18 12:51	108-95-2	
1,2,4,5-Tetrachlorobenzene	<1.1	ug/L	4.8	1.1	1	08/21/18 07:50	08/22/18 12:51	95-94-3	
1,2,4-Trichlorobenzene	<1.4	ug/L	4.8	1.4	1	08/21/18 07:50	08/22/18 12:51	120-82-1	
2,4,5-Trichlorophenol	<0.73	ug/L	4.8	0.73	1	08/21/18 07:50	08/22/18 12:51	95-95-4	
2,4,6-Trichlorophenol	<1.0	ug/L	4.8	1.0	1	08/21/18 07:50	08/22/18 12:51	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	95	%	56-120		1	08/21/18 07:50	08/22/18 12:51	4165-60-0	
2-Fluorobiphenyl (S)	82	%	54-122		1	08/21/18 07:50	08/22/18 12:51	321-60-8	
Terphenyl-d14 (S)	115	%	59-136		1	08/21/18 07:50	08/22/18 12:51	1718-51-0	
Phenol-d6 (S)	34	%	16-120		1	08/21/18 07:50	08/22/18 12:51	13127-88-3	
2-Fluorophenol (S)	52	%	27-77		1	08/21/18 07:50	08/22/18 12:51	367-12-4	
2,4,6-Tribromophenol (S)	95	%	58-134		1	08/21/18 07:50	08/22/18 12:51	118-79-6	
625 MSSV PAH by SIM Analytical Method: EPA 625 SIM Preparation Method: EPA 625									
Anthracene	<0.0036	ug/L	0.045	0.0036	1	08/17/18 08:00	08/17/18 15:05	120-12-7	
Benzo(a)anthracene	<0.0046	ug/L	0.045	0.0046	1	08/17/18 08:00	08/17/18 15:05	56-55-3	
Benzo(a)pyrene	<0.0040	ug/L	0.045	0.0040	1	08/17/18 08:00	08/17/18 15:05	50-32-8	
Benzo(b)fluoranthene	<0.0048	ug/L	0.045	0.0048	1	08/17/18 08:00	08/17/18 15:05	205-99-2	
Benzo(g,h,i)perylene	<0.0032	ug/L	0.045	0.0032	1	08/17/18 08:00	08/17/18 15:05	191-24-2	
Benzo(k)fluoranthene	<0.0051	ug/L	0.045	0.0051	1	08/17/18 08:00	08/17/18 15:05	207-08-9	
Chrysene	<0.0038	ug/L	0.045	0.0038	1	08/17/18 08:00	08/17/18 15:05	218-01-9	
Dibenz(a,h)anthracene	<0.0050	ug/L	0.045	0.0050	1	08/17/18 08:00	08/17/18 15:05	53-70-3	
Fluoranthene	<0.0085	ug/L	0.045	0.0085	1	08/17/18 08:00	08/17/18 15:05	206-44-0	
Fluorene	0.027J	ug/L	0.045	0.0036	1	08/17/18 08:00	08/17/18 15:05	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0032	ug/L	0.045	0.0032	1	08/17/18 08:00	08/17/18 15:05	193-39-5	
Phenanthrene	0.0078J	ug/L	0.045	0.0069	1	08/17/18 08:00	08/17/18 15:05	85-01-8	
Pyrene	<0.0069	ug/L	0.045	0.0069	1	08/17/18 08:00	08/17/18 15:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	41	%	29-80		1	08/17/18 08:00	08/17/18 15:05	321-60-8	
Terphenyl-d14 (S)	65	%	10-123		1	08/17/18 08:00	08/17/18 15:05	1718-51-0	
624 Volatile Organics Analytical Method: EPA 624									
1,1,1-Trichloroethane	0.71J	ug/L	1.0	0.50	1		08/16/18 17:44	71-55-6	
1,1,1,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		08/16/18 17:44	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		08/16/18 17:44	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/16/18 17:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/16/18 17:44	75-35-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Sample: MH-18 **Lab ID: 40174032001** Collected: 08/14/18 15:05 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics									
Analytical Method: EPA 624									
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		08/16/18 17:44	563-58-6	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		08/16/18 17:44	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	4.0	0.23	1		08/16/18 17:44	78-87-5	
2,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	78-88-6	
2-Chloroethylvinyl ether	<1.9	ug/L	5.0	1.9	1		08/16/18 17:44	110-75-8	
Acrolein	<10.0	ug/L	20.0	10.0	1		08/16/18 17:44	107-02-8	
Acrylonitrile	<2.3	ug/L	5.0	2.3	1		08/16/18 17:44	107-13-1	
Benzene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		08/16/18 17:44	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		08/16/18 17:44	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		08/16/18 17:44	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	124-48-1	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	100-41-4	
Methylene Chloride	<0.23	ug/L	4.0	0.23	1		08/16/18 17:44	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		08/16/18 17:44	108-88-3	
Trichloroethene	0.57J	ug/L	1.0	0.33	1		08/16/18 17:44	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		08/16/18 17:44	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/16/18 17:44	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	4.0	0.50	1		08/16/18 17:44	10061-01-5	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/16/18 17:44	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	4.0	0.23	1		08/16/18 17:44	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		08/16/18 17:44	1868-53-7	
4-Bromofluorobenzene (S)	89	%	70-130		1		08/16/18 17:44	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		08/16/18 17:44	2037-26-5	
Chromium, Hexavalent									
Analytical Method: SM 3500-Cr B (Online)									
Chromium, Hexavalent	<0.0051	mg/L	0.017	0.0051	1		08/15/18 14:30		

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ANALYTICAL RESULTS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Sample: TRIP BLANK **Lab ID: 40174032002** Collected: 08/14/18 00:00 Received: 08/15/18 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics									
Analytical Method: EPA 624									
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	71-55-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		08/16/18 18:05	79-34-5	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		08/16/18 18:05	79-00-5	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/16/18 18:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/16/18 18:05	75-35-4	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		08/16/18 18:05	563-58-6	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		08/16/18 18:05	107-06-2	
1,2-Dichloropropane	<0.23	ug/L	4.0	0.23	1		08/16/18 18:05	78-87-5	
2,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	78-88-6	
2-Chloroethylvinyl ether	<1.9	ug/L	5.0	1.9	1		08/16/18 18:05	110-75-8	c2
Acrolein	<10.0	ug/L	20.0	10.0	1		08/16/18 18:05	107-02-8	
Acrylonitrile	<2.3	ug/L	5.0	2.3	1		08/16/18 18:05	107-13-1	
Benzene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	71-43-2	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		08/16/18 18:05	74-83-9	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		08/16/18 18:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		08/16/18 18:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	74-87-3	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	124-48-1	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	100-41-4	
Methylene Chloride	<0.23	ug/L	4.0	0.23	1		08/16/18 18:05	75-09-2	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		08/16/18 18:05	108-88-3	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/16/18 18:05	79-01-6	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		08/16/18 18:05	75-01-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/16/18 18:05	156-59-2	
cis-1,3-Dichloropropene	<0.50	ug/L	4.0	0.50	1		08/16/18 18:05	10061-01-5	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		08/16/18 18:05	156-60-5	
trans-1,3-Dichloropropene	<0.23	ug/L	4.0	0.23	1		08/16/18 18:05	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		08/16/18 18:05	1868-53-7	
4-Bromofluorobenzene (S)	87	%	70-130		1		08/16/18 18:05	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		08/16/18 18:05	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

QC Batch: 150703 Analysis Method: SM 4500-CN-E (1997 &1999)
QC Batch Method: SM 4500-CN-E (1997 &1999) Analysis Description: 4500CN-E Cyanide, Total
Associated Lab Samples: 40174032001

METHOD BLANK: 595958 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	<6.7	16.0	08/23/18 16:46	

LABORATORY CONTROL SAMPLE: 595959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	200	194	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 596020 596021

Parameter	Units	12114097001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	ug/L	ND	200	200	186	182	92	91	80-120	2	10	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch: 150704

Analysis Method: SM 4500-CN-G (1997 &1999)

QC Batch Method: SM 4500-CN-G (1997 &1999)

Analysis Description: 4500CNG Cyanide, Amenable

Associated Lab Samples: 40174032001

METHOD BLANK: 595964

Matrix: Water

Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Amenable Cyanide	ug/L	<6.7	34.0	08/23/18 16:48	

LABORATORY CONTROL SAMPLE: 595965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Amenable Cyanide	ug/L	200	194	97	90-110	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

QC Batch: 297490 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 40174032001

METHOD BLANK: 1737409 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	<0.00013	0.00042	08/20/18 08:20	

LABORATORY CONTROL SAMPLE: 1737410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0050	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1737411 1737412

Parameter	Units	40173858001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Mercury	mg/L	<0.13 ug/L	.005	.005	0.0053	0.0051	105	102	70-130	3	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1737413 1737414

Parameter	Units	40174032001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
Mercury	mg/L	<0.00013	.005	.005	0.0050	0.0051	101	102	70-130	1	20		

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

QC Batch: 297613 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 40174032001

METHOD BLANK: 1738491 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	mg/L	<0.059	0.25	08/21/18 04:12	
Antimony	mg/L	<0.00015	0.0010	08/21/18 04:12	
Arsenic	mg/L	<0.00028	0.0010	08/21/18 04:12	
Beryllium	mg/L	<0.00018	0.0010	08/21/18 04:12	
Cadmium	mg/L	<0.000081	0.0010	08/21/18 04:12	
Chromium	mg/L	<0.0010	0.0034	08/21/18 04:12	
Copper	mg/L	0.0030J	0.0036	08/21/18 04:12	
Lead	mg/L	<0.00020	0.0010	08/21/18 04:12	
Nickel	mg/L	<0.00040	0.0013	08/21/18 04:12	
Selenium	mg/L	<0.00032	0.0011	08/21/18 04:12	
Silver	mg/L	<0.00010	0.00050	08/21/18 04:12	
Thallium	mg/L	<0.00014	0.0010	08/21/18 04:12	
Total Hardness by 2340B	mg/L	<0.15	5.0	08/21/18 04:12	
Zinc	mg/L	0.011J	0.015	08/21/18 04:12	

LABORATORY CONTROL SAMPLE: 1738493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/L	.5	4.8	96	85-115	
Antimony	mg/L	.5	0.52	104	85-115	
Arsenic	mg/L	.5	0.50	100	85-115	
Beryllium	mg/L	.5	0.49	99	85-115	
Cadmium	mg/L	.5	0.53	105	85-115	
Chromium	mg/L	.5	0.49	98	85-115	
Copper	mg/L	.5	0.49	99	85-115	
Lead	mg/L	.5	0.45	90	85-115	
Nickel	mg/L	.5	0.48	96	85-115	
Selenium	mg/L	.5	0.52	104	85-115	
Silver	mg/L	.25	0.26	103	85-115	
Thallium	mg/L	.5	0.44	88	85-115	
Total Hardness by 2340B	mg/L		32.6			
Zinc	mg/L	.5	0.52	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1738494 1738495

Parameter	Units	40174203001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result					
Aluminum	mg/L	<58.7 ug/L	5	4.8	5	4.8	95	96	75-125	1	20

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Parameter	Units	40174203001		1738494		1738495		% Rec	% Rec	Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				MSD % Rec	RPD	
Antimony	mg/L	1.1 ug/L	.5	.5	0.52	0.53	104	106	75-125	2	20		
Arsenic	mg/L	2.8 ug/L	.5	.5	0.50	0.51	100	102	75-125	2	20		
Beryllium	mg/L	<0.18 ug/L	.5	.5	0.50	0.51	100	101	75-125	1	20		
Cadmium	mg/L	<0.081 ug/L	.5	.5	0.52	0.53	104	106	75-125	2	20		
Chromium	mg/L	<1.0 ug/L	.5	.5	0.49	0.50	98	100	75-125	2	20		
Copper	mg/L	6.2 ug/L	.5	.5	0.48	0.49	95	98	75-125	3	20		
Lead	mg/L	<0.20 ug/L	.5	.5	0.46	0.47	92	95	75-125	3	20		
Nickel	mg/L	0.62J ug/L	.5	.5	0.46	0.48	93	95	75-125	2	20		
Selenium	mg/L	<0.32 ug/L	.5	.5	0.51	0.52	103	105	75-125	2	20		
Silver	mg/L	<0.10 ug/L	.25	.25	0.25	0.25	99	101	75-125	2	20		
Thallium	mg/L	0.14J ug/L	.5	.5	0.46	0.47	92	93	75-125	2	20		
Total Hardness by 2340B	mg/L	193			222	222				0	20		
Zinc	mg/L	12.4J ug/L	.5	.5	0.52	0.53	101	104	75-125	2	20		

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch: 297355 Analysis Method: EPA 624
QC Batch Method: EPA 624 Analysis Description: 624 MSV
Associated Lab Samples: 40174032001, 40174032002

METHOD BLANK: 1736516 Matrix: Water

Associated Lab Samples: 40174032001, 40174032002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/16/18 08:48	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	08/16/18 08:48	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	08/16/18 08:48	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/16/18 08:48	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/16/18 08:48	
1,1-Dichloropropene	ug/L	<0.44	1.0	08/16/18 08:48	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/16/18 08:48	
1,2-Dichloropropene	ug/L	<0.23	4.0	08/16/18 08:48	
2,3-Dichloropropene	ug/L	<0.50	1.0	08/16/18 08:48	
2-Chloroethylvinyl ether	ug/L	<1.9	5.0	08/16/18 08:48	
Acrolein	ug/L	<10.0	20.0	08/16/18 08:48	
Acrylonitrile	ug/L	<2.3	5.0	08/16/18 08:48	
Benzene	ug/L	<0.50	1.0	08/16/18 08:48	
Bromodichloromethane	ug/L	<0.50	1.0	08/16/18 08:48	
Bromoform	ug/L	<0.50	1.0	08/16/18 08:48	
Bromomethane	ug/L	<2.4	5.0	08/16/18 08:48	
Carbon tetrachloride	ug/L	<0.50	1.0	08/16/18 08:48	
Chlorobenzene	ug/L	<0.50	1.0	08/16/18 08:48	
Chloroethane	ug/L	<0.37	1.0	08/16/18 08:48	
Chloroform	ug/L	<2.5	5.0	08/16/18 08:48	
Chloromethane	ug/L	<0.50	1.0	08/16/18 08:48	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	08/16/18 08:48	
cis-1,3-Dichloropropene	ug/L	<0.50	4.0	08/16/18 08:48	
Dibromochloromethane	ug/L	<0.50	1.0	08/16/18 08:48	
Ethylbenzene	ug/L	<0.50	1.0	08/16/18 08:48	
Methylene Chloride	ug/L	<0.23	4.0	08/16/18 08:48	
Tetrachloroethene	ug/L	<0.50	1.0	08/16/18 08:48	
Toluene	ug/L	<0.50	1.0	08/16/18 08:48	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	08/16/18 08:48	
trans-1,3-Dichloropropene	ug/L	<0.23	4.0	08/16/18 08:48	
Trichloroethene	ug/L	<0.33	1.0	08/16/18 08:48	
Vinyl chloride	ug/L	<0.18	1.0	08/16/18 08:48	
4-Bromofluorobenzene (S)	%	91	70-130	08/16/18 08:48	
Dibromofluoromethane (S)	%	96	70-130	08/16/18 08:48	
Toluene-d8 (S)	%	102	70-130	08/16/18 08:48	

LABORATORY CONTROL SAMPLE: 1736517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.4	107	70-133	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

LABORATORY CONTROL SAMPLE: 1736517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	20	22.7	114	67-130	
1,1,2-Trichloroethane	ug/L	20	22.9	115	70-130	
1,1-Dichloroethane	ug/L	20	20.3	101	70-134	
1,1-Dichloroethene	ug/L	20	19.8	99	75-132	
1,2-Dichloroethane	ug/L	20	21.5	108	73-134	
1,2-Dichloropropane	ug/L	20	22.2	111	79-128	
Benzene	ug/L	20	21.7	108	69-137	
Bromodichloromethane	ug/L	20	20.7	104	70-130	
Bromoform	ug/L	20	21.7	109	64-133	
Bromomethane	ug/L	20	13.1	66	29-123	
Carbon tetrachloride	ug/L	20	20.5	103	73-142	
Chlorobenzene	ug/L	20	21.3	107	70-130	
Chloroethane	ug/L	20	17.2	86	59-133	
Chloroform	ug/L	20	21.8	109	80-129	
Chloromethane	ug/L	20	14.2	71	27-125	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	70-134	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	19.9	100	70-130	
Ethylbenzene	ug/L	20	21.7	108	86-127	
Methylene Chloride	ug/L	20	19.2	96	72-133	
Tetrachloroethene	ug/L	20	20.3	102	70-130	
Toluene	ug/L	20	21.5	107	84-124	
trans-1,2-Dichloroethene	ug/L	20	20.1	101	70-133	
trans-1,3-Dichloropropene	ug/L	20	23.2	116	67-130	
Trichloroethene	ug/L	20	20.7	103	70-130	
Vinyl chloride	ug/L	20	16.3	82	48-134	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

QC Batch: 297372 Analysis Method: EPA 608
QC Batch Method: EPA 3510 Analysis Description: 608 GCS PCB
Associated Lab Samples: 40174032001

METHOD BLANK: 1736550 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1221 (Aroclor 1221)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1232 (Aroclor 1232)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1242 (Aroclor 1242)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1248 (Aroclor 1248)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1254 (Aroclor 1254)	ug/L	<0.12	0.25	08/17/18 19:31	
PCB-1260 (Aroclor 1260)	ug/L	<0.12	0.25	08/17/18 19:31	
Decachlorobiphenyl (S)	%	41	10-119	08/17/18 19:31	
Tetrachloro-m-xylene (S)	%	91	44-121	08/17/18 19:31	

LABORATORY CONTROL SAMPLE & LCSD: 1736551

Parameter	Units	1736552		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
PCB-1016 (Aroclor 1016)	ug/L		<0.12	<0.12				20	
PCB-1221 (Aroclor 1221)	ug/L		<0.12	<0.12				20	
PCB-1232 (Aroclor 1232)	ug/L		<0.12	<0.12				20	
PCB-1242 (Aroclor 1242)	ug/L		<0.12	<0.12				20	
PCB-1248 (Aroclor 1248)	ug/L		<0.12	<0.12				20	
PCB-1254 (Aroclor 1254)	ug/L		<0.12	<0.12				20	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.3	2.4	93	95	10-127	2	20
Decachlorobiphenyl (S)	%				80	85	10-119		
Tetrachloro-m-xylene (S)	%				83	80	44-121		

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch: 297373	Analysis Method: EPA 608
QC Batch Method: EPA 3510	Analysis Description: 608 GCS Pesticides
Associated Lab Samples: 40174032001	

METHOD BLANK: 1736553 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	ug/L	<0.014	0.047	08/16/18 21:01	
4,4'-DDE	ug/L	<0.018	0.061	08/16/18 21:01	
4,4'-DDT	ug/L	<0.014	0.047	08/16/18 21:01	
Aldrin	ug/L	<0.0074	0.025	08/16/18 21:01	
alpha-BHC	ug/L	<0.0079	0.026	08/16/18 21:01	
beta-BHC	ug/L	<0.0081	0.027	08/16/18 21:01	
Chlordane (Technical)	ug/L	<0.22	0.73	08/16/18 21:01	
delta-BHC	ug/L	<0.012	0.039	08/16/18 21:01	
Dieldrin	ug/L	<0.013	0.045	08/16/18 21:01	
Endosulfan I	ug/L	<0.0097	0.032	08/16/18 21:01	
Endosulfan II	ug/L	<0.024	0.080	08/16/18 21:01	
Endosulfan sulfate	ug/L	<0.015	0.050	08/16/18 21:01	
Endrin	ug/L	<0.016	0.052	08/16/18 21:01	
Endrin aldehyde	ug/L	<0.016	0.052	08/16/18 21:01	
gamma-BHC (Lindane)	ug/L	<0.0063	0.021	08/16/18 21:01	
Heptachlor	ug/L	<0.0065	0.022	08/16/18 21:01	
Heptachlor epoxide	ug/L	<0.013	0.043	08/16/18 21:01	
Toxaphene	ug/L	<1.5	3.0	08/16/18 21:01	
Decachlorobiphenyl (S)	%	35	10-108	08/16/18 21:01	
Tetrachloro-m-xylene (S)	%	76	45-112	08/16/18 21:01	

LABORATORY CONTROL SAMPLE & LCSD: 1736554 1736555

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
4,4'-DDD	ug/L	.8	0.86	0.79	108	99	66-121	9	27	
4,4'-DDE	ug/L	.8	0.89	0.83	111	103	68-124	7	20	
4,4'-DDT	ug/L	.8	0.93	0.85	116	107	68-132	8	20	
Aldrin	ug/L	.4	0.40	0.36	99	91	73-121	9	20	
alpha-BHC	ug/L	.4	0.42	0.37	104	91	80-120	13	20	
beta-BHC	ug/L	.4	0.37	0.33	93	84	78-120	11	20	
Chlordane (Technical)	ug/L		<0.22	<0.22						20
delta-BHC	ug/L	.4	0.44	0.40	110	100	79-121	10	20	
Dieldrin	ug/L	.8	0.77	0.71	97	88	68-112	9	20	
Endosulfan I	ug/L	.4	0.36	0.33	89	82	62-127	9	20	
Endosulfan II	ug/L	.8	0.78	0.72	98	90	72-117	9	20	
Endosulfan sulfate	ug/L	.8	0.82	0.74	103	93	77-120	10	20	
Endrin	ug/L	.8	0.87	0.80	108	100	72-125	8	20	
Endrin aldehyde	ug/L	.8	0.76	0.69	95	86	69-111	9	20	
gamma-BHC (Lindane)	ug/L	.4	0.42	0.38	104	96	79-119	8	20	
Heptachlor	ug/L	.4	0.41	0.36	101	91	69-122	11	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

Parameter	Units	1736554		1736555			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Heptachlor epoxide	ug/L	.4	0.42	0.37	104	93	76-118	11	20	
Toxaphene	ug/L		<1.5	<1.5					20	
Decachlorobiphenyl (S)	%				63	42	10-108			
Tetrachloro-m-xylene (S)	%				85	77	45-112			

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch:	297738	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	40174032001		

METHOD BLANK: 1738888 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4,5-Tetrachlorobenzene	ug/L	<1.1	5.0	08/22/18 08:36	
1,2,4-Trichlorobenzene	ug/L	<1.5	5.0	08/22/18 08:36	
1,2-Dichlorobenzene	ug/L	<1.8	5.0	08/22/18 08:36	
1,2-Diphenylhydrazine	ug/L	<1.3	5.0	08/22/18 08:36	
1,3-Dichlorobenzene	ug/L	<1.6	5.0	08/22/18 08:36	
1,4-Dichlorobenzene	ug/L	<1.9	5.0	08/22/18 08:36	
2,4,5-Trichlorophenol	ug/L	<0.76	5.0	08/22/18 08:36	
2,4,6-Trichlorophenol	ug/L	<1.1	5.0	08/22/18 08:36	
2,4-Dichlorophenol	ug/L	<1.2	5.0	08/22/18 08:36	
2,4-Dimethylphenol	ug/L	<0.93	5.0	08/22/18 08:36	
2,4-Dinitrophenol	ug/L	<0.86	10.0	08/22/18 08:36	
2,4-Dinitrotoluene	ug/L	<1.0	5.0	08/22/18 08:36	
2,6-Dinitrotoluene	ug/L	<1.5	5.0	08/22/18 08:36	
2-Chloronaphthalene	ug/L	<1.1	5.0	08/22/18 08:36	
2-Chlorophenol	ug/L	<1.0	5.0	08/22/18 08:36	
2-Nitrophenol	ug/L	<0.85	5.0	08/22/18 08:36	
3,3'-Dichlorobenzidine	ug/L	<1.3	5.0	08/22/18 08:36	
4,6-Dinitro-2-methylphenol	ug/L	<0.62	5.0	08/22/18 08:36	
4-Bromophenylphenyl ether	ug/L	<0.50	5.0	08/22/18 08:36	
4-Chloro-3-methylphenol	ug/L	<1.4	5.0	08/22/18 08:36	
4-Chlorophenylphenyl ether	ug/L	<0.94	5.0	08/22/18 08:36	
4-Nitrophenol	ug/L	<0.59	10.0	08/22/18 08:36	
Acenaphthene	ug/L	<0.95	5.0	08/22/18 08:36	
Acenaphthylene	ug/L	<1.0	5.0	08/22/18 08:36	
Benzidine	ug/L	<28.1	50.0	08/22/18 08:36	
bis(2-Chloroethoxy)methane	ug/L	<1.0	5.0	08/22/18 08:36	
bis(2-Chloroethyl) ether	ug/L	<0.74	5.0	08/22/18 08:36	
bis(2-Chloroisopropyl) ether	ug/L	<1.1	5.0	08/22/18 08:36	
bis(2-Ethylhexyl)phthalate	ug/L	<0.77	5.0	08/22/18 08:36	
Butylbenzylphthalate	ug/L	<0.76	5.0	08/22/18 08:36	
Di-n-butylphthalate	ug/L	<0.95	5.0	08/22/18 08:36	
Di-n-octylphthalate	ug/L	<1.4	5.0	08/22/18 08:36	
Diethylphthalate	ug/L	<0.54	5.0	08/22/18 08:36	
Dimethylphthalate	ug/L	<0.73	5.0	08/22/18 08:36	
Hexachloro-1,3-butadiene	ug/L	<1.8	10.0	08/22/18 08:36	
Hexachlorobenzene	ug/L	<0.57	5.0	08/22/18 08:36	
Hexachlorocyclopentadiene	ug/L	<0.90	5.0	08/22/18 08:36	
Hexachloroethane	ug/L	<1.5	5.0	08/22/18 08:36	
Isophorone	ug/L	<1.0	5.0	08/22/18 08:36	
N-Nitroso-di-n-propylamine	ug/L	<1.0	5.0	08/22/18 08:36	
N-Nitrosodimethylamine	ug/L	<1.1	5.0	08/22/18 08:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.
Pace Project No.: 40174032

METHOD BLANK: 1738888 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
N-Nitrosodiphenylamine	ug/L	<2.2	10.0	08/22/18 08:36	
Naphthalene	ug/L	<0.70	5.0	08/22/18 08:36	
Nitrobenzene	ug/L	<1.0	5.0	08/22/18 08:36	
Pentachlorophenol	ug/L	<0.75	10.0	08/22/18 08:36	
Phenol	ug/L	<0.54	5.0	08/22/18 08:36	
2,4,6-Tribromophenol (S)	%	99	58-134	08/22/18 08:36	
2-Fluorobiphenyl (S)	%	87	54-122	08/22/18 08:36	
2-Fluorophenol (S)	%	62	27-77	08/22/18 08:36	
Nitrobenzene-d5 (S)	%	97	56-120	08/22/18 08:36	
Phenol-d6 (S)	%	39	16-120	08/22/18 08:36	
Terphenyl-d14 (S)	%	122	59-136	08/22/18 08:36	

LABORATORY CONTROL SAMPLE & LCSD: 1738889

1738890

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	47.0	48.2	94	96	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	40.7	44.2	81	88	62-130	8	20	
1,2-Diphenylhydrazine	ug/L	50	48.6	48.2	97	96	70-130	1	20	
1,3-Dichlorobenzene	ug/L	50	37.9	42.6	76	85	59-130	12	20	
1,4-Dichlorobenzene	ug/L	50	39.7	42.5	79	85	61-108	7	20	
2,4,5-Trichlorophenol	ug/L	50	44.2	46.5	88	93	70-127	5	20	
2,4,6-Trichlorophenol	ug/L	50	47.6	49.0	95	98	77-120	3	20	
2,4-Dichlorophenol	ug/L	50	46.5	51.7	93	103	71-112	10	20	
2,4-Dimethylphenol	ug/L	50	35.7	40.7	71	81	43-118	13	21	
2,4-Dinitrophenol	ug/L	50	47.3	56.3	95	113	36-130	17	28	
2,4-Dinitrotoluene	ug/L	50	53.4	52.5	107	105	70-130	2	20	
2,6-Dinitrotoluene	ug/L	50	51.5	52.2	103	104	70-130	1	20	
2-Chloronaphthalene	ug/L	50	50.5	49.6	101	99	70-130	2	20	
2-Chlorophenol	ug/L	50	41.9	47.5	84	95	65-108	12	20	
2-Nitrophenol	ug/L	50	49.6	53.4	99	107	71-113	8	20	
3,3'-Dichlorobenzidine	ug/L	50	32.6	35.1	65	70	40-100	7	36	
4,6-Dinitro-2-methylphenol	ug/L	50	56.7	62.7	113	125	62-130	10	20	
4-Bromophenylphenyl ether	ug/L	50	58.2	57.6	116	115	70-130	1	20	
4-Chloro-3-methylphenol	ug/L	50	44.1	49.0	88	98	74-116	11	20	
4-Chlorophenylphenyl ether	ug/L	50	51.5	51.0	103	102	70-130	1	20	
4-Nitrophenol	ug/L	50	18.9	19.0	38	38	14-75	0	24	
Acenaphthene	ug/L	50	52.2	50.2	104	100	80-120	4	20	
Acenaphthylene	ug/L	50	50.7	49.4	101	99	70-130	3	20	
bis(2-Chloroethoxy)methane	ug/L	50	51.9	52.6	104	105	70-130	1	20	
bis(2-Chloroethyl) ether	ug/L	50	47.6	50.1	95	100	70-115	5	20	
bis(2-Chloroisopropyl) ether	ug/L	50	47.2	49.7	94	99	52-123	5	20	
bis(2-Ethylhexyl)phthalate	ug/L	50	52.5	55.4	105	111	70-124	5	20	
Butylbenzylphthalate	ug/L	50	54.4	55.4	109	111	70-130	2	20	
Di-n-butylphthalate	ug/L	50	58.1	58.8	116	118	70-130	1	20	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

LABORATORY CONTROL SAMPLE & LCSD:		1738889	1738890		LCS	LCSD	% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	% Rec Limits	RPD	RPD	Qualifiers
Di-n-octylphthalate	ug/L	50	46.2	51.0	92	102	59-123	10	20	
Diethylphthalate	ug/L	50	51.9	51.8	104	104	70-130	0	20	
Dimethylphthalate	ug/L	50	50.7	51.0	101	102	70-130	1	20	
Hexachloro-1,3-butadiene	ug/L	50	46.2	48.5	92	97	66-114	5	20	
Hexachlorobenzene	ug/L	50	59.0	58.4	118	117	70-130	1	20	
Hexachlorocyclopentadiene	ug/L	50	24.1	23.7	48	47	19-81	1	25	
Hexachloroethane	ug/L	50	37.2	41.2	74	82	52-130	10	22	
Isophorone	ug/L	50	46.4	47.0	93	94	70-130	1	20	
N-Nitroso-di-n-propylamine	ug/L	50	46.9	49.2	94	98	70-127	5	20	
N-Nitrosodimethylamine	ug/L	50	36.6	36.4	73	73	38-130	0	21	
N-Nitrosodiphenylamine	ug/L	50	58.7	59.2	117	118	80-124	1	20	
Naphthalene	ug/L	50	49.8	51.2	100	102	70-130	3	20	
Nitrobenzene	ug/L	50	49.0	50.6	98	101	70-130	3	20	
Pentachlorophenol	ug/L	50	46.2	48.3	92	97	65-109	4	20	
Phenol	ug/L	50	20.1	21.1	40	42	28-120	5	20	
2,4,6-Tribromophenol (S)	%				99	105	58-134			
2-Fluorobiphenyl (S)	%				91	88	54-122			
2-Fluorophenol (S)	%				60	65	27-77			
Nitrobenzene-d5 (S)	%				99	102	56-120			
Phenol-d6 (S)	%				38	39	16-120			
Terphenyl-d14 (S)	%				119	117	59-136			

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch:	297475	Analysis Method:	EPA 625 SIM
QC Batch Method:	EPA 625	Analysis Description:	625 Water PAH
Associated Lab Samples:	40174032001		

METHOD BLANK: 1737340 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	<0.0040	0.050	08/17/18 11:46	
Benzo(a)anthracene	ug/L	<0.0051	0.050	08/17/18 11:46	
Benzo(a)pyrene	ug/L	<0.0044	0.050	08/17/18 11:46	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	08/17/18 11:46	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	08/17/18 11:46	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	08/17/18 11:46	
Chrysene	ug/L	<0.0042	0.050	08/17/18 11:46	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	08/17/18 11:46	
Fluoranthene	ug/L	<0.0094	0.050	08/17/18 11:46	
Fluorene	ug/L	<0.0040	0.050	08/17/18 11:46	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	08/17/18 11:46	
Phenanthrene	ug/L	<0.0077	0.050	08/17/18 11:46	
Pyrene	ug/L	<0.0077	0.050	08/17/18 11:46	
2-Fluorobiphenyl (S)	%	47	29-80	08/17/18 11:46	
Terphenyl-d14 (S)	%	73	10-123	08/17/18 11:46	

LABORATORY CONTROL SAMPLE: 1737341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2	1.3	64	57-120	
Benzo(a)anthracene	ug/L	2	1.5	73	33-108	
Benzo(a)pyrene	ug/L	2	1.5	76	55-108	
Benzo(b)fluoranthene	ug/L	2	1.2	62	47-106	
Benzo(g,h,i)perylene	ug/L	2	0.77	38	20-75	
Benzo(k)fluoranthene	ug/L	2	1.6	82	50-116	
Chrysene	ug/L	2	1.8	92	64-140	
Dibenz(a,h)anthracene	ug/L	2	0.69	34	14-70	
Fluoranthene	ug/L	2	1.7	86	61-112	
Fluorene	ug/L	2	1.2	61	53-120	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.0	52	43-105	
Phenanthrene	ug/L	2	1.4	68	47-105	
Pyrene	ug/L	2	1.5	74	62-119	
2-Fluorobiphenyl (S)	%			48	29-80	
Terphenyl-d14 (S)	%			72	10-123	

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QUALITY CONTROL DATA

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

QC Batch: 297319	Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online)	Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40174032001	

METHOD BLANK: 1736166 Matrix: Water
Associated Lab Samples: 40174032001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	08/15/18 14:30	

LABORATORY CONTROL SAMPLE: 1736167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.31	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1736168 1736169

Parameter	Units	40174032001		MS		MSD		% Rec		Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	
Chromium, Hexavalent	mg/L	<0.0051	.3	.3	0.32	0.31	106	103	90-110	3	20	

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QUALIFIERS

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DUL Pace Analytical Services - Duluth

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 297401

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 297402

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 297507

[1] An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.

Batch: 297804

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

c2 Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI PRIORITY POLL.

Pace Project No.: 40174032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174032001	MH-18	SM 4500-CN-E (1997 &1999)	150703	SM 4500-CN-E (1997 &1999)	150781
40174032001	MH-18	SM 4500-CN-G (1997 &1999)	150704	SM 4500-CN-G (1997 &1999)	150782
40174032001	MH-18	EPA 3510	297372	EPA 608	297401
40174032001	MH-18	EPA 3510	297373	EPA 608	297402
40174032001	MH-18	EPA 200.8	297613	EPA 200.8	297701
40174032001	MH-18	EPA 245.1	297490	EPA 245.1	297537
40174032001	MH-18	EPA 625	297738	EPA 625	297804
40174032001	MH-18	EPA 625	297475	EPA 625 SIM	297507
40174032001	MH-18	EPA 624	297355		
40174032002	TRIP BLANK	EPA 624	297355		
40174032001	MH-18	SM 3500-Cr B (Online)	297319		

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UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

SSM

COC No. 40174032

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: NPI Priority Pollutants
Project State: WI
Sampled By (Print): Brett Seidlitz and Chelsea Payne
Sampled By (Sign): *[Signature]*



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y / N	N	N	N	N	N	N	N	N	N
Pick Letter	B	A	A	A	A	A	A	A	G
Analyses Requested	VOCs by 624	2-chloroethyl vinyl ether	SVOCs by 625	PAHs-SIM	Pesticides	PCBs	Dioxin by 1613	Cyanide (total & amenable)	

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MH-18	8-14-18	15:05	W
002	Trip BLANK			W

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
See Pace CO#386977		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Relinquished By: *[Signature]* Date/Time: 8-14-18 17:30
 Received By: _____ Date/Time: _____

Transmit Prelim Rush Results by (complete what you want): *[Signature]* Date/Time: 8/15/18 09:15
 Received By: *[Signature]* Date/Time: 8/15/18 09:15

Receipt Temp = 72.0 °C

Sample Receipt pH
 OK Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

(Please Print Clearly)

Company Name: Gannett Fleming, Inc.
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608/836-1500 x6722
 Project Number: 34283.000
 Project Name: NPI Priority Pollutants
 Project State: WI
 Sampled By (Print): Brett Seidlitz and Chelsea Payne
 Sampled By (Sign): *Chel Pro*



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2
 COC No. *40174032*

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y / N	N	N													
Pick Letter	D	A													
Analyses Requested	Metals (total) & Hardness	Hexavalent chromium													

Quote #: Pace 2018
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
 Invoice To Contact: See "Mail to Contact" info above
 Invoice To Company: "
 Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
 Invoice To Phone: 608/836-1500 x6722
 CLIENT COMMENTS: See Pace CO#386977
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
<i>001</i>	MH-18			W

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:

Relinquished By: <i>Chelsea Payne</i>	Date/Time: <i>8/14/18 17:30</i>	Received By:	Date/Time:
Relinquished By: <i>FROG</i>	Date/Time: <i>8/15/18 09:35</i>	Received By: <i>Chel Pace</i>	Date/Time: <i>8/15/18 09:35</i>
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Transmit Prelim Rush Results by (complete what you want):
 Email #1: cwright@gfnet.com
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. *40174032*
 Receipt Temp = *RO1* °C
 Sample Receipt pH *OK / Adjusted*
 Cooler Custody Seal *Present / Not Present*
 Intact / Not Intact

Sample Preservation Receipt Form

Client Name: GAUDET PLUMMERS Project # Y0174032

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: 1050761

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: 1/11 Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm)*	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T
001	✓				✓						-	-	-				3	3/6	5/15/18												2.5 / 5 / 10
002																															2.5 / 5 / 10
003																															2.5 / 5 / 10
004																															2.5 / 5 / 10
005																															2.5 / 5 / 10
006																															2.5 / 5 / 10
007																															2.5 / 5 / 10
008																															2.5 / 5 / 10
009																															2.5 / 5 / 10
010																															2.5 / 5 / 10
011																															2.5 / 5 / 10
012																															2.5 / 5 / 10
013																															2.5 / 5 / 10
014																															2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Addresses

Order By :	Ship To :	Return To:
Company <u>Gannett Fleming Inc.</u>	Company <u>National Presto</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Payne, Chelsea</u>	Contact <u>Brett Seidlitz</u>	Contact <u>Milewsky, Dan</u>
Email <u>cpayne@gfnet.com</u>	Email <u>cpayne@gfnet.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>8025 Excelsior Drive</u>	Address <u>3925 North Hastings Way</u>	Address <u>1241 Bellevue Street</u>
Address 2 _____	Address 2 _____	Address 2 <u>Suite 9</u>
City <u>Madison</u>	City <u>Eau Claire</u>	City <u>Green Bay</u>
State <u>WI</u> Zip <u>53717</u>	State <u>WI</u> Zip <u>54703</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>NONE</u>	Phone <u>(608) 286-8491</u>	Phone <u>(920)469-2436</u>

Info

Project Name <u>34283.000 NPI Priority Pollutants</u>	Due Date <u>08/08/2018</u>	Profile _____	Quote _____
Project Manager <u>Milewsky, Dan</u>	Return _____	Carrier <u>Most Economical</u>	Location _____

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank

Pre-Printed No Sample IDs

Pre-Printed With Sample IDs

Bottles

Boxed Cases

Individually Wrapped

Grouped By Sample

Return Shipping Labels

No Shipper Number

With Shipper Number

Misc

Sampling Instructions

Custody Seal

Temp. Blanks

Coolers _____

Syringes _____

Extra Bubble Wrap

Short Hold/Rush Stickers

DI Water

USDA Regulated Soils

COC Options

Number of Blanks

Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-8-034-01VB	
1	WT	VOC by 624	3-40mL amber vials, HCl	3	0	B-8-160-02VB	
1	WT	2-chloroethyl vinyl ether	3-40ml vials unpreserved	3	0	B-7-318-01VB	
1	WT	SVOC by 625	2-1L amber glass, unpres	2	0	D-7-312-03DB	
1	WT	PAH SIM	2-100mL amber bottles, unpres	2	0	D-7-312-03DB	
1	WT	Pesticides	1L amber glass unpres	1	0	H-8-132-04DB	
1	WT	PCB	1L amber glass unpres	1	0	H-8-132-04DB	
1	WT	Dioxin by 1613	2-1L amber glass, unpres	2	0	H-8-132-04DB	2,3,7-8-TCDD
1	WT	Cyanide	250mL plastic NaOH	1	0	M-8-067-04BB	total & amenable
1	WT	Metals & Hardness	250mL plastic w/HNO3	1	0	M-8-103-04BB	see list below
1	WT	Hexavalent Chromium	250 mL unpreserved	1	0	M-8-124-04BB	24 hour hold time!!

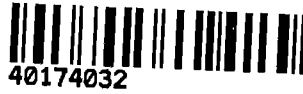
Sample Condition Upon Receipt Form (SCUR)

Client Name: GANNET FLEMING

Project #:

WO#: 40174032

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: 81301610 8715

Custody Seal on Cooler/Box Present: Yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 201 / Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 8/15/18
Initials: JM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>1/6 AGU's no correct date/time; trip blanks w/ pre printed label as "MH-1B"</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>402</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RNA for RN

Date: 8/15/18

Report Prepared for:

Dan Milewsky
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS FOR
TCDD**

Report Information:

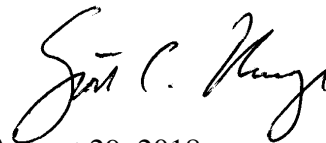
Pace Project #: 10443681
Sample Receipt Date: 08/16/2018
Client Project #: 40174032
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 4 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



August 29, 2018

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Report Prepared Date:

August 29, 2018

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Pace Analytical Services, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were based on signal-to-noise measurements. Method blank and field sample results presented with reporting limits corresponding to the lowest calibration points and a nominal 1-liter sample amount were included at the end of Appendix A. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in Appendix A.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 91%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The recoveries of the native TCDD ranged from 105-107% with a relative percent difference of 1.9%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - Pet	1240
Alabama	40770	Mississippi	MN00064
Alaska - DW	MN00064	Montana	CERT0092
Alaska - UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - DW	MN00064	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey (NE)	MN002
CNMI Saipan	MP0003	New York	11647
California	2929	North Carolina	27700
Colorado	MN00064	North Carolina -	27700
Connecticut	PH-0256	North Carolina -	530
EPA Region 8+	via MN 027-053	North Dakota	R-036
Florida (NELAP)	E87605	Ohio - DW	41244
Georgia	959	Ohio - VAP	CL101
Guam	17-001r	Oklahoma	9507
Hawaii	MN00064	Oregon - Primar	MN300001
Idaho	MN00064	Oregon - Secon	MN200001
Illinois	200011	Pennsylvania	68-00563
Indiana	C-MN-01	Puerto Rico	MN00064
Iowa	368	South Carolina	74003
Kansas	E-10167	South Dakota	NA
Kentucky - DW	90062	Tennessee	TN02818
Kentucky - WW	90062	Texas	T104704192
Louisiana - DE	03086	Utah (NELAP)	MN00064
Louisiana - DW	MN00064	Virginia	460163
Maine	MN00064	Washington	C486
Maryland	322	West Virginia -	382
Massachusetts	M-MN064	West Virginia -	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming - UST	2926.01
Minnesota - De	via MN 027-053		

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - PACE Wisconsin

Client's Sample ID	MH-18		
Lab Sample ID	40174032001		
Filename	F180823B_15		
Injected By	SMT		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/14/2018 15:05
ICAL ID	F180823	Received	08/16/2018 09:45
CCal Filename(s)	F180823A_22	Extracted	08/21/2018 12:15
Method Blank ID	BLANK-64233	Analyzed	08/24/2018 07:09

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	----	1.2	2,3,7,8-TCDD-13C	2.00	91
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	98

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 EDL = Estimated Detection Limit

ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated

R = Recovery outside target range
 E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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December 19, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project 34283.000
NPI Q4 GW
Reviewed by CCW
12/19/18

RE: Project: 34283.000 NATIONAL PRESTO INDU
Pace Project No.: 40180962

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40180962001	EW-6	Water	12/10/18 14:45	12/13/18 11:55
40180962002	MW-4B	Water	12/10/18 13:00	12/13/18 11:55
40180962003	MW-10A	Water	12/10/18 11:40	12/13/18 11:55
40180962004	MW-34A	Water	12/10/18 12:15	12/13/18 11:55
40180962005	MW-68A	Water	12/10/18 12:45	12/13/18 11:55
40180962006	MW-68B	Water	12/10/18 13:00	12/13/18 11:55
40180962007	MW-70A	Water	12/10/18 12:00	12/13/18 11:55
40180962008	MW-76A	Water	12/10/18 13:50	12/13/18 11:55
40180962009	MW-77A	Water	12/10/18 13:35	12/13/18 11:55
40180962010	MW-77A DUP	Water	12/10/18 13:35	12/13/18 11:55
40180962011	MW-77B	Water	12/10/18 13:25	12/13/18 11:55
40180962012	MH-18	Water	12/10/18 14:30	12/13/18 11:55
40180962013	TRIP BLANK	Water	12/10/18 00:00	12/13/18 11:55
40180962014	EC-1	Water	12/11/18 08:30	12/13/18 11:55
40180962015	RW-3A	Water	12/11/18 08:50	12/13/18 11:55
40180962016	RW-3B	Water	12/11/18 08:55	12/13/18 11:55
40180962017	RW-3B DUP	Water	12/11/18 08:55	12/13/18 11:55
40180962018	RW-3C	Water	12/11/18 09:00	12/13/18 11:55
40180962019	RW-3C DUP	Water	12/11/18 09:00	12/13/18 11:55
40180962020	TRIP BLANK	Water	12/11/18 00:00	12/13/18 11:55

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180962001	EW-6	EPA 8260	LAP	8	PASI-G
40180962002	MW-4B	EPA 8260	LAP	8	PASI-G
40180962003	MW-10A	EPA 6010	TXW	1	PASI-G
40180962004	MW-34A	EPA 8260	LAP	8	PASI-G
40180962005	MW-68A	EPA 8260	LAP	8	PASI-G
40180962006	MW-68B	EPA 8260	LAP	8	PASI-G
40180962007	MW-70A	EPA 8260	LAP	8	PASI-G
40180962008	MW-76A	EPA 8260	LAP	8	PASI-G
40180962009	MW-77A	EPA 8260	HNW	8	PASI-G
40180962010	MW-77A DUP	EPA 8260	LAP	8	PASI-G
40180962011	MW-77B	EPA 8260	LAP	8	PASI-G
40180962012	MH-18	EPA 8260	HNW	8	PASI-G
40180962013	TRIP BLANK	EPA 8260	HNW	8	PASI-G
40180962014	EC-1	EPA 8260	HNW	8	PASI-G
40180962015	RW-3A	EPA 8260	LAP	8	PASI-G
40180962016	RW-3B	EPA 8260	LAP	8	PASI-G
40180962017	RW-3B DUP	EPA 8260	LAP	8	PASI-G
40180962018	RW-3C	EPA 8260	HNW	8	PASI-G
40180962019	RW-3C DUP	EPA 8260	HNW	8	PASI-G
40180962020	TRIP BLANK	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO INDU
Pace Project No.: 40180962

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180962001	EW-6					
EPA 8260	1,1,1-Trichloroethane	0.93J	ug/L	1.0	12/14/18 12:23	
EPA 8260	Trichloroethene	0.89J	ug/L	1.0	12/14/18 12:23	
40180962002	MW-4B					
EPA 8260	Trichloroethene	0.26J	ug/L	1.0	12/14/18 12:46	
40180962003	MW-10A					
EPA 6010	Cadmium, Dissolved	16.1	ug/L	5.0	12/17/18 22:43	
40180962005	MW-68A					
EPA 8260	Trichloroethene	0.30J	ug/L	1.0	12/14/18 13:32	
40180962007	MW-70A					
EPA 8260	1,1-Dichloroethane	0.35J	ug/L	1.0	12/14/18 14:17	
EPA 8260	Trichloroethene	0.29J	ug/L	1.0	12/14/18 14:17	
40180962009	MW-77A					
EPA 8260	1,1,1-Trichloroethane	0.25J	ug/L	1.0	12/18/18 14:48	
EPA 8260	Trichloroethene	0.85J	ug/L	1.0	12/18/18 14:48	
40180962010	MW-77A DUP					
EPA 8260	1,1,1-Trichloroethane	0.25J	ug/L	1.0	12/14/18 15:03	
EPA 8260	Trichloroethene	2.2	ug/L	1.0	12/14/18 15:03	
40180962011	MW-77B					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	12/14/18 15:26	
40180962012	MH-18					
EPA 8260	1,1,1-Trichloroethane	0.45J	ug/L	1.0	12/18/18 15:09	
EPA 8260	Trichloroethene	0.41J	ug/L	1.0	12/18/18 15:09	
40180962015	RW-3A					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	12/14/18 16:34	
40180962016	RW-3B					
EPA 8260	1,1,1-Trichloroethane	0.40J	ug/L	1.0	12/14/18 16:57	
EPA 8260	Trichloroethene	3.3	ug/L	1.0	12/14/18 16:57	
40180962017	RW-3B DUP					
EPA 8260	1,1,1-Trichloroethane	0.27J	ug/L	1.0	12/14/18 17:20	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	12/14/18 17:20	
40180962018	RW-3C					
EPA 8260	1,1,1-Trichloroethane	0.30J	ug/L	1.0	12/18/18 15:31	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	12/18/18 15:31	
40180962019	RW-3C DUP					
EPA 8260	1,1,1-Trichloroethane	0.30J	ug/L	1.0	12/18/18 15:52	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	12/18/18 15:52	

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: December 19, 2018

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO INDU
Pace Project No.: 40180962

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: December 19, 2018

General Information:

19 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: EW-6 **Lab ID: 40180962001** Collected: 12/10/18 14:45 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.93J	ug/L	1.0	0.24	1		12/14/18 12:23	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 12:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 12:23	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:23	127-18-4	
Trichloroethene	0.89J	ug/L	1.0	0.26	1		12/14/18 12:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		12/14/18 12:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/14/18 12:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/14/18 12:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-4B **Lab ID: 40180962002** Collected: 12/10/18 13:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 12:46	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 12:46	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 12:46	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:46	127-18-4	
Trichloroethene	0.26J	ug/L	1.0	0.26	1		12/14/18 12:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/14/18 12:46	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		12/14/18 12:46	1868-53-7	
Toluene-d8 (S)	108	%	70-130		1		12/14/18 12:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-10A **Lab ID: 40180962003** Collected: 12/10/18 11:40 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	16.1	ug/L	5.0	1.3	1		12/17/18 22:43	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-34A **Lab ID: 40180962004** Collected: 12/10/18 12:15 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 13:09	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 13:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 13:09	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 13:09	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/14/18 13:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/14/18 13:09	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		12/14/18 13:09	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/14/18 13:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-68A **Lab ID: 40180962005** Collected: 12/10/18 12:45 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 13:32	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 13:32	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 13:32	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 13:32	127-18-4	
Trichloroethene	0.30J	ug/L	1.0	0.26	1		12/14/18 13:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/14/18 13:32	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/14/18 13:32	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/14/18 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-68B **Lab ID: 40180962006** Collected: 12/10/18 13:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 13:54	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 13:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 13:54	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 13:54	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/14/18 13:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/14/18 13:54	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/14/18 13:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/14/18 13:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-70A **Lab ID: 40180962007** Collected: 12/10/18 12:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 14:17	71-55-6	
1,1-Dichloroethane	0.35J	ug/L	1.0	0.27	1		12/14/18 14:17	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 14:17	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 14:17	127-18-4	
Trichloroethene	0.29J	ug/L	1.0	0.26	1		12/14/18 14:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/14/18 14:17	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/14/18 14:17	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/14/18 14:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-76A **Lab ID: 40180962008** Collected: 12/10/18 13:50 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 12:01	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 12:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 12:01	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:01	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/14/18 12:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/14/18 12:01	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		12/14/18 12:01	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/14/18 12:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-77A **Lab ID: 40180962009** Collected: 12/10/18 13:35 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.25J	ug/L	1.0	0.24	1		12/18/18 14:48	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 14:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 14:48	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 14:48	127-18-4	
Trichloroethene	0.85J	ug/L	1.0	0.26	1		12/18/18 14:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/18/18 14:48	460-00-4	HS
Dibromofluoromethane (S)	96	%	70-130		1		12/18/18 14:48	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/18/18 14:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-77A DUP **Lab ID: 40180962010** Collected: 12/10/18 13:35 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.25J	ug/L	1.0	0.24	1		12/14/18 15:03	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 15:03	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 15:03	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 15:03	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.26	1		12/14/18 15:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/14/18 15:03	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/14/18 15:03	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		12/14/18 15:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MW-77B **Lab ID: 40180962011** Collected: 12/10/18 13:25 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 15:26	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 15:26	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 15:26	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 15:26	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.26	1		12/14/18 15:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/14/18 15:26	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/14/18 15:26	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/14/18 15:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: MH-18 **Lab ID: 40180962012** Collected: 12/10/18 14:30 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.45J	ug/L	1.0	0.24	1		12/18/18 15:09	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 15:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 15:09	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 15:09	127-18-4	
Trichloroethene	0.41J	ug/L	1.0	0.26	1		12/18/18 15:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/18/18 15:09	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		12/18/18 15:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/18/18 15:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: TRIP BLANK **Lab ID: 40180962013** Collected: 12/10/18 00:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/18 16:35	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 16:35	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 16:35	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 16:35	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/18/18 16:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/18/18 16:35	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/18/18 16:35	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/18/18 16:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: EC-1 **Lab ID: 40180962014** Collected: 12/11/18 08:30 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 13:24	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 13:24	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 13:24	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 13:24	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/14/18 13:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		12/14/18 13:24	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		12/14/18 13:24	1868-53-7	
Toluene-d8 (S)	109	%	70-130		1		12/14/18 13:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: RW-3A **Lab ID: 40180962015** Collected: 12/11/18 08:50 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/14/18 16:34	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 16:34	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:34	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 16:34	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.26	1		12/14/18 16:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/14/18 16:34	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/14/18 16:34	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		12/14/18 16:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: RW-3B **Lab ID: 40180962016** Collected: 12/11/18 08:55 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.40J	ug/L	1.0	0.24	1		12/14/18 16:57	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 16:57	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 16:57	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 16:57	127-18-4	
Trichloroethene	3.3	ug/L	1.0	0.26	1		12/14/18 16:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/14/18 16:57	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/14/18 16:57	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/14/18 16:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: RW-3B DUP **Lab ID:** 40180962017 Collected: 12/11/18 08:55 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.27J	ug/L	1.0	0.24	1		12/14/18 17:20	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/14/18 17:20	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/14/18 17:20	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/14/18 17:20	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.26	1		12/14/18 17:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/14/18 17:20	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/14/18 17:20	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/14/18 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: RW-3C **Lab ID: 40180962018** Collected: 12/11/18 09:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.30J	ug/L	1.0	0.24	1		12/18/18 15:31	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 15:31	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 15:31	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 15:31	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.26	1		12/18/18 15:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/18/18 15:31	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/18/18 15:31	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/18/18 15:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: RW-3C DUP **Lab ID: 40180962019** Collected: 12/11/18 09:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.30J	ug/L	1.0	0.24	1		12/18/18 15:52	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 15:52	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 15:52	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 15:52	127-18-4	
Trichloroethene	3.5	ug/L	1.0	0.26	1		12/18/18 15:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/18/18 15:52	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		12/18/18 15:52	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/18/18 15:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Sample: TRIP BLANK **Lab ID: 40180962020** Collected: 12/11/18 00:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/18 16:14	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/18/18 16:14	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/18/18 16:14	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/18/18 16:14	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/18/18 16:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/18/18 16:14	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/18/18 16:14	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/18/18 16:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

QC Batch: 309431

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Associated Lab Samples: 40180962003

METHOD BLANK: 1807705

Matrix: Water

Associated Lab Samples: 40180962003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	12/17/18 21:54	

LABORATORY CONTROL SAMPLE: 1807706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	457	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1807707 1807708

Parameter	Units	40180781003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Cadmium, Dissolved	ug/L	<1.3	500	500	491	516	98	103	75-125	5	20

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

QC Batch: 309175 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40180962001, 40180962002, 40180962004, 40180962005, 40180962006, 40180962007, 40180962008, 40180962010, 40180962011, 40180962015, 40180962016, 40180962017

METHOD BLANK: 1806023 Matrix: Water
 Associated Lab Samples: 40180962001, 40180962002, 40180962004, 40180962005, 40180962006, 40180962007, 40180962008, 40180962010, 40180962011, 40180962015, 40180962016, 40180962017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/14/18 09:00	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/14/18 09:00	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/14/18 09:00	
Tetrachloroethene	ug/L	<0.33	1.1	12/14/18 09:00	
Trichloroethene	ug/L	<0.26	1.0	12/14/18 09:00	
4-Bromofluorobenzene (S)	%	96	70-130	12/14/18 09:00	
Dibromofluoromethane (S)	%	98	70-130	12/14/18 09:00	
Toluene-d8 (S)	%	102	70-130	12/14/18 09:00	

LABORATORY CONTROL SAMPLE: 1806024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-133	
1,1-Dichloroethane	ug/L	50	44.0	88	70-134	
1,1-Dichloroethene	ug/L	50	40.8	82	75-132	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Trichloroethene	ug/L	50	56.2	112	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1806025 1806026

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40180962008 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.24	50	50	53.2	51.8	106	104	70-136	3	20
1,1-Dichloroethane	ug/L	<0.27	50	50	46.6	45.1	93	90	70-139	3	20
1,1-Dichloroethene	ug/L	<0.24	50	50	42.1	40.6	84	81	72-137	4	20
Tetrachloroethene	ug/L	<0.33	50	50	48.8	50.2	98	100	70-132	3	20
Trichloroethene	ug/L	<0.26	50	50	55.6	53.3	111	107	70-131	4	20
4-Bromofluorobenzene (S)	%						105	110	70-130		
Dibromofluoromethane (S)	%						99	96	70-130		
Toluene-d8 (S)	%						101	104	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

QC Batch:	309178	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40180962014		

METHOD BLANK: 1806031 Matrix: Water
Associated Lab Samples: 40180962014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/14/18 11:10	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/14/18 11:10	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/14/18 11:10	
Tetrachloroethene	ug/L	<0.33	1.1	12/14/18 11:10	
Trichloroethene	ug/L	<0.26	1.0	12/14/18 11:10	
4-Bromofluorobenzene (S)	%	105	70-130	12/14/18 11:10	
Dibromofluoromethane (S)	%	105	70-130	12/14/18 11:10	
Toluene-d8 (S)	%	108	70-130	12/14/18 11:10	

LABORATORY CONTROL SAMPLE: 1806032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.8	106	70-133	
1,1-Dichloroethane	ug/L	50	51.7	103	70-134	
1,1-Dichloroethene	ug/L	50	48.5	97	75-132	
Tetrachloroethene	ug/L	50	56.1	112	70-130	
Trichloroethene	ug/L	50	58.2	116	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			109	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1806033 1806034

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40180962014 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.2	53.5	104	107	70-136	3	20
1,1-Dichloroethane	ug/L	<0.27	50	50	51.1	53.2	102	106	70-139	4	20
1,1-Dichloroethene	ug/L	<0.24	50	50	47.5	48.7	95	97	72-137	3	20
Tetrachloroethene	ug/L	<0.33	50	50	54.5	55.9	109	112	70-132	3	20
Trichloroethene	ug/L	<0.26	50	50	56.7	59.5	113	119	70-131	5	20
4-Bromofluorobenzene (S)	%						112	113	70-130		
Dibromofluoromethane (S)	%						105	105	70-130		
Toluene-d8 (S)	%						108	108	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

QC Batch: 309361 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40180962009, 40180962012, 40180962013, 40180962018, 40180962019, 40180962020

METHOD BLANK: 1807349 Matrix: Water
Associated Lab Samples: 40180962009, 40180962012, 40180962013, 40180962018, 40180962019, 40180962020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/18/18 07:38	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/18/18 07:38	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/18/18 07:38	
Tetrachloroethene	ug/L	<0.33	1.1	12/18/18 07:38	
Trichloroethene	ug/L	<0.26	1.0	12/18/18 07:38	
4-Bromofluorobenzene (S)	%	95	70-130	12/18/18 07:38	
Dibromofluoromethane (S)	%	98	70-130	12/18/18 07:38	
Toluene-d8 (S)	%	99	70-130	12/18/18 07:38	

LABORATORY CONTROL SAMPLE: 1807350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.0	94	70-133	
1,1-Dichloroethane	ug/L	50	63.0	126	70-134	
1,1-Dichloroethene	ug/L	50	56.2	112	75-132	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1807400 1807401

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40181065001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	47.3	48.6	95	97	70-136	3	20
1,1-Dichloroethane	ug/L	<0.27	50	50	62.2	64.7	124	129	70-139	4	20
1,1-Dichloroethene	ug/L	<0.24	50	50	56.0	59.7	112	119	72-137	6	20
Tetrachloroethene	ug/L	<0.33	50	50	49.0	50.1	98	100	70-132	2	20
Trichloroethene	ug/L	<0.26	50	50	51.3	52.5	103	105	70-131	2	20
4-Bromofluorobenzene (S)	%						96	96	70-130		
Dibromofluoromethane (S)	%						100	101	70-130		
Toluene-d8 (S)	%						101	100	70-130		

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QUALIFIERS

Project: 34283.000 NATIONAL PRESTO INDU
Pace Project No.: 40180962

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO INDU

Pace Project No.: 40180962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40180962003	MW-10A	EPA 6010	309431		
40180962001	EW-6	EPA 8260	309175		
40180962002	MW-4B	EPA 8260	309175		
40180962004	MW-34A	EPA 8260	309175		
40180962005	MW-68A	EPA 8260	309175		
40180962006	MW-68B	EPA 8260	309175		
40180962007	MW-70A	EPA 8260	309175		
40180962008	MW-76A	EPA 8260	309175		
40180962009	MW-77A	EPA 8260	309361		
40180962010	MW-77A DUP	EPA 8260	309175		
40180962011	MW-77B	EPA 8260	309175		
40180962012	MH-18	EPA 8260	309361		
40180962013	TRIP BLANK	EPA 8260	309361		
40180962014	EC-1	EPA 8260	309178		
40180962015	RW-3A	EPA 8260	309175		
40180962016	RW-3B	EPA 8260	309175		
40180962017	RW-3B DUP	EPA 8260	309175		
40180962018	RW-3C	EPA 8260	309361		
40180962019	RW-3C DUP	EPA 8260	309361		
40180962020	TRIP BLANK	EPA 8260	309361		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



COC No. 40180962

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: National Presto Industries (NPI)
Project State: WI
Sampled By (Print): Brett Seidlitz / Chelsea Payne
Sampled By (Sign): [Signature]
PO #: [Blank]
Regulatory Program: [Blank]

CHAIN OF CUSTODY

Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Table with columns for Y/N, Pick Letter, Analyses Requested, NPI Short-list VOCs, and Dissolved cadmium. Rows 001-013.

Data Package Options (billable): EPA Level III, EPA Level IV
MS/MSD: On your sample (billable), NOT needed on your sample
Matrix Codes: A=Air, B=Biota, C=Charcoal, O=Oil, S=Soil, Sl=Sludge, W=Water, DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Waste Water, WP=Wipe

Table with columns for PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRIX, ANALYSES REQUESTED, NPI Short-list VOCs, and Dissolved cadmium. Rows 001-013.

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722
CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:
Transmit Prelim Rush Results by (complete what you want):
Email #1, Email #2, Telephone, Fax
Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40180962
Receipt Temp = 20.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Gannett Fleming, Inc.
Branch/Location: Madison, WI
Project Contact: Cliff Wright
Phone: 608/836-1500 x6722
Project Number: 34283.000
Project Name: National Presto Industries (NPI)
Project State: WI
Sampled By (Print): Brett Seidlitz
Sampled By (Sign): *[Signature]*
PO #:
Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2
 COC No. 40180962
 Page 35 of 37

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
 (YES/NO)
PRESERVATION
 (CODE)*

Y / N	N	Y																		
	B	D																		
Analyses Requested	NPI Short-list VOCs		Dissolved cadmium																	

Quote #: Pace 2018
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
Invoice To Contact: See "Mail to Contact" info above
Invoice To Company: "
Invoice To Address: See "Mail to Contact" info above. And send copy of Level IV data package to Mary Gannon for validation.
Invoice To Phone: 608/836-1500 x6722

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	NPI Short-list VOCs	Dissolved cadmium															
		DATE	TIME																			
014	EC-1	12/11/08	8:30	GW		8																
015	RW-3A		8:50			3																
016	RW-3B		8:55			3																
017	RW-3B dup		"			2																
018	RW-3C		9:00			3																
019	RW-3C dup		"			2																
020	Trip Blank	12/11/08				2																

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>[Signature]</i>	Date/Time: 12/12/08 15:00	Received By:	Date/Time:
Relinquished By: <i>[Signature]</i>	Date/Time: 12/13/08 11:55	Received By: <i>[Signature]</i>	Date/Time: 12/13/08 11:55
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
 40180962

Receipt Temp = *[Signature]* °C

Sample Receipt pH
 OK / Adjusted

Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Ganbrett Fleming

Project # 40180962

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: 101269

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: AB

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU								WGFU	WPFU	SP5T	ZPLC	GN	
001																	2																	2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
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017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018
 Issuing Authority:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40180962**

Client Name: Gannett Fleming

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: RO1

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 12/13/18
 Initials: DM

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>410</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for DM

Date: 12/13/18

December 21, 2018

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #3428.000
NPI Q4 GW
Reviewed by CCW
12/30/18

RE: Project: 34283.000 NPI
Pace Project No.: 40180967

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary Gannon, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI
Pace Project No.: 40180967

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40180967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40180967001	CW-15	Water	12/11/18 08:05	12/13/18 11:55
40180967002	CW-19	Water	12/11/18 08:07	12/13/18 11:55
40180967003	CW-22	Water	12/11/18 08:15	12/13/18 11:55
40180967004	CW-23	Water	12/11/18 08:10	12/13/18 11:55
40180967005	RAW	Water	12/11/18 08:00	12/13/18 11:55
40180967006	TOWER A	Water	12/11/18 08:03	12/13/18 11:55
40180967007	TOWER B	Water	12/11/18 07:57	12/13/18 11:55
40180967008	FINISHED PRODUCT	Water	12/11/18 07:50	12/13/18 11:55
40180967009	TRIP BLANK	Water	12/11/18 00:00	12/13/18 11:55

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40180967

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180967001	CW-15	EPA 524.2	DS2	8	PASI-M
40180967002	CW-19	EPA 524.2	DS2	8	PASI-M
40180967003	CW-22	EPA 524.2	DS2	8	PASI-M
40180967004	CW-23	EPA 524.2	DS2	8	PASI-M
40180967005	RAW	EPA 524.2	DS2	8	PASI-M
40180967006	TOWER A	EPA 524.2	DS2	8	PASI-M
40180967007	TOWER B	EPA 524.2	DS2	8	PASI-M
40180967008	FINISHED PRODUCT	EPA 524.2	DS2	8	PASI-M
40180967009	TRIP BLANK	EPA 524.2	DS2	8	PASI-M

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40180967

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180967002	CW-19					
EPA 524.2	Trichloroethene	0.62	ug/L	0.39	12/20/18 12:34	
40180967003	CW-22					
EPA 524.2	Tetrachloroethene	0.41J	ug/L	0.56	12/20/18 12:57	
EPA 524.2	1,1,1-Trichloroethane	0.59J	ug/L	0.62	12/20/18 12:57	
EPA 524.2	Trichloroethene	2.7	ug/L	0.39	12/20/18 12:57	
40180967005	RAW					
EPA 524.2	Trichloroethene	0.36J	ug/L	0.39	12/20/18 14:33	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40180967

Method: EPA 524.2

Description: 524.2 MSV

Client: Gannett Fleming Inc.

Date: December 21, 2018

General Information:

9 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: CW-15 **Lab ID: 40180967001** Collected: 12/11/18 08:05 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 12:10	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 12:10	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 12:10	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 12:10	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 12:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		12/20/18 12:10	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		12/20/18 12:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		12/20/18 12:10	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: CW-19 **Lab ID: 40180967002** Collected: 12/11/18 08:07 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 12:34	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 12:34	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 12:34	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 12:34	71-55-6	
Trichloroethene	0.62	ug/L	0.39	0.12	1		12/20/18 12:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		12/20/18 12:34	460-00-4	
Toluene-d8 (S)	104	%	75-125		1		12/20/18 12:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		12/20/18 12:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: CW-22 **Lab ID: 40180967003** Collected: 12/11/18 08:15 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 12:57	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 12:57	75-35-4	
Tetrachloroethene	0.41J	ug/L	0.56	0.17	1		12/20/18 12:57	127-18-4	
1,1,1-Trichloroethane	0.59J	ug/L	0.62	0.19	1		12/20/18 12:57	71-55-6	
Trichloroethene	2.7	ug/L	0.39	0.12	1		12/20/18 12:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		12/20/18 12:57	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		12/20/18 12:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		12/20/18 12:57	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: CW-23 **Lab ID: 40180967004** Collected: 12/11/18 08:10 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 13:21	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 13:21	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 13:21	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 13:21	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 13:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		12/20/18 13:21	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		12/20/18 13:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		12/20/18 13:21	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: RAW **Lab ID: 40180967005** Collected: 12/11/18 08:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 14:33	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 14:33	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 14:33	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 14:33	71-55-6	
Trichloroethene	0.36J	ug/L	0.39	0.12	1		12/20/18 14:33	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		12/20/18 14:33	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		12/20/18 14:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		12/20/18 14:33	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: TOWER A **Lab ID: 40180967006** Collected: 12/11/18 08:03 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 13:45	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 13:45	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 13:45	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 13:45	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 13:45	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	75-125		1		12/20/18 13:45	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		12/20/18 13:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		12/20/18 13:45	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: TOWER B **Lab ID: 40180967007** Collected: 12/11/18 07:57 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 14:09	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 14:09	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 14:09	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 14:09	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 14:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		12/20/18 14:09	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		12/20/18 14:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		12/20/18 14:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: FINISHED PRODUCT **Lab ID: 40180967008** Collected: 12/11/18 07:50 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 11:46	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 11:46	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 11:46	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 11:46	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 11:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		12/20/18 11:46	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		12/20/18 11:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		12/20/18 11:46	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40180967

Sample: TRIP BLANK **Lab ID: 40180967009** Collected: 12/11/18 00:00 Received: 12/13/18 11:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/20/18 10:34	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/20/18 10:34	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/20/18 10:34	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/20/18 10:34	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/20/18 10:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		12/20/18 10:34	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		12/20/18 10:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		12/20/18 10:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40180967

QC Batch: 582014 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40180967001, 40180967002, 40180967003, 40180967004, 40180967005, 40180967006, 40180967007, 40180967008, 40180967009

METHOD BLANK: 3154955 Matrix: Water
Associated Lab Samples: 40180967001, 40180967002, 40180967003, 40180967004, 40180967005, 40180967006, 40180967007, 40180967008, 40180967009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.19	0.62	12/20/18 10:10	
1,1-Dichloroethane	ug/L	<0.16	0.55	12/20/18 10:10	
1,1-Dichloroethene	ug/L	<0.19	0.62	12/20/18 10:10	
Tetrachloroethene	ug/L	<0.17	0.56	12/20/18 10:10	
Trichloroethene	ug/L	<0.12	0.39	12/20/18 10:10	
1,2-Dichloroethane-d4 (S)	%	98	75-125	12/20/18 10:10	
4-Bromofluorobenzene (S)	%	100	75-125	12/20/18 10:10	
Toluene-d8 (S)	%	106	75-125	12/20/18 10:10	

LABORATORY CONTROL SAMPLE: 3154956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Trichloroethene	ug/L	20	20.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			95	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3154994 3154995

Parameter	Units	3154994		3154995		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	20.8	104	104	70-130	0	20
1,1-Dichloroethane	ug/L	ND	20	20	20.0	20.1	100	100	70-130	1	20
1,1-Dichloroethene	ug/L	ND	20	20	19.9	20.0	99	100	70-130	1	20
Tetrachloroethene	ug/L	ND	20	20	20.3	20.6	102	103	70-130	1	20
Trichloroethene	ug/L	ND	20	20	21.3	20.8	107	104	70-130	2	20
1,2-Dichloroethane-d4 (S)	%						93	99	75-125		
4-Bromofluorobenzene (S)	%						99	98	75-125		
Toluene-d8 (S)	%						100	99	75-125		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40180967

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40180967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40180967001	CW-15	EPA 524.2	582014		
40180967002	CW-19	EPA 524.2	582014		
40180967003	CW-22	EPA 524.2	582014		
40180967004	CW-23	EPA 524.2	582014		
40180967005	RAW	EPA 524.2	582014		
40180967006	TOWER A	EPA 524.2	582014		
40180967007	TOWER B	EPA 524.2	582014		
40180967008	FINISHED PRODUCT	EPA 524.2	582014		
40180967009	TRIP BLANK	EPA 524.2	582014		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: Gannett Fleming

Project # 40180967

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T
001																															2.5 / 5 / 10
002																															2.5 / 5 / 10
003																															2.5 / 5 / 10
004																															2.5 / 5 / 10
005																															2.5 / 5 / 10
006																															2.5 / 5 / 10
007																															2.5 / 5 / 10
008																															2.5 / 5 / 10
009																															2.5 / 5 / 10
010																															2.5 / 5 / 10
011																															2.5 / 5 / 10
012																															2.5 / 5 / 10
013																															2.5 / 5 / 10
014																															2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3C 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

Sample Condition Upon Receipt Form (SCUR)

Project #

WO#: 40180967

Client Name: Gannett Fleming

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: ROJ

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 12/13/18
Initials: [Signature]

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>410</u>		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 12/13/18

APPENDIX C (available upon request)

TEXT OF THE 2018 ANALYTICAL DATA VALIDATION REPORTS

Presto Site Data Validation Technical Memorandum

March 2018 Sampling Event



Technical memorandum

DATE: August 27, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

March 2018 Quarterly Groundwater Sampling Event

Project#: 34283

1.0 OVERVIEW

Analytical results (8260/524.2 volatiles, dissolved cadmium, 6010 metals) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. on March 29, 2018 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

Presto Site Data Validation Technical Memorandum

March 2018 Sampling Event

DQO Attainment

Sample EC-1 Dup for 8260 will have a "J" qualified added indicating it is an estimated value due to failure of the field duplicate criteria.

All dissolved Cadmium data was usable as reported without qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 Dissolved Cadmium Data

Pace utilized EPA method 6010 for cadmium analysis. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required method 6010 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment**2.2.1 Holding Time/Preservation**

All samples for 6010 were analyzed within the 6-month holding time for metals. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

March 2018 Sampling Event

2.2.3 Laboratory Blanks

No detects were reported in the method blanks, initial or continuing calibration blanks analyzed with the project samples. No action was needed to qualify sample data.

2.2.4 Laboratory Control Standard

An LCS sample at 500 ug/L was analyzed for 6010 metals with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

2.2.5 MS/MSD Sample Recovery and RPD

Recoveries and the RPD values for metals by 6010 in the samples analyzed as the MS/MSD (MW- 10A) were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.6 Serial Dilution

No serial dilutions were analyzed on client samples. The batch had a serial dilution on a non-client sample. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for metals with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All metals data as reported by Pace was acceptable for use in the investigation.

March 2018 Sampling Event

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. The chain of custody indicated an MS/MSD on sample EC-1 for 8260 but an MS/MSD was not run on this sample. A batch MS/MSD was run.

No custody seals were present on the sample coolers for 8260 analyses and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

3.2 Compliance Assessment

3.2.1 Holding Times/Preservation

All samples were analyzed within the 14-day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven-point initial calibration curves were analyzed on 2/6/18 and 3/26/18 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

A nine-point initial calibration for method 524.2 was analyzed on 4/4/2018. All RSD values for the reported volatile organics were less than the 20% limit required for method 524.2. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for SW846 8260B and 524.2. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

The chain of custody indicated an MS/MSD on sample EC-1 for 8260 but an MS/MSD was not run on this sample. A batch MS/MSD was analyzed and met all criteria. One project sample used for method 8260 analyses MS/MSD was MW-4B. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data. No action was needed to qualify sample data.

No project sample was specified or analyzed for method 524.2 MS/MSD. A batch MS/MSD was analyzed and met all criteria. No action was needed to qualify sample data.

3.2.7 Laboratory Control Standard

LCS samples at 20 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of - 50 % to + 100 %. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

March 2018 Sampling Event

3.3 Field QC Results

Three trip blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data.

Field duplicates were collected for EC-1. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	EC-1	EC-1 Dup	RPD	MW-76A	MW-76A Dup	RPD
Trichloroethene	0.86 J ug/L	1.7 ug/L	66%			
1,1,1-Trichloroethane				0.50 J ug/L	ND	NA

The RPD value for EC-1 was not within 50% as specified on QAPP Worksheet #12. Both the sample and the sample duplicate will be qualified as estimated "J". MW-76A was at the level of detection and non-detect. Due to the level not being quantifiable no qualification is needed.

3.4 Data Usability

Sample EC-1 Dup will have a "J" qualified added indicating it is an estimated value due to failure of the field duplicate criteria.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

Mary Gannett
8/27/18

Table 1 Sample Results Validated March 2018

	Volatiles	Dissolved	Volatiles
	SW846	Cadmium	
SAMPLE ID	8260B	6010	524.2
EW-6	✓		
MH-18	✓		
MW-4B	✓		
MW-10A		✓	
MW-34 A	✓		
MW-68A	✓		
MW-68B	✓		
MW-70A	✓		
MW-76A	✓		
MW-76A DUP	✓		
MW-77A	✓		
MW-77B	✓		
TRIP BLANK	✓		
CW-15			✓
CW-19			✓
CW-22			✓
CW-23			✓
RAW			✓
TOWER A			✓
TOWER B			✓
FINISHED PRODUCT			✓
TRIP BLANK			✓
EC-1	✓		
EC-1 DUP	✓		
TRIP BLANK	✓		
Total	15	1	9

Presto Site Data Validation Technical Memorandum

June 2018 Sampling Event



Technical memorandum

DATE: September 8, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

June 2018 Quarterly Groundwater Sampling Event

Project#: 34283

Mary C Gannon
9/8/18

1.0 OVERVIEW

Analytical results (8260 volatiles, and dissolved cadmium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. on June 18-20, 2018 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin.

Presto Site Data Validation Technical Memorandum

June 2018 Sampling Event

DQO Attainment

Sample EC-1 Dup for 8260 will have a "J" qualified added indicating it is an estimated value due to failure of the field duplicate criteria. All dissolved Cadmium data was usable as reported without qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 Dissolved Cadmium Data

Pace utilized EPA method 6010 for cadmium analysis. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required method 6010 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers in sample delivery groups 40171242 and 40171069 and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment**2.2.1 Holding Time/Preservation**

All samples for 6010 were analyzed within the 6-month holding time for metals. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

No detects were reported in the method blanks, initial or continuing calibration blanks analyzed with the project samples. No action was needed to qualify sample data.

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2.2.4 Laboratory Control Standard

An LCS sample at 500 ug/L was analyzed for 6010 metals with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

2.2.5 MS/MSD Sample Recovery and RPD

No MS/MSD was performed on a client sample. A batch MS/MSD was run and met the required criteria. No action was needed to qualify sample data.

2.2.6 Serial Dilution

No serial dilutions were analyzed on client samples. The batch had a serial dilution on a non-client sample. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for metals with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All metals data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B

Pace utilized EPA methods 8260B for project sample analysis as indicated in Table 1. No significant deviations from this reference method affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers in sample delivery groups 40171242 and 40171069 and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Presto Site Data Validation Technical Memorandum

June 2018 Sampling Event

3.2 Compliance Assessment**3.2.1 Holding Times/Preservation**

All samples were analyzed within the 14-day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 criteria as appropriate. No action was needed to qualify sample data.

Seven-point initial calibration curves were analyzed on 5/18/18, 6/21/18, 6/21/18, 6/22/18 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to method 8260 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for SW846 8260B. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Four project samples were used for method 8260 analyses MS/MSD, RW-3A, MW-38B, MW-76A, MW-4B. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

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3.2.7 Laboratory Control Standard

LCS samples at 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 limits of - 50 % to +100 %. No action was needed to qualify sample data.

3.3 Field QC Results

Four trip blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data.

Field duplicates were collected for EC-1, RW-2B RW-15, RW-3B, MW-45B, MW-77A, and MW-62AR. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	EC-1	EC-1 Dup	RPD	RW-2B	RW-2B Dup	RPD	RW-15	RW-15 Dup	RPD
Trichloroethene	0.86J ug/L	1.5 ug/L	54%	2.0 ug/L	2.1 ug/L	4.8%	3.5 ug/L	3.4 ug/L	2.9%

Sample ID	RW-3B	RW-3B Dup	RPD	MW-45B	MW-45B Dup	RPD	MW-77A	MW-77A Dup	RPD
Trichloroethene	3.4 ug/L	3.5 ug/L	2.9%	2.5 ug/L	2.5 ug/L	0%	0.53J ug/L	0.79J ug/L	NA

The RPD value for EC-1 was not within 50% as specified on QAPP Worksheet #12. Both the sample and the sample duplicate will be qualified as estimated "J". MW-77A were at the level below the reporting limit. Due to the level not being quantifiable no qualification is needed.

3.4 Data Usability

Sample EC-1 Dup will have a "J" qualified added indicating it is an estimated value due to failure of the field duplicate criteria.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Presto Site Data Validation Technical Memorandum
June 2018 Sampling Event

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

*Marg. Remer
9/8/18*

Table 1 Sample Results Validated June 2018

	Volatiles	Dissolved		Volatiles	Dissolved
	SW846	Cadmium		SW846	Cadmium
SAMPLE ID	8260B	6010	SAMPLE ID	8260B	6010
MW-4B	✓		MW-45C	✓	
MW-5A	✓		MW-65B	✓	
MW-62AR	✓		MW-65C	✓	
MW-62AR DUP	✓		MW-76A	✓	
MW-62B	✓		MW-76B	✓	
MW-63A	✓		MW-77A	✓	
MW-66B	✓		MW-77A DUP	✓	
MW-68A	✓		MW-77B	✓	
MW-68B	✓		MW-77C	✓	
MW-74A	✓		MH-18	✓	
TRIP BLANK	✓		TRIP BLANK	✓	
RW-2A	✓		EC-1	✓	
RW-2B	✓		EC-1 DUP	✓	
RW-2B DUP	✓		EC-2	✓	
RW-2C	✓		EC-6	✓	
RW-3A	✓		MW-34B	✓	
RW-15	✓		MW-34C	✓	
RW-15 DUP	✓		MW-51B	✓	
RW-16	✓		MW-52A	✓	
RW-16B	✓		MW-52B	✓	
RW-16C	✓		MW-53B	✓	
RW-3B	✓		MW-54B	✓	
RW-3B DUP	✓		MW-54C	✓	
RW-3C	✓		MW-55B	✓	
WW-15	✓		MW-55C	✓	
EW-6	✓		TRIP BLANK	✓	
MW-23A	✓		MW-10A		✓
MW-23B	✓		MW-34A	✓	✓
MW-35A	✓		MW-70A	✓	
MW-35B	✓		TRIP BLANK	✓	
MW-38A	✓				
MW-38B	✓		Total	66	2
MW-38C	✓				
MW-41A	✓				
MW-41B	✓				
MW-43B	✓				
MW-45B DUP	✓				
MW-45B	✓				

Presto Site Data Validation Technical Memorandum

August 2018 Sampling Event



Technical memorandum

DATE: December 29, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

August 2018 Quarterly Groundwater Sampling Event

Project#: 34283

Mary C. Gannon
12/29/18

1.0 OVERVIEW

Analytical results (8260/624/524.2 volatiles, 6010 dissolved cadmium, 200.8 metals and 2340B hardness calculation, 245.1 mercury, 625/625 SIM, SM4500-CN-E total cyanide, SM4500-CN-G amenable cyanide, 608 PCB/pesticide, SM3500-Cr B hexavalent chromium, 537 modified PFAS and, 1613B Dioxin,) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. on August 14, 2018 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

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DQO Attainment

All volatile organic data are usable as reported without additional qualification.
All dissolved cadmium data are usable as reported without additional qualification.
All 6010 metals/hardness data are usable as reported without additional qualification.
All 625/625 SIM data are usable as reported without qualification.
All cyanide data are usable as reported without additional qualification.
All PCB/pesticide data are usable as reported without additional qualification.
All PFAS data are not usable as reported. Some compounds are qualified as estimated.
All Dioxin data was usable as reported without additional qualification.
All hexavalent chromium data was usable as reported without additional qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 6010 Dissolved Cd, 200.8 Metals/Hardness 2340B Calculation, Cyanide and Hexavalent Chromium

Pace utilized EPA method 6010 for dissolved cadmium, 200.8 for metals/hardness analysis, 4500CN-E/ 4500CN-G for cyanide and SM3500-Cr B for hexavalent chromium. No significant deviations from these method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

All analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

Not all custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment**2.2.1 Holding Time/Preservation**

All samples were analyzed within the method required holding times. Verification of sample pH upon receipt/analysis indicated that all samples that required preservation were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. Sample MW-10A had a time of 7:50 recorded on the label and 8:50 on the chain of custody. Nothing was noted on the chain of custody for resolutions. Due to the

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long holding time for the analyses on this sample the hour difference has no effect on the sample results. No action was needed to qualify sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. All CRDL check standards were within the method required limits. ICP interference check samples met the 80-120% recovery criteria. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

ICP-MS method blank gave results above the MDL but less than the reporting limit for copper and zinc. Sample MH-18 was qualified as estimated "J" and the laboratory added a "B" qualifier indicating there was possible blank contamination for copper and zinc. No detects were reported in the other method blanks, initial or continuing calibration blanks analyzed with the project samples. No additional action was needed to qualify sample data.

2.2.4 Laboratory Control Standard

An LCS sample was analyzed for all methods with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

2.2.5 MS/MSD Sample Recovery and RPD

Most methods did not have client specific MS/MSDs run in the batch. A batch MS/MSD was run at appropriate intervals. Recoveries and the RPD values for in the samples analyzed as the MS/MSD were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.6 Serial Dilution

No serial dilutions were analyzed on client samples. One batch had a serial dilution on a non-client sample. The other batches provided no data of a serial dilution. No action was needed to qualify sample data.

2.2.7 Field QC Results

No field blanks or field duplicates were collected and analyzed for metals or hexavalent chromium with the project samples. No action was needed to qualify sample data.

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2.3 Data Usability

All metals, hardness and hexavalent chromium data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/624/524.2

Pace utilized EPA methods 8260B, 624 and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260, 624 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed with one exception. MH-18 indicated for PACE project number 40174216 was not analyzed as it was analyzed under PACE project number 40174032.

Not all custody seals were present on the sample coolers for and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

3.2 Compliance Assessment**3.2.1 Holding Times/Preservation**

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". Sample MW-10A had a time of 7:50 recorded on the label and 8:50 on the chain of custody. Nothing was noted on the chain of custody for resolutions. Due to the long holding time for the analyses on this sample the hour difference has no effect on the sample results. No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260, 624 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

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Seven point initial calibration curves were analyzed on 7/18/18, 7/16/18, and 7/12/18 for methods 624 and 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. A few compounds for method 624 did not meet the criteria for averaged curve and a linear curve was used instead. No action was needed to qualify sample data.

A nine point initial calibration for method 524.2 was analyzed on 8/20/18. Most RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. Trichloroethene did not meet this criteria and calibration was evaluated on a quadratic curve. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to all methods. All Calibration Check Compounds met the method limits. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were EC-1 and, MW-76 A. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

No project sample was specified or analyzed for method 624 or 524.2 MS/MSD. A batch MS/MSD was analyzed for 524.2 and met all criteria. No action was needed to qualify sample data.

3.2.7 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

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August 2018 Sampling Event

3.2.8 Internal Standards

Internal standard areas in project samples were within the method limits of - 50 % to + 100 %. No action was needed to qualify sample data.

3.2.9 Field QC Results

Three blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data.

Field duplicates were collected for EW-6, and MW-77A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-77A	MW-77A Dup	RPD	EW-6	EW-6 Dup	RPD
Trichloroethene	0.64 J ug/L	0.68 J ug/L	6%	0.79 J ug/L	0.70 J ug/L	12%
1,1,1-trichloroethane	0.29 J ug/L	<0.24 U ug/L	NA	1.1 ug/L	0.96 ug/L	14%

The RPD values were within 50% as specified on QAPP Worksheet #12. No action taken was needed to qualify sample data.

3.3 Data Usability

All volatile organic data was useable as reported without additional qualification.

4.0 SEMIVOLATILE DATA BY METHODS 625/625 SIM

Pace utilized EPA methods 625 and 625 SIM for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

4.1 Completeness Assessment

The required method 625 and 625 SIM frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

4.2 Compliance Assessment

4.2.1 Holding Times/Preservation

All samples were extracted within the 7 day holding time. No action was needed to qualify sample data.

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Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

4.2.2 Initial Calibration and Tuning

DFTPP tuning results met method 625 and 625 SIM criteria as appropriate. No action was needed to qualify sample data.

A seven point initial calibration curve was analyzed on 8/8/18 for method 625. The 35 percent RSD limit required by method 625 was met for most reported compounds. A few compounds did not meet this criteria and were calculated based on a quadratic or linear curve. No action was needed to qualify sample data.

An eight point initial calibration for method 625 SIM was analyzed on 7/10/18. All RSD values were less than the 15 percent. No action was needed to qualify sample data.

4.2.3 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to methods 625/SIM. All Calibration Check Compounds met the method 625/SIM limits of < 20 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

4.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

4.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits. No action was needed to qualify sample data.

4.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

4.2.7 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2018 Sampling Event

4.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method limits of - 50 % to + 100 %. No action was needed to qualify sample data.

4.2.9 Field QC Results

No trip blanks or field duplicates were received with this set of data. No action was needed to qualify sample data.

4.3 Data Usability

All 625 and 625 SIM data were useable as reported without additional qualification.

5.0 PCB and Pesticide by Method 608

Pace utilized EPA methods 608 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

5.1 Completeness Assessment

The required method 608 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

5.2 Compliance Assessment

5.2.1 Holding Times/Preservation

All samples were analyzed within the 72 hour holding time. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

5.2.2 Initial Calibration

A five point initial calibration curve was analyzed on 8/2/18 for pesticides. The limits required by method 608 (10%) for averaging were not met for toxaphene (12%) but was acceptable for all other compounds. Based on the sample being non-detect and all initial and continuing calibration being met no action was needed to qualify sample data.

A five point initial calibration curve was analyzed on 7/10/18 for PCBs. The limits required by method 606 were met for all reported compounds. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

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5.2.3 Continuing Calibration

A continuing calibration verification was analyzed according to method 608 before analysis. The continuing calibration verification met the limits required by method 606 (15%). No action was needed to qualify sample data.

5.2.4 Breakdown Check

A breakdown check (Endrin/DDT) was analyzed for pesticide analysis at the beginning of each batch. Degradation met the criteria at <15%. No action was needed to qualify sample data.

5.2.5 Method Blanks

No detectable compounds above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

5.2.6 Surrogate Recoveries

All surrogate recoveries were within Pace limits. No action was needed to qualify sample data.

5.2.7 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

5.2.8 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

5.2.9 Field QC Results

No trip blanks or field duplicates were received with this set of data. No action was needed to qualify sample data.

5.3 Data Usability

All 680 data were useable as reported without additional qualification.

6.0 Dioxins by Method 1613B

PACE utilized EPA method 1613B for project sample analysis. No significant deviations from this reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

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August 2018 Sampling Event

6.1 Completeness Assessment

The required method 1613 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

6.2 Compliance Assessment**6.2.1 Holding Times/Preservation**

There is no published holding time for method 1613. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

6.2.2 Initial Calibration

A five point initial calibration curve was analyzed on 8/23/18 for method 1613. The 20 percent RSD limit required by method 1613 was met for the reported compound. Isotope ratio summaries also met the specified criteria. No action was needed to qualify sample data.

6.2.4 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to method 1613 and met the specified PACE criteria. No action was needed to qualify sample data.

6.2.5 Laboratory Blanks

No detectable compounds above the EDL were present in the lab blank analyzed with the project samples. No action was needed to qualify sample data.

6.2.7 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

6.2.8 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by PACE were met for all reported compounds. No action was needed to qualify sample data.

6.2.9 Internal Standards

Internal standard areas for quantitation ions in project samples were 91% and 98%. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2018 Sampling Event

6.2.10 Field QC Results

No trip blanks or field duplicates were received with this set of data. No action was needed to qualify sample data.

6.3 Data Usability

All 1613 data are useable as reported without additional qualification.

7.0 PFAS by Method 537 modified

Pace utilized EPA methods 537 modified for project sample analysis as indicated in Table 1.

7.1 Completeness Assessment

The required method 537 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

7.2 Compliance Assessment

7.2.1 Holding Times/Preservation

All samples were extracted within the 14 day holding time. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 5.1°C. No action was needed to qualify sample data.

7.2.2 Initial Calibration

A six point initial calibration curve was analyzed on 9/4/18. The calibration acceptance criteria met the calculation requirements of the true values. No action was needed to qualify sample data.

No Tune data was included in the validation package. The validator is unable to verify the accuracy of the tune.

7.2.3 Continuing Calibration

A continuing calibration verification was analyzed according to method 537 all recoveries were well within the limits of 50-150% No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2018 Sampling Event

7.2.4 Method Blanks

No detectable compounds above the MDL were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

7.2.5 Surrogate Recoveries

Surrogate d5-EtFOSAA recovered low in sample MW-34A. All compounds in this sample will be qualified as estimated "J"

7.2.6 Internal Standards

Internal standard areas for 13C3_PFPPrOPrA recovered below the lower limits in sample MW-70A. Compounds PFPPrOPrA and NaDONA will be qualified as estimated "J"

7.2.7 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

7.2.8 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by were met for all reported compounds. No action was needed to qualify sample data.

7.2.9 Field QC Results

No trip blanks or field duplicates were received with this set of data. No action was needed to qualify sample data.

7.3 Data Usability

Internal standard areas for 13C3_PFPPrOPrA recovered below the lower limits in sample MW-70A. Compounds PFPPrOPrA and NaDONA will be qualified as estimated "J".

Surrogate d5-EtFOSAA recovered low in sample MW-34A. All compounds in this sample will be qualified as estimated "J"

The laboratory does not appear to have followed corrective actions outlined in the method for failing surrogates and internal standards.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Presto Site Data Validation Technical Memorandum

August 2018 Sampling Event

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

Mary J. Gannon
12/29/18

Table 1 Sample Results Validated NPI Q3

	Volatiles	Dissolved	Volatile	Total	Amenable	PCBs	Pesticides	Metals	Hardness	Mercury	Semi	Semi	Volatile	Cr VI	Dioxins	PFAS
	SW846	Cadmium		Cyanide	Cyanide						Volatile	Volatile				
SAMPLE ID	8260B	6010	524.2	SM4500 CN-E	SM4500 CN-G	608	608	200.8	2340B	245.1	625	625 SIM	624	SM 3500-Cr B	1613	537
TOWER A			✓													
TOWER B			✓													
FINISHED PRODUCT			✓													
TRIP BLANK			✓													
Total	15	12	9	1	1	1	1	1	1	1	1	1	2	1	1	3

Presto Site Data Validation Technical Memorandum

December 2018 Sampling Event



Technical memorandum

DATE: January 15, 2019

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

December 2018 Quarterly Groundwater Sampling Event

Project#: 34283

*1/15/19
Mary C. Gannon*

1.0 OVERVIEW

Analytical results (8260,524.2 volatiles, 6010 dissolved cadmium and, 537 modified PFAS) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. on December 10-11, 2018 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

DQO Attainment

Sample MW-77A and MW-77A Dup will both be qualified as estimated "J" for Trichloroethene due to having an RPD of 88% on the field duplicate sample.

Presto Site Data Validation Technical Memorandum

December 2018 Sampling Event

All dissolved cadmium data are usable as reported without additional qualification.

All PFAS data are usable as reported.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 6010 Dissolved Cd

Pace utilized EPA method 6010 for dissolved cadmium. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

All analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

2.2 Compliance Assessment

2.2.1 Holding Time/Preservation

All samples were analyzed within the six month, method required holding time. Verification of sample pH upon receipt/analysis indicated that all samples that required preservation were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. All CRDL check standards were within the method required limits. ICP interference check samples met the 80-120% recovery criteria. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

No detects were reported in the method blank, initial or continuing calibration blanks analyzed with the project sample. No action was needed to qualify sample data.

2.2.4 Laboratory Control Standard

An LCS sample at 500 ug/L was analyzed for 6010 metals with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

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2.2.5 MS/MSD Sample Recovery and RPD

The one sample analyzed did not have an MS/MSD. A batch MS/MSD was run at appropriate intervals. Recoveries and the RPD values for in the samples analyzed as the MS/MSD were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.6 Serial Dilution

No serial dilution was analyzed on the client sample. No action was needed to qualify sample data.

2.2.7 Field QC Results

No field blanks or field duplicates were collected and analyzed for metals one project sample. No action was needed to qualify sample data.

2.3 Data Usability

All metals, data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and, 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed.

3.1 Completeness Assessment

The required method 8260 and, 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

3.2 Compliance Assessment

3.2.1 Holding Times/Preservation

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

December 2018 Sampling Event

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and, 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven point initial calibration curves were analyzed on 12/4/18, 11/26/18, and 11/15/18 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

An eight or nine point initial calibration for method 524.2 was analyzed on 12/11/18. Most RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. The compounds that did not meet the criteria were evaluated on a quadratic curve. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were EC-1 and, MW-76 A. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

No project sample was specified or analyzed for method 524.2 MS/MSD. A batch MS/MSD was analyzed for 524.2 and met all criteria. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

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3.2.7 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas in project samples were within the method limits of- 50 % to + 100 %. No action was needed to qualify sample data.

3.2.9 Field QC Results

Three trip blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data.

Field duplicates were collected for MW-77A, RW-3B and RW-3C. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-77A	MW-77A Dup	RPD	RW-3B	RW-3B Dup	RPD
Trichloroethene	0.85 J ug/L	2.2 ug/L	88%	3.3 ug/L	3.5 ug/L	6%
1,1,1-trichloroethane	0.25 J ug/L	0.25 J ug/L	0%	0.40 J ug/L	0.27 J ug/L	39%

Sample ID	RW-3C	RW-3C Dup	RPD
Trichloroethene	3.5 ug/L	3.5 ug/L	0%
1,1,1-trichloroethane	0.30 J ug/L	0.30 J ug/L	0%

Not all RPD values were within 50% as specified on QAPP Worksheet #12. Sample MW-77A and MW-77A Dup will both be qualified as estimated "J" for trichloroethene due to having an RPD of 88%.

3.3 Data Usability

Sample MW-77A and MW-77A Dup will both be qualified as estimated "J" for trichloroethene due to having an RPD of 88% on the field duplicate sample.

Presto Site Data Validation Technical Memorandum

December 2018 Sampling Event

4.0 PFAS by Method 537 modified

Pace utilized EPA method 537 modified for project sample analysis as indicated in Table 1.

4.1 Completeness Assessment

The required method 537 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

4.2 Compliance Assessment**4.2.1 Holding Times/Preservation**

All samples were extracted within the 14 day holding time. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 0.7°C. No action was needed to qualify sample data.

4.2.2 Initial Calibration

A six point initial calibration curve was analyzed on 12/10/18. The calibration acceptance criteria met the calculation requirements of the true values. No action was needed to qualify sample data.

4.2.3 Continuing Calibration

A continuing calibration verification was analyzed according to method 537 all recoveries were well within the limits of 50-150% No action was needed to qualify sample data.

4.2.4 Method Blanks

No detectable compounds above the MDL were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

4.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for method 537 modified. No action was needed to qualify sample data.

4.2.6 Internal Standards

Internal standard areas in project samples were within the limits of 50%-150% of the ICAL area and 70%-140% of the preceding CCV area. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

December 2018 Sampling Event

4.2.7 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

4.2.8 Laboratory Control Standard

LCS samples were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by the laboratory were met for all reported compounds. A low level spike at the PQL was also run and met the required 50%-150% recovery. No action was needed to qualify sample data.

4.2.9 Field QC Results

A field duplicate was analyzed on sample MW-10A. All compounds in both samples were non-detect. No action was needed to qualify sample data.

4.3 Data Usability

All PFAS, data as reported by Pace was acceptable for use in the investigation.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

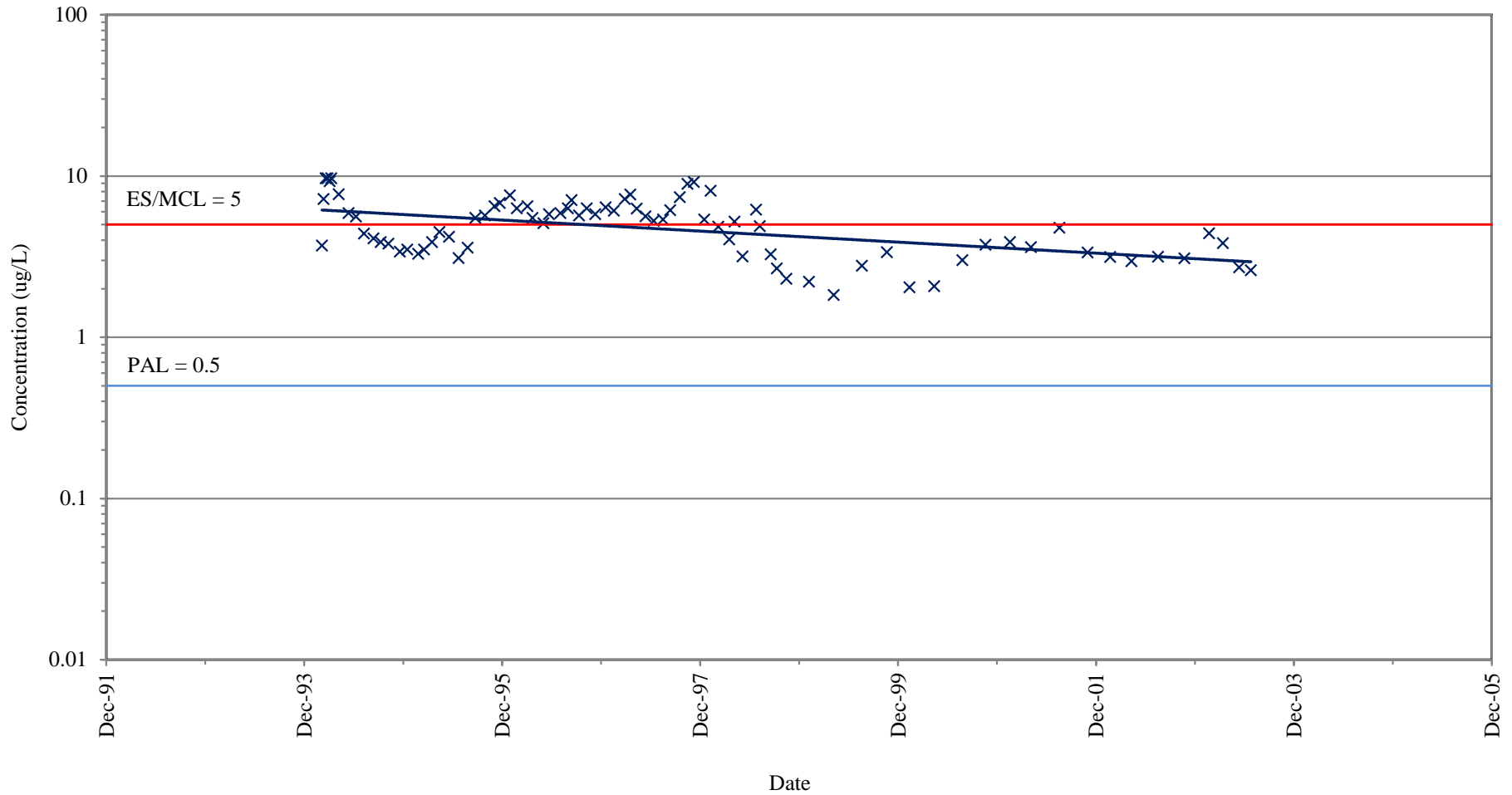
cc: Gannett Fleming, Inc.

Table 1 Sample Results Validated December 2018

	Volatiles	Dissolved	Volatile	PFAS
	SW846	Cadmium		
SAMPLE ID	8260B	6010	524.2	537
EW-6	✓			
MW-4B	✓			
MW-10A		✓		✓
MW-10A Duplicate				✓
MW-34A	✓			✓
MW-68A	✓			
MW-68B	✓			
MW-70A	✓			✓
MW-76A	✓			
MW-77A	✓			
MW-77A DUP	✓			
MW-77B	✓			
MH-18	✓			
TRIP BLANK	✓			
EC-1	✓			
RW-3A	✓			
RW-3B	✓			
RW-3B DUP	✓			
RW-3C	✓			
RW-3CDUP	✓			
TRIP BLANK	✓			
CW-15			✓	
CW-19			✓	
CW-22			✓	
CW-23			✓	
RAW			✓	
TOWER A			✓	
TOWER B			✓	
FINISHED PRODUCT			✓	
TRIP BLANK			✓	
Total	19	1	9	4

APPENDIX D

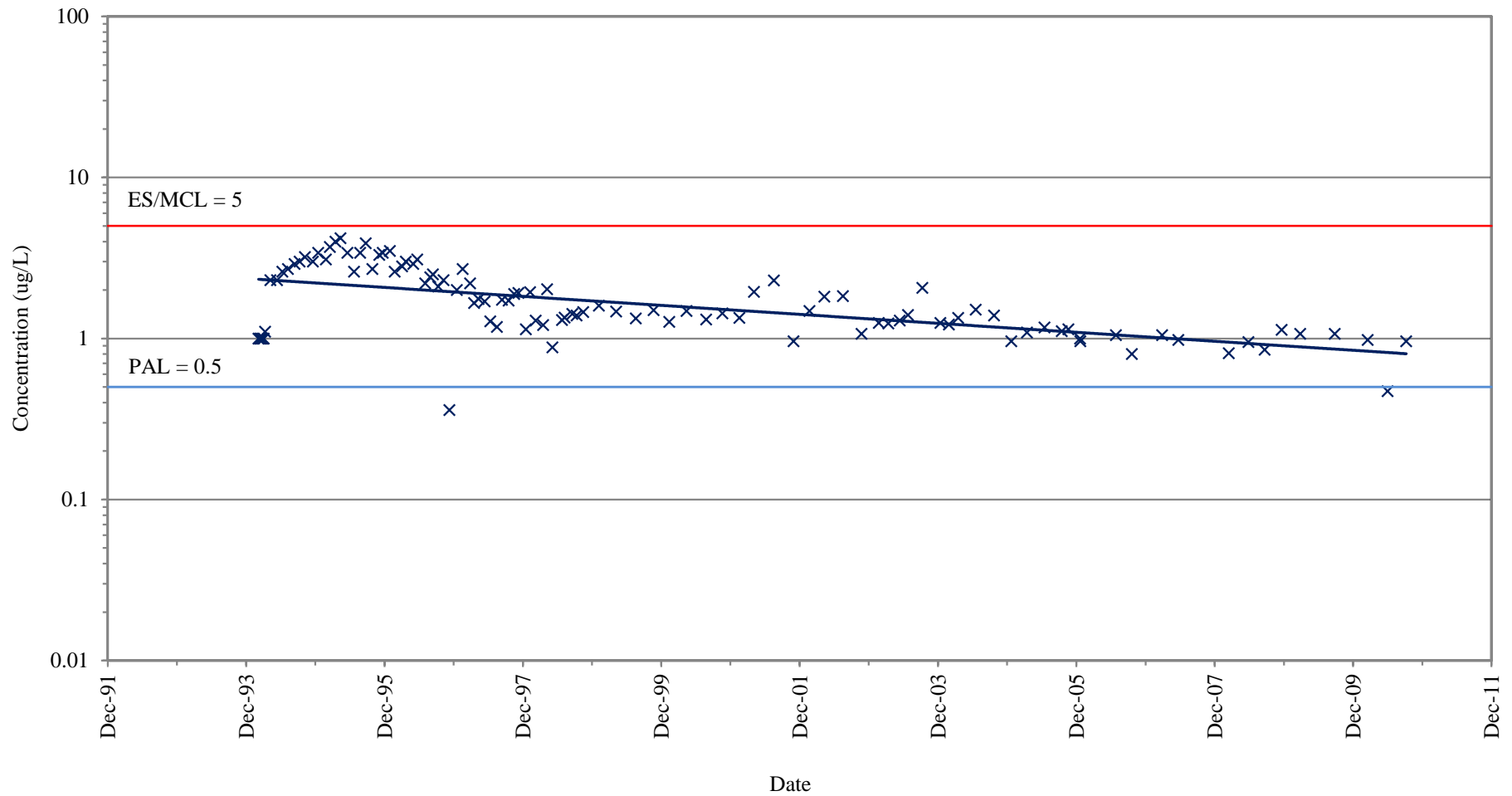
TCE CONCENTRATION VERSUS TIME GRAPHS
FORMER PLUME 1/2 (SOUTHWEST CORNER)



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-3 (GRID COORDINATE K8)

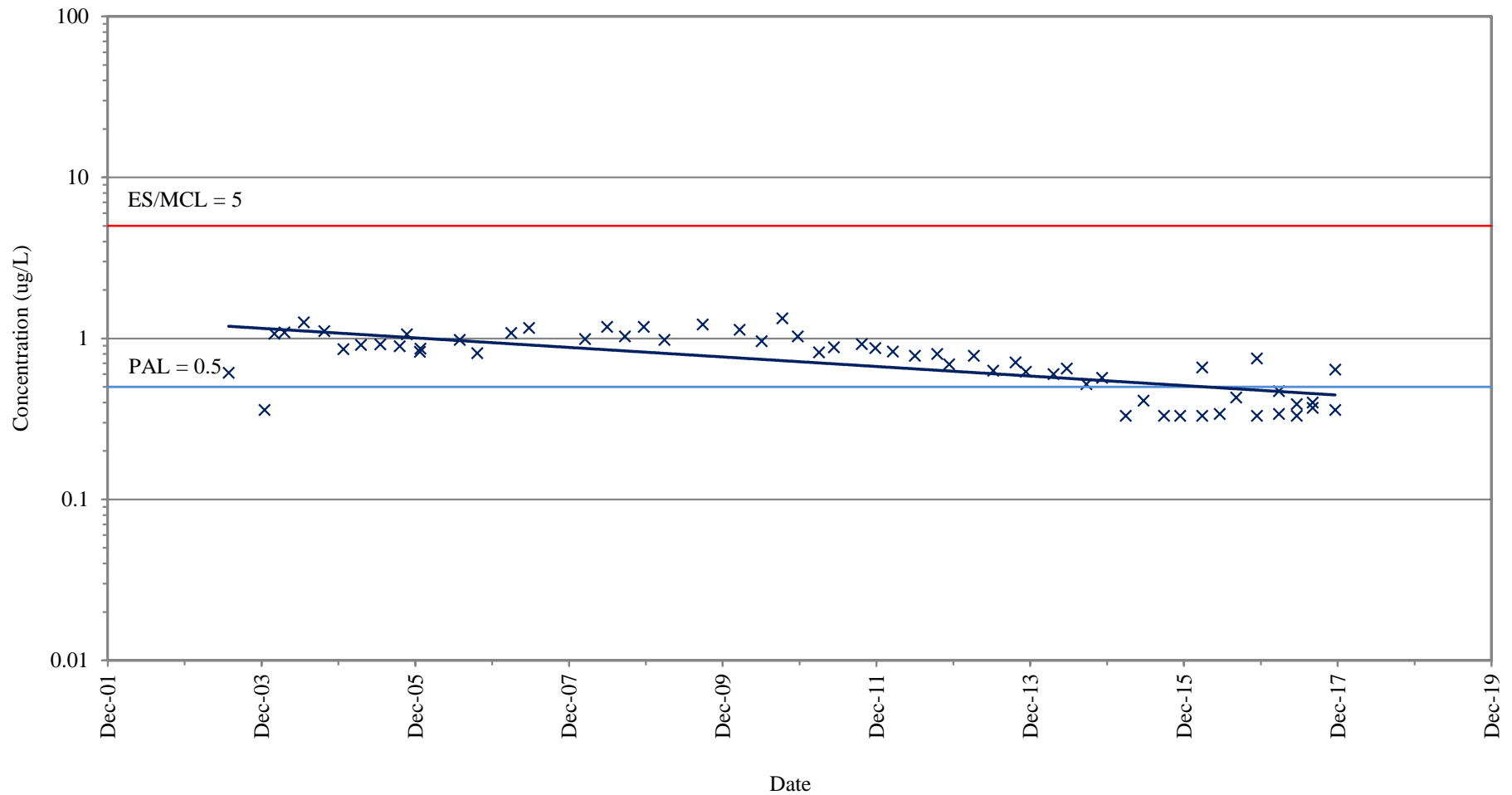
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-4 (GRID COORDINATE K7)

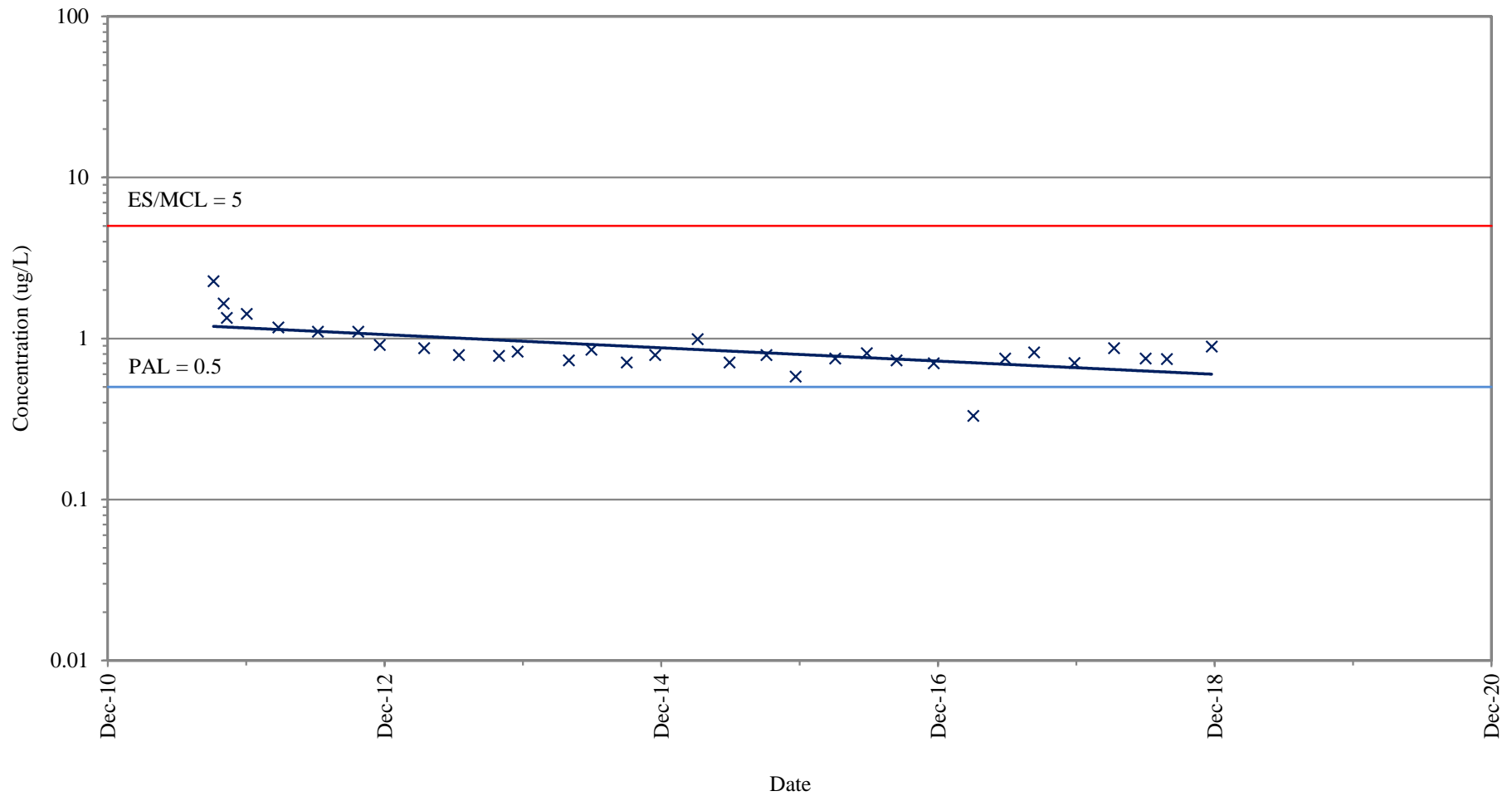
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-5 (GRID COORDINATE K7)

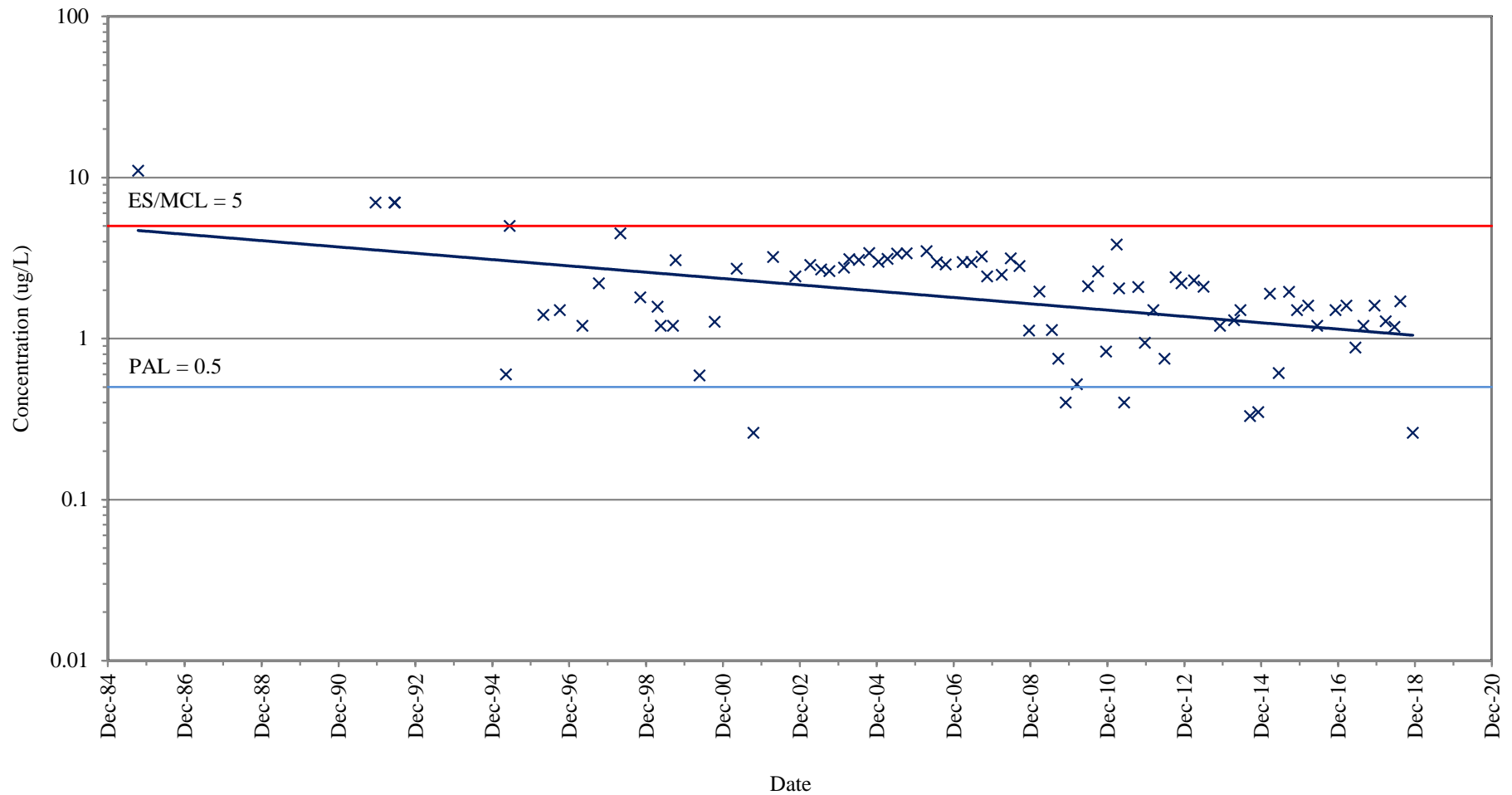
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-6 (GRID COORDINATE K7)

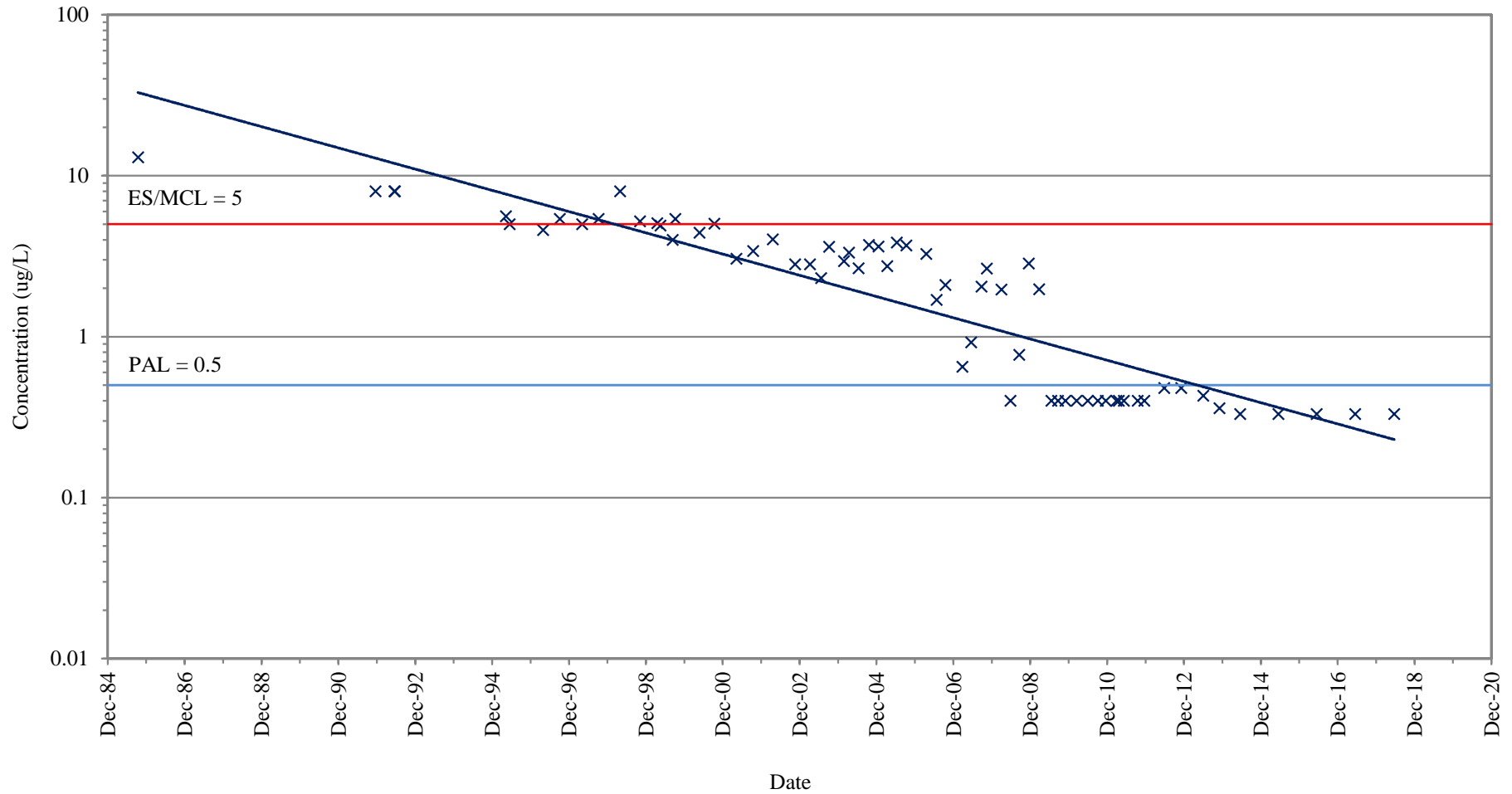
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-1 (GRID COORDINATE C7)

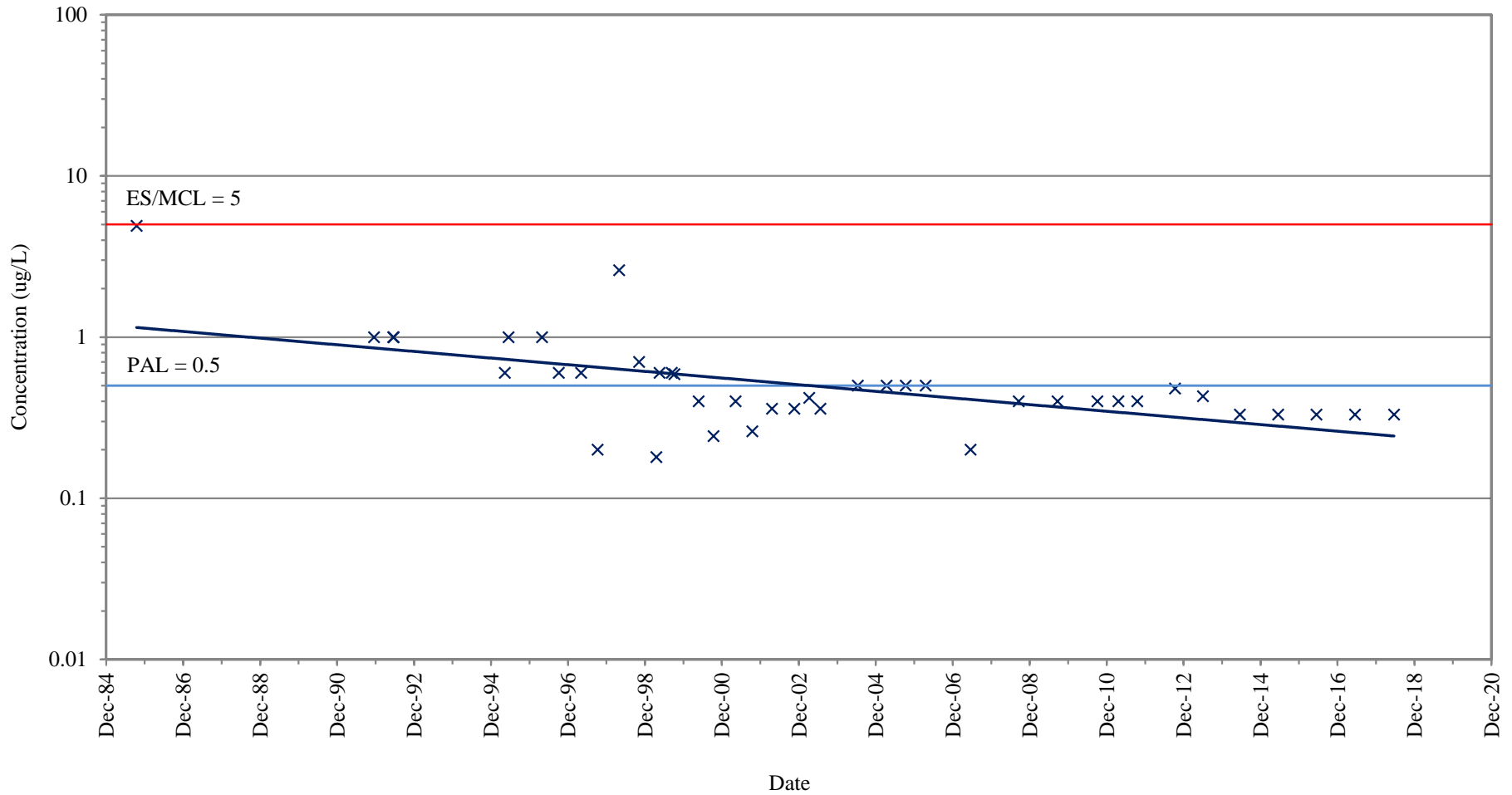
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-2 (GRID COORDINATE C7)

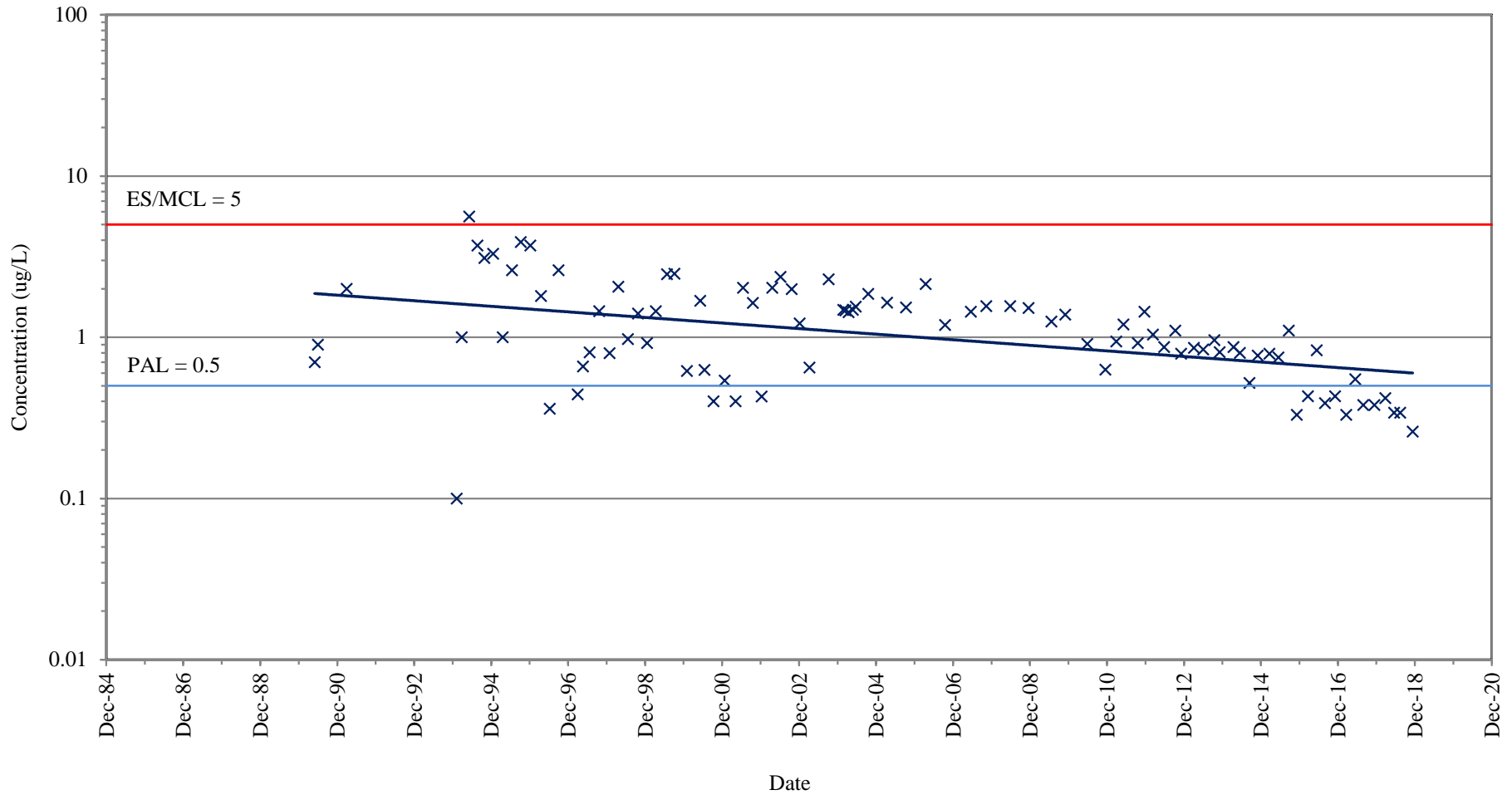
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-6 (GRID COORDINATE C7)

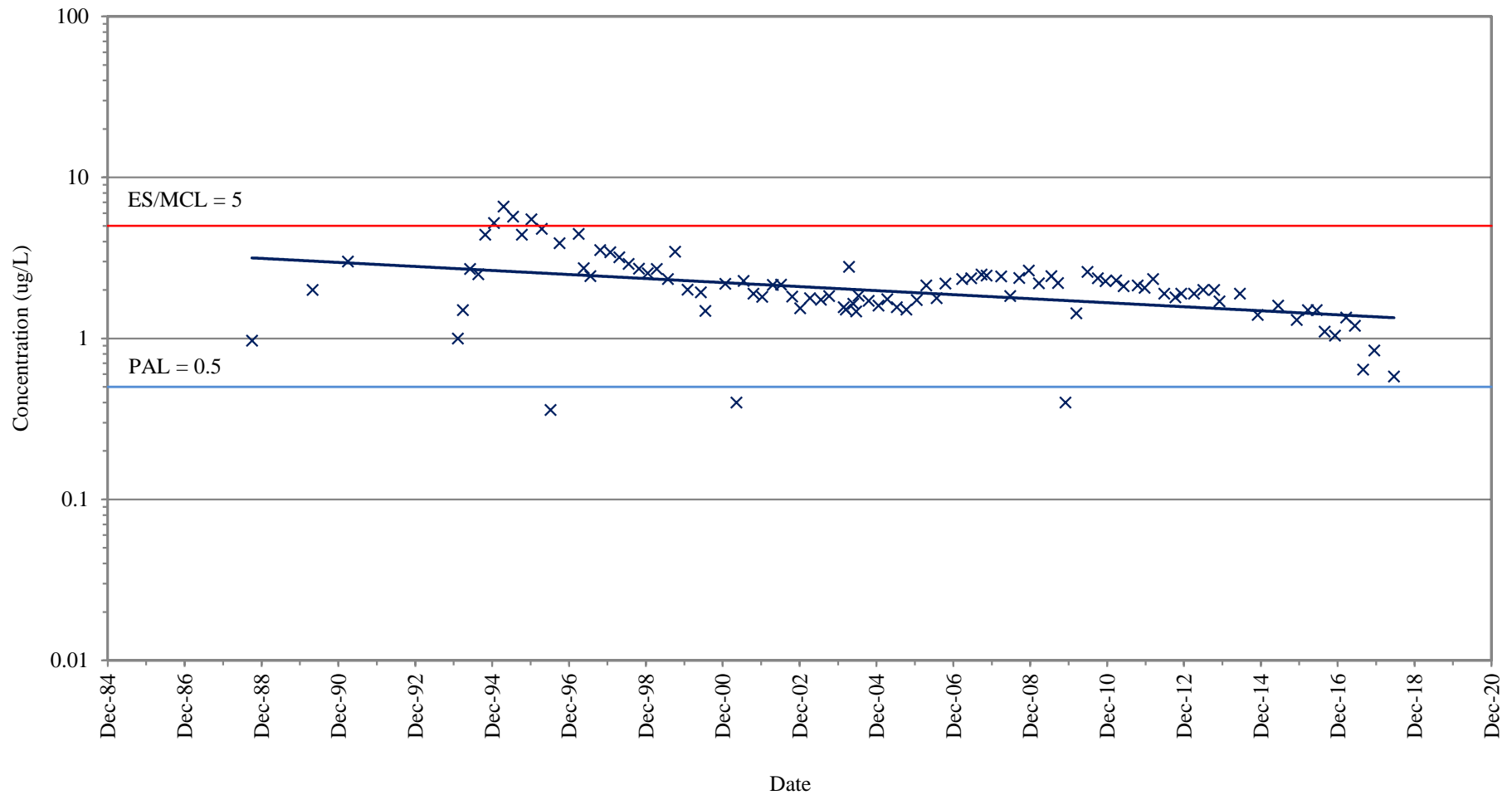
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-4B (GRID COORDINATE K7)

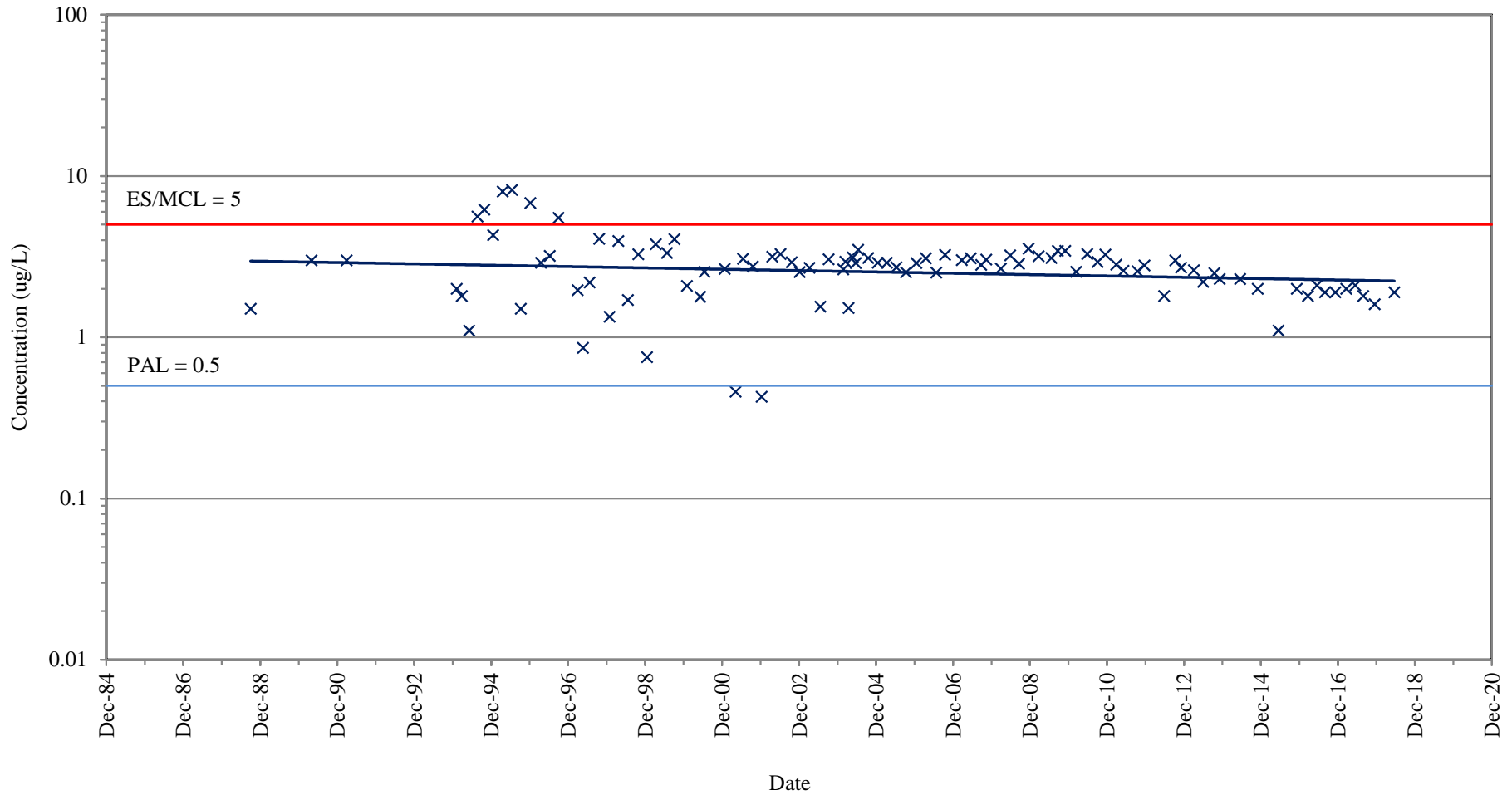
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-23A (GRID COORDINATE J7)

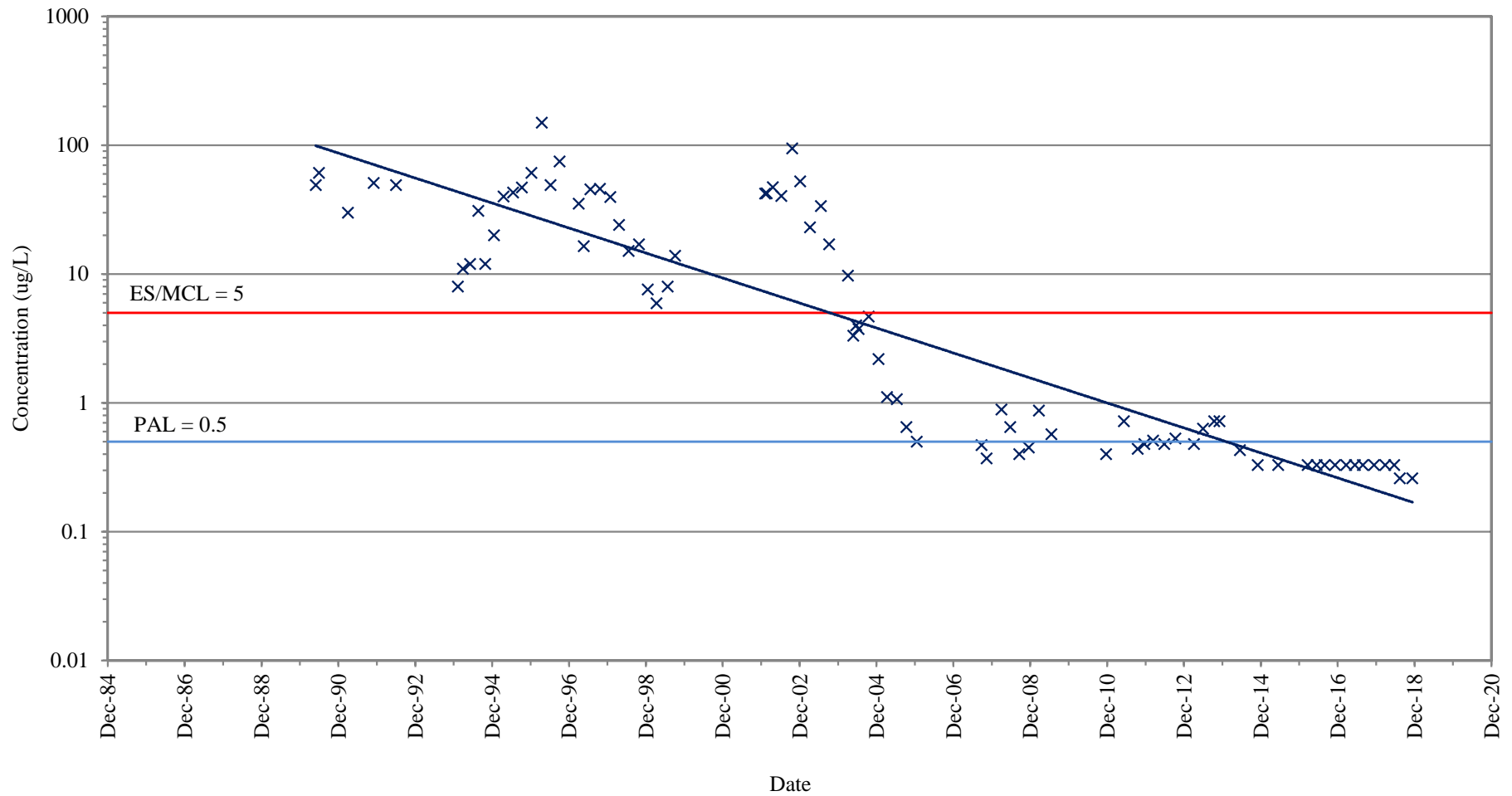
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-23B (GRID COORDINATE J7)

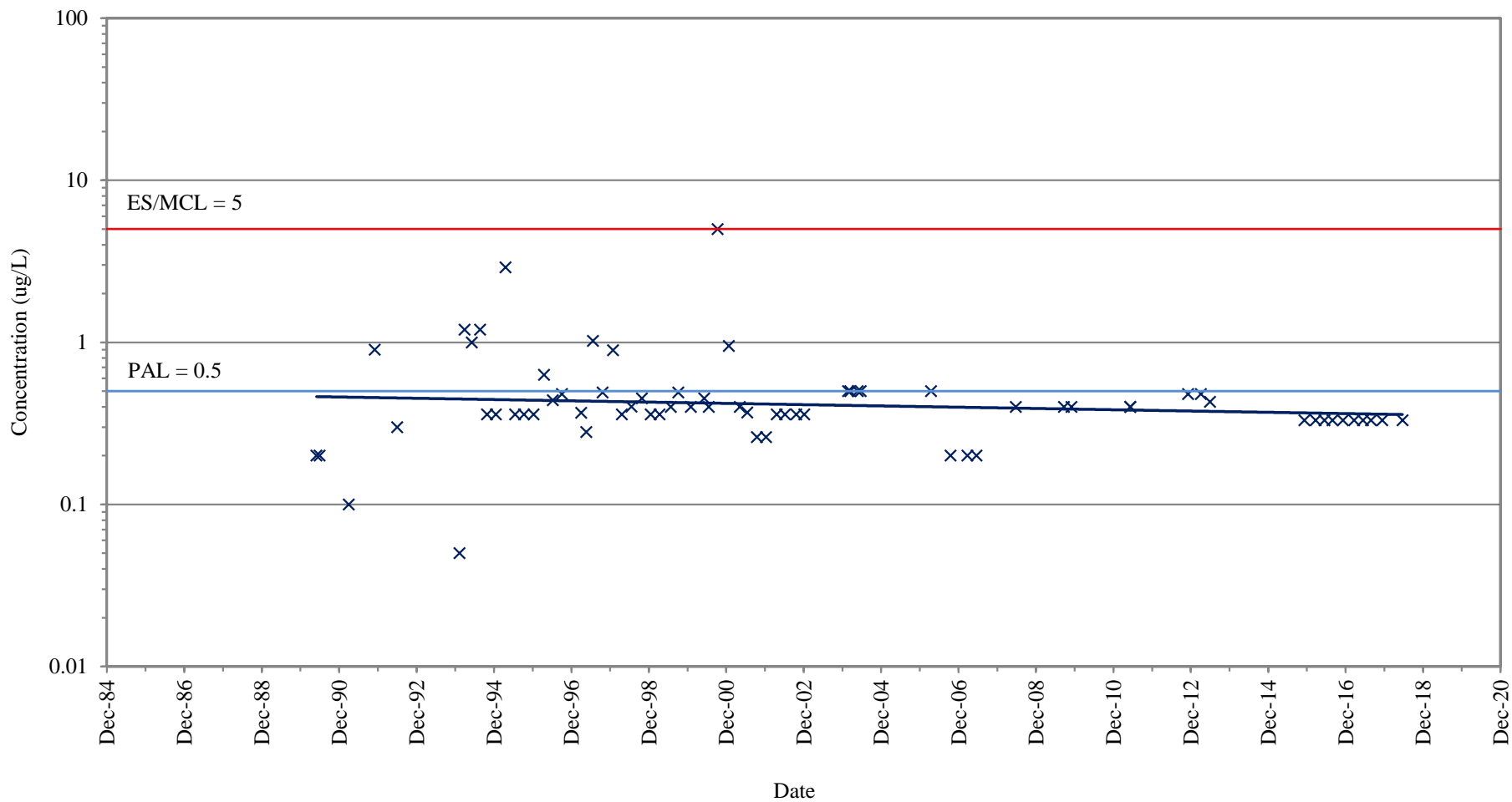
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-34A (GRID COORDINATE K8)

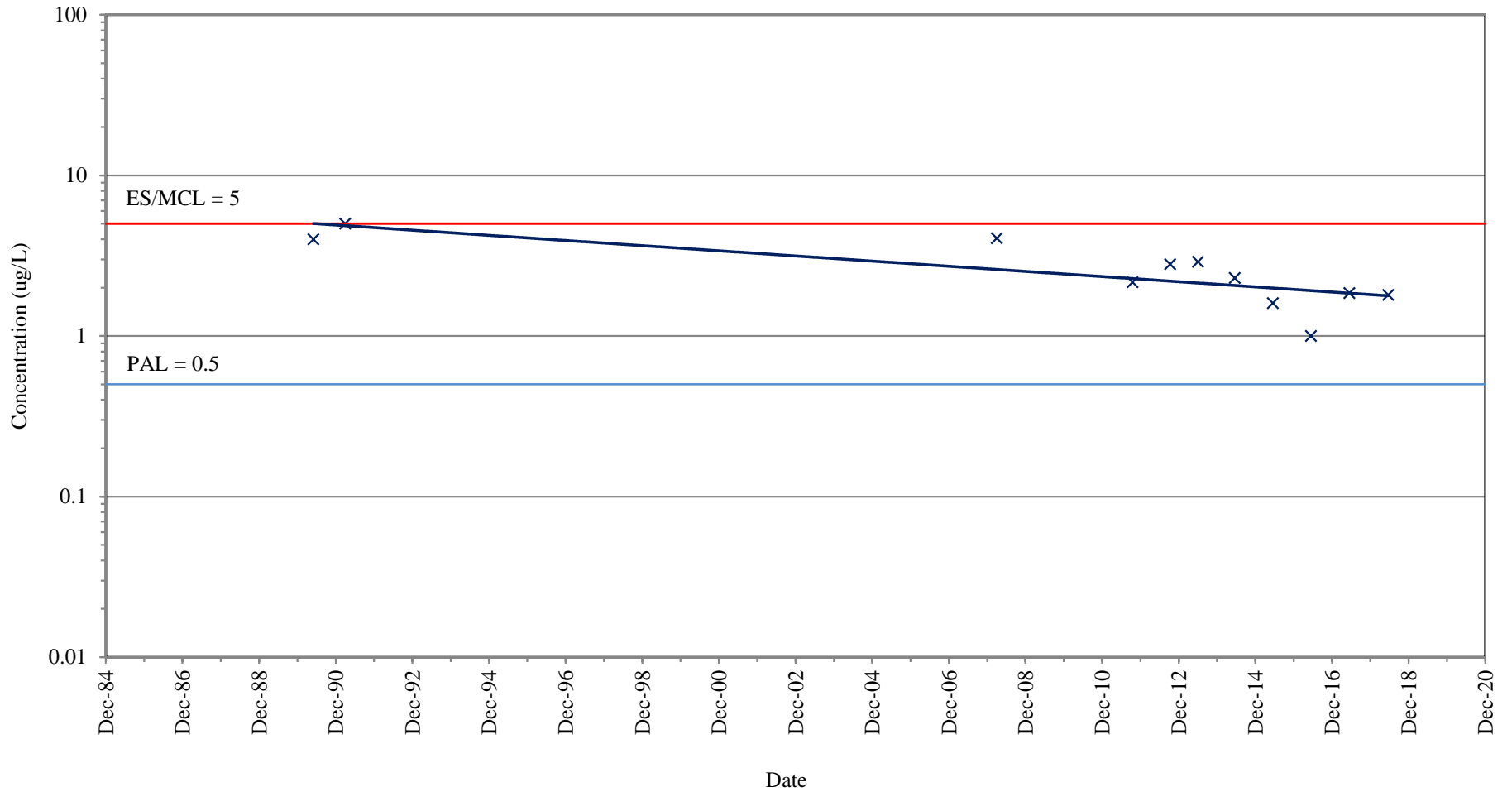
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-34B (GRID COORDINATE K8)

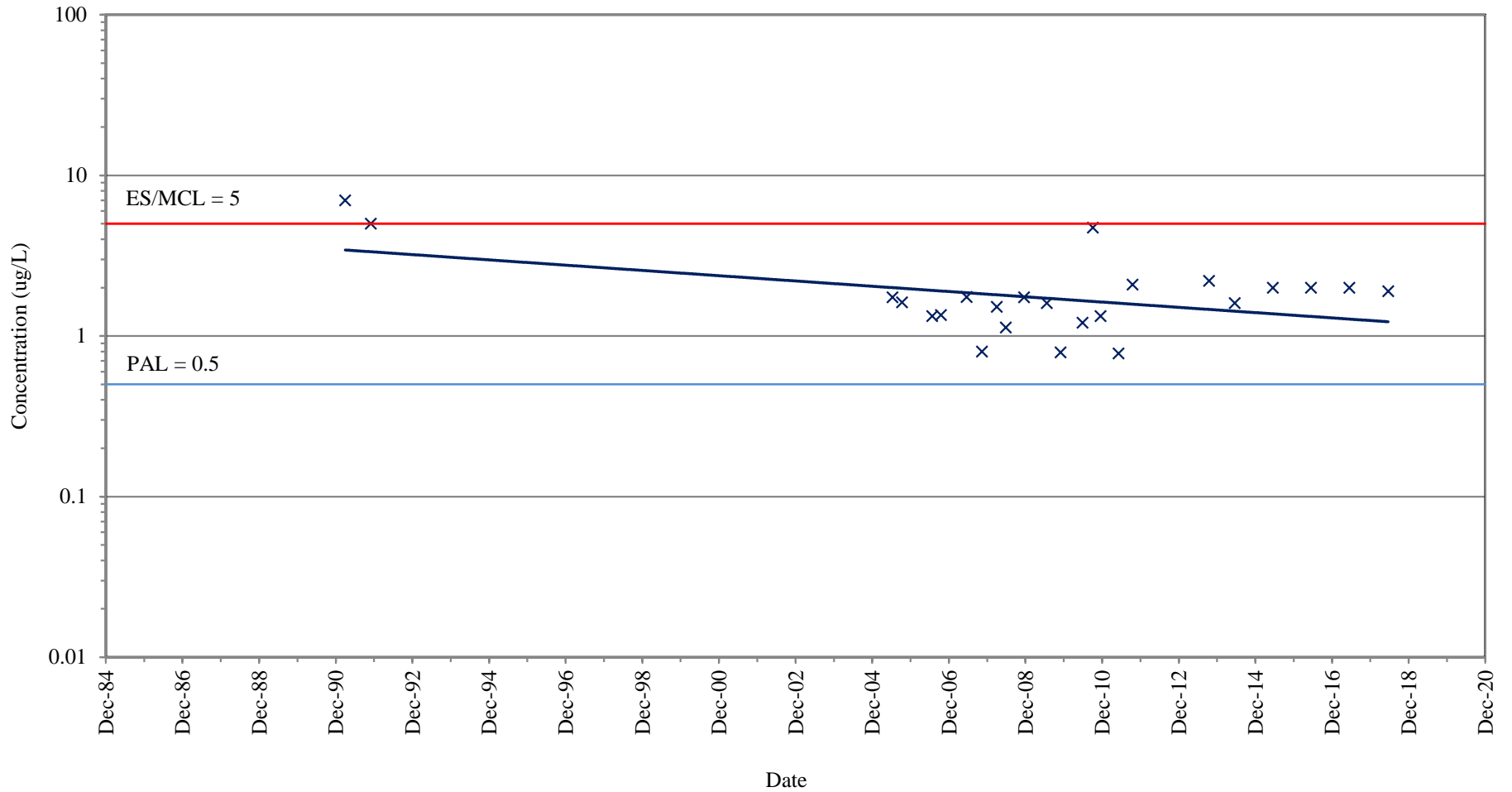
NATIONAL PRESTO INDUSTRIES, INC.
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Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-35A (GRID COORDINATE K7)

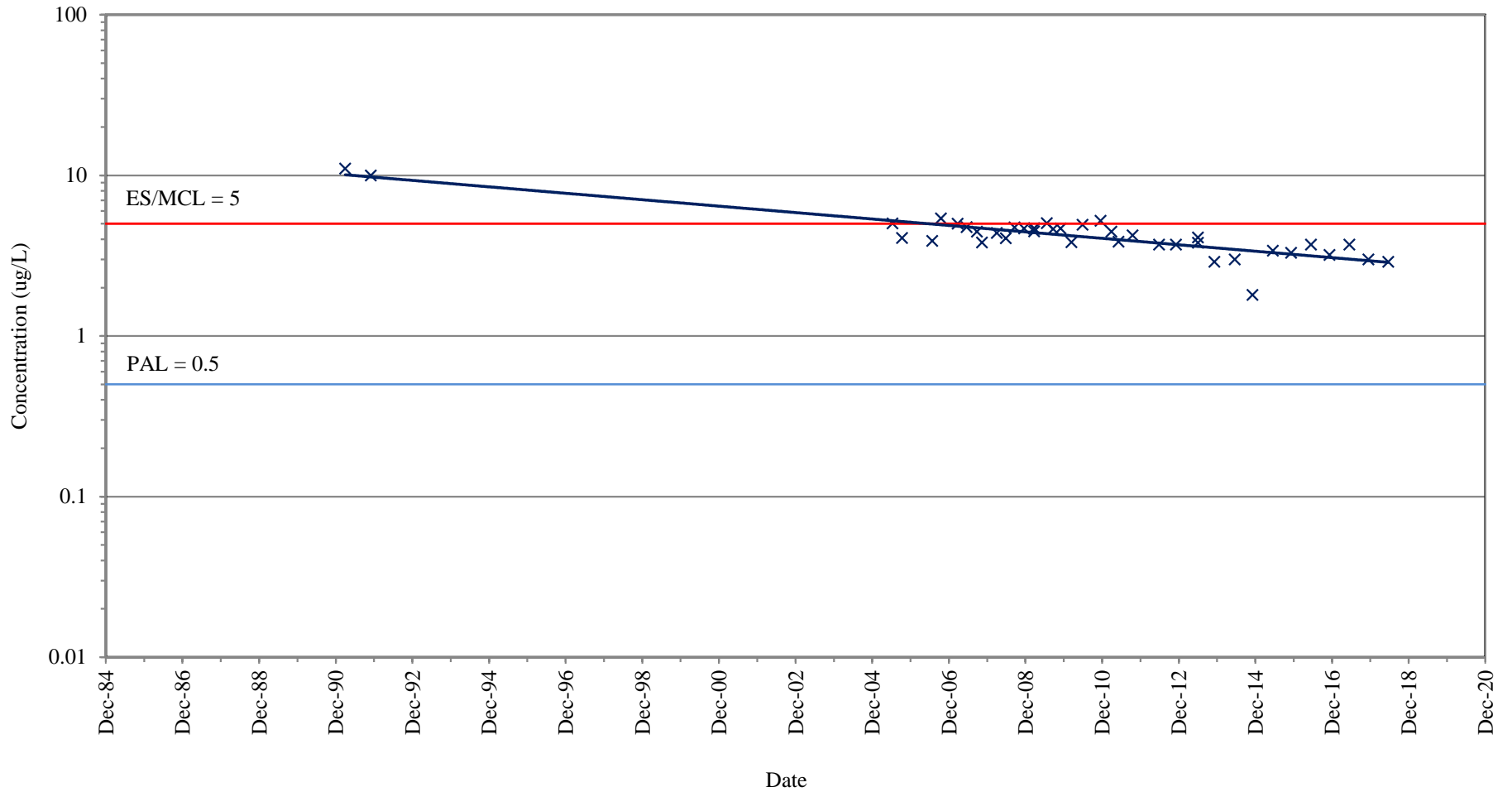
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38A (GRID COORDINATE I8)

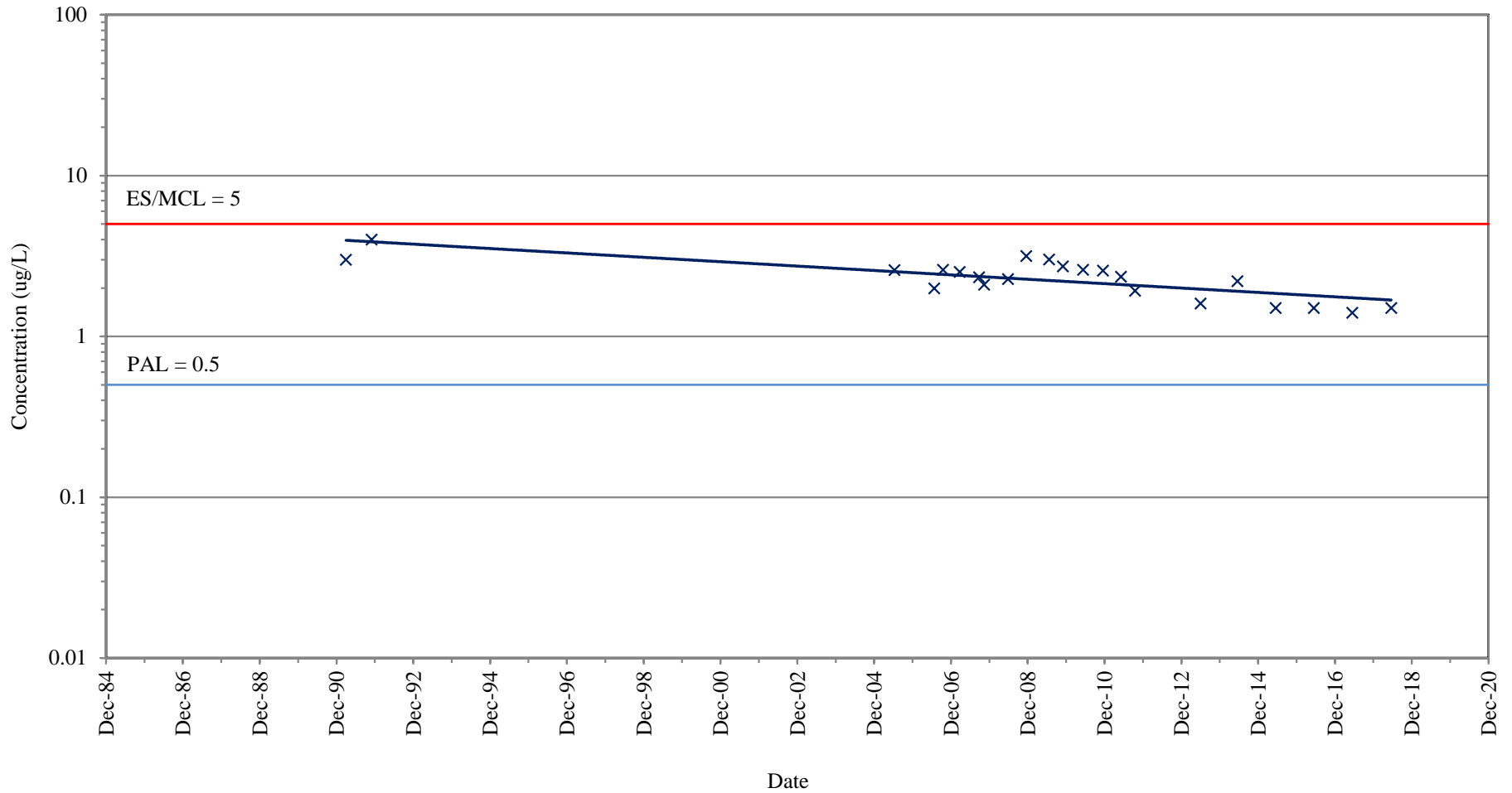
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38B (GRID COORDINATE I8)

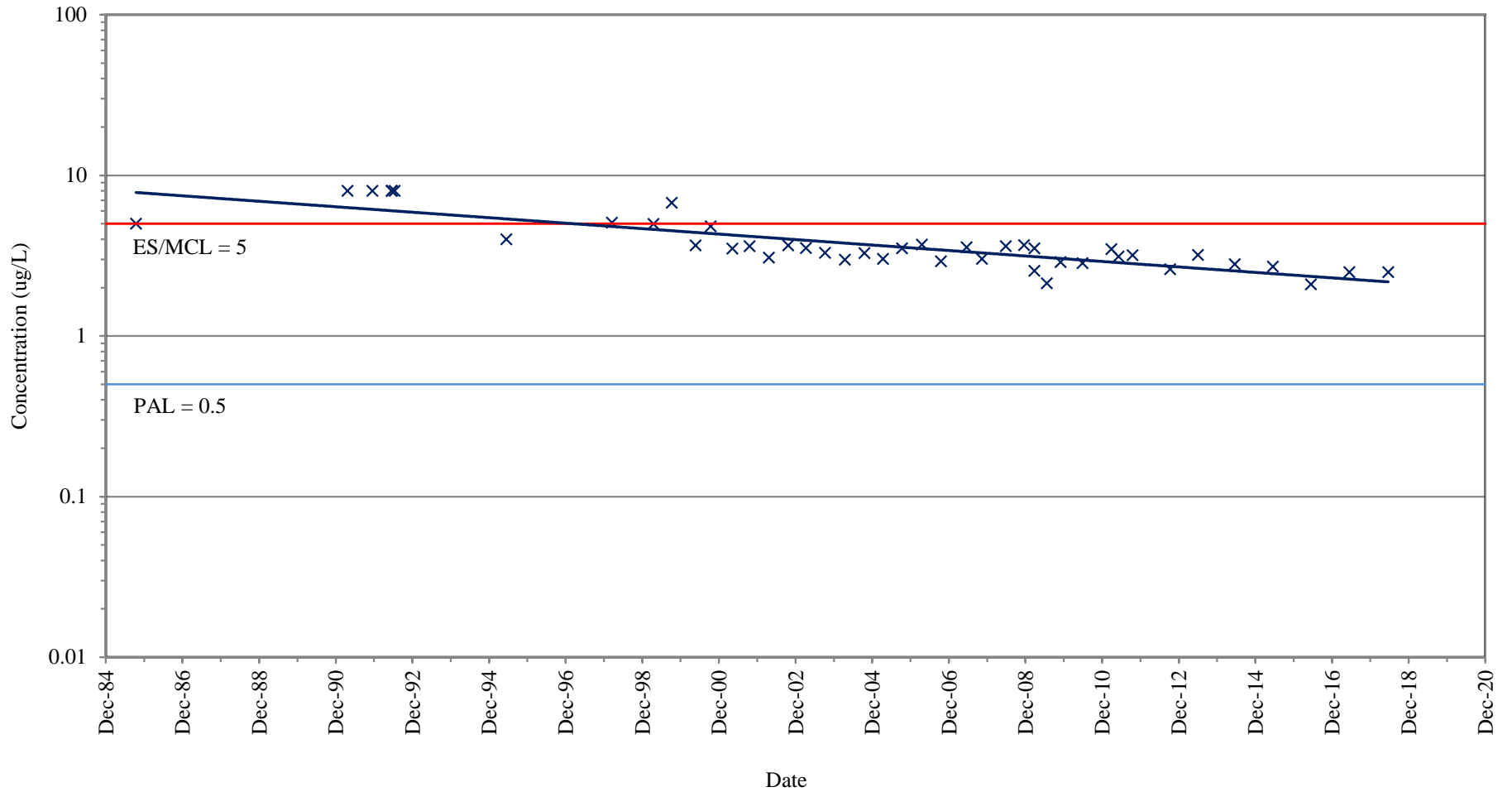
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38C (GRID COORDINATE I8)

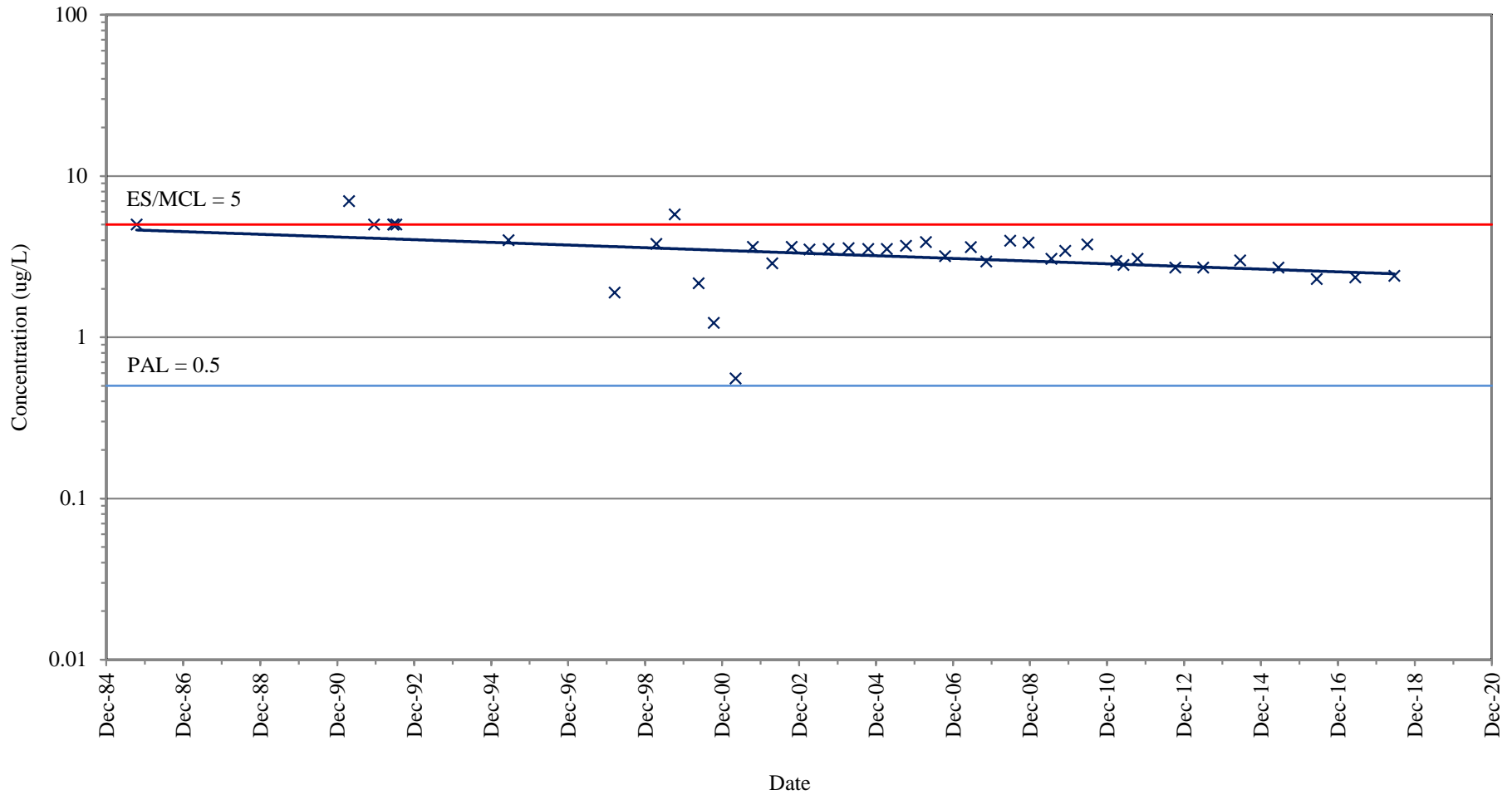
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-41A (GRID COORDINATE H8)

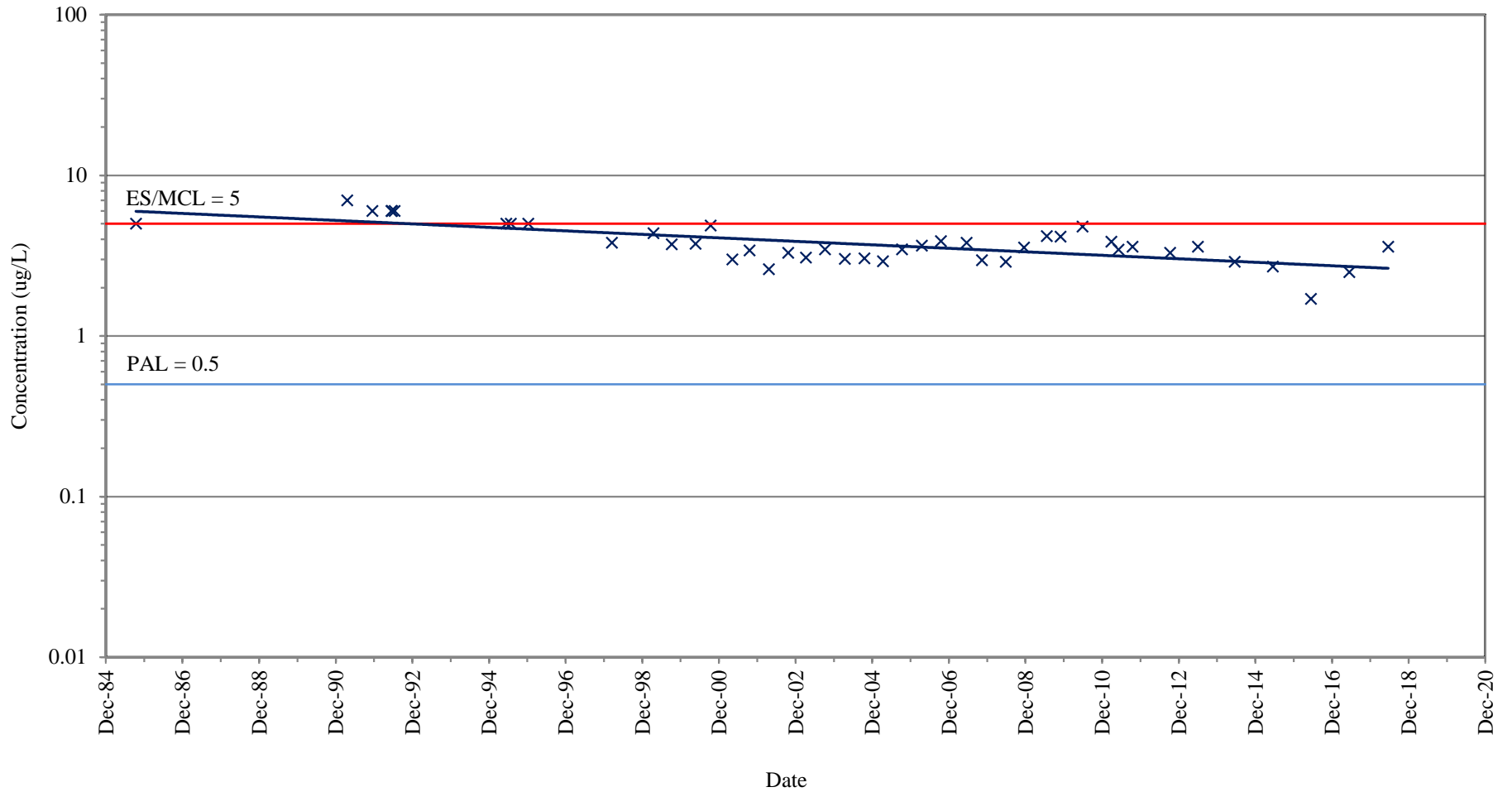
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-41B (GRID COORDINATE H8)

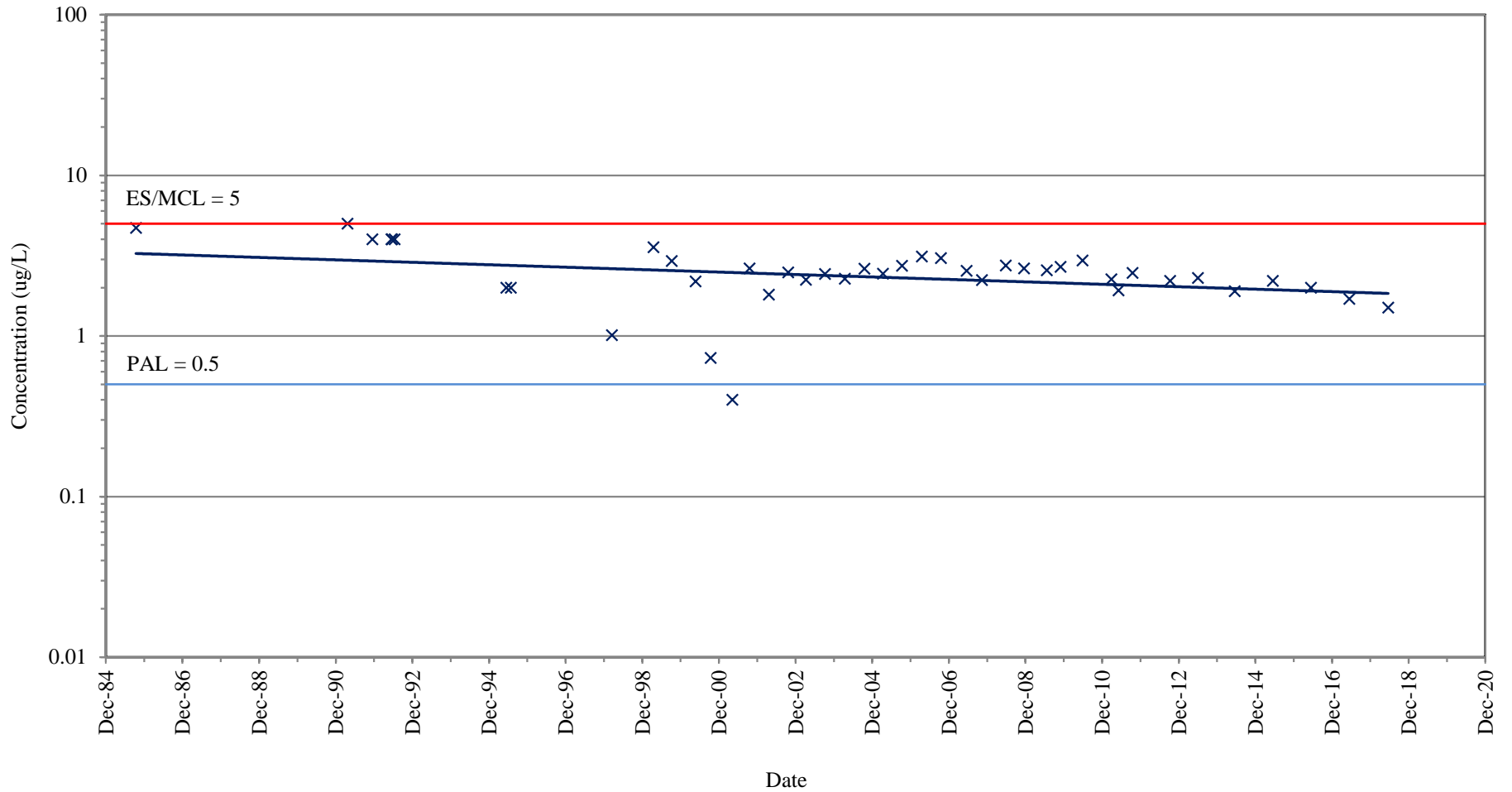
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-43A (GRID COORDINATE H7)

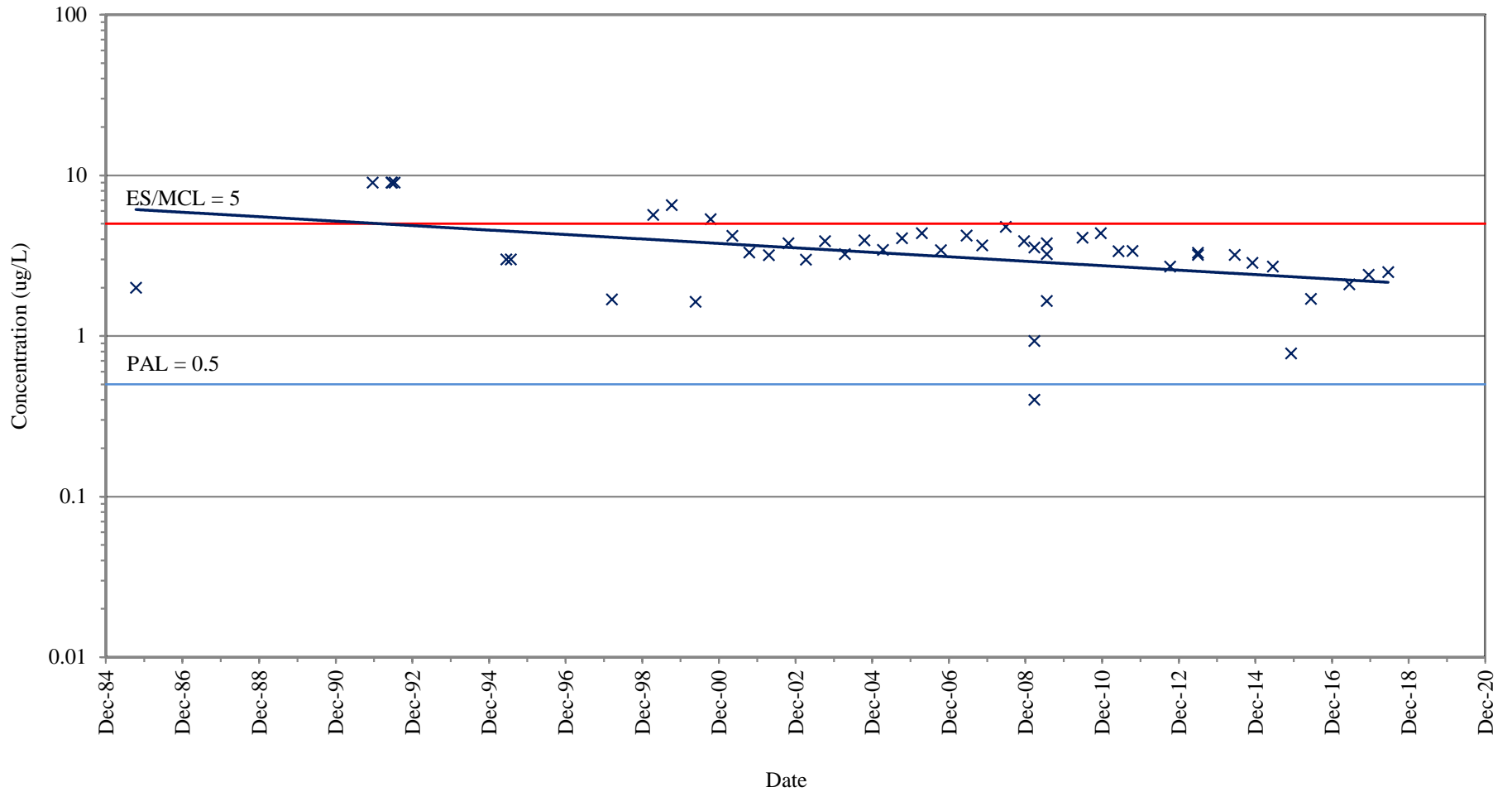
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-43B (GRID COORDINATE H7)

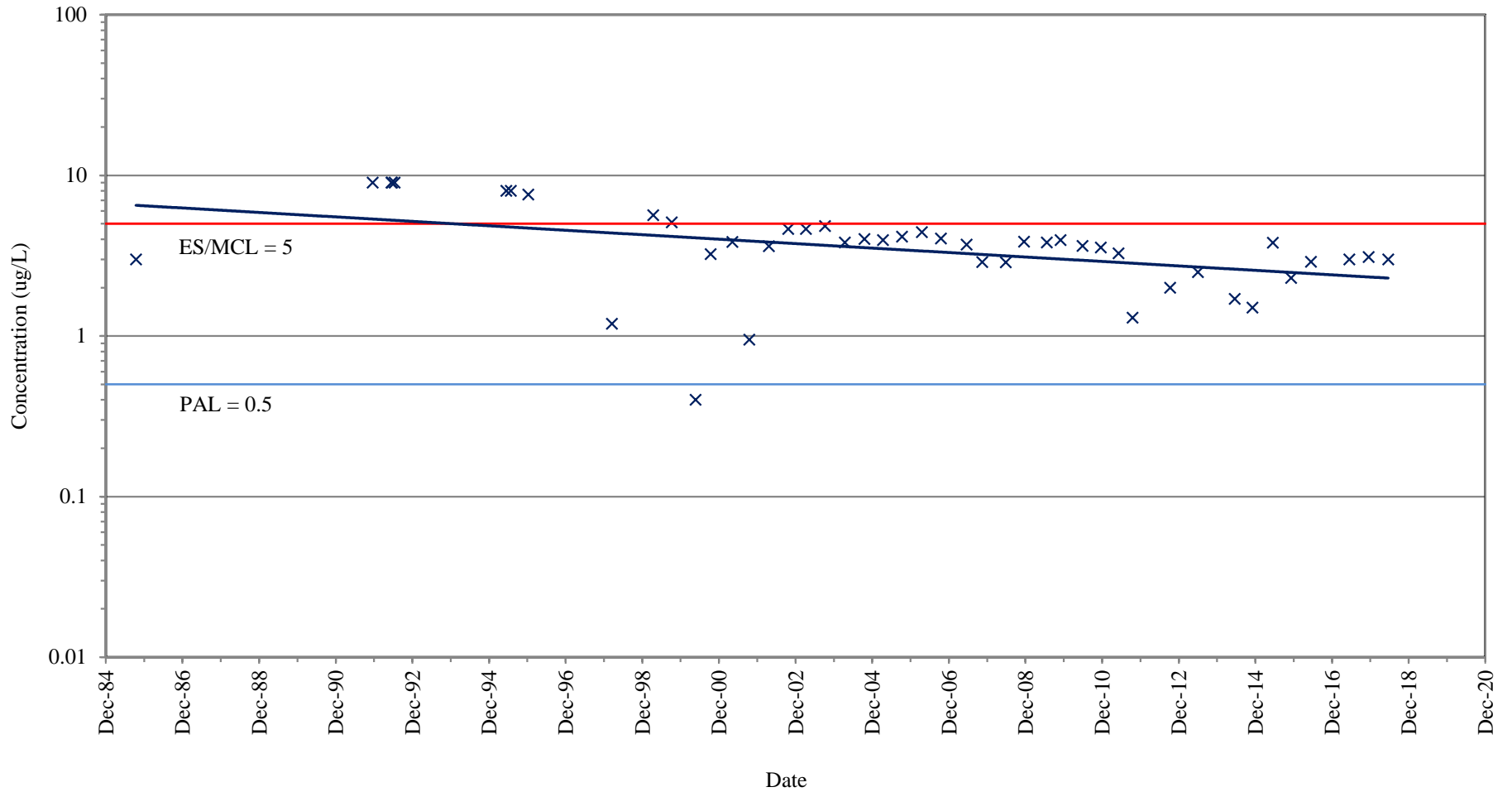
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-45B (GRID COORDINATE F6)

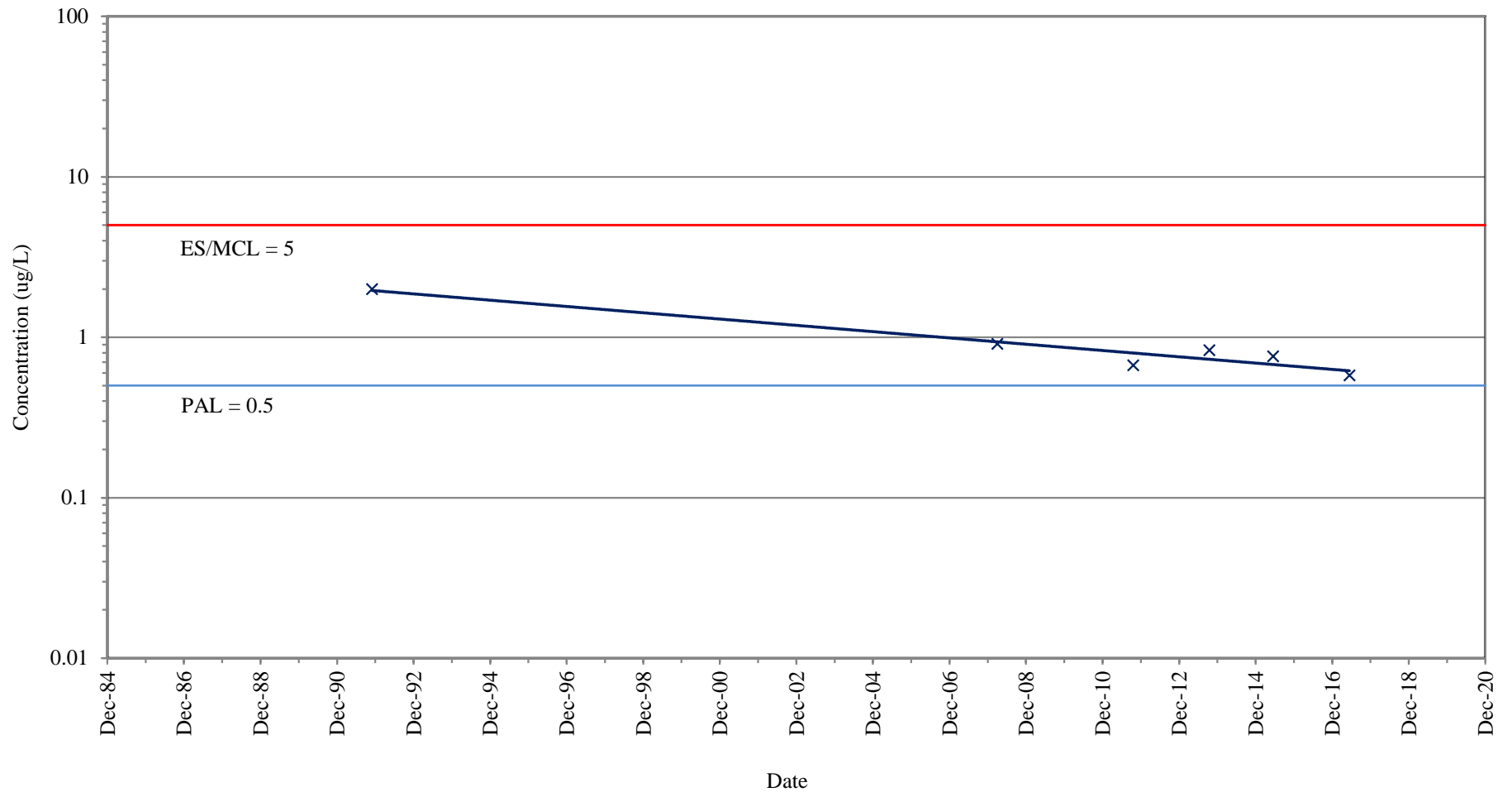
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-45C (GRID COORDINATE F6)

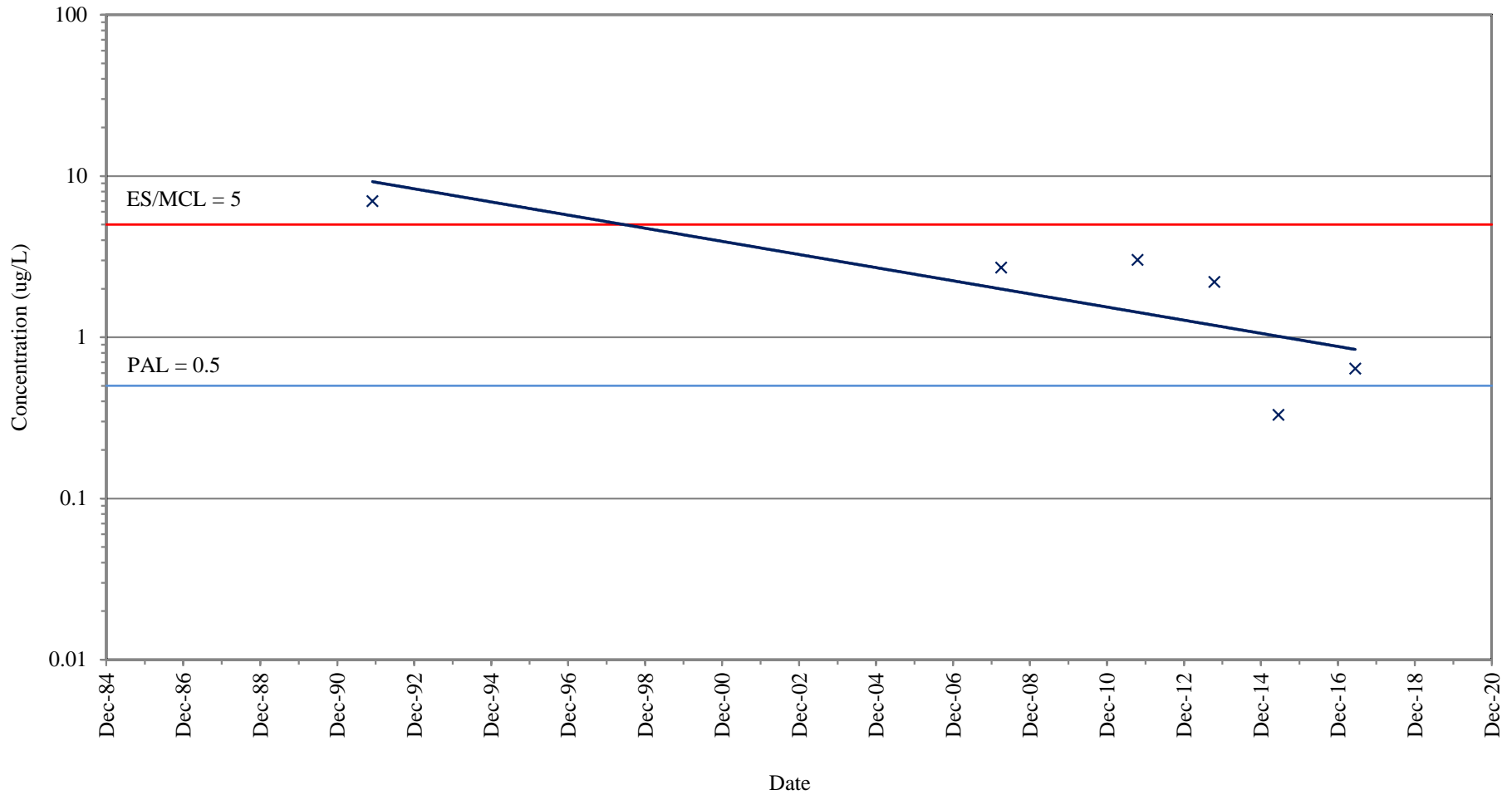
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-47A (GRID COORDINATE G7)

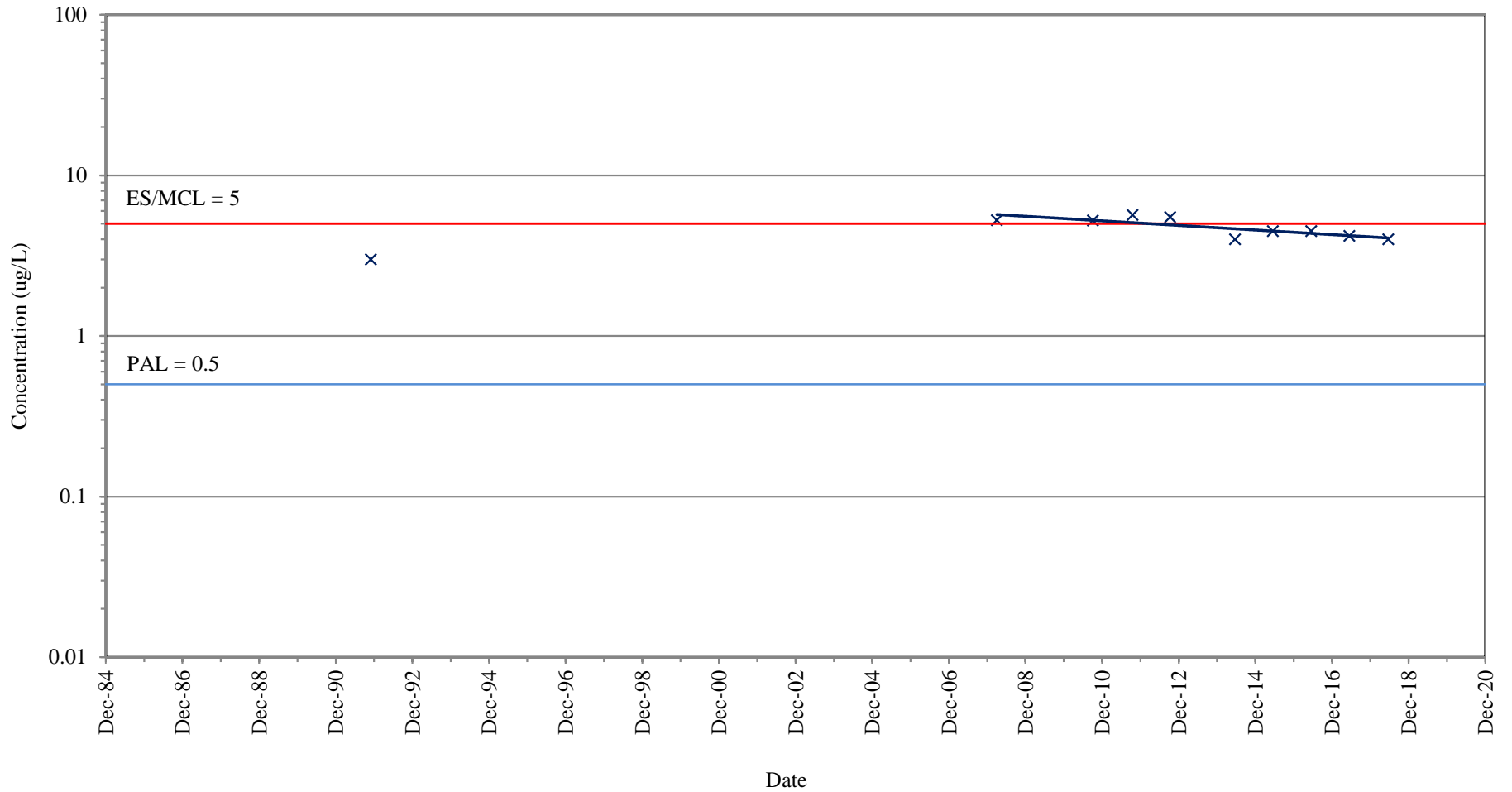
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-51A (GRID COORDINATE F6)

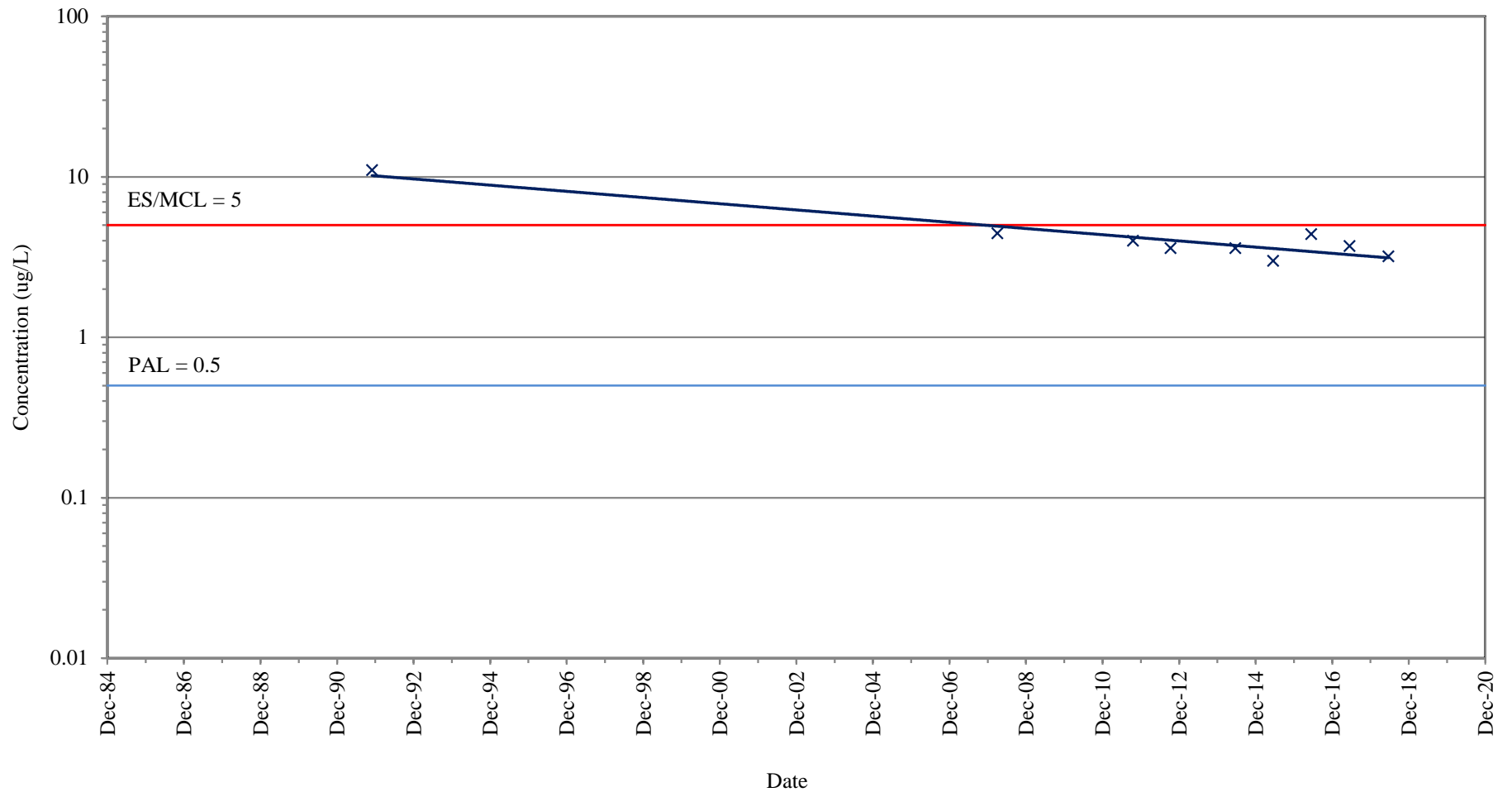
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: The best-fit exponential trend line generated using Excel evaluates a partial data set to focus on a "more representative" sample cluster.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-51B (GRID COORDINATE F6)

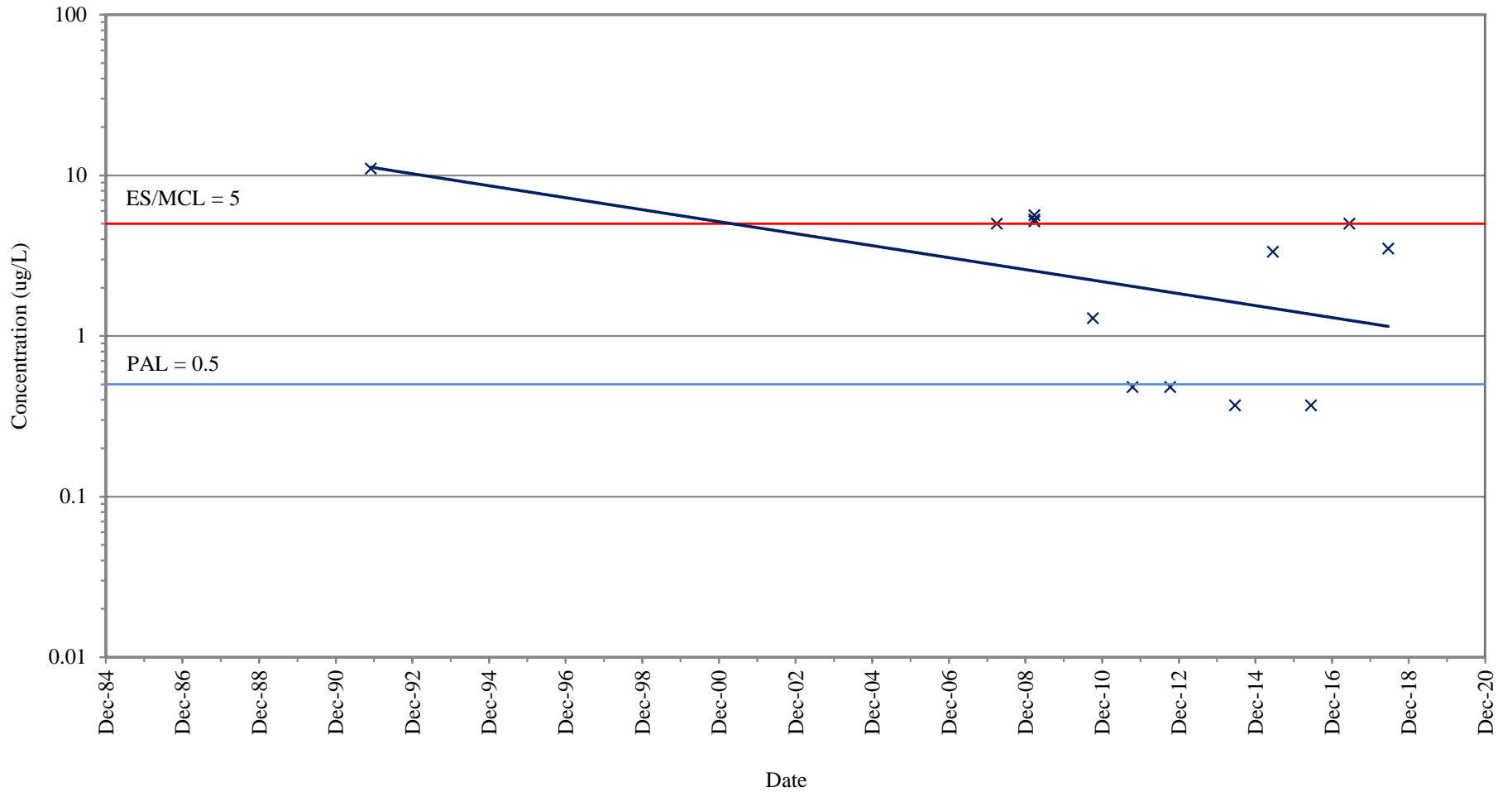
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-52A (GRID COORDINATE F6)

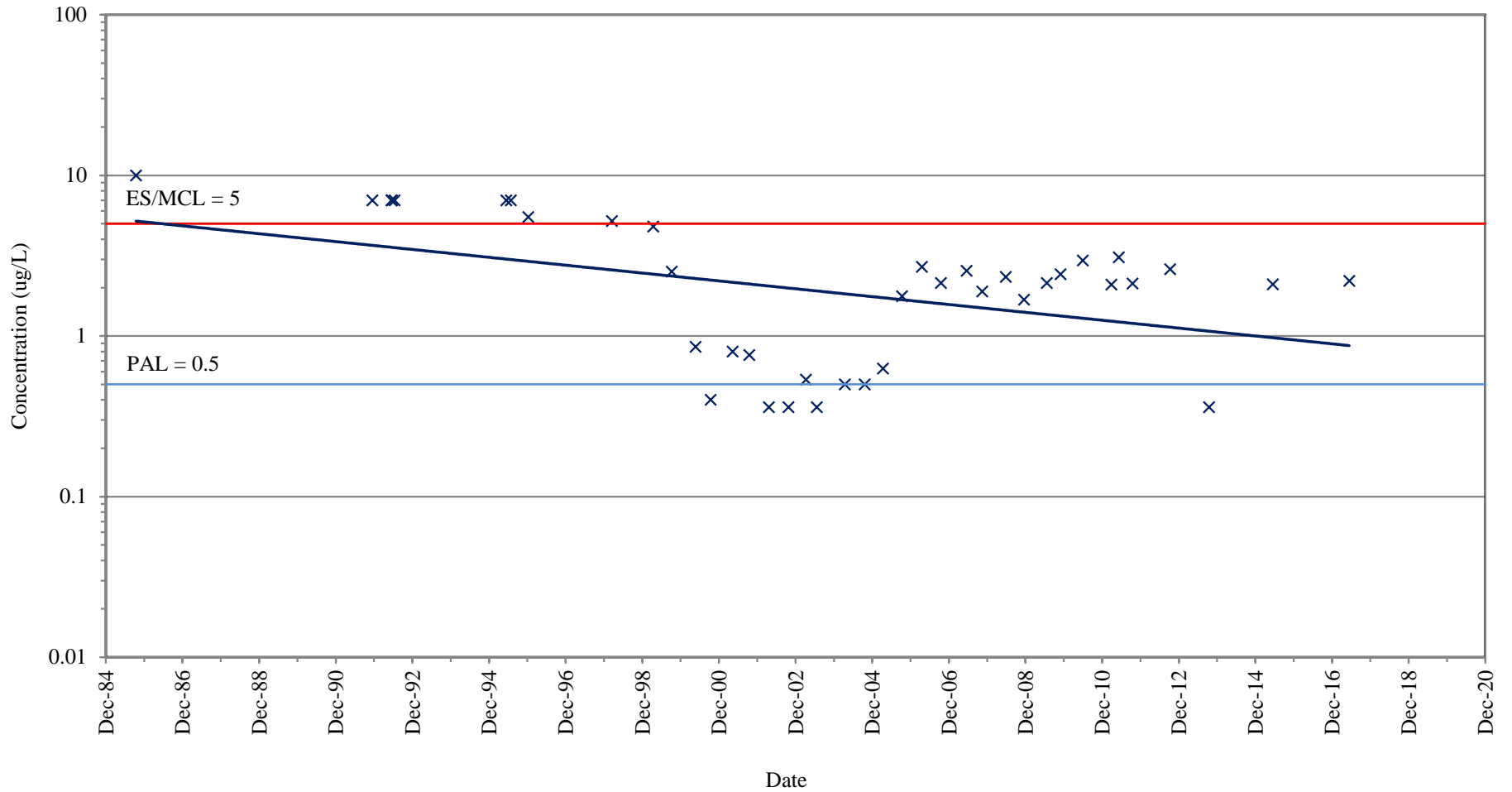
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-52B (GRID COORDINATE F6)

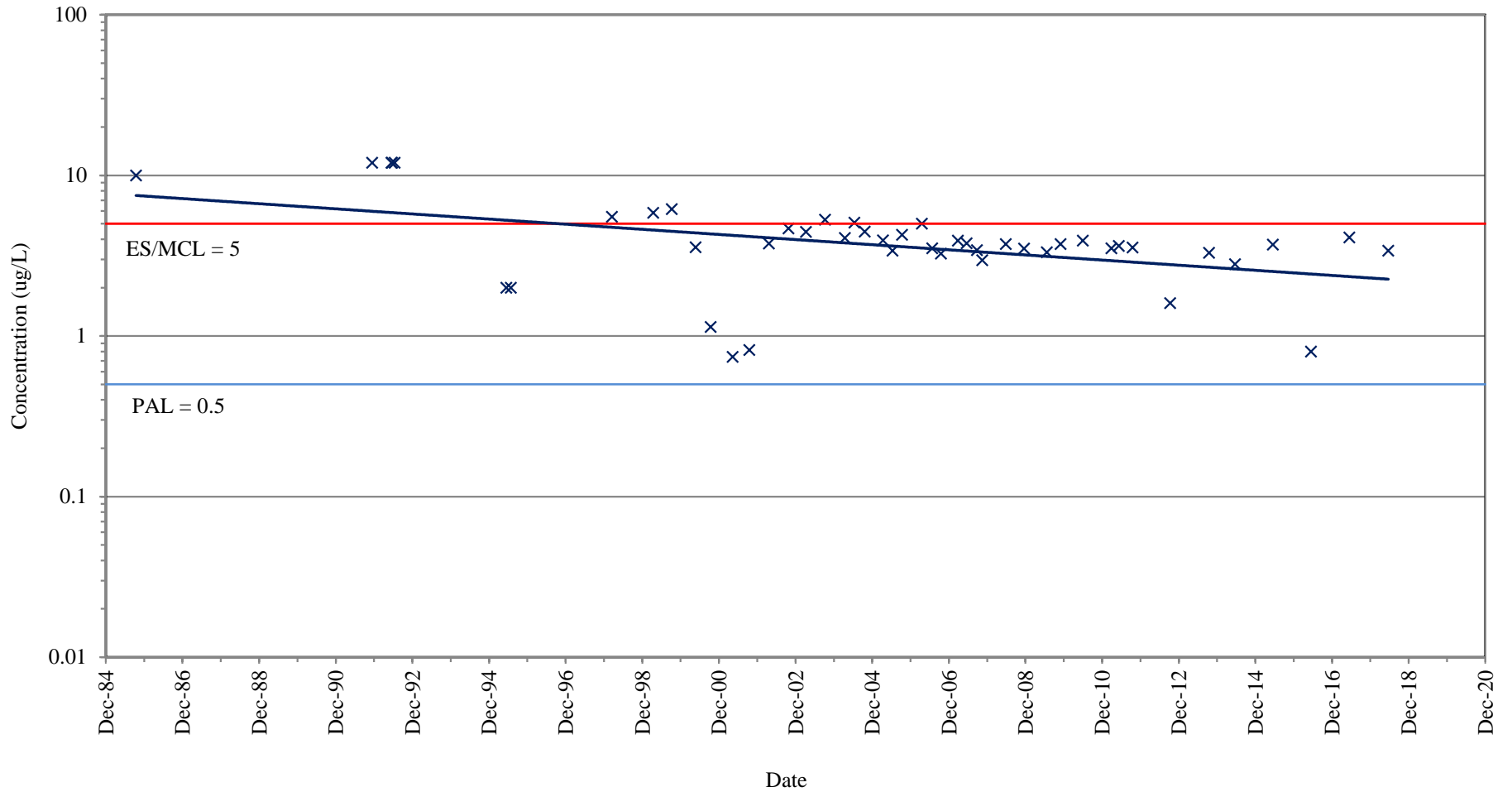
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-53A (GRID COORDINATE E6)

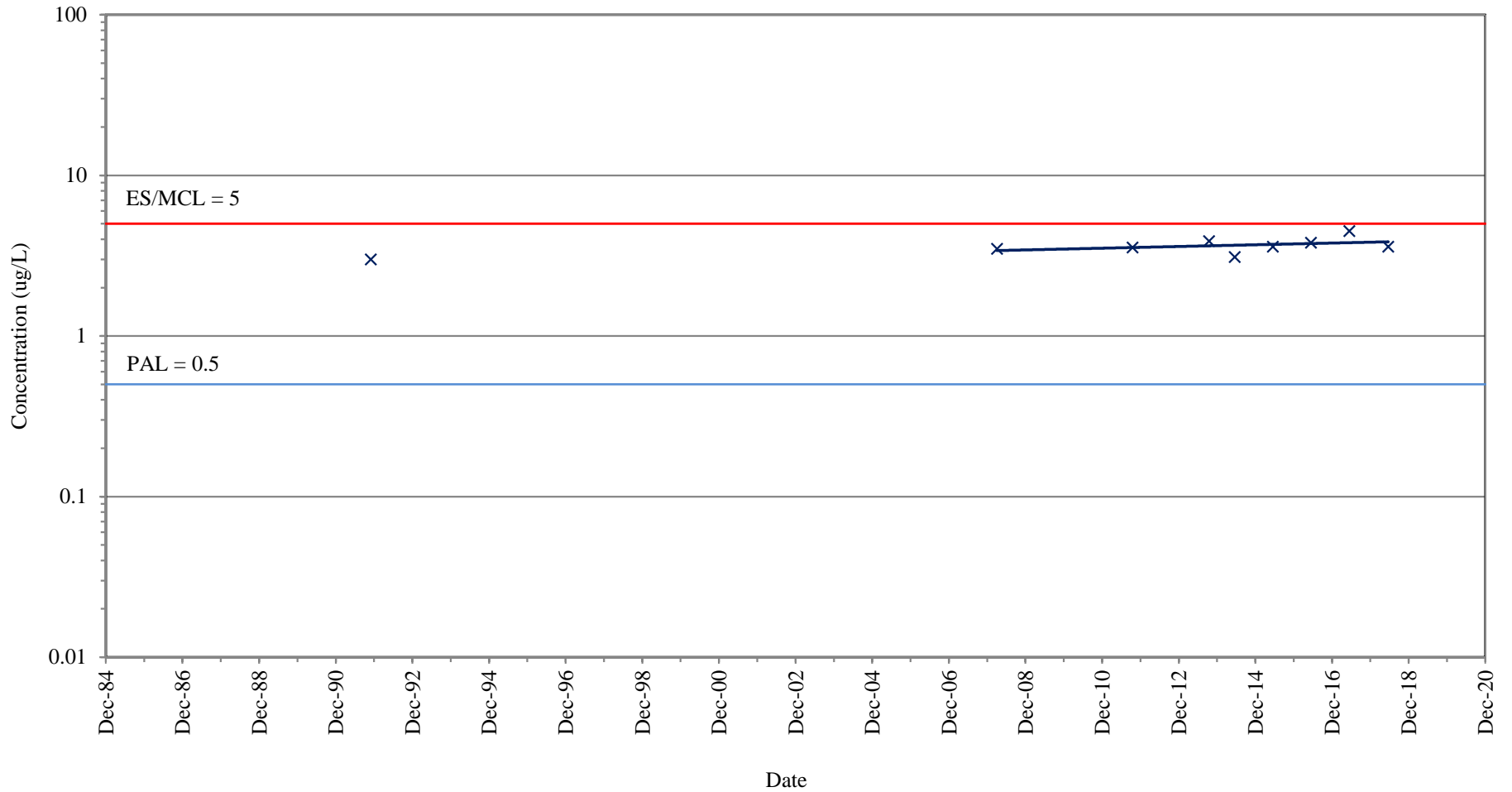
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-53B (GRID COORDINATE E6)

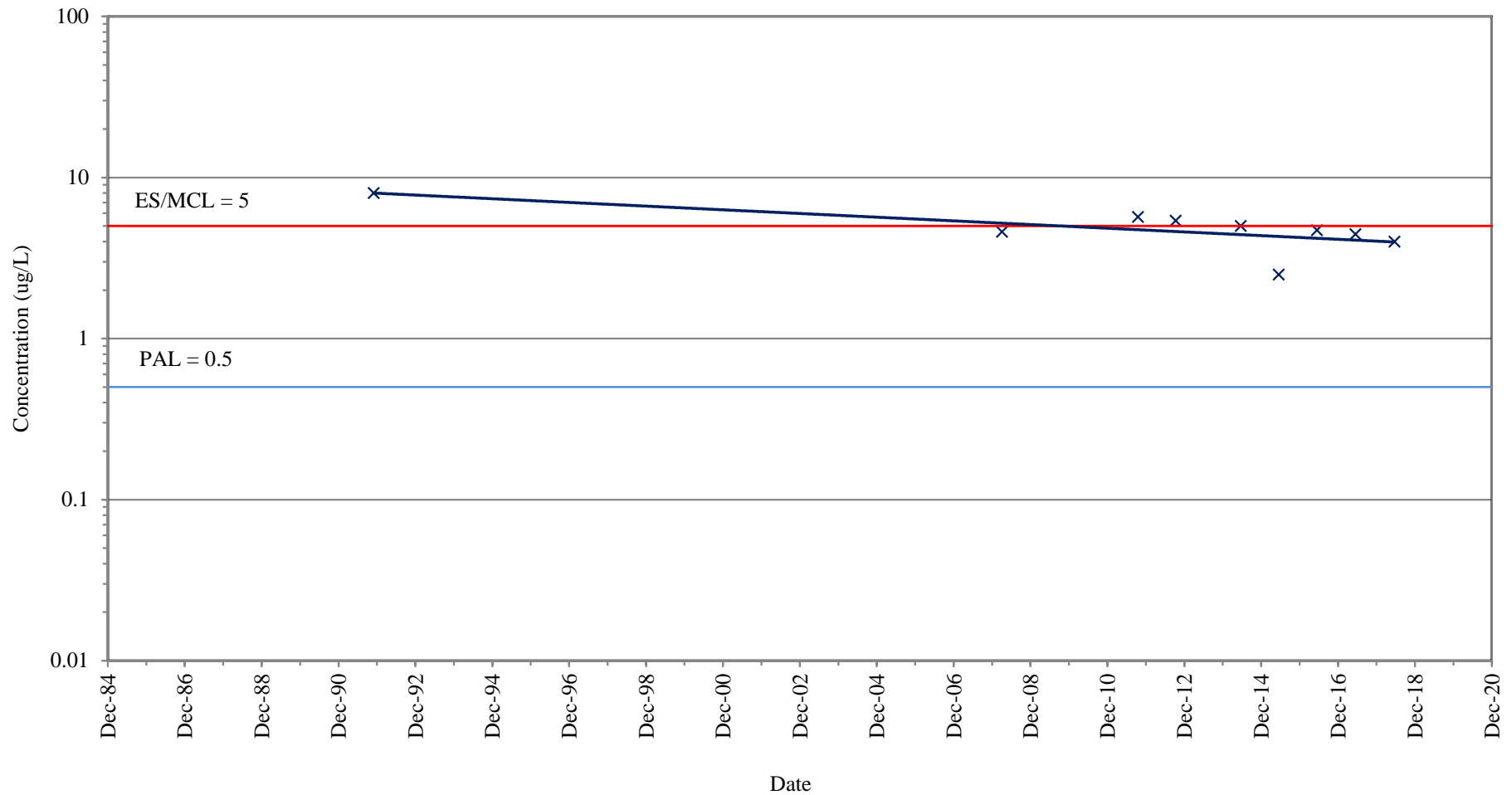
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: The best-fit exponential trend line generated using Excel evaluates a partial data set to focus on a "more representative" sample cluster.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-54B (GRID COORDINATE D6)

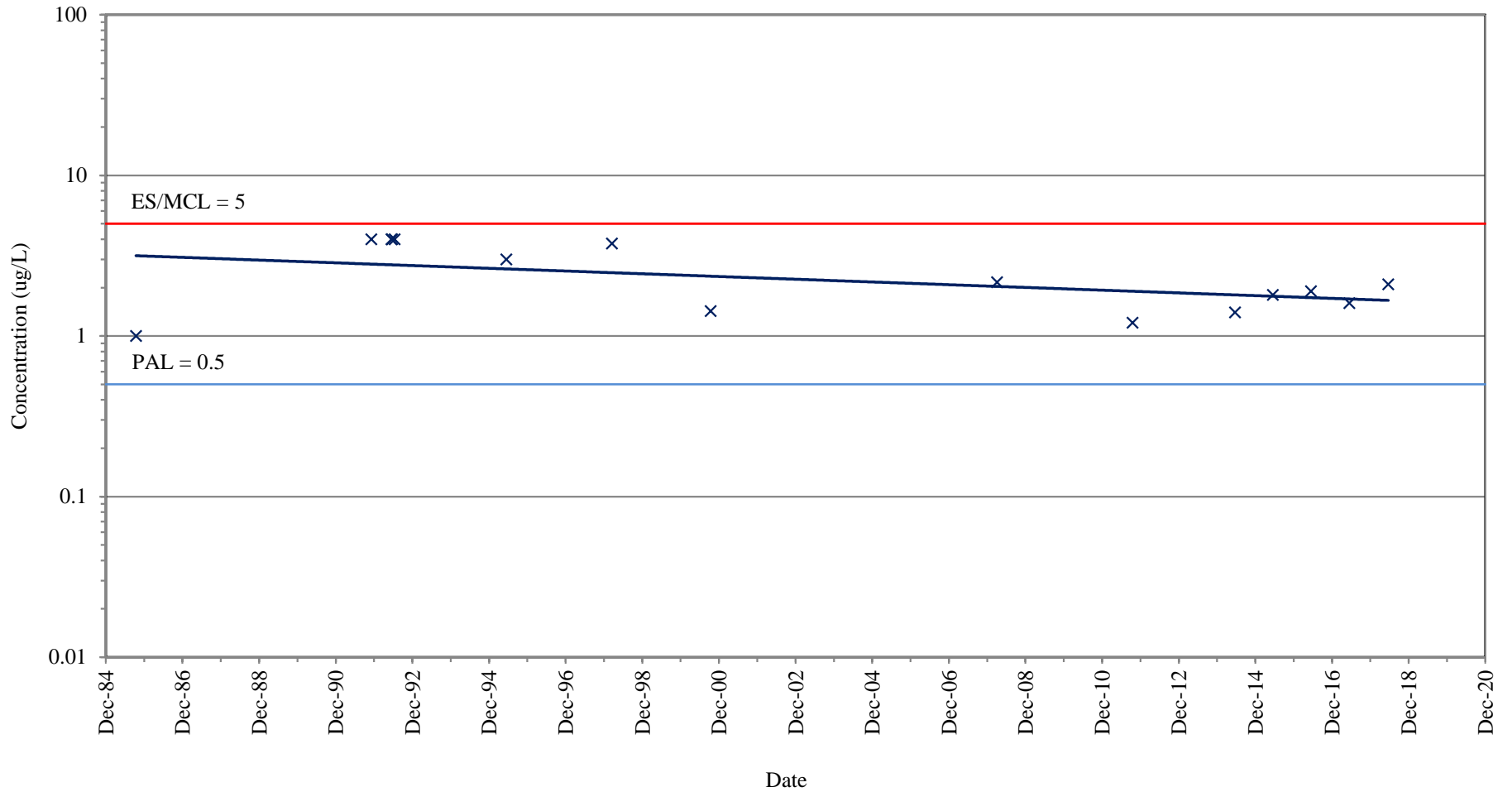
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-54C (GRID COORDINATE D6)

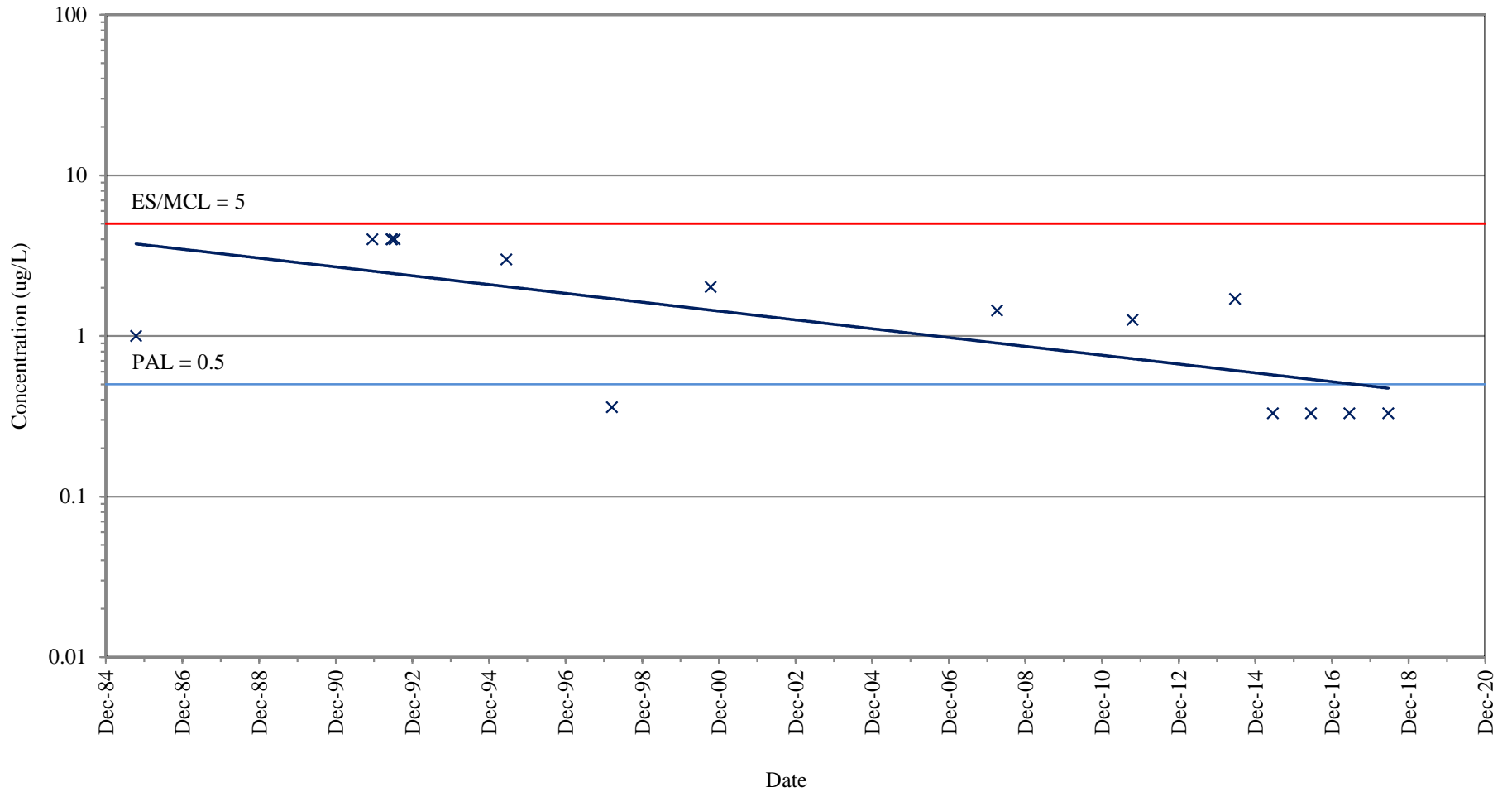
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-55B (GRID COORDINATE D6)

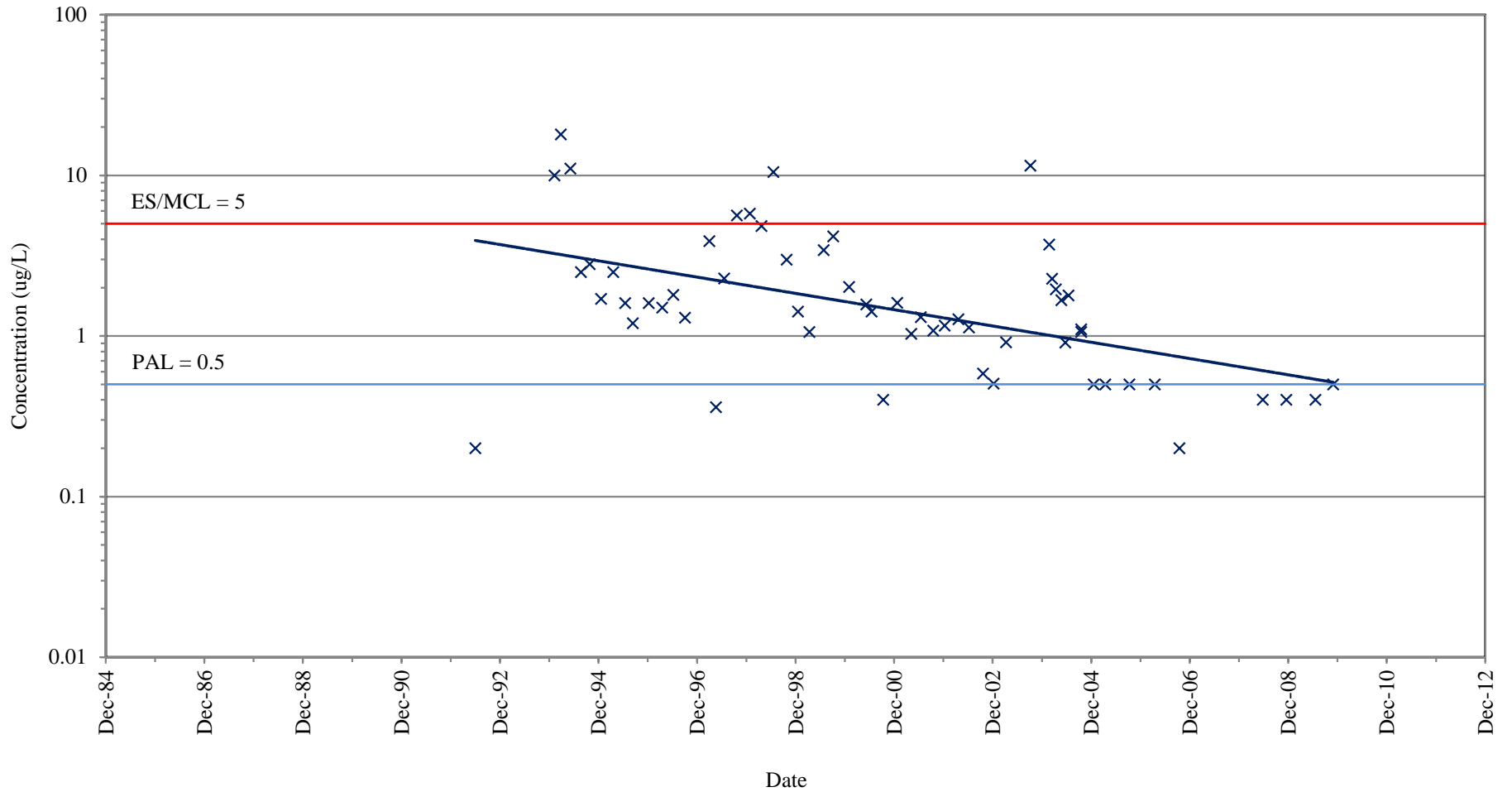
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-55C (GRID COORDINATE D6)

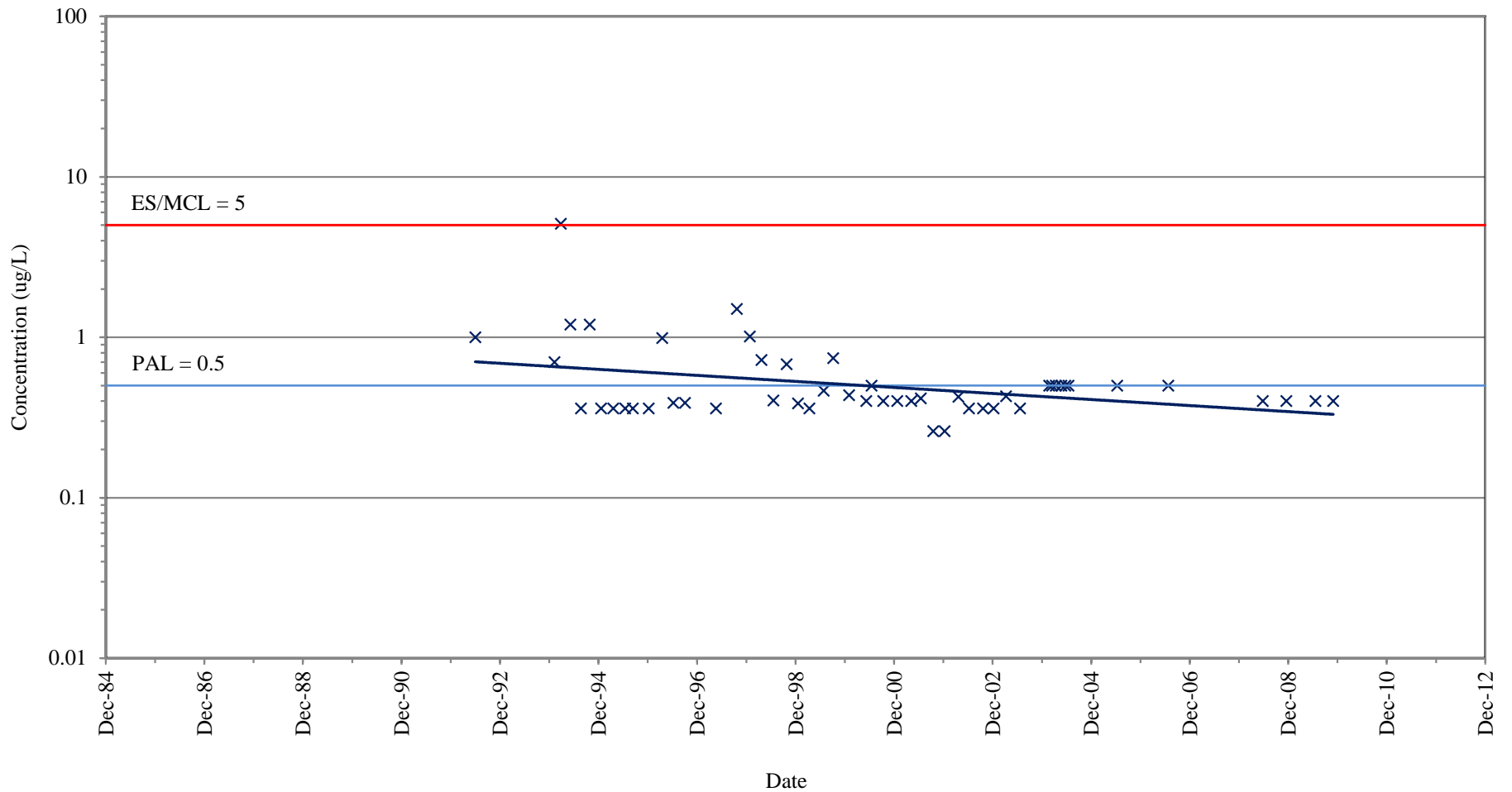
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

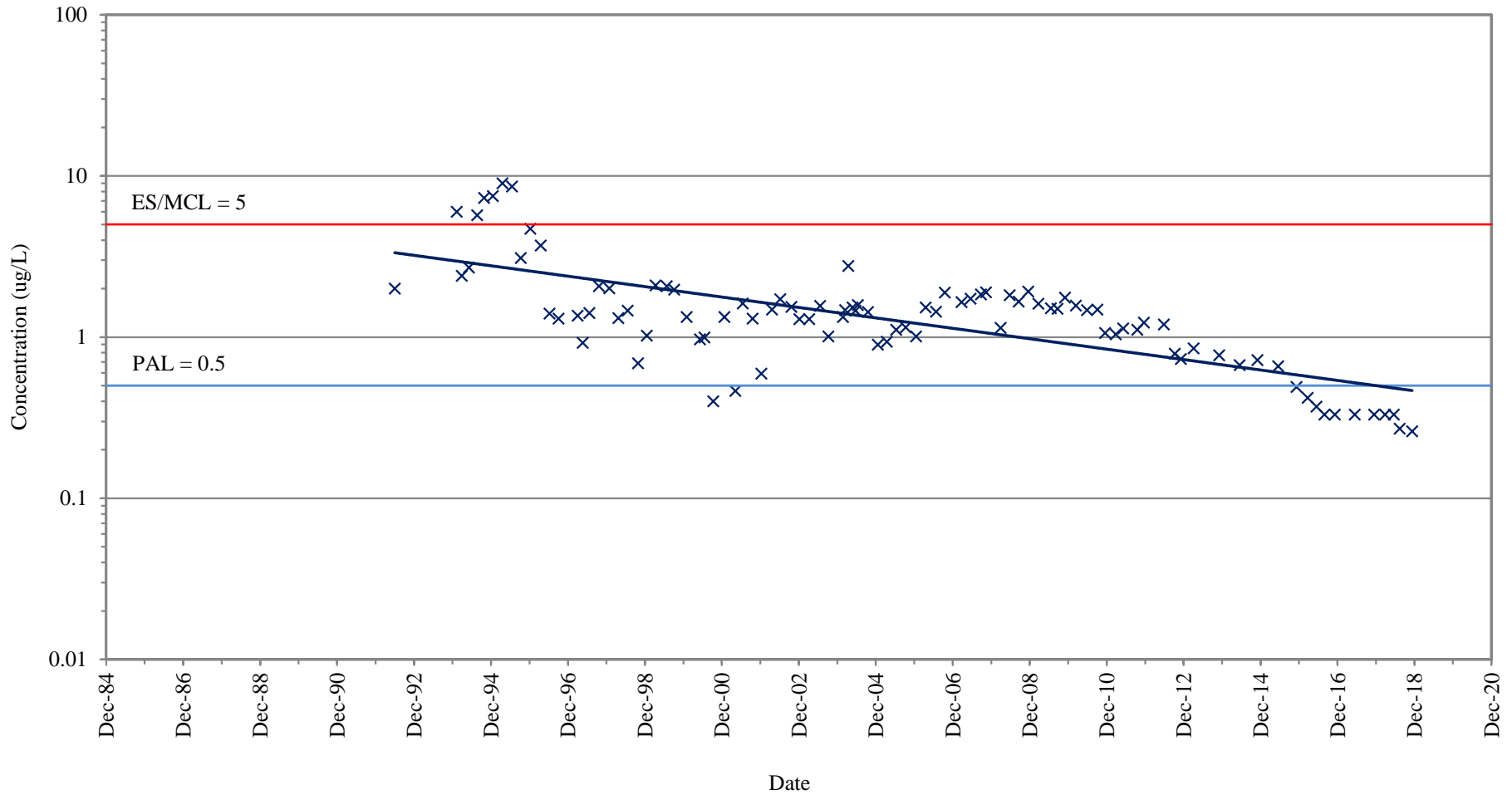
PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-67A (GRID COORDINATE K7)

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

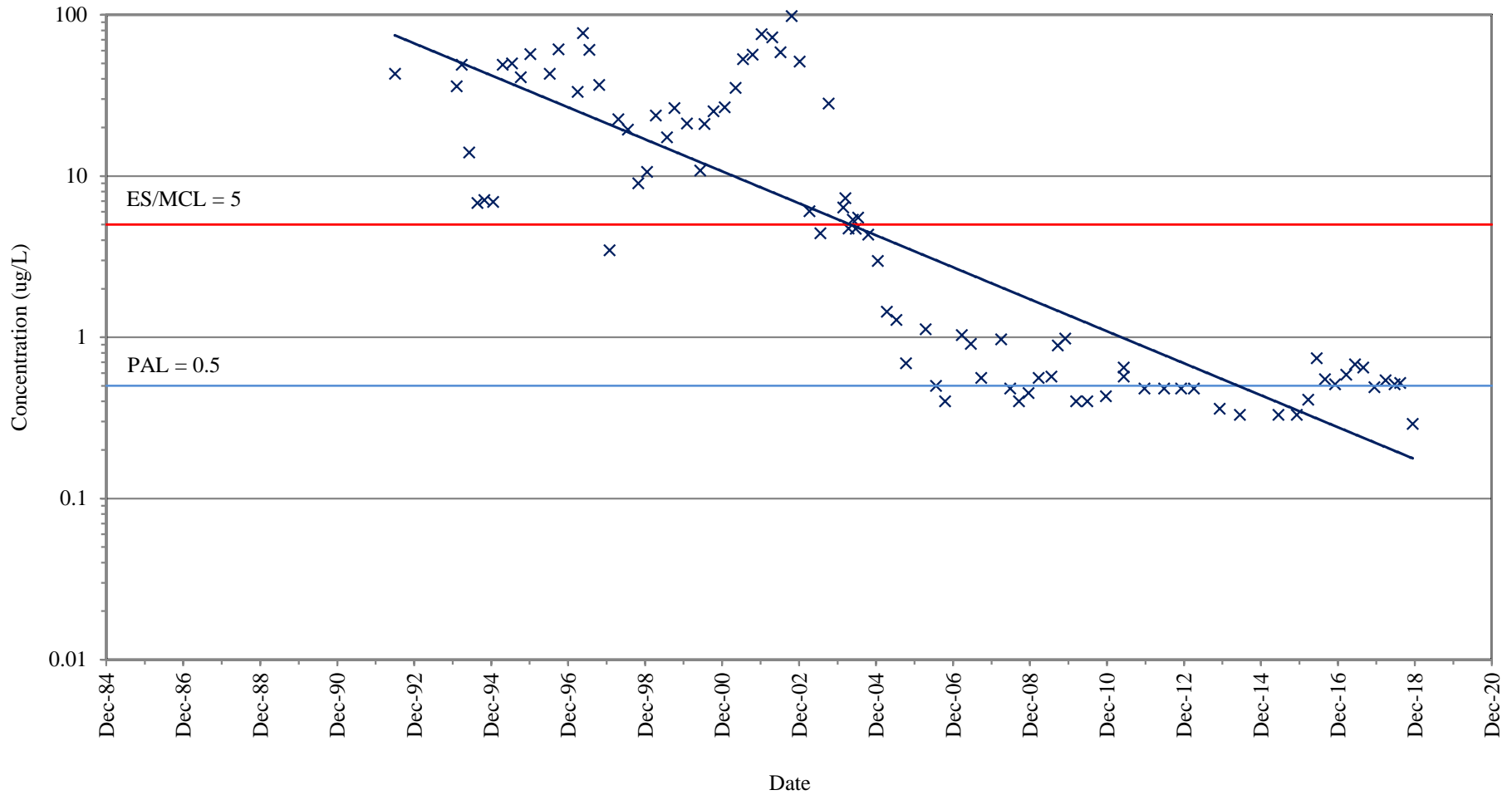
PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-67B (GRID COORDINATE K7)
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-68B (GRID COORDINATE J7)

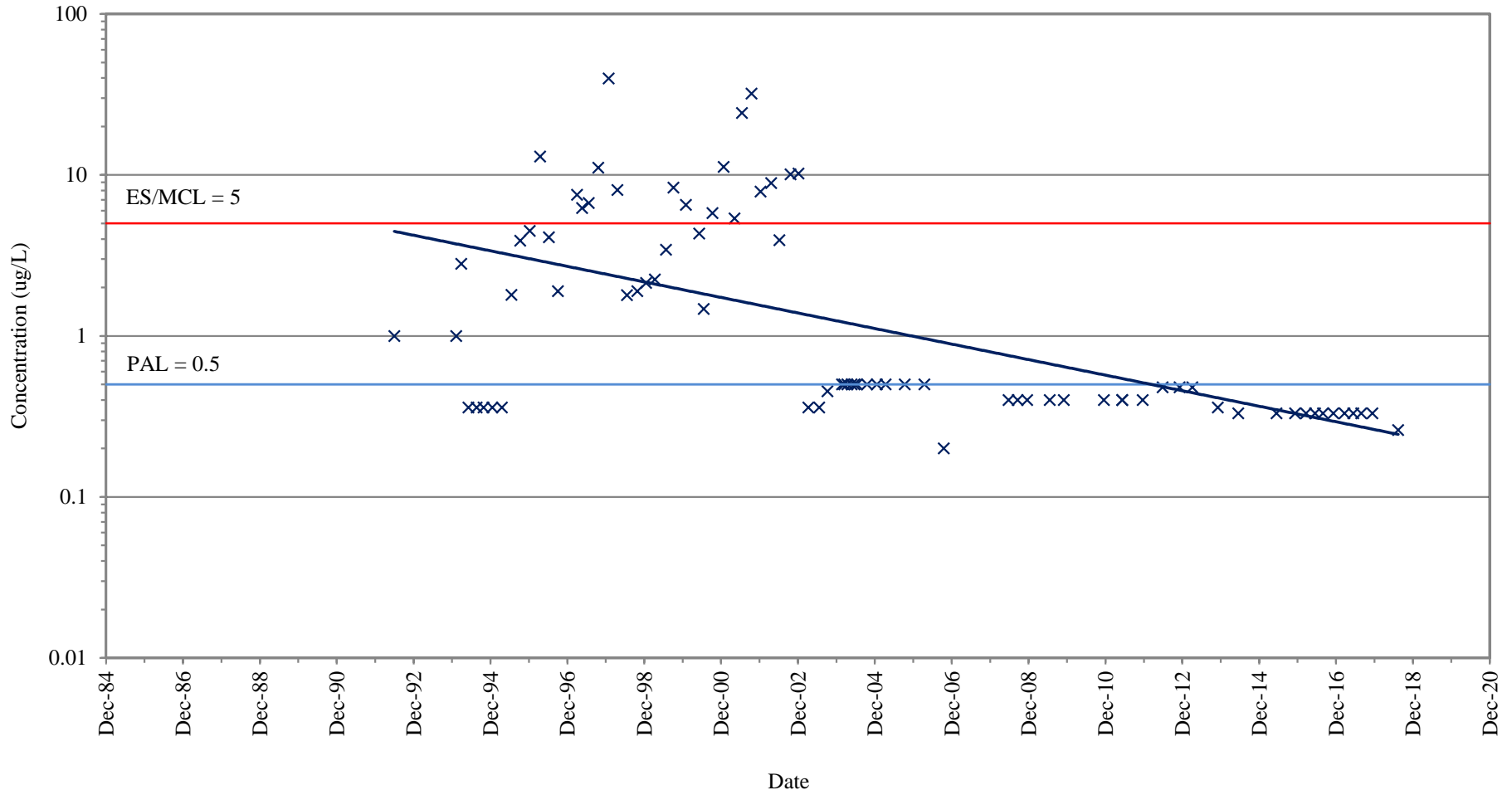
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-70A (GRID COORDINATE K8)

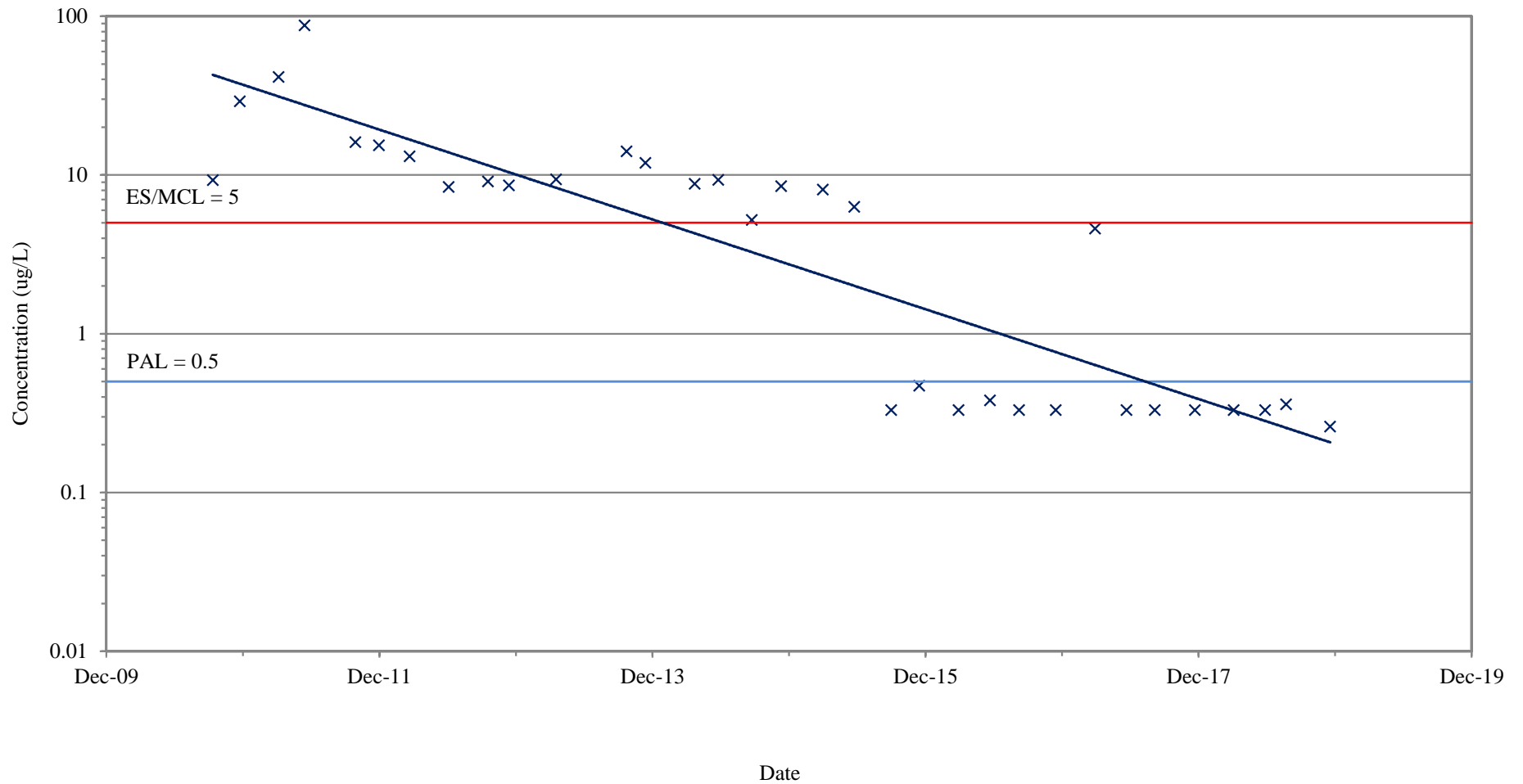
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-70B (GRID COORDINATE K8)

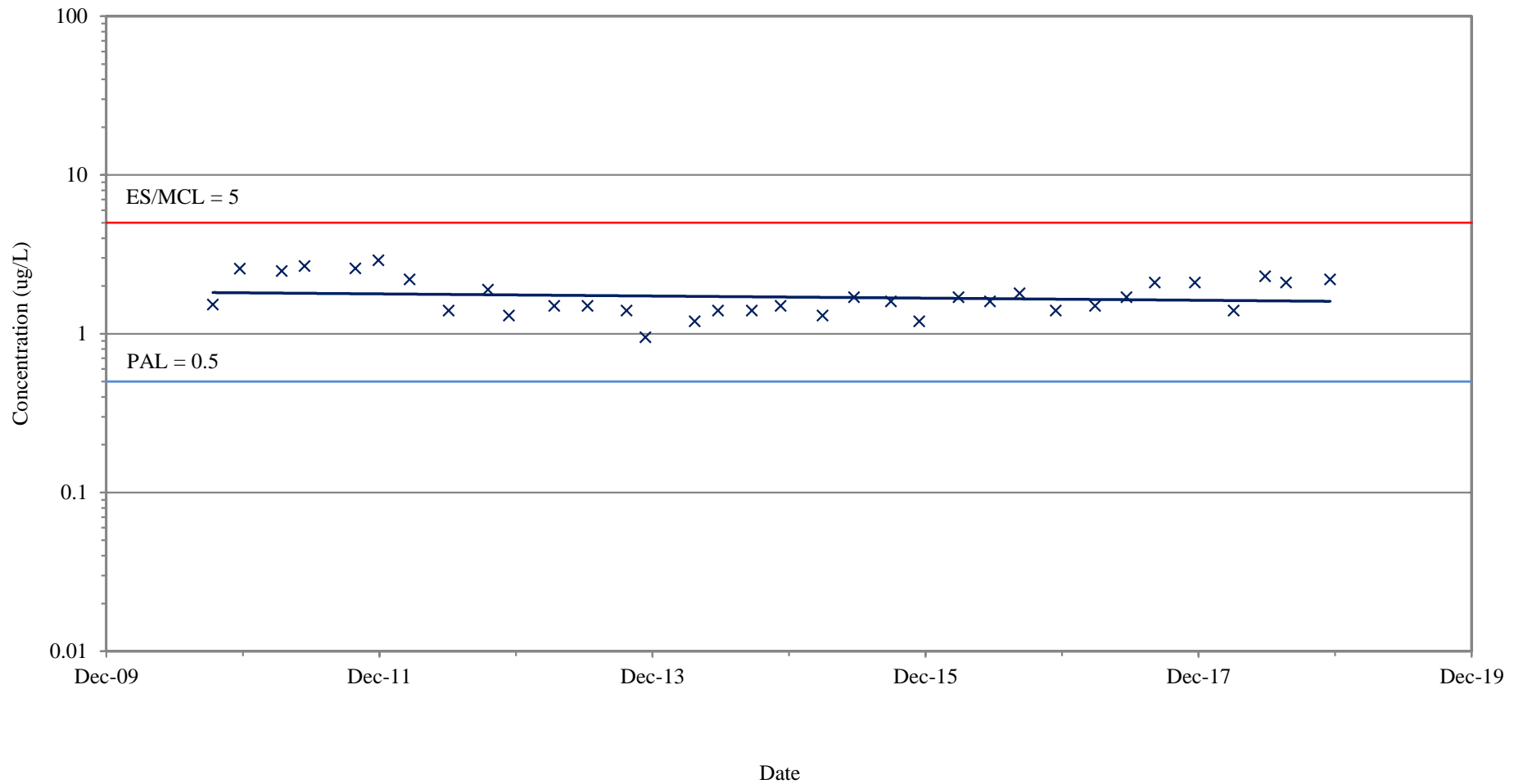
 NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-76A (GRID COORDINATE K7)

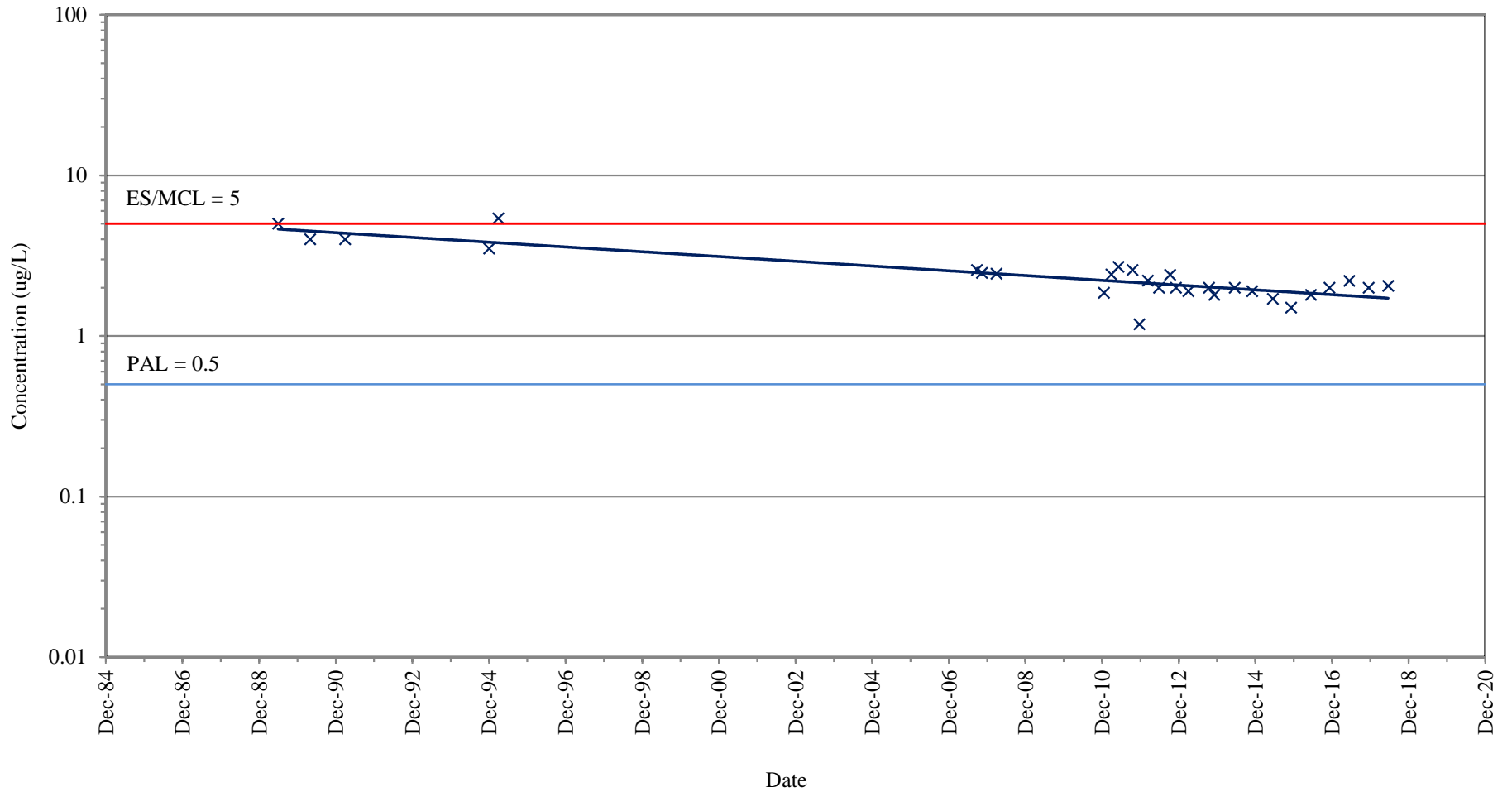
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-77B (GRID COORDINATE K7)

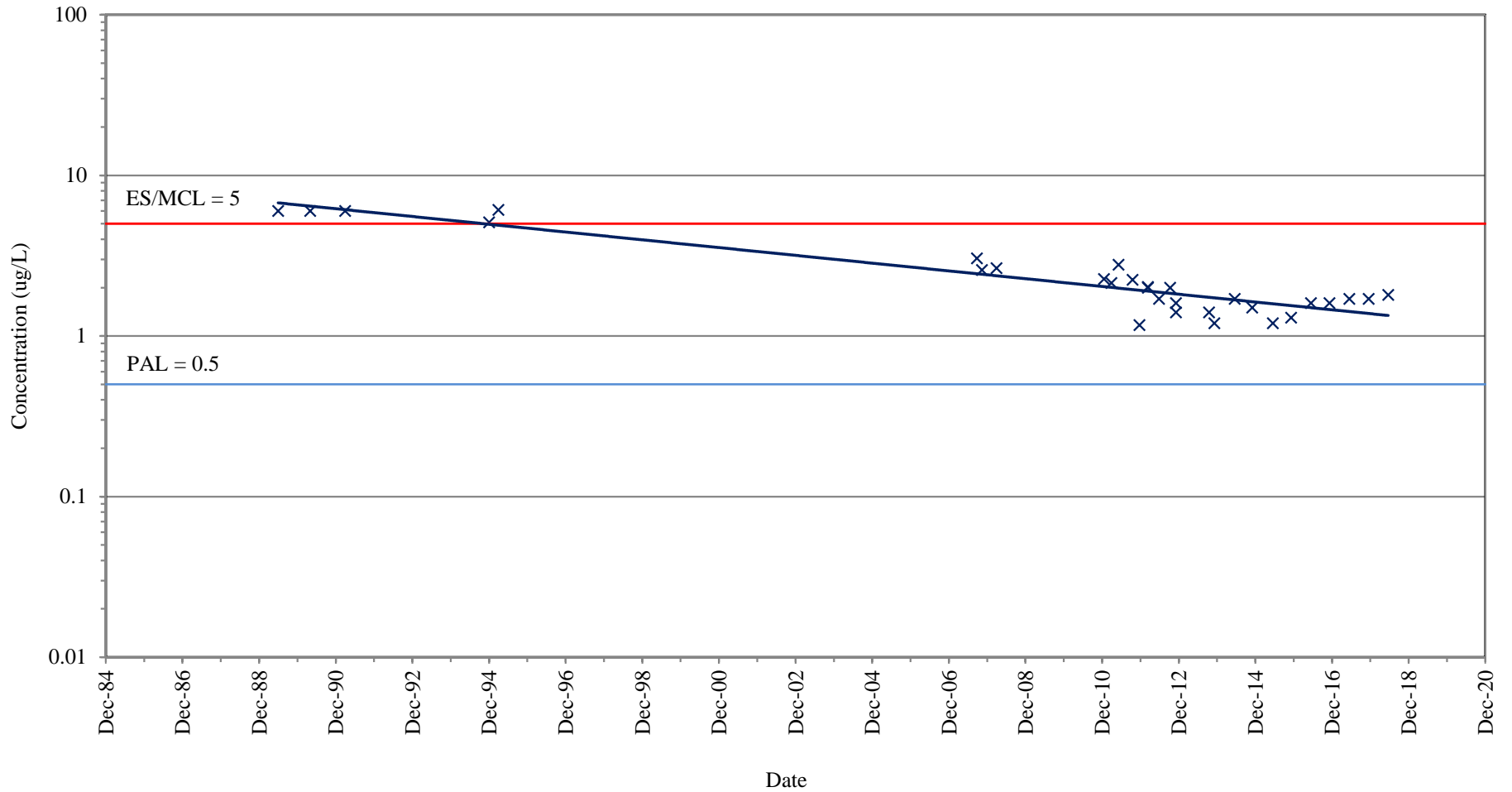
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-2B (GRID COORDINATE J7)

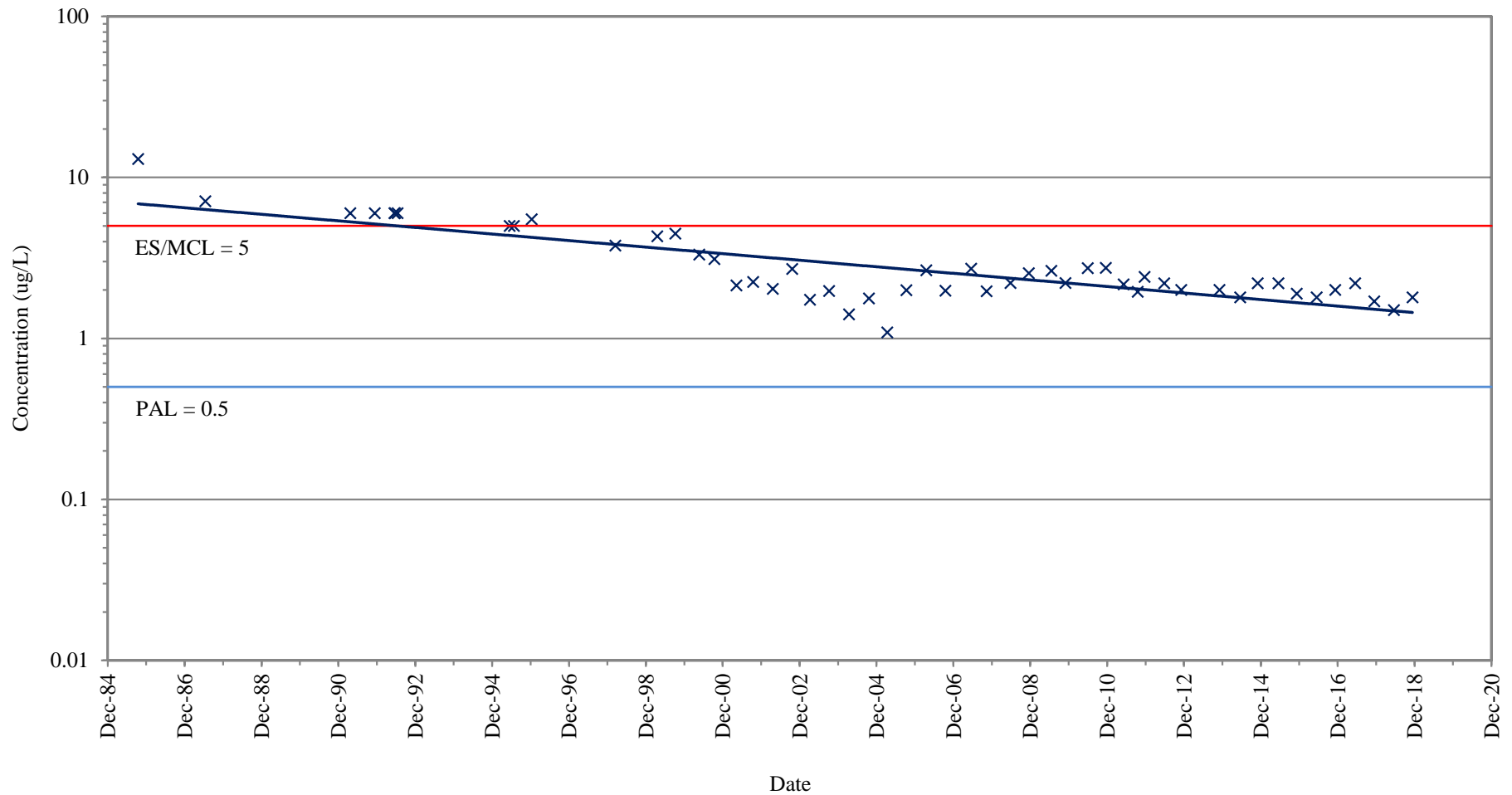
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-2C (GRID COORDINATE J7)

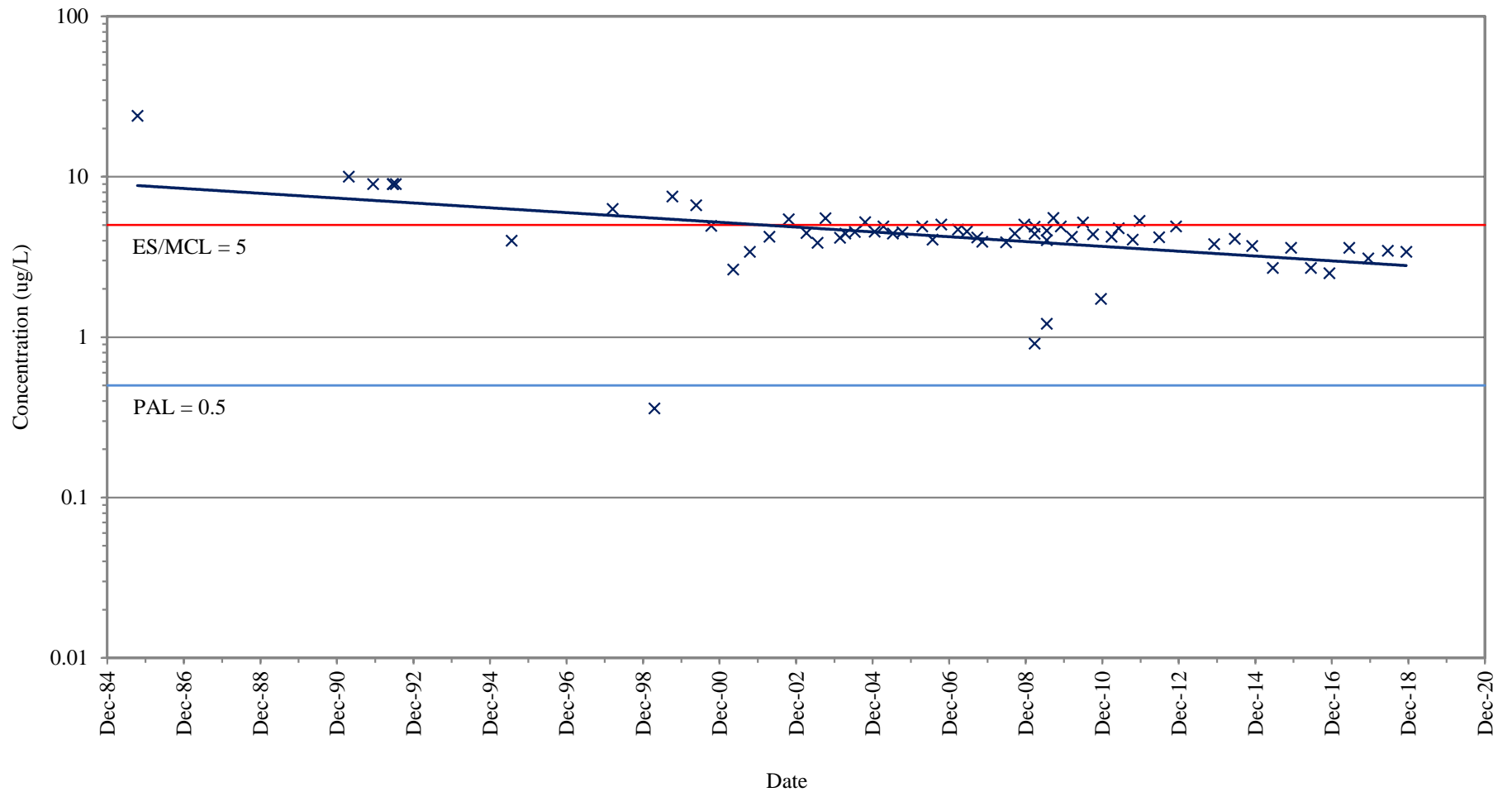
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3A (GRID COORDINATE C6)

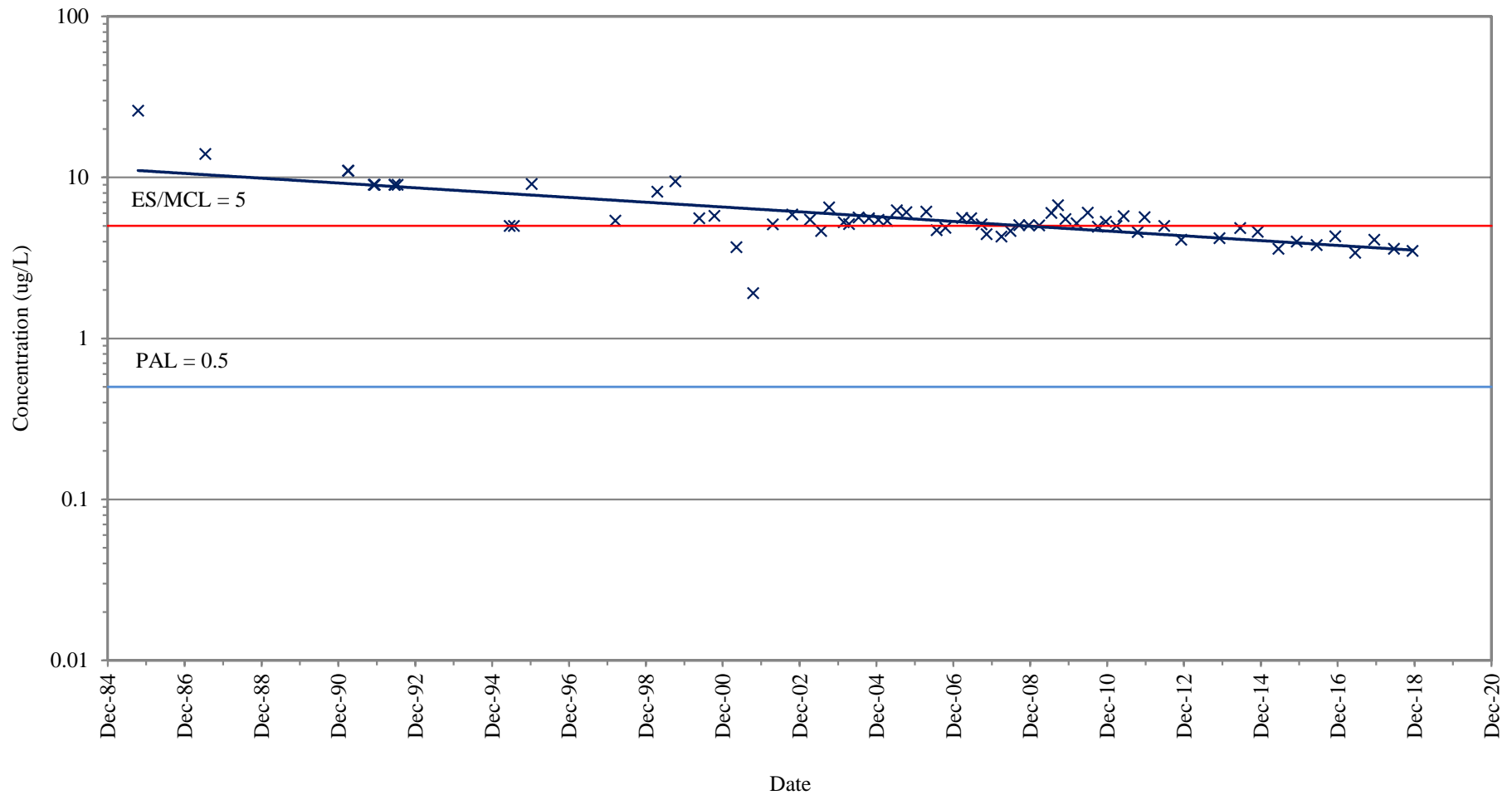
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3B (GRID COORDINATE C6)

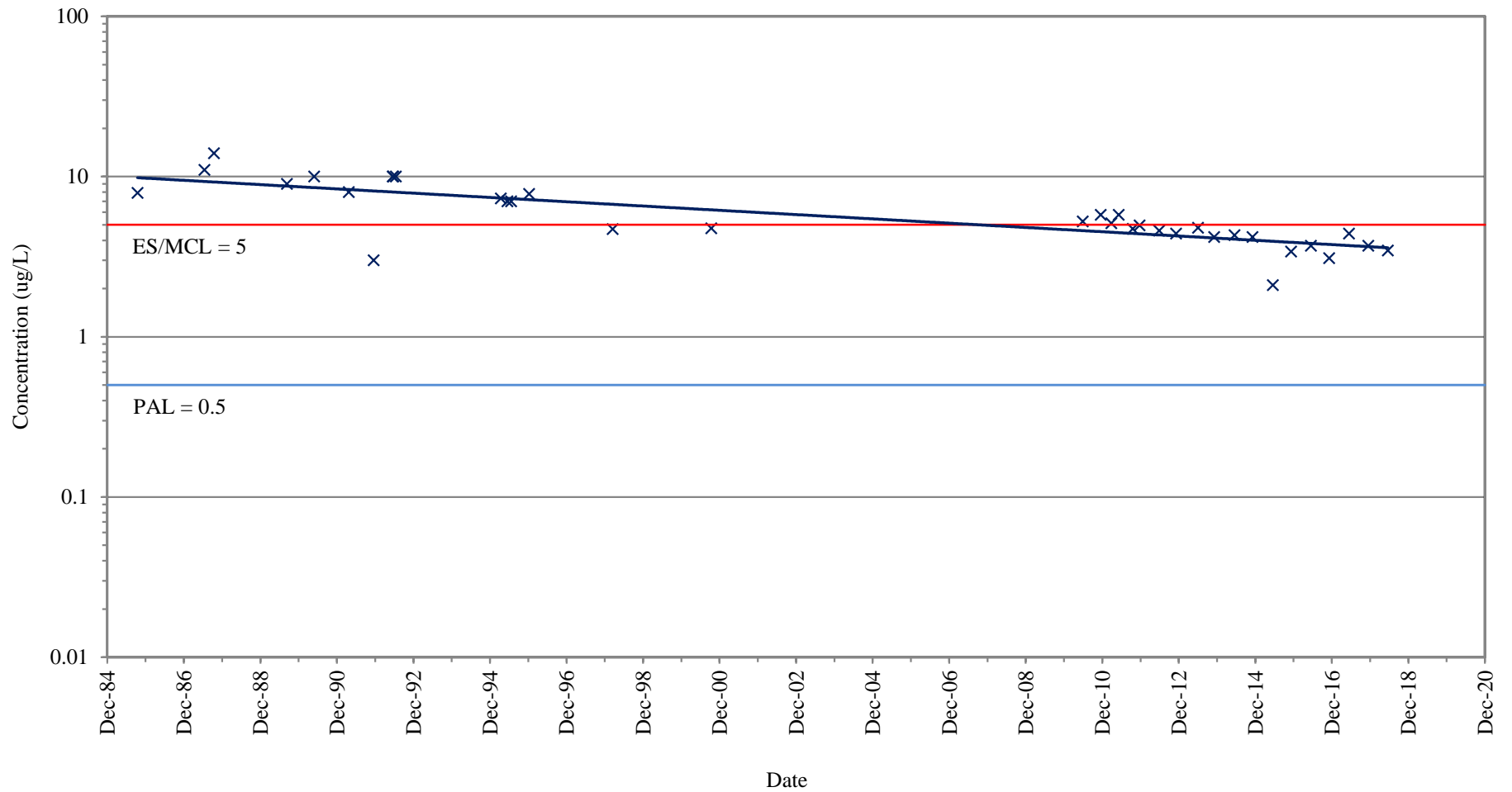
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3C (GRID COORDINATE C6)

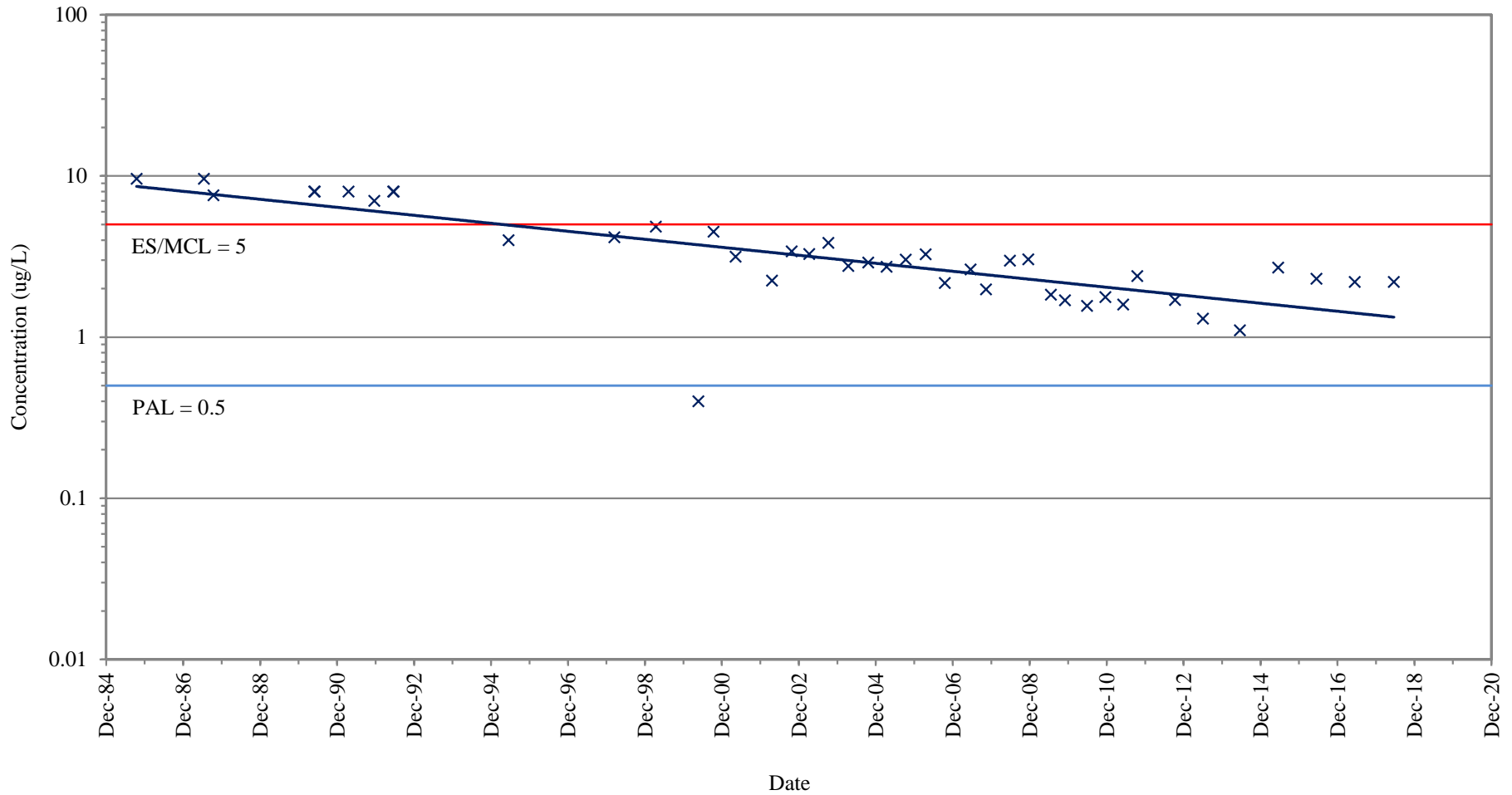
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-15 (GRID COORDINATE J7)

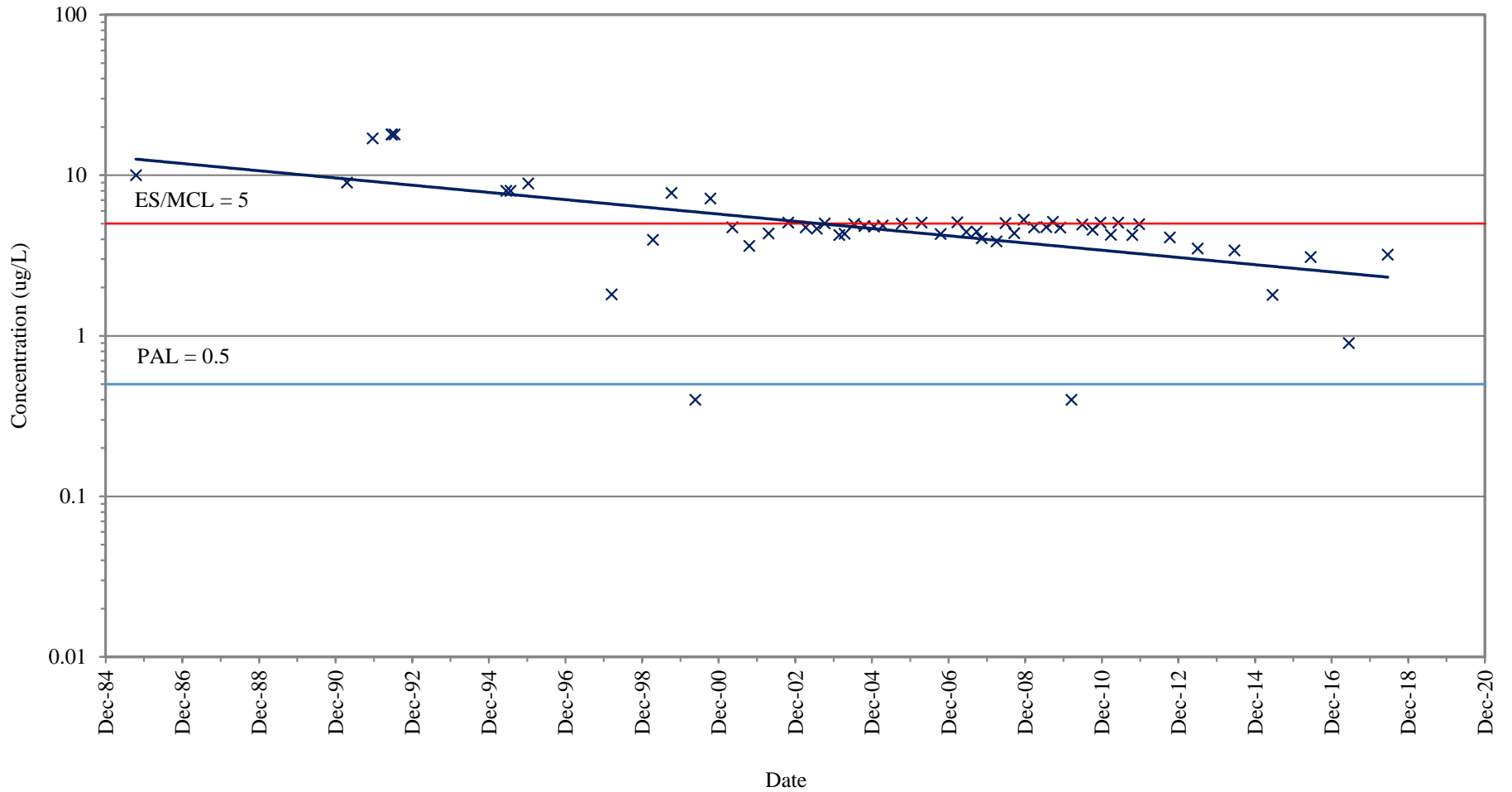
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16 (GRID COORDINATE G7)

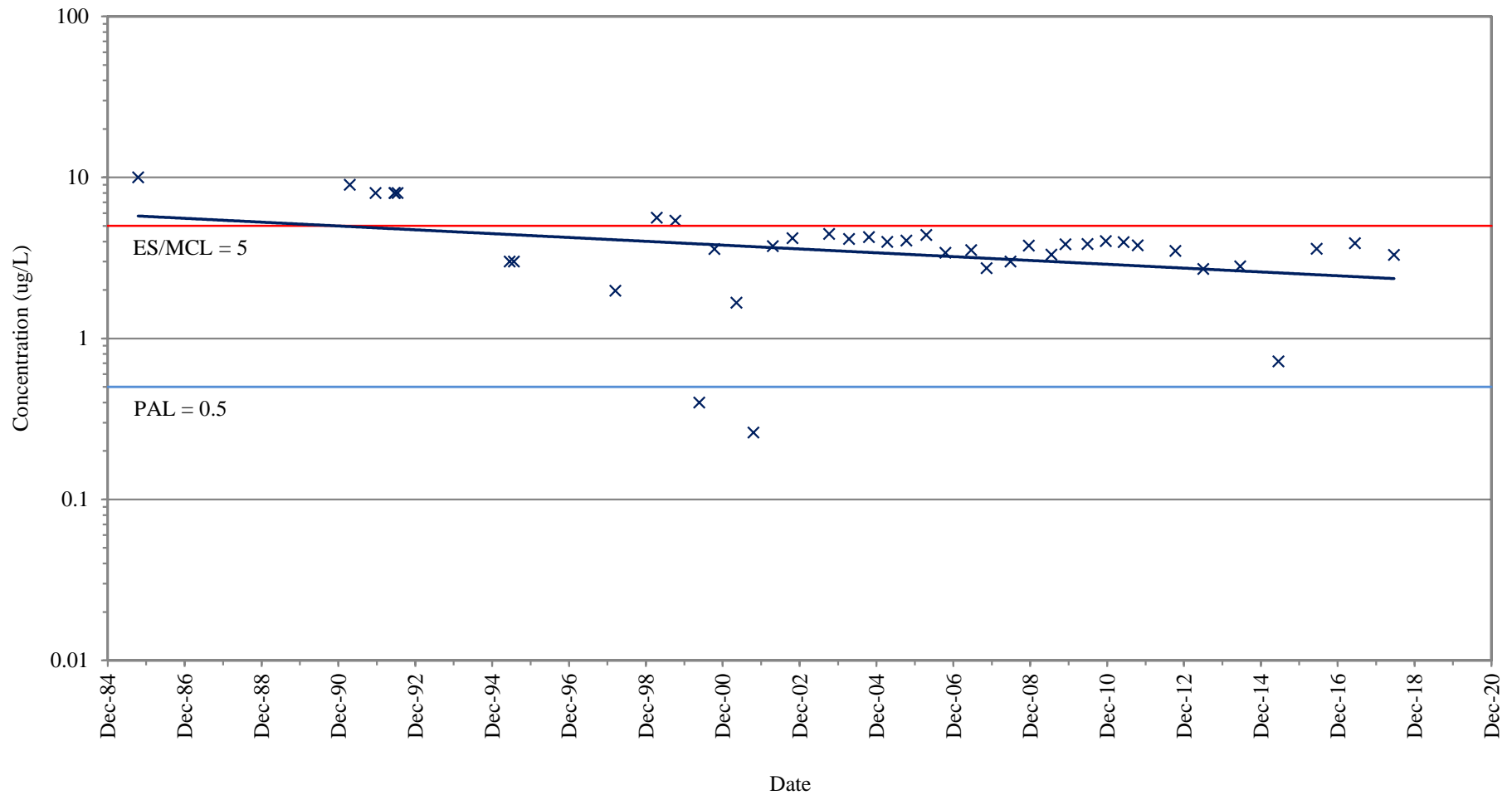
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16B (GRID COORDINATE G7)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



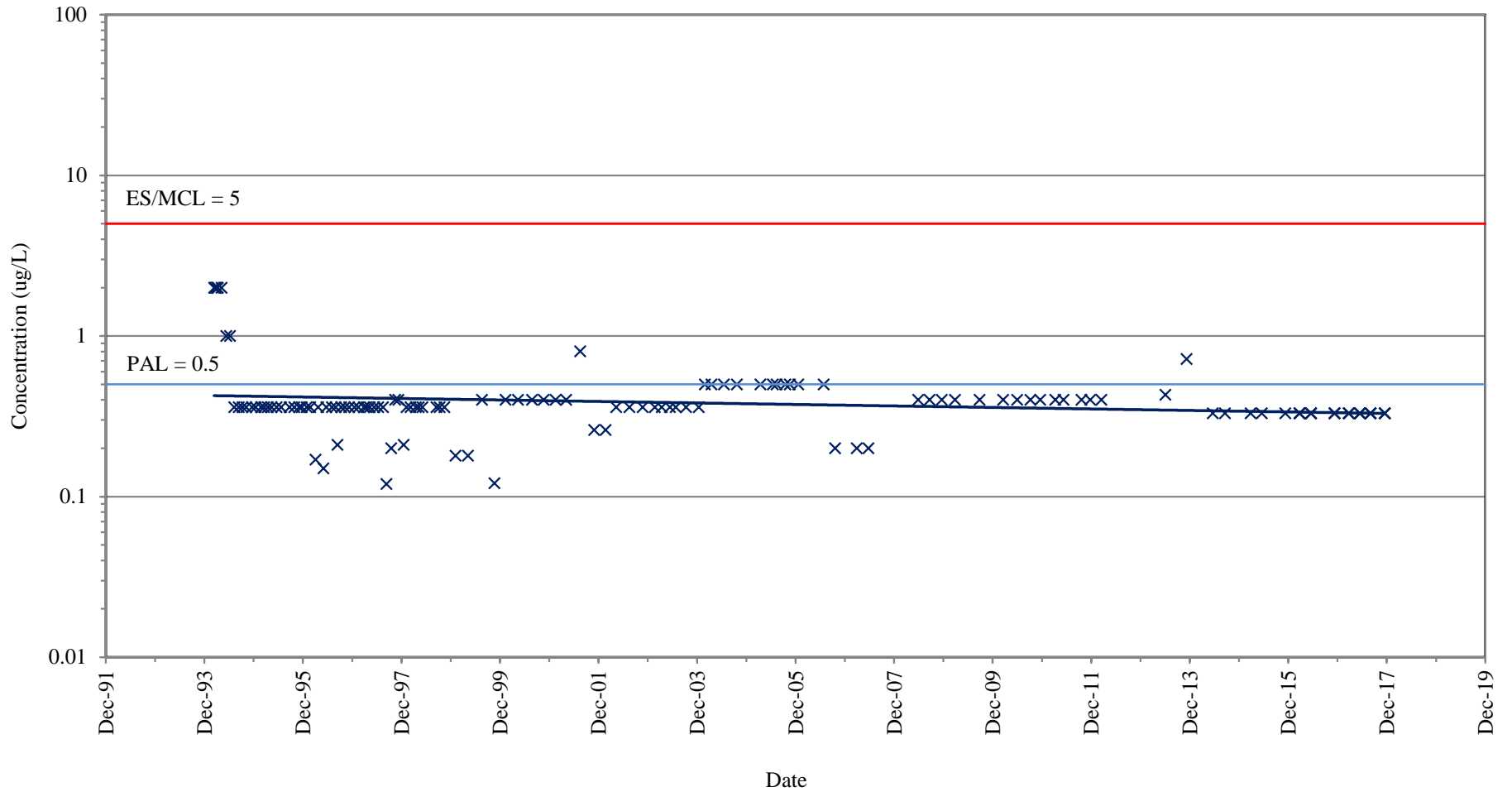
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16C (GRID COORDINATE G7)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN

APPENDIX E

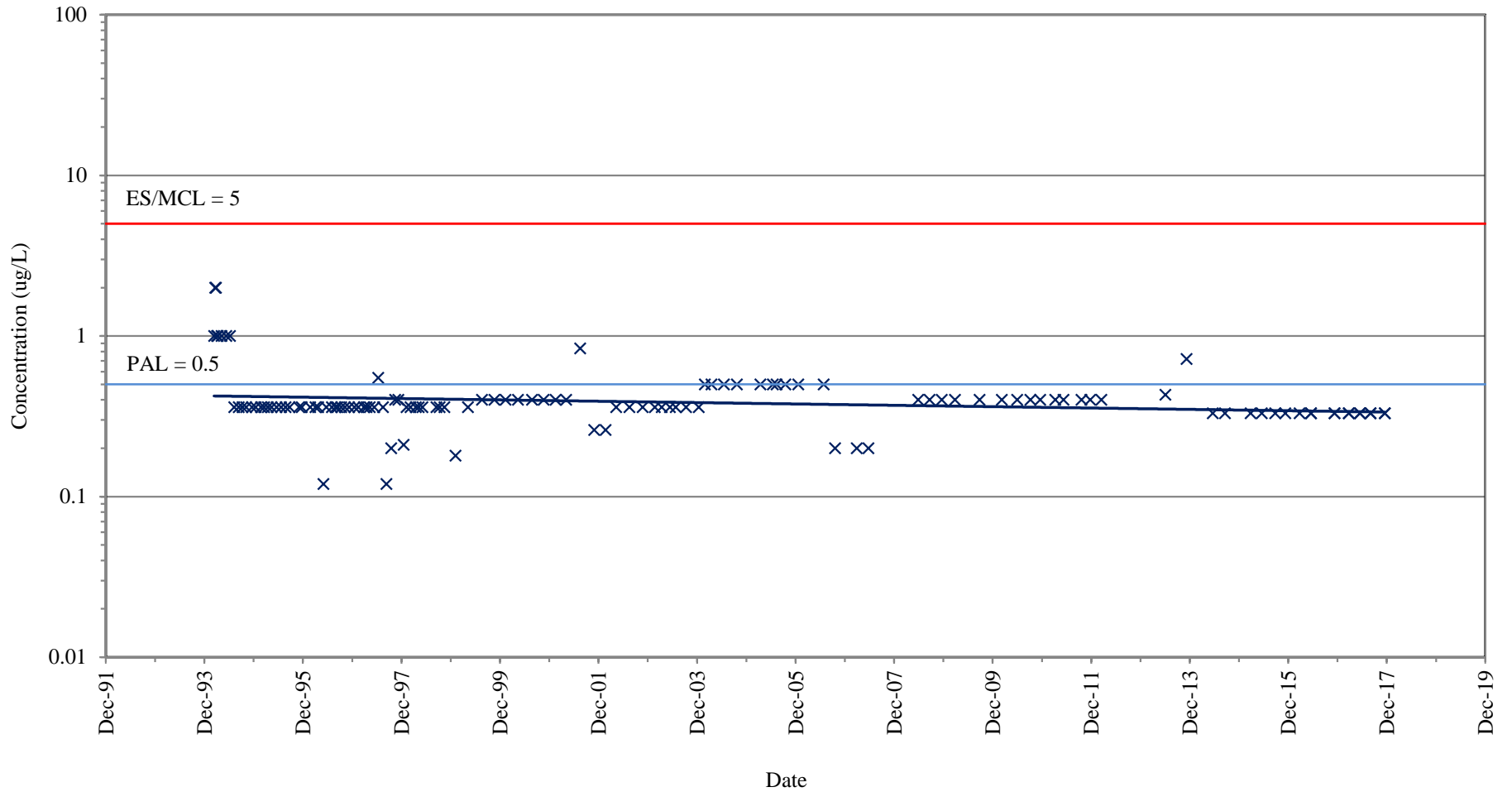
TCE CONCENTRATION VERSUS TIME GRAPHS
FORMER PLUME 3/4 (MELBY ROAD DISPOSAL SITE)



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-1/1R (GRID COORDINATE L6)

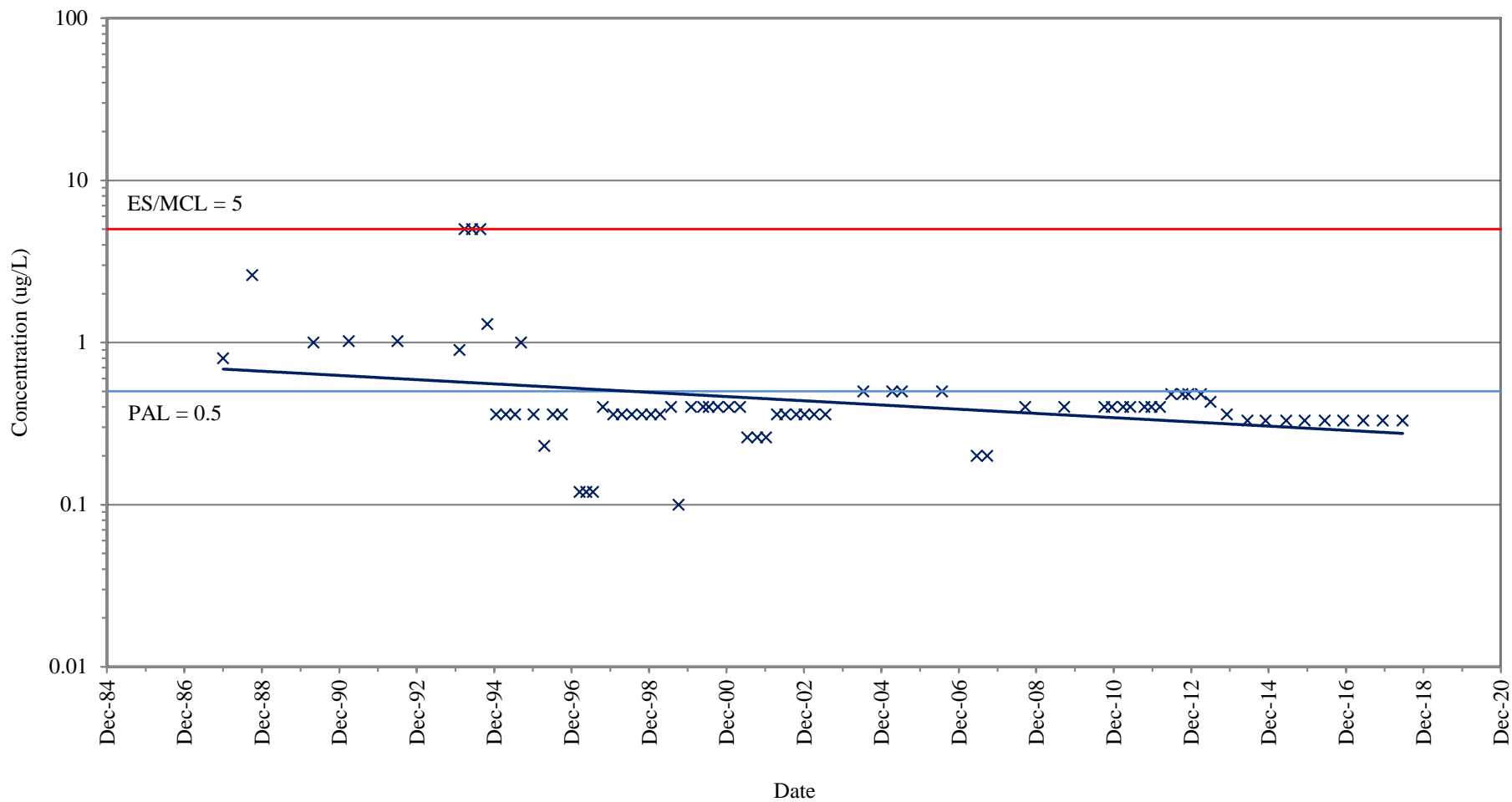
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-2 (GRID COORDINATE L6)

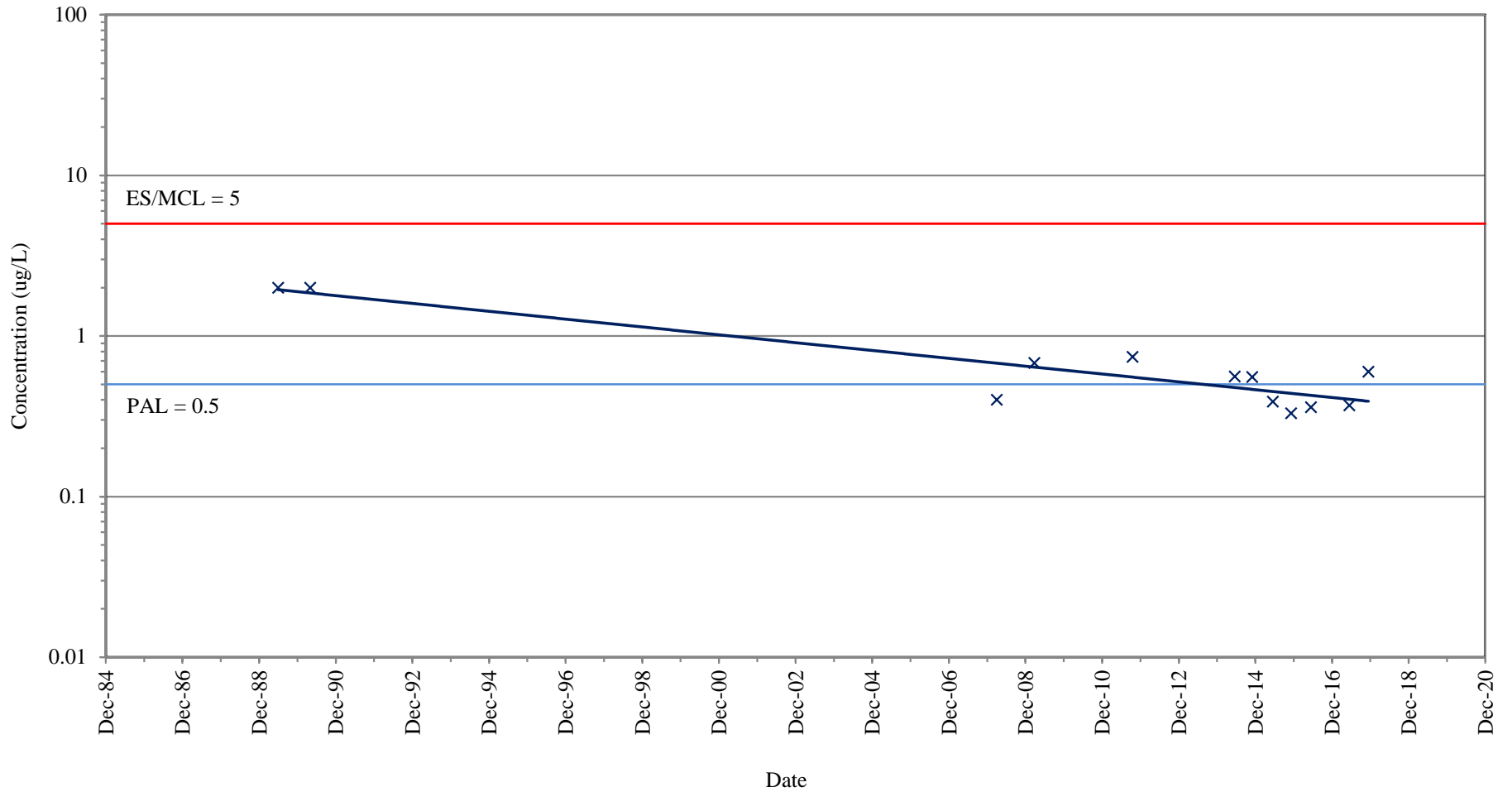
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-5A (GRID COORDINATE L6)

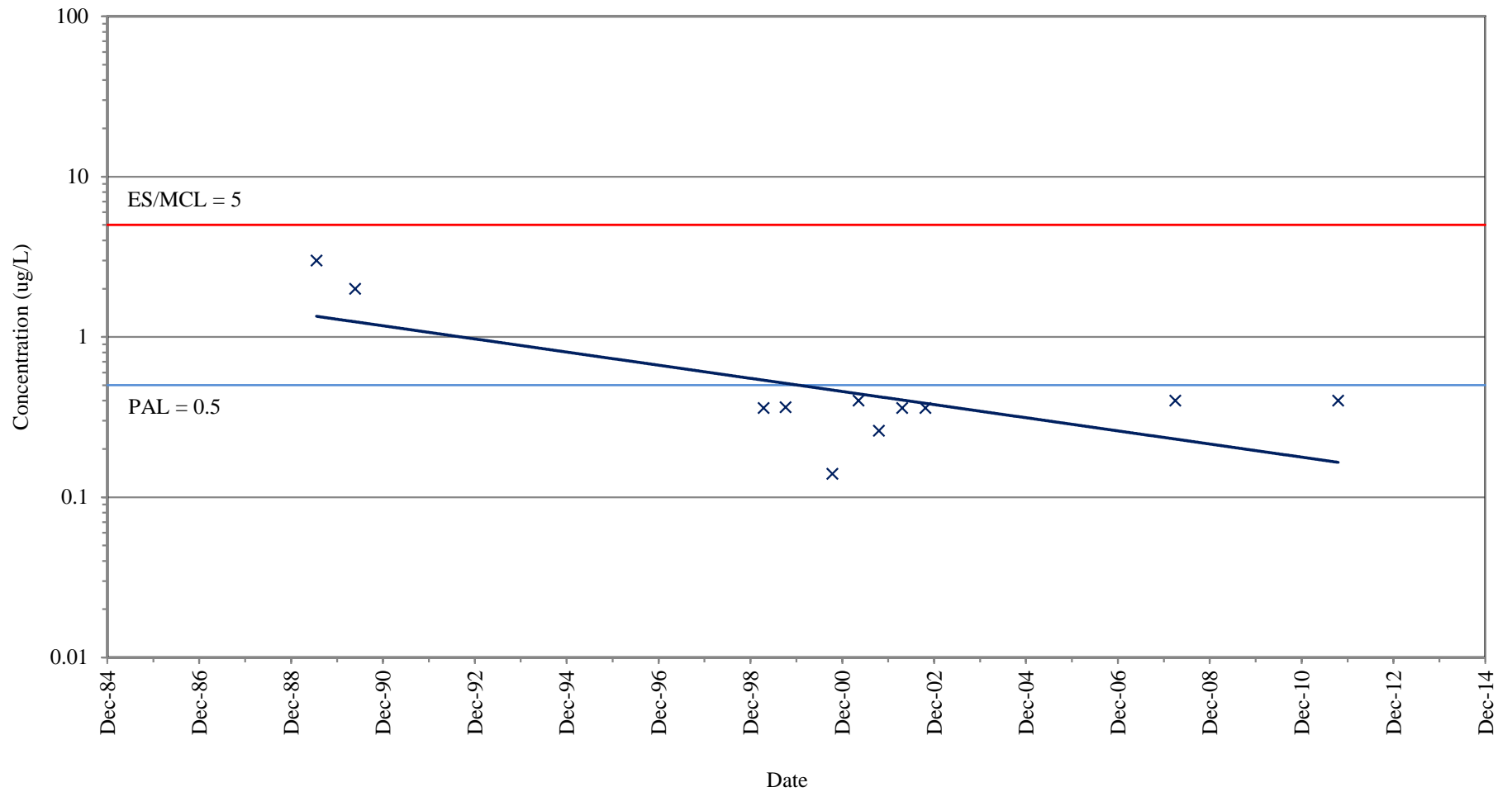
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-26B (GRID COORDINATE L5)

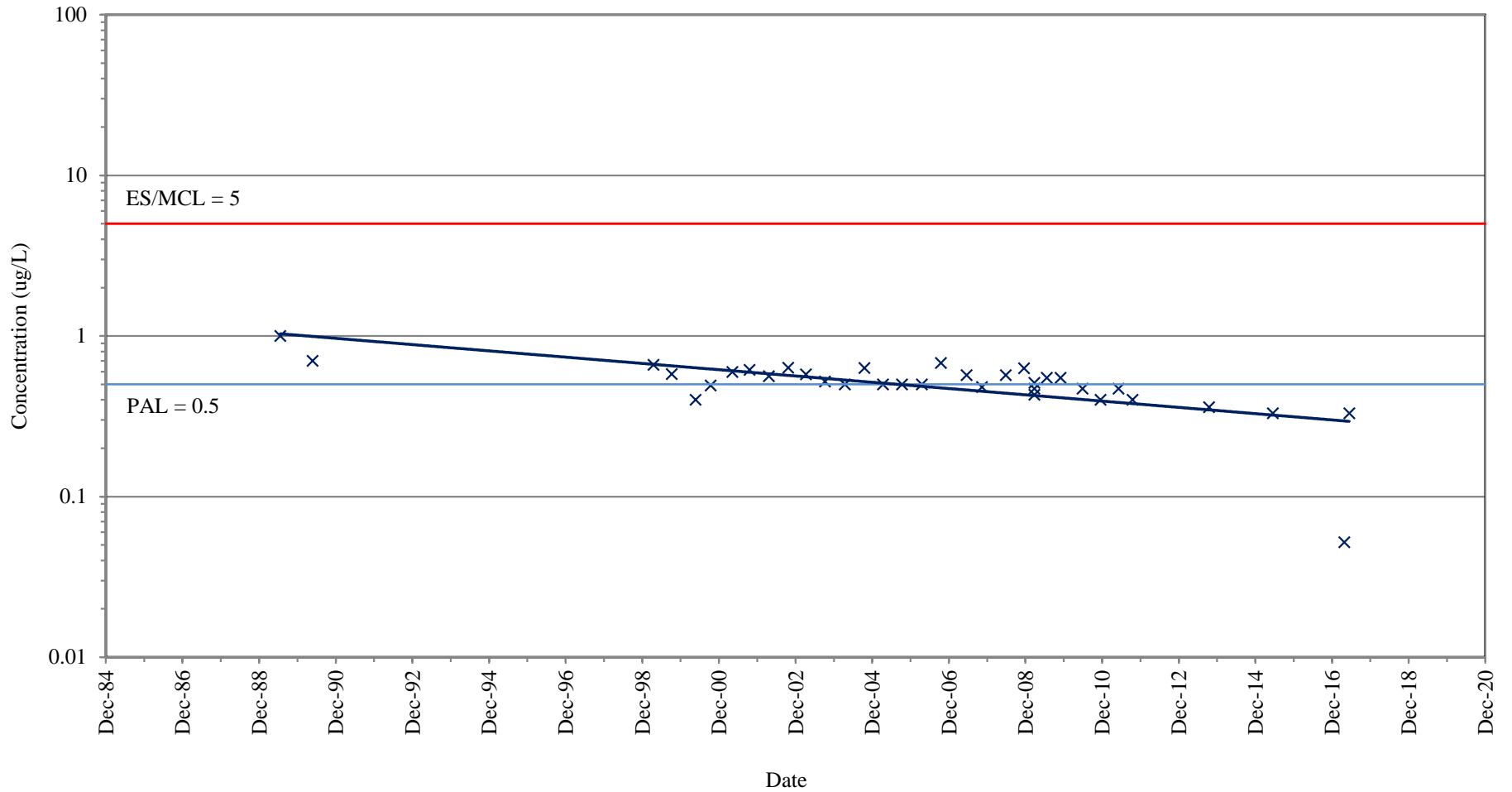
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-27B (GRID COORDINATE L5)

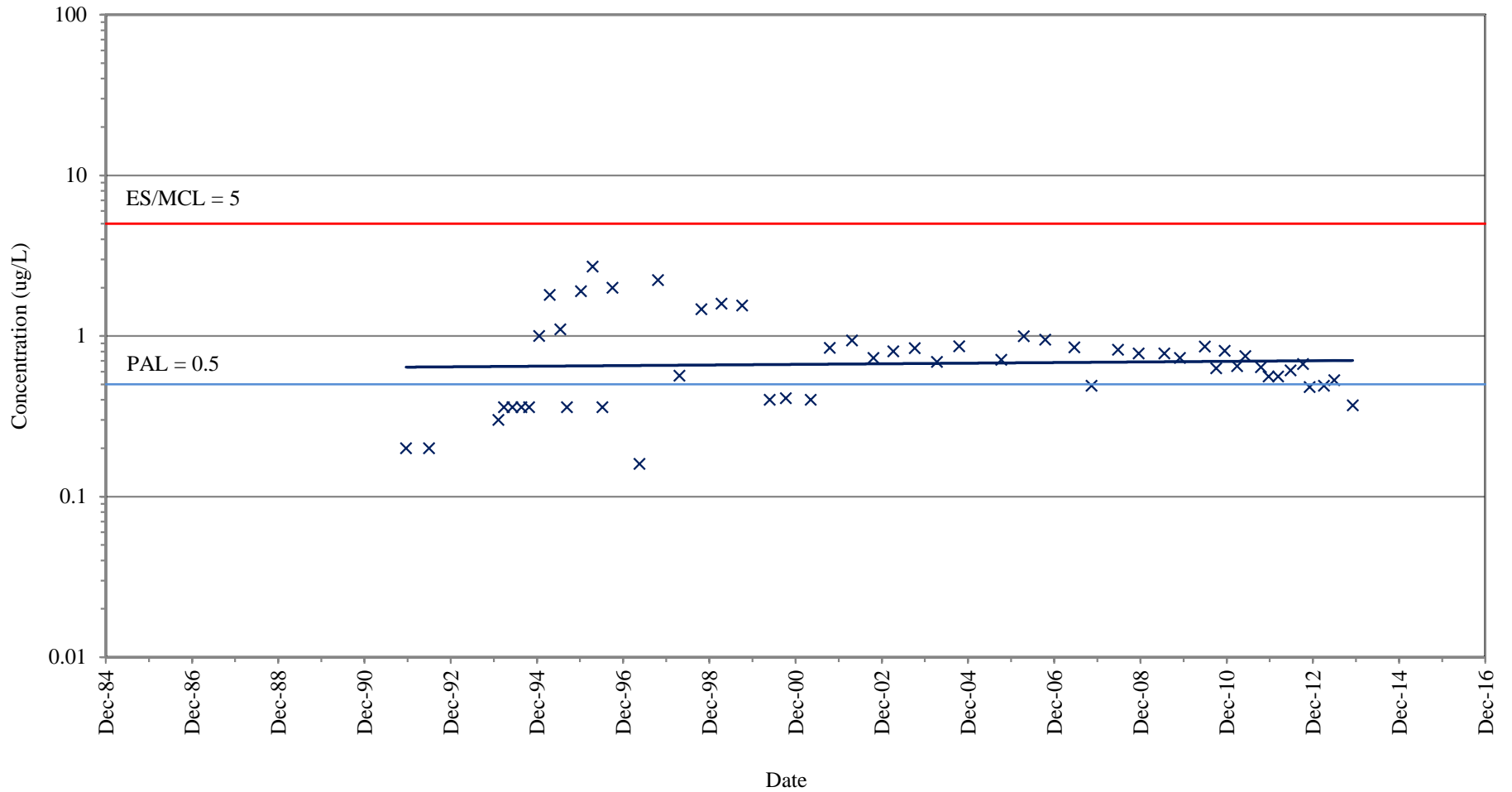
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-29B (GRID COORDINATE L3)

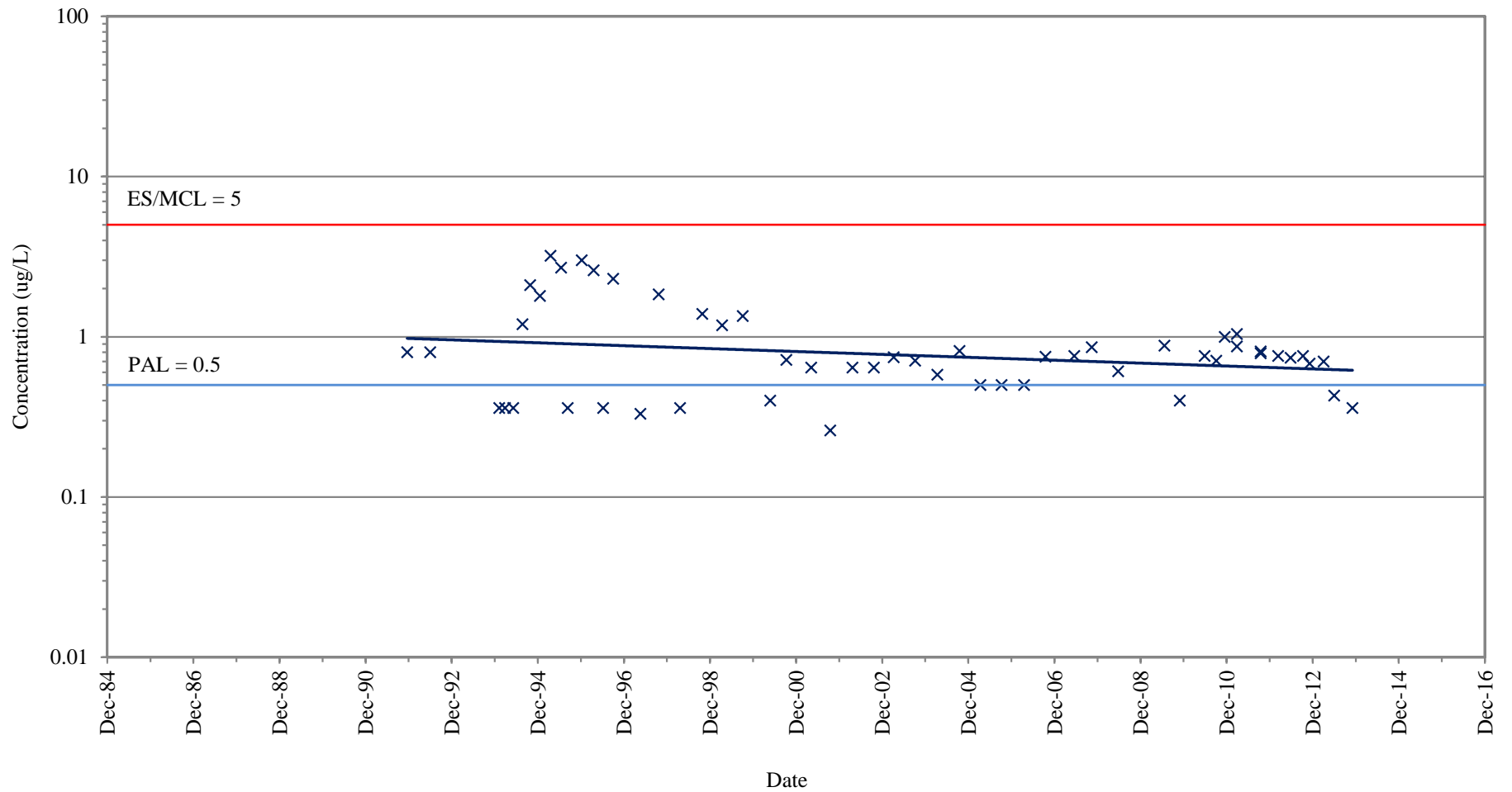
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-64B (GRID COORDINATE L6)

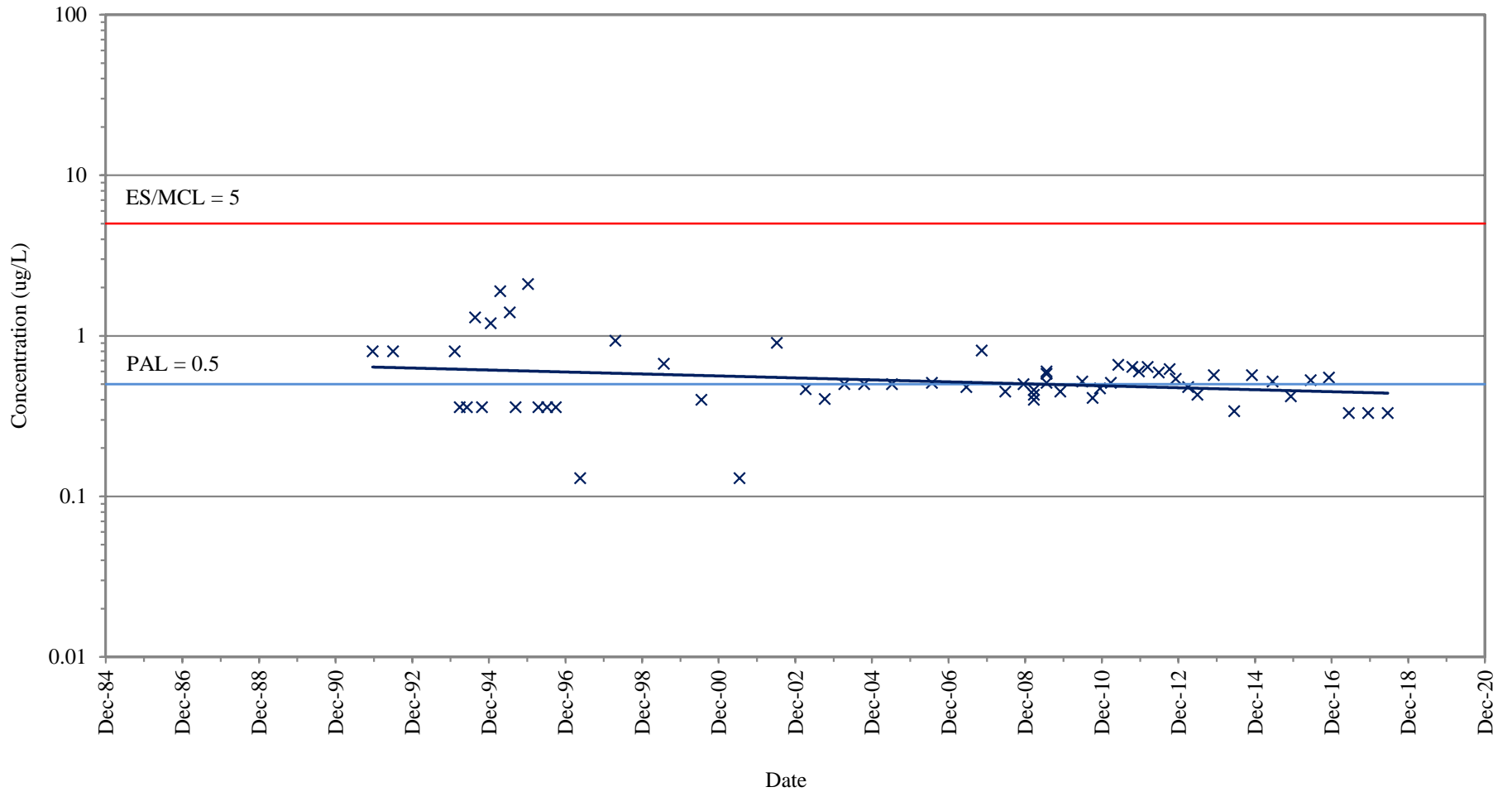
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-64C (GRID COORDINATE L6)

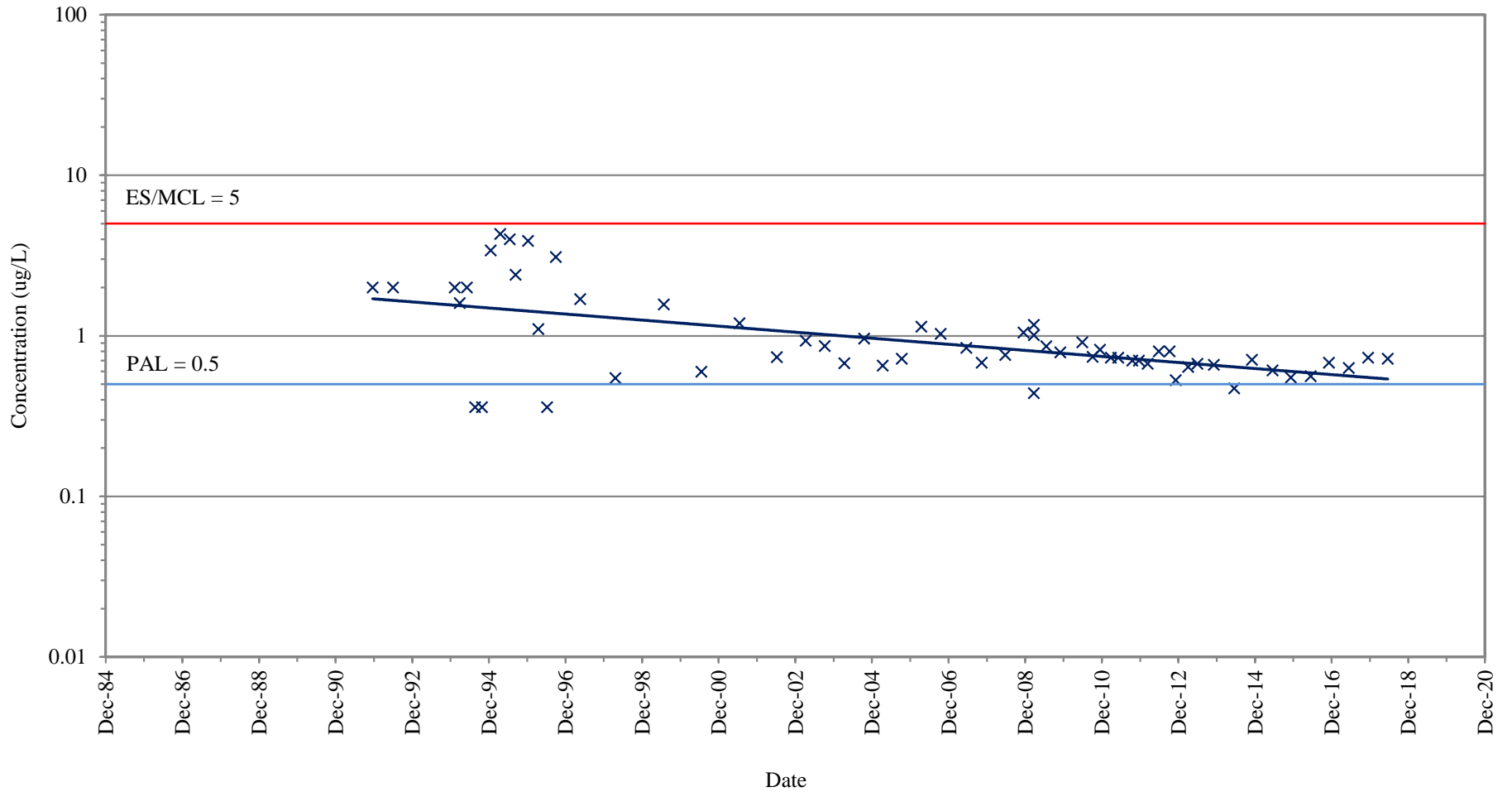
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-65B (GRID COORDINATE L6)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-65C (GRID COORDINATE L6)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN