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Prepared for

NATIONAL PRESTO INDUSTRIES, INC.

EAU CLAIRE, WISCONSIN

ANNUAL INTERIM REMEDIAL ACTION

STATUS REPORT FOR 2020

PROJECT #34283.000

MARCH 2021

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March 4, 2021  
File #34283.000

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Re: Annual Interim Remedial Action Status Report - 2020  
National Presto Industries, Inc., Eau Claire, Wisconsin  
USEPA CERCLIS ID WID006196174  
WDNR BRRTS 02-09-000267 and FID 609038320

Dear Howard and Candace:

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 2020, conclusions based on the historical groundwater monitoring data, and a list of activities to be completed in 2021.

A completed certification page for this submittal is also attached. However, except for ongoing remedial activities, this report does not include detailed summaries of past remedial action conducted at this site or the ECMWF before this reporting period. Please refer to GF's June 13, 2019, status report for such information and/or GF's August 28, 2019, remedial action report (RAR) for a discussion of the site's institutional control implementation and assurance plan (ICIAP) and long-term stewardship (LTS) plan.

## **Executive Summary**

During 2020, 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

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Contaminant Levels (MCLs) for the NPI VOCs in any monitoring well or piezometer either on site or off site.

Extraction well EW-6, installed in 2011 to help capture groundwater migrating from a newly identified VOC source area that NPI and GF 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 well MW-10A, south of the main building. As with the NPI VOC concentrations in MW-76A, 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, MW-34A, and MW-70B.

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 2016-2020.

### **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

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and gravel, which carry groundwater to the northwest towards Lake Hallie and to the west 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, Midwest Well Drilling LLC (Midwest Drilling) of Cornell, Wisconsin, filled and sealed four former Plume 3/4 piezometers (MW-5B, MW-62C, MW-63B, and MW-71A) on April 21, 2020. On August 5, 2020, GF provided a scanned Form 3300-005 for each abandoned piezometer on behalf of Midwest Drilling to both agencies via email and uploaded a pdf of the forms to the WDNR R&R portal as required. However, the four Form 3300-



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005 wet-ink originals were not submitted to the WDNR given that the agency was not accepting paper copies in August 2020 due to the Covid-19 pandemic.

### **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 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 (EDS). 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 (i.e., buried degreaser sludge) 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 and direct-contact cover system at the LDA. 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 2020, the MRDS SVE system was offline until March 20<sup>th</sup>, due to its fourth agency-approved, 6-month trial shutdown from December 4, 2019, through June 1, 2020. However, it operated with one blower running in “low-flow” mode for 96.5 hours between March 20<sup>th</sup> and 24<sup>th</sup> 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 1, 2020, low-flow operation of the SVE system resumed. On June 11<sup>th</sup>, the VFD was adjusted for normal seasonal operation. On December 2<sup>nd</sup>, the system was turned off for another 6-month seasonal shutdown period, as approved by both agencies. See GF’s August 6, 2020, *MRDS SVE System Fourth Trial Seasonal Shutdown Assessment*, August 31, 2020, *Updated Operation and Maintenance Plan for the MRDS Cap and SVE System*, 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

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temperature is above freezing (i.e., the MW-34/70 area SVE system operates seasonally). When 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 2017-2020 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 0.0035 lb/hr and 19.60 lb, respectively, for total VOCs from all three of the SVE systems combined in 2020, the compound-specific emissions of TCE and all other compounds were below their respective limits, as summarized in Tables 2A/B. GF's February 2018 *Annual Interim Remedial*

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*Action Status Report – 2017, June 2019 Annual Interim Remedial Action Status Report - 2018, and March 2020 Annual Interim Remedial Action Status Report for 2019* provide additional detail.

### **General Groundwater Monitoring Information**

Groundwater samples were collected for NPI VOC analysis at least once from a total of 50 monitoring wells/piezometers, on-site extraction well EW-6, and 4 city production wells during the four routine quarterly sampling rounds completed in 2020. 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 for tracking purposes.

Samples were also collected from seven monitoring wells/piezometers and manhole MH-18 in the SWC for analysis of dissolved Cd.

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 2020. 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 2020 were determined to be usable for assessing groundwater quality.

Water levels were measured in all sampled wells and piezometers quarterly. Water levels were measured in virtually all monitoring wells and piezometers, regardless of whether they were sampled, during the second quarter sampling 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 2020 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 2020 sampling round when virtually all project wells were measured. Site datum is mean sea level (MSL).

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Note that water levels have been relatively high since 2017. 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 ft 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 ft 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. By December 2019, the measured water level elevation in MW-10A was at its historical maximum of 831.47 ft MSL. In 2020, measured elevations in MW-10A ranged from 830.53 to 831.11 ft MSL, lower than in December 2019, but elevated relative to 2013-2015 and 2018. 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.

Menards of Eau Claire upgraded one of their hangers at the local Chippewa Valley Regional Airport in 2019. According to Nate Aubert (Menards), the excavation contractor inadvertently destroyed MW-45A/B/C (Grid Coordinate F6) in the second half of the year while grading the site for storm water control. Consequently, field staff were unable to find or sample MW-45A/B/C in June 2020, despite repeated attempts to locate them with a metal detector, shovel, and by a licensed surveyor.

In an August 3, 2020, email, NPI requested agency approval not to replace the well nest. Given the documented improvement in groundwater quality through 2020, continued sampling of water table monitoring well MW-45A and piezometers MW-45B/C is no longer necessary because:

- The former locations of MW-45A/B/C are upgradient of MW-54B.
- An extensive groundwater monitoring network (including five water table monitoring wells [MW-49A, MW-51A, MW-52A, MW-53A, and MW-54A] and eight piezometers [MW-49B, MW-51B, MW-52B, MW-53B, MW-54B/C, and MW-55B/C] at the airport alone) remains.

Following review of the historical data, the agencies agreed via email on September 18, 2020, that the MW-45A/B/C well nest does not need to be replaced.

### **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

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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 workflow, and continue to protect human health and the environment.

## **Groundwater Extraction Well Operation and Sampling**

### **MRDS Extraction Wells**

Extraction wells EW-1R and EW-2 at the MRDS remained shut down in 2020. Likewise, neither of these wells operated in 2015-2019, 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 2020, 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 the WDNR'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.

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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 2020, except it was offline March 2-7, 2020, for redevelopment and April 7-10, 2020, for electrical repair. See the March and April 2020 monthly progress reports that were submitted for the SWC groundwater pump-and-treat system 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 2020. Note that:

- All tables attached to this report containing analytical results, emission estimates, groundwater pumping volumes, etc. only include data from the last four years, except as noted below, to minimize the size of the report. Appendix A states that a CD with Excel workbooks summarizing all historical analytical data, etc. 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 approved by both agencies.

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 former 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 2020 and a copy of the text of the 2020 quarterly data validation reports, respectively, are available upon request. For reference, Table 5 also includes all historical analytical data for water table monitoring well WW-15, given that it is proposed for abandonment in 2021, as discussed in a separate section below.

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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 µg/ℓ in all four sampling rounds in 2020. 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 ≥ 5 µg/ℓ) and other select wells of interest or concern. These graphs include best-fit exponential trend lines 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

Two of the five remaining City of Eau Claire monitoring wells (EC wells) were sampled in 2020, as agreed. EC-1 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, EC-5, and EC-2 are no longer being routinely sampled by NPI because:

- EC-5 and EC-7 are outside the former 1993 TCE plume boundary.
- EC-2 is within 150 feet of EC-1 and measured TCE concentrations were higher in EC-1 than EC-2 between July 2009 and June 2019 when TCE concentrations in EC-2 were all non-detect.

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, and 19 prior to April 25<sup>th</sup> and city wells 17, 19, 22, and 23 starting on April 25<sup>th</sup>.
- On December 5, 2020, the City brought CW-24 online to replace CW-10, a municipal water supply well that the City abandoned in November 2019.

As approved by both agencies, NPI:



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- Stopped sampling CW-11, CW-16, and CW-17 in 2018 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 and had the sample sets analyzed using drinking water Method 524 by Pace's Minneapolis, Minnesota, lab. In 2019, the monitoring frequency was reduced from quarterly to semi-annual sampling.

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 2020 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. As shown in Table 6, the:

- Sample collected from CW-15 on 06/09/2020 had a TCE concentration below the laboratory's detection limit, which was 0.053 µg/l. Note that CW-15 was not sampled on 12/02/2020 because the well was not in service.
- Two samples collected from CW-23 had TCE concentrations ranging from 0.24 to 0.26J 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, NPI and GF believe that CW-19 and CW-22, when pumping, intercept >80 percent of the TCE in former 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, from 0.62 to 0.97 µg/l in 2018, from 0.34J to 0.55 µg/l in 2019, and from 0.26J to 0.30 µg/l in 2020.
- CW-22 ranged from 2.2 to 2.4 µg/l in 2017, from 2.0 to 2.7 µg/l in 2018, and from 1.7 to 2.0 µg/l in 2019 and was steady at 1.7 µg/l in 2020.

NPI and GF believe the gradual changes are attributable to CW-22 (and CW-23) starting to capture more TCE relative to CW-19 over time. This capture pattern progression is consistent with prior results, before CW-22 and CW-23 started operating, when CW-19 was at the leading edge of Plume 1/2 instead. Every one of the four samples collected from CW-19 and CW-22 in 2020 and analyzed by Pace contained detectable concentrations of TCE, ranging from 0.26J to 1.7 µg/l, but all TCE concentrations were well below the 5.0 µg/l ES/MCL.

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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 0.69 to 1.0 µg/l in 2020.

Post air stripping, TCE concentrations in the Tower A and B discharge samples collected on 12/2/2020 were above detection limits for the first time since 2015 and 2014, respectively. Both TCE concentrations were J flagged (i.e., 0.23J and 0.28J µg/l). Recall that J flagged concentrations are estimated values between the laboratory's limit of quantification and limit of detection. In addition, the results are below the TCE PAL of 0.5 µg/l. Consequently, NPI and GF believe no increase in monitoring frequency at the ECMWF is necessary in the first half of 2021. Based on verbal communication, both agencies and the City of Eau Claire agree that semi-annual sampling is adequate for now. One possible explanation for the apparent TCE increase in the Tower A and B discharge samples is that with CW-15 offline, etc., capture zone footprints at the north end of the well field and VOC tower loading dynamics temporarily changed.

None of the samples collected of the final product delivered to the public, following further conventional treatment, contained TCE at concentrations above the limit of detection, which ranged from 0.053 to 0.12 µg/l in 2020.

### **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

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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**

Table 7 summarizes Cd groundwater concentrations in wells routinely sampled in the SWC of the site, including MW-10A and MW-70B, the two wells with Cd remaining above its ES/MCL of 5.0 µg/l in 2020. Dissolved Cd in groundwater was shown to be associated with waste forge compound in Lagoon #1 soils. However, the USEPA has approved monitored natural attenuation as a remedy for Cd in groundwater at the site (see Section 2.3 of GF's August 2019 RAR). WDNR issued an email on January 18, 2019, stating that if the USEPA were to determine that no further remedial action is necessary in the Lagoon #1 and its East Extension, then the WDNR would concur. Appendix A notes that a CD with Excel workbooks summarizing all historical Cd analytical data is available upon request.

### **Melby Road Disposal Site (Former Plume 3/4)**

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 2020. Extraction wells EW-1R and EW-2 and CAS-1, previously serving the MRDS, are no longer in use because of the effectiveness of its multilayer cap and SVE system, as noted above.

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 10 existing wells/piezometers in the MRDS area and downgradient in former Plume 3/4 were sampled once in 2020. 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 2020 groundwater samples collected from any of the former Plume 3/4 wells/piezometers, and none of the analytical results 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 2020, with a TCE concentration of 0.51J µg/l. MW-65C is located off site and approximately 250 feet north-northwest of the MRDS. For reference, Table 8 also includes all historical analytical data for water table monitoring well MW-6, given that it is proposed for abandonment in 2021, as discussed in a separate section below.

Table 9 contains the 2015-2017 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 have

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not been sampled since then, 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 2020 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 the one remaining well/piezometer (MW-65C) that does have detectable TCE concentrations is stable or decreasing.

#### **East Disposal Site (Former Plume 5)**

Groundwater samples collected from monitoring wells associated with the 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.

As discussed above, EW-1R, EW-2, and EW-5 are now considered "non-active". Extraction well EW-6 operated continuously in 2020, except it was offline March 2-7, 2020, for redevelopment and April 7-10, 2020, for electrical repair.

Samples of the groundwater pumped from EW-6 were collected four times in 2020 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 2020. These samples are collected from manhole MH-18, which is within 60 feet of CAS-2R and receives its discharge.

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Because EW-1R and EW-2 were “non-active”, discharge samples were not collected from CAS-1 in 2020.

Table 10 provides the annual volumes of groundwater pumped by NPI for 2017-2020. In 2020, the total volume of treated groundwater discharged to the storm sewer was 89.69 million gallons. The volume removed from all the extraction wells since March 1994 now totals over 4.67 billion gallons.

Tables 11 and 12 list the concentrations of TCA and TCE, respectively, in the groundwater pumped from the extraction wells for 2017-2020. The tables also include 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 for the time period shown. Because extraction wells EW-1R and EW-2 were not operating in 2020, there is no need to calculate the removal efficiency for CAS-1. Table 11 shows that the TCA removal efficiency of CAS-2R in 2020 ranged from 37 to 49 percent. Table 12 shows that the TCE removal efficiency of CAS-2R in 2020 ranged from 16 to 32 percent. The lower end of this range is below the removal efficiency goal of 25 percent.

Likely reasons for the lower-than-goal removal efficiencies in June, August, and December 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 all three sample sets.

Overall results document that the performance of CAS-2R in 2020 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.

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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 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 2020 was <1.3 µg/ℓ, as shown in Table 13.

### **Monitoring Well Abandonment Request and Groundwater Sampling Schedule for 2021**

NPI requests agency approval to abandon two water table monitoring wells in 2021 – WW-15 and MW-6. Given the documented improvement in groundwater quality through 2020, continued monitoring of these two wells is no longer necessary. In addition, it will eliminate the chance of a well getting lost or damaged and serving as a conduit for contamination to reach the aquifer, etc. During the December 5, 2019, annual meeting at NPI, the agencies agreed that they would consider abandonment requests like this.

Table 14 summarizes the proposed piezometer abandonment request, as outlined above, and presents the 2021 groundwater sampling schedule for the site. Based on the long-term improvement in overall groundwater quality, proposed changes in the sampling schedule for 2021 include:

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- At the ECMWF, stop sampling CW-15 for NPI VOC analysis. Based on historical data, NPI and GF believe that CW-19, CW-22, and CW-23, when pumping, intercept >95 percent of the TCE in former Plume 1/2 that reaches the city well field. Hence, continued routine semi-annual sampling of CW-15 is no longer necessary.
- In former Plume 1/2, reduce sampling frequency for NPI VOC analysis from semi-annual to annual at MW-68B.
- In former Plume 3/4, reduce sampling frequency for NPI VOC analysis from annual to biennial at piezometers MW-62B, MW-65B, and MW-65C.

Table 14 includes notes on historical TCE concentrations in CW-15, MW-68B, MW-62B, MW-65B, and MW-65C for reference. During the December 5, 2019, annual meeting at NPI, the agencies agreed that they would also consider reduced monitoring.

### **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 being conducted 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 2020 *Updated Operation and Maintenance Plan for the MRDS Cap and SVE System* 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:

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- Decreased an order of magnitude in 2015.
- Were below the PAL of 0.5 µg/l in 2016 (Table 6 includes this data for reference).
- 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.

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 2020:

- 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 2016-2020.
- All NPI VOCs were virtually non-existent in the sampled Plume 3/4 wells, EW-1R, and EW-2. In 2020, 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-70B in 2020.

Table 15 summarizes the steps that NPI has completed to demonstrate that the site was inspected to ensure no inconsistent uses have occurred, certify that ICs remain in place and are effective, and document that any necessary contingency actions have been executed, as requested by the USEPA and per the site’s LTS plan. See GF’s August 2019 RAR for additional details.

### **Planned Work (2021)**

NPI plans the following work in 2021:



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- 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 (i.e., WW-15 and MW-6, respectively) 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 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



Chelsea J. Payne  
Project Manager

CCW/jec/Enc

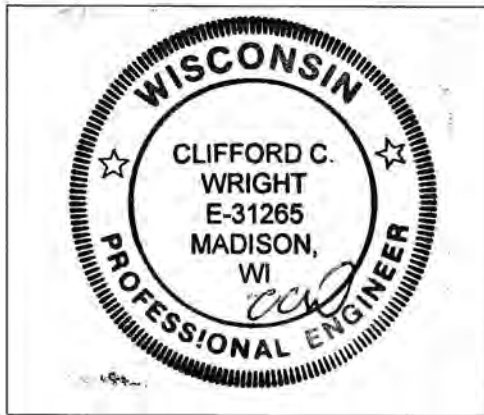
ecc: Derrick Paul (NPI)  
Lane Berg (City of Eau Claire)  
LeAnne Addy (Village of Lake Hallie)  
Chelsea Payne (Gannett Fleming)  
[GF File](#)

**ENGINEERING AND HYDROGEOLOGIST CERTIFICATIONS**

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature <i>Clifford C. Wright</i>	Date 2-24-2021

P.E. Seal for E-31265:



I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature <i>Clifford C. Wright</i>	Date 2-24-2021

**LIST OF ACRONYMS AND ABBREVIATIONS**

bgs	below ground surface
BRRTS	Bureau of Remediation and Redevelopment Tracking System (Wisconsin)
CAS	cascade aerator system
Cd	cadmium
CO	continuing obligations
DCA	1,1-dichloroethane
DCE	1,1-dichloroethylene
ECMWF	Eau Claire Municipal Well Field
EDS	East Disposal Site
ES	Enforcement Standard (WAC NR 140)
ESD	explanation of significant difference
EW	extraction well
FCOR	final closeout report
FID	Facility ID (Wisconsin)
ft	feet
GF	Gannett Fleming, Inc.
IC	institutional controls
ICIAP	institutional control implementation and assurance plan
LDA	Loading Dock Area
LTS	long-term stewardship
MCL	Maximum Contaminant Level (federal)
MRDS	Melby Road Disposal Site
MW	monitoring well
µg/l	micrograms per liter
NPI	National Presto Industries, Inc.
NPL	National Priorities List
O&M	operation and maintenance
PAL	Preventative Action Limit (WAC NR 140)
PCE	tetrachloroethylene
RAR	Remedial Action Report
ROD	Record of Decision
R&R	Remediation and Redevelopment
SVE	soil vapor extraction
SWC	Southwest Corner
TCA	1,1,1-trichloroethane
TCE	trichloroethylene
USEPA	U.S. Environmental Protection Agency
VOCs	volatile organic compounds
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WRRD	Wisconsin Remediation and Redevelopment Database

**FIGURES**

<u>No.</u>	<u>Description</u>
1	24" x 36" Water Table Groundwater Contour Map (June 2020) with 1993 Plume Locations
2	11" x 17" Site Plan Showing June 2020 Groundwater Contours
3	11" x 17" Site Plan with Three Existing SVE System Locations
4	11" x 17" Main Building SVE System and June 2020 SWC Groundwater Contour Map

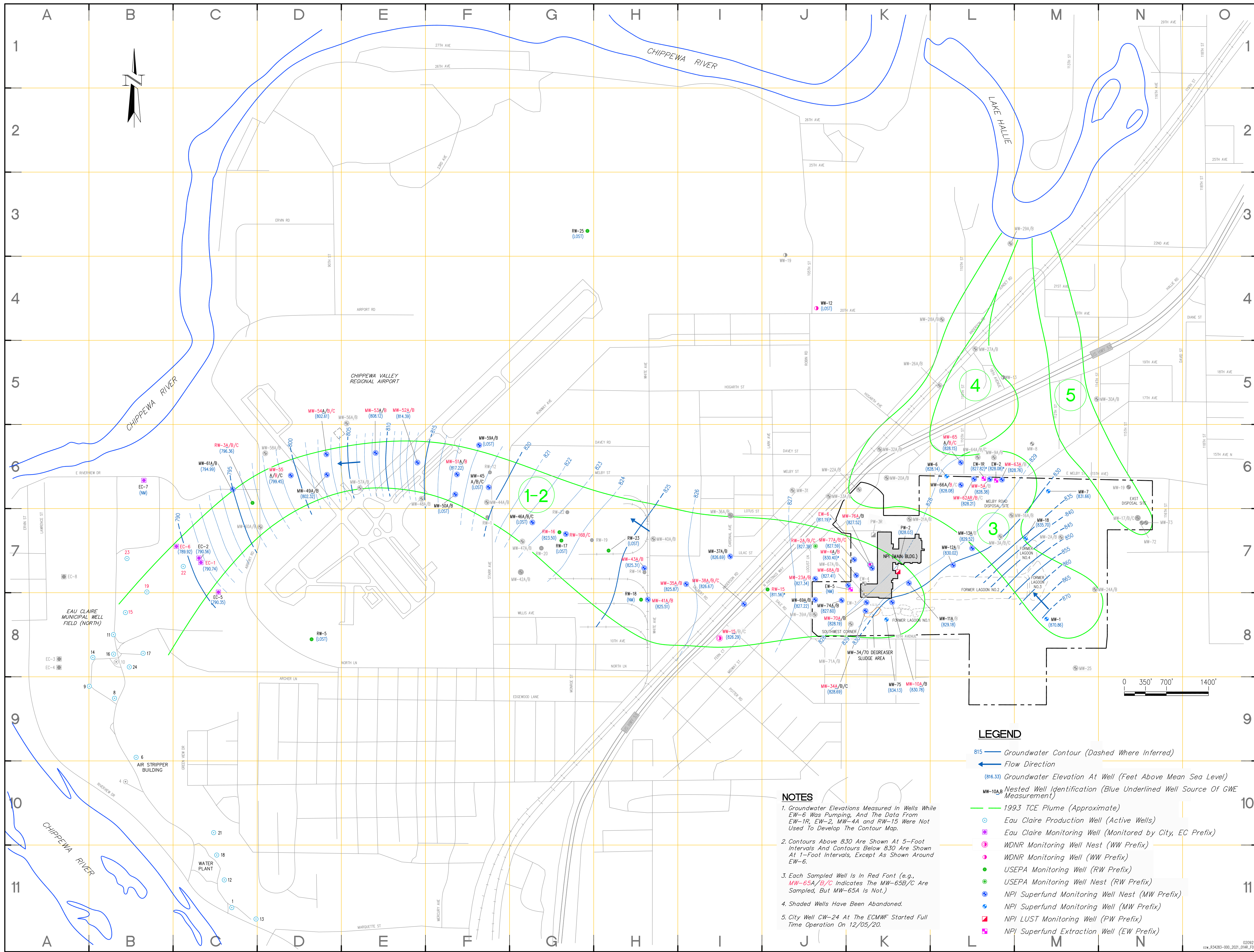
**TABLES**

<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 (2017-2020)
3	Water Level Measurements for 2020
4	NPI VOC Analytical Results from SWC Extraction Wells EW-5 and EW-6 (2017-2020)
5	NPI VOC Analytical Results from Former Plume 1/2 Monitoring Wells (2017-2020)
6	NPI VOC Analytical Results from the Eau Claire Municipal Well Field (2017-2020)
7	Dissolved Cadmium Analytical Results (2017-2020)
8	NPI VOC Analytical Results from Former Plume 3/4 Wells (2017-2020)
9	NPI VOC Analytical Results from MRDS Extraction Wells (2015-2017)
10	Annual Pumpage from NPI Groundwater Extraction Wells (2017-2020)
11	TCA Concentrations in NPI Pumped Groundwater (2017-2020)
12	TCE Concentrations in NPI Pumped Groundwater (2017-2020)
13	Summary of Results from Manhole MH-18 Sampling (2017-2020)
14	Groundwater Sampling and Well Abandonment Schedule for 2021
15	Long-term Stewardship Plan Verification/Confirmation Summary for 2020

**APPENDICES**

A	CD with Historical Data Summary Workbooks (available upon request)
B	Laboratory Reports for 2020 Groundwater Analytical Data (available upon request)
C	Text of the 2020 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)





No.	REVISIONS	DATE	BY
0	PRELIMINARY DRAFT.	11/06/20	CJP
1	FIRST DRAFT.	02/09/21	CJP

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

**Gannett Fleming**  
HARRISBURG, PENNSYLVANIA  
MADISON, WISCONSIN

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PROJECT  
2020 ANNUAL REPORT  
NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TITLE  
**WATER TABLE GROUNDWATER CONTOUR MAP (JUNE 2020) WITH 1993 PLUME LOCATIONS**

**Gannett Fleming**

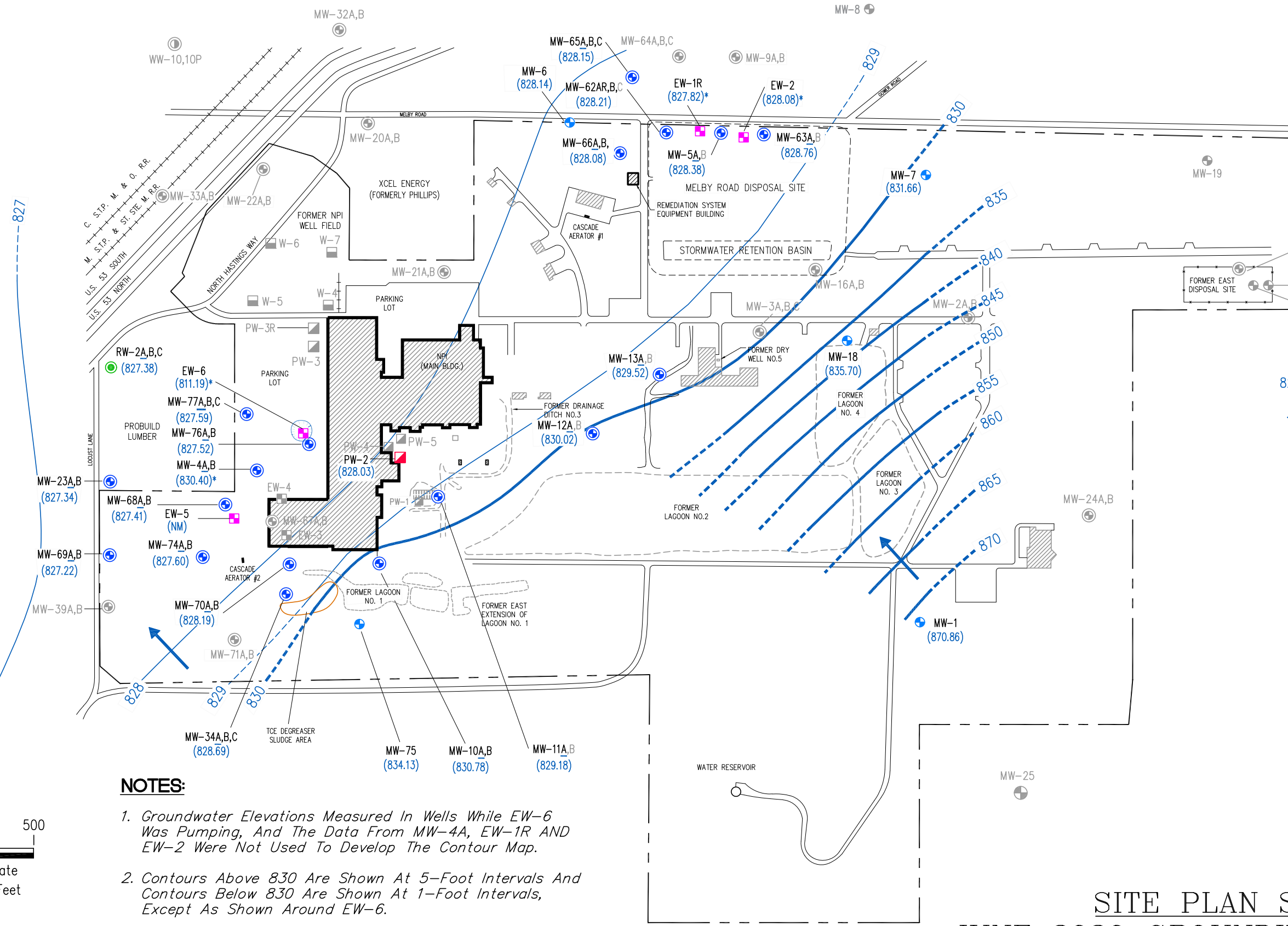
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DRAWN BY CJP	SCALE 1" = 700'
DESIGNED BY CJP	PROJECT No. 34283.000
APPROVED BY CCW	DRAWING No. <b>FIGURE 1</b>
DATE FEBRUARY 2021	

- NOTES**
- Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From EW-1R, EW-2, 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.
  - Each Sampled Well Is In Red Font (e.g., MW-65A/B/C Indicates The MW-65B/C Are Sampled, But MW-65A Is Not.)
  - Shaded Wells Have Been Abandoned.
  - City Well CW-24 At The ECMWF Started Full Time Operation On 12/05/20.

- 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)

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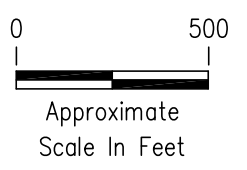




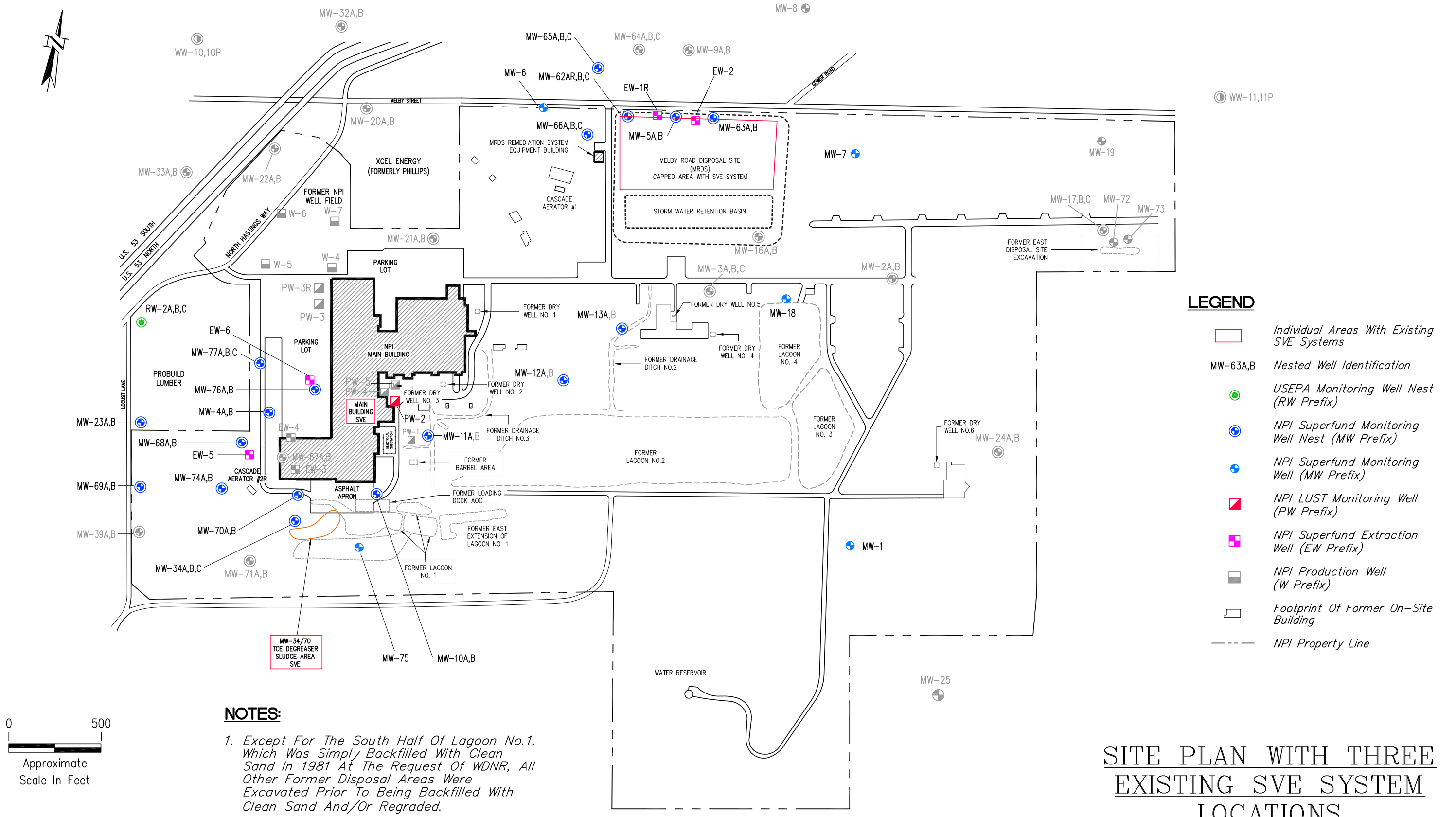
**LEGEND**

- 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, EW-1R AND EW-2 Were 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 2020 GROUNDWATER CONTOURS**  
2020 ANNUAL REPORT  
NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN



**LEGEND**

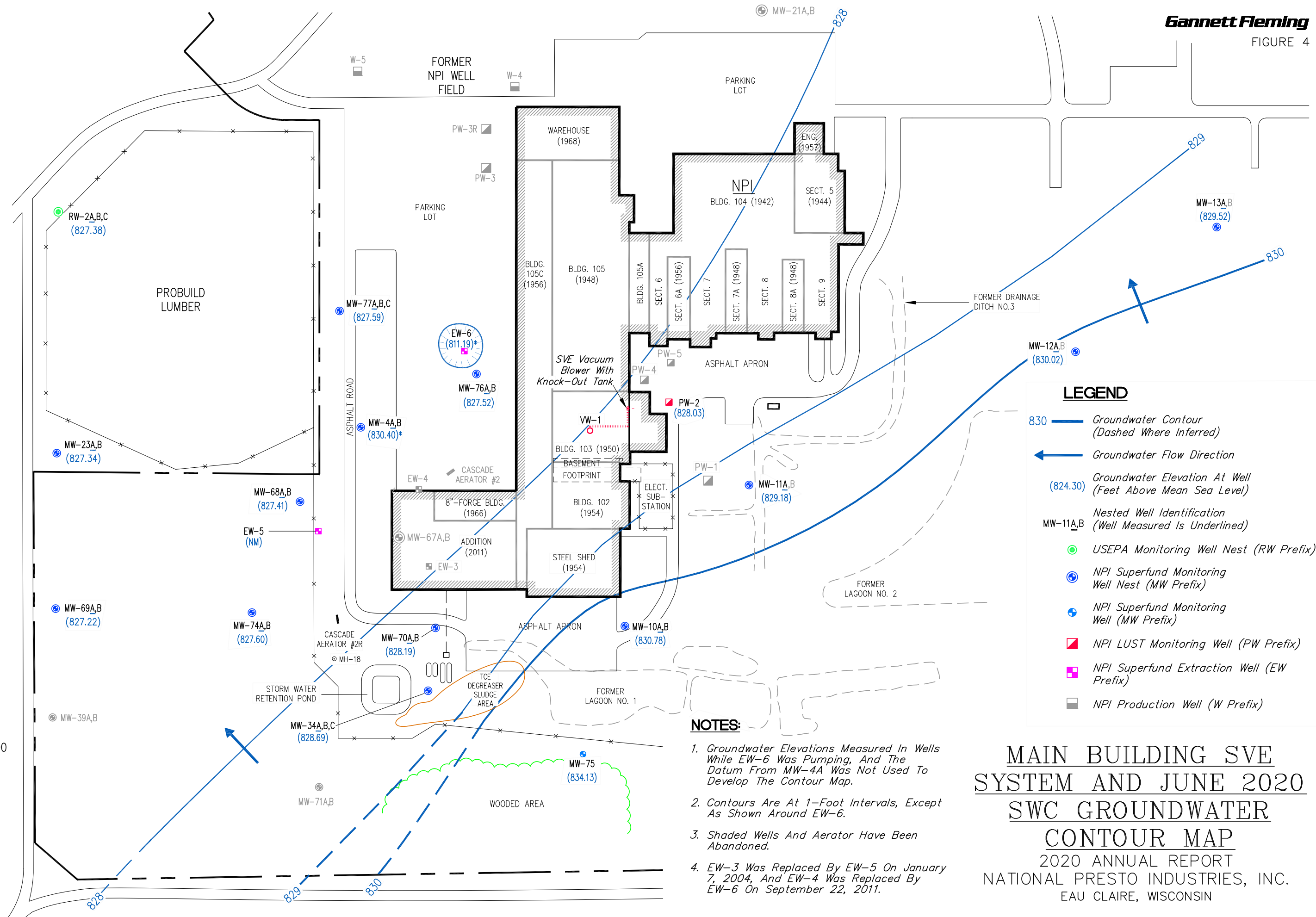
- Individual Areas With Existing SVE Systems
- MW-63A,B Nested Well Identification
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- NPI Superfund Extraction Well (EW Prefix)
- 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**

2020 ANNUAL REPORT  
NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN



**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 Datum From MW-4A Was 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 2020  
SWC GROUNDWATER  
CONTOUR MAP**  
2020 ANNUAL REPORT  
NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN



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	11/12/76	70-80	Alluvium	2	P	PVC	897.25	NA
MW-4B	1/2	K7		MR	05/24/90	95-105	Alluvium	2	P	PVC	896.65	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	04/21/20
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)	HAS	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

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-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
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	11/11/19
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

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-45A	1/2	F6	(4)	HSA	08/21/91	63-78	Alluvium	2	F	PVC	886.20	Destroyed
MW-45B	1/2	F6	(4)	MR	09/11/91	101-111	Alluvium	2	F	PVC	886.26	Destroyed
MW-45C	1/2	F6	(4)	MR	08/26/91	134-144	Alluvium	2	F	PVC	886.05	Destroyed
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
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	04/21/20
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	04/21/20
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	(5)	HSA	06/27/92	66.5-81.5	Alluvium	2	F	PVC	897.70	NA
MW-66B	3/4	L6	(5)	MR	07/01/92	111-121	Alluvium	2	F	PVC	897.26	NA
MW-66C	3/4	L6	(5)	MR	06/27/92	150-160	Alluvium	2	F	PVC	897.35	04/21/20

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-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	(6)	HSA	06/22/92	62-77	Alluvium	2	F	PVC	893.49	NA
MW-70B	1/2	K8	(6)	HSA	07/10/92	77-82	Alluvium	2	F	PVC	893.62	NA
MW-71A	1/2	K8		MR	06/17/92	57-72	Alluvium	2	P	PVC	894.70	11/11/19
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
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

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
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
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 (134).

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).

(4) MW-45A/B/C were inadvertently destroyed in the second half of 2019 by an excavation contractor while site grading.

(5) MW-66A/B/C were changed from stickup to flush-mount wells in Oct. 2017; their measuring point elevations decreased as a result.

(6) MW-70A/B were changed from stickup to flush mount wells in May 2019; their measuring point elevations decreased as a result.



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 <sup>(1,2)</sup>			Emission Threshold <sup>(3)</sup>	Time Period for Threshold	Control Requirement <sup>(4)</sup>
	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.

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TABLE 2B

SUMMARY OF AIR EMISSIONS FROM/TCE REMOVAL BY NPI SVE SYSTEMS (2017-2020)<sup>(1)</sup>

Year	Main Building SVE (operates year round) <sup>(2)</sup>					MRDS SVE <sup>(3)</sup>				MW-34/70 Area SVE (operates seasonally) <sup>(4)</sup>					Combined <sup>(5)</sup>	
	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)
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	0.0032	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	0.0031	15.81
2019	0.00187	13.5	35.6	0.0023	15.9	NC	NC	0.00030	0.70	0.0021	8.4	207.6	0.0024	9.9	0.0050	26.50
2020	0.00147	10.6	46.2	0.0016	12.5	NC	NC	0.00037	0.70	0.0013	5.5	213.1	0.0015	6.4	0.0035	19.60

**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 has operated seasonally (i.e., about six months per year) since December 2016.

(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.  
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TABLE 3

2020 WATER LEVEL MEASUREMENTS<sup>(1)</sup>

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		4/27/2020 (Q1)		6/08-11/2020 (Q2)		08/24/2020 (Q3)		12/02/2020 (Q4)	
	Q1	Q2-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 (former Plume 1/2)										
EC-1	813.95	813.95	NM	NM	23.21	790.74	NM	NM	NM	NM
EC-2	814.44	814.44	NM	NM	23.88	790.56	NM	NM	NM	NM
EC-5	813.56	813.56	NM	NM	23.21	790.35	NM	NM	NM	NM
EC-6	813.19	813.19	NM	NM	23.27	789.92	NM	NM	NM	NM
EW-5	889.90	889.90	NM	NM	NM	NM	NM	NM	NM	NM
EW-6	894.89	894.89	NM	NM	83.70	811.19	84.45	810.44	88.18	806.71
MW-4A	897.25	897.25	NM	NM	66.85	830.40	NM	NM	NM	NM
MW-4B	896.65	896.65	NM	NM	66.84	829.81	NM	NM	NM	NM
MW-10A	894.60	894.60	63.83	830.77	63.82	830.78	63.49	831.11	64.07	830.53
MW-10B	894.91	894.91	NM	NM	64.14	830.77	63.78	831.13	64.38	830.53
MW-11A	897.20	897.20	NM	NM	68.02	829.18	NM	NM	NM	NM
MW-12A	896.95	896.95	NM	NM	66.93	830.02	NM	NM	NM	NM
MW-23A	895.99	895.99	NM	NM	68.65	827.34	NM	NM	NM	NM
MW-23B	895.95	895.95	NM	NM	68.35	827.60	NM	NM	NM	NM
MW-34A	895.36	895.36	66.67	828.69	66.67	828.69	66.29	829.07	66.88	828.48
MW-34B	895.28	895.28	NM	NM	66.63	828.65	66.24	829.04	NM	NM
MW-34C	895.25	895.25	NM	NM	66.55	828.70	NM	NM	NM	NM
MW-35A	888.28	888.28	NM	NM	62.41	825.87	NM	NM	NM	NM
MW-35B	888.02	888.02	NM	NM	62.14	825.88	NM	NM	NM	NM
MW-37A	885.55	885.55	NM	NM	58.86	826.69	NM	NM	NM	NM
MW-37B	885.27	885.27	NM	NM	58.58	826.69	NM	NM	NM	NM
MW-38A	884.89	884.89	NM	NM	58.22	826.67	NM	NM	NM	NM
MW-38B	884.82	884.82	NM	NM	58.06	826.76	NM	NM	NM	NM
MW-38C	884.83	884.83	NM	NM	58.06	826.77	NM	NM	NM	NM
MW-41A	884.04	884.04	NM	NM	58.53	825.51	NM	NM	NM	NM
MW-41B	883.84	883.84	NM	NM	58.33	825.51	NM	NM	NM	NM
MW-43A	885.34	885.34	NM	NM	60.03	825.31	NM	NM	NM	NM
MW-43B	885.35	885.35	NM	NM	60.03	825.32	NM	NM	NM	NM
MW-45A	886.20	886.20	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-45B	886.26	886.26	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-45C	886.05	886.05	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MW-49A	883.04	883.04	NM	NM	80.72	802.32	NM	NM	NM	NM
MW-49B	883.02	883.02	NM	NM	80.74	802.28	NM	NM	NM	NM
MW-51A	884.02	884.02	NM	NM	66.80	817.22	NM	NM	NM	NM
MW-51B	883.99	883.99	NM	NM	66.74	817.25	NM	NM	NM	NM
MW-52A	884.13	884.13	NM	NM	69.74	814.39	NM	NM	NM	NM
MW-52B	884.12	884.12	NM	NM	69.68	814.44	NM	NM	NM	NM
MW-53A	887.93	887.93	NM	NM	79.81	808.12	NM	NM	NM	NM

TABLE 3

2020 WATER LEVEL MEASUREMENTS<sup>(1)</sup>

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		4/27/2020 (Q1)		6/08-11/2020 (Q2)		08/24/2020 (Q3)		12/02/2020 (Q4)	
	Q1	Q2-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-53B	888.25	888.25	NM	NM	79.89	808.36	NM	NM	NM	NM
MW-54A	882.42	882.42	NM	NM	79.81	802.61	NM	NM	NM	NM
MW-54B	882.43	882.43	NM	NM	79.88	802.55	NM	NM	NM	NM
MW-54C	882.54	882.54	NM	NM	79.78	802.76	NM	NM	NM	NM
MW-55A	881.75	881.75	NM	NM	82.30	799.45	NM	NM	NM	NM
MW-55B	882.08	882.08	NM	NM	82.66	799.42	NM	NM	NM	NM
MW-55C	881.91	881.91	NM	NM	82.40	799.51	NM	NM	NM	NM
MW-61A	879.37	879.37	NM	NM	84.38	794.99	NM	NM	NM	NM
MW-61B	879.58	879.58	NM	NM	NM	NM	NM	NM	NM	NM
MW-68A	896.47	896.47	NM	NM	69.06	827.41	68.70	827.77	NM	NM
MW-68B	896.77	896.77	NM	NM	69.37	827.40	69.03	827.74	68.60	828.17
MW-69A	898.02	898.02	NM	NM	70.80	827.22	NM	NM	NM	NM
MW-69B	898.23	898.23	NM	NM	70.98	827.25	NM	NM	NM	NM
MW-70A	893.49	893.49	65.30	828.19	65.30	828.19	64.96	828.53	65.48	828.01
MW-70B	893.62	893.52	NM	NM	65.35	828.17	65.02	828.50	NM	NM
MW-74A	896.08	896.08	NM	NM	68.48	827.60	NM	NM	NM	NM
MW-74B	895.88	895.88	NM	NM	68.22	827.66	NM	NM	NM	NM
MW-75	890.61	890.61	NM	NM	56.48	834.13	55.98	834.63	NM	NM
MW-76A	894.80	894.80	67.27	827.53	67.28	827.52	66.90	827.90	67.43	827.37
MW-76B	895.12	895.12	NM	NM	67.60	827.52	NM	NM	NM	NM
MW-77A	895.22	895.22	NM	NM	67.63	827.59	NM	NM	88.82	806.40
MW-77B	895.21	895.21	NM	NM	67.61	827.60	NM	NM	88.79	806.42
MW-77C	895.18	895.18	NM	NM	67.56	827.62	NM	NM	NM	NM
PW-2	894.46	894.46	NM	NM	66.43	828.03	NM	NM	NM	NM
RW-2A	897.18	897.18	NM	NM	69.80	827.38	NM	NM	NM	NM
RW-2B	896.78	896.78	NM	NM	69.36	827.42	NM	NM	NM	NM
RW-2C	897.57	897.57	NM	NM	70.20	827.37	NM	NM	NM	NM
RW-3A	881.78	881.78	NM	NM	85.42	796.36	NM	NM	NM	NM
RW-3B	881.48	881.48	NM	NM	85.07	796.41	NM	NM	86.26	795.22
RW-3C	881.30	881.30	NM	NM	84.89	796.41	NM	NM	86.07	795.23
RW-15	874.76	874.76	NM	NM	63.20	811.56	NM	NM	NM	NM
RW-16	888.87	888.87	NM	NM	65.37	823.50	NM	NM	NM	NM
RW-16B	889.66	889.66	NM	NM	66.21	823.45	NM	NM	NM	NM
RW-16C	890.01	890.01	NM	NM	66.53	823.48	NM	NM	NM	NM
WW-15	882.61	882.61	NM	NM	56.32	826.29	NM	NM	NM	NM
Melby Road Disposal Site Area to Lake Hallie (former Plumes 3/4)										
EW-1R	900.08	900.08	NM	NM	72.26	827.82	NM	NM	NM	NM
EW-2	901.46	901.46	NM	NM	73.38	828.08	NM	NM	NM	NM
MW-1	910.26	910.26	NM	NM	39.40	870.86	NM	NM	NM	NM
MW-5A	902.60	902.60	NM	NM	74.22	828.38	NM	NM	NM	NM
MW-5B	902.39	902.39	NM	NM	(3)	(3)	(3)	(3)	(3)	(3)
MW-6	904.70	904.70	NM	NM	76.56	828.14	NM	NM	NM	NM

TABLE 3

2020 WATER LEVEL MEASUREMENTS<sup>(1)</sup>

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		4/27/2020 (Q1)		6/08-11/2020 (Q2)		08/24/2020 (Q3)		12/02/2020 (Q4)	
	Q1	Q2-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-7	897.73	897.73	NM	NM	66.07	831.66	NM	NM	NM	NM
MW-13A	896.72	896.72	NM	NM	67.20	829.52	NM	NM	NM	NM
MW-18	898.38	898.38	NM	NM	62.68	835.70	NM	NM	NM	NM
MW-62AR	901.69	901.69	NM	NM	73.48	828.21	NM	NM	NM	NM
MW-62B	901.79	901.79	NM	NM	73.59	828.20	NM	NM	NM	NM
MW-62C	901.15	901.15	NM	NM	(3)	(3)	(3)	(3)	(3)	(3)
MW-63A	902.59	902.59	NM	NM	73.83	828.76	NM	NM	NM	NM
MW-63B	902.12	902.12	NM	NM	(3)	(3)	(3)	(3)	(3)	(3)
MW-65A	891.68	891.68	NM	NM	63.53	828.15	NM	NM	NM	NM
MW-65B	891.62	891.62	NM	NM	63.44	828.18	NM	NM	NM	NM
MW-65C	891.77	891.77	NM	NM	63.60	828.17	NM	NM	NM	NM
MW-66A	897.70	897.70	NM	NM	69.62	828.08	NM	NM	NM	NM
MW-66B	897.26	897.26	NM	NM	69.18	828.08	NM	NM	NM	NM
MW-66C	897.35	897.35	NM	NM	(3)	(3)	(3)	(3)	(3)	(3)

NOTES:

The flush-mount well cover at MW-70B was reset in April 2020; its measuring point elevation changed as a result.

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) A contractor inadvertently destroyed MW-45A/B/C in the second half of 2019 while site grading for storm water control.

(3) Abandoned in April 2020.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 4

NPI VOC ANALYTICAL RESULTS FROM SWC EXTRACTION WELLS EW-5 AND EW-6 (2017-2020)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration (µg/ℓ) 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) <sup>(1)</sup>												
	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) <sup>(2)</sup>												
	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
	03/25/19	G	0.27	UA	0.24	UA	0.33	UA	0.97	JA	0.825	JA
	06/12/19	G	0.27	UA	0.24	UA	0.33	UA	0.99	JA	0.71	JA
	08/19/19	G	0.27	UA	0.24	UA	0.33	UA	1.05	A	0.715	JA
	12/03/19	G	0.27	UA	0.24	UA	0.33	UA	0.99	JA	0.61	JA
	03/26/20	G	0.27	U	0.24	U	0.33	U	1.3		0.73	J
	06/08/20	G	0.27	UA	0.24	UA	0.33	UA	1.03	JA	0.75	JA
	08/24/20	G	0.27	UA	0.24	UA	0.33	UA	1.1	A	0.88	JA
	12/02/20	G	0.27	UA	0.24	UA	0.33	UA	0.81	JA	0.74	JA

TABLE 4

NPI VOC ANALYTICAL RESULTS FROM SWC EXTRACTION WELLS EW-5 AND EW-6 (2017-2020)

NOTES:

Concentrations are in micrograms per liter ( $\mu\text{g/L}$ )/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.

J = Estimated concentration below laboratory quantitation level.

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

SAMPLE METHOD/LEVEL KEY:

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

HS = HydraSleeve.

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-5 has been shut down since Sept 2015 and NPI stopped sampling the well in 2018, as approved by both agencies.

(2) EW-6 was temporarily shut down 01/16/17-04/27/17, as approved by both agencies.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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	
EC-1 (monitoring well at Grid Coordinate C7)											
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
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.1	
06/09/20	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	0.93	JA
EC-2 (monitoring well at Grid Coordinate C7 no longer scheduled for routine sampling)											
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
06/11/19	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	0.26	UA
EC-5 (monitoring well at Grid Coordinate C7 no longer scheduled for routine sampling)											
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)											
06/14/17	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
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/09/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-4A (monitoring well at Grid Coordinate K7 no longer scheduled for routine sampling)											
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
08/19/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-4B (piezometer at Grid Coordinate K7)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.29	J
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.36	J
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.48	J	0.24	U	0.33	U	0.34	J	0.33	J

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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		200/200/40		5/5/0.5	
MW-23A (monitoring well at Grid Coordinate J7)											
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
06/12/19	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	0.64	JA
06/10/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.38	J
MW-23B (piezometer at Grid Coordinate J7)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.34	J	1.9	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
MW-34A (monitoring well at Grid Coordinate K8)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
12/03/19	M	0.31	J	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.31	J	0.24	U	0.33	U	0.24	U	0.26	U
12/02/20	M	0.33	J	0.24	U	0.33	U	0.24	U	0.26	U
MW-34B (piezometer at Grid Coordinate K8 no longer scheduled for routine NPI VOC sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-34C (piezometer at Grid Coordinate K8 no longer scheduled for routine sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-35A (monitoring well at Grid Coordinate I7)											
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	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) and Results Qualifier(s)									
		I,l-DCA		I,l-DCE		PCE		I,l,l-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.37	J	0.97	J
06/09/20	M	0.27	U	0.24	U	0.33	U	0.44	J	1.1	
MW-35B (piezometer at Grid Coordinate I7)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.42	J	0.91	J
06/09/20	M	0.27	U	0.24	U	0.33	U	0.38	J	0.96	J
MW-37B (piezometer at Grid Coordinate I7 no longer scheduled for routine sampling)											
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-38A (monitoring well at Grid Coordinate I8)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.26	J	2.0	
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.9	
MW-38B (piezometer at Grid Coordinate I8)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.53	J	3.2	
06/08/20	M	0.27	UA	0.24	UA	0.33	UA	0.45	JA	2.9	A
MW-38C (piezometer at Grid Coordinate I8)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.7	
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.4	
MW-41A (monitoring well at Grid Coordinate H8)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	2.3	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.24	U	2.1	
MW-41B (piezometer at Grid Coordinate H8)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.26	J	2.3	
MW-43A (monitoring well at Grid Coordinate H7)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.30	J	1.7	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.51	J	2.2	
MW-43B (piezometer at Grid Coordinate H7)											
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	
06/11/19	M	0.27	UA	0.24	UA	0.33	UA	0.35	JA	1.35	A
06/10/20	M	0.27	U	0.24	U	0.33	U	0.44	J	1.3	



TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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		200/200/40		5/5/0.5	
MW-45A (monitoring well at Grid Coordinate F6 inadvertently destroyed by excavation contractor in the second half of 2019)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.96	J
MW-45B (piezometer at Grid Coordinate F6 inadvertently destroyed by excavation contractor in the second half of 2019)											
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
06/11/19	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	2.1	A
MW-45C (piezometer at Grid Coordinate F6 inadvertently destroyed by excavation contractor in the second half of 2019)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
MW-47A (abandoned monitoring well at Grid Coordinate G7)											
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)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-49A (monitoring well at Grid Coordinate D6)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.67	J
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.50	J
MW-49B (piezometer at Grid Coordinate D6)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-51A (monitoring well at Grid Coordinate F6)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
06/11/19	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	0.28	JUA
MW-51B (piezometer at Grid Coordinate F6)											
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	
06/11/19	M	0.27	U	0.24	U	0.34	J	0.49	J	3.6	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.38	J	3.5	
MW-52A (monitoring well at Grid Coordinate F6)											
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	
06/11/19	M	0.27	U	0.24	U	0.35	J	0.24	U	2.5	
06/11/20	M	0.27	UA	0.24	UA	0.33	UA	0.38	JA	2.85	A
MW-52B (piezometer at Grid Coordinate F6)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.46	J	3.8	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.36	J	2.7	
MW-53A (monitoring well at Grid Coordinate E6)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.7	
MW-53B (piezometer at Grid Coordinate E6)											
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	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.37	J	3.1	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.32	J	2.9	
MW-54A (monitoring well at Grid Coordinate D6)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-54B (piezometer at Grid Coordinate D6)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.38	J	3.8	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.37	J	3.2	
MW-54C (piezometer at Grid Coordinate D6)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.43	J	4.1	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.39	J	3.4	
MW-55B (piezometer at Grid Coordinate D6)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.6	
06/11/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.7	
MW-55C (piezometer at Grid Coordinate D6)											
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
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-57A (abandoned monitoring well at Grid Coordinate E6)											
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)											
06/13/17	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)											
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-60B (abandoned piezometer at Grid Coordinate D7)											
06/14/17	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)											
06/14/17	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)											
06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.435	JA
MW-68A (monitoring well at Grid Coordinate J7)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.39	J
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.33	J
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	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 (2017-2020)<sup>(1)</sup>

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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-68B (piezometer at Grid Coordinate J7)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	J
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.34	J
MW-70A (monitoring well at Grid Coordinate K8)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.88	J
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.0	J
08/19/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.71	J
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.38	J
04/27/20	M	0.36	J	0.24	U	0.33	U	0.24	U	0.58	J
06/08/20	M	0.40	J	0.24	U	0.33	U	0.24	U	0.63	J
08/24/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.59	J
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.46	J
MW-70B (piezometer at Grid Coordinate K8 no longer scheduled for routine NPI VOC sampling)											
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
08/14/18	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
08/19/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-74A (monitoring well at Grid Coordinate J8 no longer scheduled for routine sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-74B (piezometer at Grid Coordinate J8 no longer scheduled for routine sampling)											
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)											
03/21/16	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

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) and Results Qualifier(s)									
		I,1-DCA		I,1-DCE		PCE		I,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.28	J
06/10/19	M	0.27	U	0.24	U	0.33	U	0.34	J	0.34	J
08/19/19	M	0.27	U	0.24	U	0.33	U	0.40	J	0.26	U
12/03/19	M	0.27	UA	0.24	UA	0.33	UA	0.27	JUA	0.26	UA
04/27/20	M	0.27	UA	0.24	UA	0.40	JA	0.33	JA	0.29	JA
06/08/20	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	0.26	UA
08/24/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
12/02/20	M	0.27	UA	0.24	UA	0.33	UA	0.93	JA	0.26	UA
MW-76B (piezometer at Grid Coordinate K7 no longer scheduled for routine sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-77A (monitoring well at Grid Coordinate K7)											
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
03/25/19	M	0.27	U	0.24	U	0.33	U	0.25	J	1.2	
06/10/19	M	0.27	U	0.24	U	0.33	U	0.33	J	1.4	
08/19/19	M	0.27	U	0.24	U	0.33	U	0.25	J	1.0	
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-77B (piezometer at Grid Coordinate K7)											
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	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) and Results Qualifier(s)									
		I,1-DCA		I,1-DCE		PCE		I,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
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	
03/25/19	M	0.27	U	0.24	U	0.33	U	0.27	J	1.9	
06/10/19	M	0.27	U	0.24	U	0.33	U	0.28	J	2.0	
08/19/19	M	0.27	U	0.24	U	0.33	U	0.26	J	1.8	
12/03/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.6	
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.6	
MW-77C (piezometer at Grid Coordinate K7)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.73	J
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.57	J
PW-3R (abandoned monitoring well at Grid Coordinate K7)											
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)											
06/13/17	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
06/12/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.1	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.98	J
RW-2B (piezometer at Grid Coordinate J7)											
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
06/12/19	M	0.27	UA	0.24	UA	0.33	UA	0.41	JA	2.05	A
06/10/20	M	0.27	U	0.24	U	0.33	U	0.30	J	2.0	
RW-2C (piezometer at Grid Coordinate J7)											
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	
06/12/19	M	0.27	U	0.24	U	0.33	U	0.28	J	1.6	
06/10/20	M	0.27	U	0.24	U	0.33	U	0.24	U	1.7	
RW-3A (monitoring well at Grid Coordinate C6)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.8	
12/04/19	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	1.6	A
06/09/20	M	0.27	UA	0.24	UA	0.33	UA	0.24	UA	1.85	A
RW-3B (piezometer at Grid Coordinate C6)											
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

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) and Results Qualifier(s)									
		I,1-DCA		I,1-DCE		PCE		I,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
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
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	2.8	
12/04/19	M	0.27	U	0.24	U	0.33	U	0.36	J	2.2	
06/09/20	M	0.27	U	0.24	U	0.33	U	0.32	J	3.1	
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	2.5	
RW-3C (piezometer at Grid Coordinate C6)											
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
06/11/19	M	0.27	U	0.24	U	0.33	U	0.28	J	3.2	
12/04/19	M	0.27	U	0.24	U	0.33	U	0.38	J	3.3	
06/09/20	M	0.27	U	0.24	U	0.33	U	0.37	J	3.6	
12/02/20	M	0.27	U	0.24	U	0.33	U	0.24	U	3.2	
RW-15 (monitoring well at Grid Coordinate J7)											
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
06/12/19	M	0.27	U	0.24	U	0.33	U	0.38	J	3.2	
06/08/20	M	0.27	U	0.24	U	0.33	U	0.31	J	3.1	
RW-16 (monitoring well at Grid Coordinate G7)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	1.9	
06/09/20	M	0.27	U	0.24	U	0.33	U	0.24	U	2.2	
RW-16B (piezometer at Grid Coordinate G7)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.28	J	2.6	
06/09/20	M	0.27	U	0.24	U	0.33	U	0.29	J	2.9	
RW-16C (piezometer at Grid Coordinate G7)											
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	
06/11/19	M	0.27	U	0.24	U	0.33	U	0.24	U	2.4	
06/09/20	M	0.27	U	0.24	U	0.33	U	0.24	U	3.1	
WW-15 (monitoring well at Grid Coordinate I8 proposed for abandonment)											
9/89	NR	0.2	U	0.2	U	0.2	U	0.4		3	
5/90	NR	0.2	U	0.2	U	0.2	U	0.6		3	
4/91	NR	0.3		0.3	U	0.3	U	0.9		3	U
4/08	NR	0.2	U	0.4	U	0.3	U	0.21	J	1.08	J
10/18/11	M	0.4	U	0.4	U	0.3	U	0.5	U	1.21	J
10/10/12	M	0.75	U	0.57	U	0.45	U	0.90	U	0.84	J
07/02/13	M	0.28	U	0.43	U	0.47	U	0.44	U	0.43	U
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.00	
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.89	J

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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		200/200/40		5/5/0.5	
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
06/12/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.65	J
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.46	J

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 1/2 MONITORING WELLS (2017-2020)<sup>(1)</sup>

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.

FOOTNOTE:

(1) Monitoring well WW-15 includes all historical analytical data given that is proposed for abandonment.



NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2017-2020)

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)								
03/22/17	(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)								
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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.053 U
12/02/20	Not in service							
City Well 16 (CW-16 no longer scheduled for routine sampling)								
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 17 (CW-17 no longer scheduled for routine sampling)								
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)								
03/22/17	(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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.34 J
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.55
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.30
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.26 J
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

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2017-2020)

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	
12/11/18	(10)	0.16 U	(10)	0.41 J	(10)	0.59 J	(10)	2.7
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	1.7
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	2.0
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.17 J	(10)	1.7
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	1.7
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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.24
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.26 J
Commingled untreated raw water prior to air stripping <sup>(1)</sup>								
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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.80
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.97
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.69
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	1.0
Tower A (North) - discharge from air stripper <sup>(2)</sup>								
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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.053 U
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.23 J
Tower B (South) - discharge from air stripper <sup>(3)</sup>								
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

TABLE 6

## NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2017-2020)

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	
12/11/18	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.053 U
12/02/20	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.28 J
Commingled treated water after chlorination (finished product) <sup>(4)</sup>								
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
06/11/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
12/04/19	(10)	0.16 U	(10)	0.17 U	(10)	0.19 U	(10)	0.12 U
06/09/20	(10)	0.079 U	(10)	0.064 U	(10)	0.091 U	(10)	0.053 U
12/02/20	(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 (2017-2020)

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) Sampled collected from spigot on Tower A discharge line.

(3) Sampled 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 05/07/14.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 7

SUMMARY OF RESULTS FROM WELLS ROUTINELY SAMPLED FOR DISSOLVED CADMIUM ANALYSIS (2017-2020)

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
3/20/17	HS	NS	NS	NS	NS	18.5	1.4 J	NS	NS	NS	NS	3.9 J	NS	4.0 J	1.9 J
6/13/17	(3)	1.3 U	1.3 U	1.3 U	1.3 U	17.4	3.6 J	4.4 J	1.4 J	1.3 U	1.3 U	3.9 J	1.3 U	4.5 J	2.0 J
8/28/17	HS	NS	NS	NS	NS	20.1	1.3 U	NS	NS	NS	NS	4.0 J	NS	4.0 J	2.1 J
12/12/17	(3)	1.3 U	1.3 U	NS	NS	18.8	1.3 U	1.3 U	1.4 J	NS	NS	2.5 J	NS	2.4 J	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	1.8 J	1.3 U	1.3 U	3.2 J	1.3 U	3.4 J	2.4 J
12/10/18	HS	NS	NS	NS	NS	16.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/25/19	HS	NS	NS	NS	NS	14.4	NS	5.5	NS	NS	NS	NS	NS	NS	NS
6/10/19	HS	NS	NS	NS	NS	15.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/19/19	HS	NS	NS	NS	NS	21.3	1.3 U	2.1 J	2.1 J	NS	NS	3.1 J	NS	5.0 J	2.1 J
12/3/19	HS	NS	NS	NS	NS	20.4	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/27/20	HS	NS	NS	NS	NS	18.6	NS	1.3 U	NS	NS	NS	NS	NS	NS	NS
6/8/20	HS	NS	NS	NS	NS	18.7	NS	NS	NS	NS	NS	NS	NS	NS	NS
8/24/20	HS	NS	NS	NS	NS	23.4	1.3 U	3.9 J	2.1 J	NS	NS	3.5 J	NS	5.8	1.8 J
12/2/20	HS	NS	NS	NS	NS	21.4	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 7

SUMMARY OF RESULTS FROM WELLS ROUTINELY SAMPLED FOR DISSOLVED CADMIUM ANALYSIS (2017-2020)

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.

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.

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; 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/piezometer using a HydraSleeve (HS), except EW-6 was a grab sample from pumped groundwater.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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-5A (monitoring well at Grid Coordinate L6)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-5B (abandoned piezometer at Grid Coordinate L6)											
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 proposed for abandonment)											
1/88	NR	0.24	U	0.3		0.15	U	14		0.15	U
10/88	NR	1.5		1.2		0.36	ND	24		0.36	ND
5/90	NR	0.9		0.8		0.1	J	19		0.2	U
4/91	NR	0.2	U	0.3		0.3	U	12	J,B	0.6	U
02/08/94	NR	0.8		0.36	ND	0.3		23		0.36	ND
03/28/94	NR	0.36	ND	0.36	ND	0.36	ND	7.4		0.36	ND
06/06/94	NR	0.36	ND	0.36	ND	0.36	ND	8.2		0.36	ND
08/23/94	NR	0.36	ND	0.36	ND	0.36	ND	12		0.36	ND
10/27/94	NR	0.36	ND	0.36	ND	0.36	ND	11		0.36	ND
01/19/95	NR	0.36	ND	0.36	ND	0.36	ND	13		0.36	ND
04/19/95	NR	0.36	ND	0.36	ND	0.36	ND	13		0.36	ND
07/18/95	NR	0.36	ND	0.36	ND	0.36	ND	8.4		0.36	ND
09/12/95	NR	0.36	ND	0.36	ND	0.36	ND	14		0.36	ND
01/08/96	NR	0.36	ND	0.36	ND	0.36	ND	9.6		0.36	ND
04/17/96	NR	0.36	ND	0.36	ND	0.18		5.6		0.36	ND
07/08/96	NR	0.36	ND	0.36	ND	0.36	ND	4.8		0.36	ND
10/01/96	NR	0.36	ND	0.36	ND	0.36	ND	9.9		0.36	ND
03/17/97	NR	0.284	J	0.658	J	0.22	U	21.1		0.12	U
05/19/97	NR	0.08	U	0.2	J	0.22	U	8.87		0.12	U
07/21/97	NR	0.08	U	0.18	U	0.44	U	5.19		0.12	U
10/22/97	NR	0.4	U	0.5	U	0.6	U	2.87		0.4	U
01/27/98	NR	0.2	U	0.2	U	0.2	U	3.24		0.36	U
04/20/98	NR	0.2	U	0.2	U	0.2	U	4.05		0.36	U
07/21/98	NR	0.2	U	0.2	U	0.2	U	3		0.36	U
10/27/98	NR	0.2	U	0.2	U	0.2	U	3.31		0.36	U
01/19/99	NR	0.2	U	0.2	U	0.2	U	2.67		0.36	U
04/13/99	NR	0.2	U	0.2	U	0.2	U	2.06		0.36	U
07/26/99	NR	0.1	U	0.15	U	0.15	U	1.64		0.4	U
10/05/99	NR	0.15	U	0.15	U	0.15	U	1.51		0.133	J
02/01/00	NR	0.15	U	0.15	U	0.15	U	1.26		0.4	U
06/06/00	NR	0.15	U	0.15	U,CSH	0.15	U	0.81		0.4	U
07/17/00	NR	0.15	U	0.15	U	0.15	U	0.584		0.4	U
10/10/00	NR	0.15	U,SPH	0.15	U	0.15	U	0.611		0.4	U
01/23/01	NR	0.15	U,SPH	0.15	U	0.15	U	0.261	J,SPH	0.4	U

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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	
05/08/01	NR	0.15	U	0.15	U	0.15	U	0.41	J	0.4	U,CSL
07/17/01	NR	0.38	U	0.38	U	0.26	U	0.435	J	0.26	U
10/16/01	NR	0.38	U	0.38	U	0.26	U	0.2	U	0.26	U
01/08/02	NR	0.38	U	0.38	U	0.26	U	0.2	U	0.26	U
04/22/02	NR	0.36	U	0.39	U	0.32	U	0.42	U	0.36	U
07/08/02	NR	0.36	U	0.39	U	0.32	U	0.42	U	0.36	U
10/21/02	NR	0.36	U	0.39	U	0.32	U	0.42	U	0.36	U
01/06/03	NR	0.36	U	0.39	U	0.32	U	0.42	U	0.36	U
04/13/05	NR	0.5	U	0.5	U	0.45	U	0.42	U	0.5	U
06/19/07	NR	0.2	U	0.4	U	0.3	U	0.2	U	0.2	U
10/04/10	M	0.4	U	0.4	U	0.3	U,CSH	0.5	U	0.4	U
12/15/10	M	0.4	U	0.4	U	0.3	U	0.5	U	0.4	U
06/06/11	M	0.4	U	0.4	U	0.3	U	0.5	U	0.4	U
10/17/11	M	0.4	U	0.4	U	0.3	U	0.5	U	0.4	U
12/21/11	M	0.4	U	0.4	U	0.3	U	0.5	U	0.4	U
03/12/12	M	0.40	U	0.40	U	0.30	U	0.50	U	0.40	U
06/26/12	M	0.75	U	0.57	U	0.45	U	0.90	U	0.48	U
10/09/12	M	0.75	U	0.57	U	0.45	U	0.90	U	0.48	U
12/04/12	M	0.75	U	0.57	U	0.45	U	0.90	U	0.48	U
04/03/13	M	0.75	U	0.57	U	0.45	U	0.90	U	0.48	U
07/01/13	M	0.28	U	0.43	U	0.47	U	0.44	U	0.43	U
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)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-22B (abandoned piezometer at Grid Coordinate K6)											
06/12/17	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)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-26B (abandoned piezometer at Grid Coordinate L5)											
06/13/17	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)											
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
MW-62AR (monitoring well at Grid Coordinate L6)											
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
06/10/19	M	0.27	UA	0.24	UA	0.33	UA	0.26	JUA	0.26	UA
06/08/20	M	0.27	U	0.24	U	0.33	U	0.29	J	0.26	U
MW-62B (piezometer at Grid Coordinate L6)											
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



TABLE 8

NPI VOC ANALYTICAL RESULTS FROM FORMER PLUME 3/4 MONITORING WELLS (2017-2020)<sup>(1)</sup>

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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		200/200/40		5/5/0.5	
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-62C (abandoned piezometer at Grid Coordinate L6)											
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 no longer scheduled for routine sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-63B (abandoned piezometer at Grid Coordinate M6)											
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)											
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65B (piezometer at Grid Coordinate L6)											
06/13/17	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
06/12/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-65C (piezometer at Grid Coordinate L6)											
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
06/12/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.65	J
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.51	J
MW-66A (monitoring well at Grid Coordinate L6 no longer scheduled for routine sampling)											
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 no longer scheduled for routine sampling)											
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
06/10/19	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
06/08/20	M	0.27	U	0.24	U	0.33	U	0.24	U	0.26	U
MW-66C (abandoned piezometer at Grid Coordinate L6)											
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 (2017-2020)<sup>(1)</sup>

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.

FOOTNOTE:

(1) Monitoring well MW-6 includes all historical analytical data given that it is proposed for abandonment.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 9

NPI VOC ANALYTICAL RESULTS FROM MRDS EXTRACTION WELLS (2015-2017)

Well ID Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration (µg/l) 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		200/200/40		5/5/0.5	
EW-1/1R (extraction well at Grid Coordinate L6) <sup>(1,2)</sup>											
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) <sup>(1)</sup>											
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 (2015-2017)

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 (MG) FROM NPI GROUNDWATER EXTRACTION WELLS (2017-2020)

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	
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
2019	NO	NO	NO	abnd	abnd	NO	91.46	91.46	91.46
2020	NO	NO	NO	abnd	abnd	NO	89.69	89.69	89.69
<b>TOTALS<sup>(1)</sup></b>	822.90	713.09	1,535.99	251.59	1,097.19	935.49	851.89	3,136.16	4,672.15

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, 2004, and stopped operating on September 12, 2015.

EW-6 began operating in late October 2011.

abnd = Abandoned and not operating.

NO = Not operated in year shown.

FOOTNOTE:

(1) TOTALS = Pumpage volumes since March 1994, when full-scale pumping operations first began at NPI.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 11

TCA IN NPI PUMPED GROUNDWATER & ESTIMATED PERCENT REMOVAL BY CASCADE AERATION (2017-2020)

Sample Date/ Month-Yr	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
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
03/25/19		NO	NO	NO	na	abnd	abnd	NO	0.97	JA	NS	42	0.56	J
06/12/19		NO	NO	NO	na	abnd	abnd	NO	0.99	JA	NS	27	0.72	J
08/19/19		NO	NO	NO	na	abnd	abnd	NO	1.05	A	NS	45	0.58	J
12/03/19		NO	NO	NO	na	abnd	abnd	NO	0.99	JA	NS	51	0.48	J
03/26/20		NO	NO	NO	na	abnd	abnd	NO	1.3		NS	49	0.66	J
06/08/20		NO	NO	NO	na	abnd	abnd	NO	1.03	JA	NS	40	0.62	J
08/24/20		NO	NO	NO	na	abnd	abnd	NO	1.1	A	NS	37	0.69	J
12/02/20		NO	NO	NO	na	abnd	abnd	NO	0.81	JA	NS	48	0.42	J

NOTES:

Concentrations are in micrograms per liter (µg/ℓ) and sampling frequency was reduced from monthly to quarterly after November 1998.

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

abnd = Abandoned and not operating.

FN = Footnotes (see below, if any).

J = Estimated concentration below laboratory quantitation level.

na = Not applicable.

NO = Not operating.

NS = Not sampled.

RQ = Results qualifier.

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

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 12

TCE IN NPI PUMPED GROUNDWATER & ESTIMATED PERCENT REMOVAL BY CASCADE AERATION (2017-2020)

Sample Date/ Month-Yr	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
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
03/25/19		NO	NO	NO	na	abnd	abnd	NO	0.83	JA	NS	41	0.49	J
06/12/19		NO	NO	NO	na	abnd	abnd	NO	0.71	JA	NS	15	0.60	J
08/19/19		NO	NO	NO	na	abnd	abnd	NO	0.72	JA	NS	34	0.47	J
12/03/19		NO	NO	NO	na	abnd	abnd	NO	0.61	JA	NS	4.9	0.58	J
03/26/20		NO	NO	NO	na	abnd	abnd	NO	0.73	J	NS	32	0.50	J
06/08/20		NO	NO	NO	na	abnd	abnd	NO	0.75	JA	NS	23	0.57	J
08/24/20		NO	NO	NO	na	abnd	abnd	NO	0.88	JA	NS	24	0.67	J
12/02/20		NO	NO	NO	na	abnd	abnd	NO	0.74	JA	NS	16	0.62	J

NOTES:

Concentrations are in micrograms per liter (µg/ℓ) and sampling frequency was reduced from monthly to quarterly after November 1998.

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

abnd = Abandoned and not operating.

FN = Footnotes (see below, if any).

J = Estimated concentration below laboratory quantitation level.

na = Not applicable.

NO = Not operating.

NS = Not sampled.

RQ = Results qualifier.

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

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2017-2020)

Method (units) Analyte/Parameter	2017 Sample Dates <sup>(1)</sup>			2018 Sample Dates			
	6/13/17	8/29/17	12/12/17	3/27/18	6/19/18	8/14/18 <sup>(2)</sup>	12/10/18
<b>EPA 150.1 (standard units)</b>							
Field pH	NA	NA	7.5	7.2	7.3	7.1	7.4
<b>EPA 6010 (mg/L)</b>							
Hardness as CaCO <sub>3</sub>	NA	NA	51.9	NA	NA	52.5	NA
<b>EPA 6010/6020 (µg/L)</b>							
Total Arsenic	NA	NA	NA	NA	NA	<0.28	NA
Total Cadmium	NA	NA	<1.3 <sup>(2)</sup>	NA	NA	0.13 J	NA
Total Chromium	NA	NA	<2.5	NA	NA	2.6 J	NA
Total Copper	NA	NA	8.0 J	NA	NA	2.5 J	NA
Total Lead	NA	NA	6.8 J	NA	NA	<0.20	NA
Total Nickel	NA	NA	4.7 J	NA	NA	4.0	NA
Total Selenium	NA	NA	NA	NA	NA	3.2	NA
Total Silver	NA	NA	NA	NA	NA	<0.10	NA
Total Zinc	NA	NA	55.5	NA	NA	12 J	NA
Trivalent Chromium	NA	NA	NA	NA	NA	NA	NA
<b>EPA 7196A (mg/L)</b>							
Hexavalent Chromium	NA	NA	<0.0051	NA	NA	<5.1	NA
<b>NPI volatile organic compounds (VOCs) by EPA 8021/8260 (µg/L)</b>							
1,1,1-Trichloroethane	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	<0.27
1,1-Dichloroethylene	<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	<0.33
Trichloroethylene	0.39 J	0.54 J	0.51 J	0.68 J	0.46 J	0.57 J	0.41 J
<b>Polycyclic aromatic hydrocarbons by EPA 8270/8310 (µg/L)</b>							
Acenaphthene	NA	NA	0.050	NA	NA	<0.92	NA
Acenaphthylene	NA	NA	0.0047J	NA	NA	<0.96	NA
Anthracene	NA	NA	0.013J	NA	NA	<0.0036	NA
Benzo(a)Anthracene	NA	NA	<0.0068	NA	NA	<0.0046	NA
Benzo(a)Pyrene	NA	NA	<0.0095	NA	NA	<0.0040	NA
Benzo(b)Fluoranthene	NA	NA	<0.0052	NA	NA	<0.0048	NA
Benzo(ghi)Perylene	NA	NA	<0.0061	NA	NA	<0.0032	NA
Benzo(k)Fluoranthene	NA	NA	<0.0068	NA	NA	<0.0051	NA
Chrysene	NA	NA	<0.012	NA	NA	<0.0038	NA
Dibenz(a,h)Anthracene	NA	NA	<0.0090	NA	NA	<0.0050	NA
Fluoranthene	NA	NA	<0.0096	NA	NA	<0.0085	NA
Fluorene	NA	NA	0.022J	NA	NA	0.027 J	NA
Indeno(1,2,3-cd)Pyrene	NA	NA	<0.016	NA	NA	<0.0032	NA
1-Methyl Naphthalene	NA	NA	0.096	NA	NA	NA	NA
2-Methyl Naphthalene	NA	NA	0.027	NA	NA	NA	NA
Naphthalene	NA	NA	0.072J	NA	NA	<0.68	NA
Phenanthrene	NA	NA	0.023J	NA	NA	0.0078 J	NA
Pyrene	NA	NA	<0.0069	NA	NA	<0.0069	NA
<b>EPA 8270 (µg/L)</b>							
Pentachlorophenol	NA	NA	<1.4	NA	NA	<0.72	NA



TABLE 13

## SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2017-2020)

Sample Date	Substance Concentration (µg/ℓ) and Results Qualifier(s)											
	Cadmium		NPI Volatile Organic Compounds									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
03/25/19	NA		0.27	U	0.24	U	0.33	U	0.56	J	0.49	J
06/12/19	NA		0.27	U	0.24	U	0.33	U	0.72	J	0.60	J
08/19/19	1.3	U	0.27	U	0.24	U	0.33	U	0.58	J	0.47	J
12/03/19	NA		0.27	U	0.24	U	0.33	U	0.48	J	0.58	J
03/26/20	NA		0.27	U	0.24	U	0.33	U	0.66	J	0.50	J
06/08/20	NA		0.27	U	0.24	U	0.33	U	0.62	J	0.57	J
08/24/20	1.3	U	0.27	U	0.24	U	0.33	U	0.69	J	0.67	J
12/02/20	NA		0.27	U	0.24	U	0.33	U	0.42	J	0.62	J

**NOTES:**

Concentrations are in micrograms per liter (µg/ℓ) or milligrams per liter (mg/ℓ) as shown.

A quarterly sample for NPI VOC analysis is routinely collected from MH-18 for discharge monitoring. In addition, MH-18 was sampled once a year for an expanded analyte list, per agreement with the WDNR. In odd years the list included hardness (as CaCO<sub>3</sub>); cadmium, chromium, chromium+6, copper, lead, nickel, and zinc as total metals; PAHs; and pentachlorophenol. In even years, the list included hardness (as CaCO<sub>3</sub>); cadmium, nickel, and zinc as total metals; and PAHs. In April 2018, the WDNR revised NPI's discharge monitoring requirements. See text of report for details.

J = Estimated concentration below laboratory quantitation level.

NA = Not analyzed.

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

**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 in 2017.

(2) Sampled for the priority pollutants. Results for only the "routine" substances are summarized in this table.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 14

GROUNDWATER SAMPLING AND WELL/PIEZOMETER ABANDONMENT SCHEDULE FOR 2021

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 or if Well Abandonment is Proposed (A=Annual, B=Biennial, Chg=Change, ND=non-detect, SA=Semi-annual)
		NPI VOCs	Cadmium <sup>(1)</sup>	NPI VOCs	Cadmium <sup>(1)</sup>	
<b>PLUME 1/2</b>						
CW-15	B8	Semi-annual	None	None	None	Chg SF for NPI VOCs from SA to none; TCE<3 ppb always and ND since 12/17
CW-19	B7	Semi-annual	None	Semi-annual	None	
CW-22	C7	Semi-annual	None	Semi-annual	None	
CW-23	B7	Semi-annual	None	Semi-annual	None	
Raw	Air stripper bldg	Semi-annual	None	Semi-annual	None	
Tower A	Air stripper bldg	Semi-annual	None	Semi-annual	None	
Tower B	Air stripper bldg	Semi-annual	None	Semi-annual	None	
Finished Product	Water plant	Semi-annual	None	Semi-annual	None	
EC-1	C7	Annual	None	Annual	None	
EC-2	C7	None	None	None	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; NPI believes water quality is essentially the same <sup>(2)</sup>
MH-18	K7	Quarterly	Annual	Quarterly	Annual	Plus priority pollutants in 2023, 2028, etc. until pumping discharges cease <sup>(3)</sup>
MW-4A	K7	None	None	None	None	
MW-4B	K7	Annual	None	Annual	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/PIEZOMETER ABANDONMENT SCHEDULE FOR 2021

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 or if Well Abandonment is Proposed (A=Annual, B=Biennial, Chg=Change, ND=non-detect, SA=Semi-annual)
		NPI VOCs	Cadmium <sup>(1)</sup>	NPI VOCs	Cadmium <sup>(1)</sup>	
MW-34A	K8	Semi-annual	Semi-annual	Semi-annual	Semi-annual	
MW-34B	K8	None	Annual	None	Annual	
MW-34C	K8	None	None	None	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-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-46A	G7	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
MW-46B	G7	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
MW-46C	G7	Lost	None	Lost	None	If found, sample once for NPI VOC analysis 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 VOC analysis and evaluate
MW-50B	F6	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
MW-51A	F6	Biennial	None	Biennial	None	
MW-51B	F6	Annual	None	Annual	None	
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	

TABLE 14

## GROUNDWATER SAMPLING AND WELL/PIEZOMETER ABANDONMENT SCHEDULE FOR 2021

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 or if Well Abandonment is Proposed (A=Annual, B=Biennial, Chg=Change, ND=non-detect, SA=Semi-annual)
		NPI VOCs	Cadmium <sup>(1)</sup>	NPI VOCs	Cadmium <sup>(1)</sup>	
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	Biennial	None	Biennial	None	
MW-59A	F6	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
MW-59B	F6	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
MW-61A	C6	None	None	None	None	
MW-61B	C6	None	None	None	None	
MW-68A	J7	Annual	None	Annual	None	
MW-68B	J7	Semi-annual	Annual	Annual	Annual	Chg SF for NPI VOCs from SA to A; TCE<5 ppb since 10/95 & <0.5 ppb since 12/15
MW-69A	J8	None	None	None	None	
MW-69B	J8	None	None	None	None	
MW-70A	K8	Quarterly	None	Quarterly	None	
MW-70B	K8	None	Annual	None	Annual	
MW-74A	J8	None	None	None	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	None	None	None	None	
MW-77A	K7	Semi-annual	None	Semi-annual	None	
MW-77B	K7	Semi-annual	None	Semi-annual	None	
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	

TABLE 14

GROUNDWATER SAMPLING AND WELL/PIEZOMETER ABANDONMENT SCHEDULE FOR 2021

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 or if Well Abandonment is Proposed (A=Annual, B=Biennial, Chg=Change, ND=non-detect, SA=Semi-annual)
		NPI VOCs	Cadmium <sup>(1)</sup>	NPI VOCs	Cadmium <sup>(1)</sup>	
RW-2C	J7	Annual	None	Annual	None	
RW-3A	C6	Annual	None	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 VOC analysis and evaluate
RW-23	H7	Lost	None	Lost	None	If found, sample once for NPI VOC analysis and evaluate
WW-15	I8	Annual	None	Annual	None	Abandon well; TCE=3 ppb in 9/89 & 5/90, <1.4 ppb since 4/08, and 0.46J on 6/8/20
<b>PLUME 3/4</b>						
EW-1R <sup>(4)</sup>	L6	None	None	None	None	Quarterly sampling for NPI VOC analysis if EW-1R resumes pumping
EW-2 <sup>(4)</sup>	L6	None	None	None	None	Quarterly sampling for NPI VOC analysis if EW-2 resumes pumping
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 <sup>(4,5)</sup>
MW-6	L6	None	None	None	None	Abandon well; TCE=0.133J ppb on 10/5/99; TCA<25 ppb; NPI VOCs ND since 7/01
MW-7 <sup>(6)</sup>	M6	None	None	None	None	
MW-13A	L7	None	None	None	None	
MW-18	M7	None	None	None	None	
MW-62AR	L6	Annual	None	Annual	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping <sup>(4,5)</sup>
MW-62B	L6	Annual	None	Biennial	None	"; chg SF for NPI VOCs from A to B; TCE<5 ppb always and ND since 9/07
MW-63A	M6	None	None	None	None	
MW-65A	L6	None	None	None	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping <sup>(4,5)</sup>
MW-65B	L6	Annual	None	Biennial	None	"; chg SF for NPI VOCs from A to B; TCE<2.2 ppb always and ND since 6/13/17

TABLE 14

GROUNDWATER SAMPLING AND WELL/PIEZOMETER ABANDONMENT SCHEDULE FOR 2021

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 or if Well Abandonment is Proposed (A=Annual, B=Biennial, Chg=Change, ND=non-detect, SA=Semi-annual)
		NPI VOCs	Cadmium <sup>(1)</sup>	NPI VOCs	Cadmium <sup>(1)</sup>	
MW-65C	L6	Annual	None	Biennial	None	"; chg SF for NPI VOCs from A to B; TCE<5 ppb always and <1 ppb since 7/21/09
MW-66A	L6	None	None	None	None	Re-evaluate SF for NPI VOC analysis if EW-1R and/or EW-2 resume pumping <sup>(4,5)</sup>
MW-66B	L6	None	None	None	None	

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, NPI samples 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 active MRDS monitoring wells/piezometers (MW-5A, MW-62AR/B, and MW-65B/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.

NATIONAL PRESTO INDUSTRIES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 15

LONG-TERM STEWARDSHIP PLAN VERIFICATION/CONFIRMATION SUMMARY FOR 2020<sup>(1)</sup>

Ref. No.	Institutional Control (IC)/Continuing Obligation (CO)		Monitoring Method	Comment
	Description	Objective		
1	Cap maintenance at the MRDS	Maintain integrity of cap	Conduct inspections and maintenance activities per O&M manual.	Completed <sup>(2)</sup>
			Verify absence of prohibited activity and integrity of cap.	Verified
2	Cover maintenance at the LDA	Maintain integrity of cover	Conduct inspections and maintenance activities per plan.	Completed <sup>(2)</sup>
			Verify absence of prohibited activity and integrity of cover system.	Verified
3	County & municipal ordinances	Prevent human consumption of contaminated groundwater (GW) until GW clean-up goals are achieved.	Verify that Chippewa County requires permit for construction of any new private water supply well.	Verified
			Verify that Eau Claire ordinances restricting private wells and cross connections remain in place and effective.	Verified
			Verify that Village of Lake Hallie ordinances restricting private wells and cross connections remain in place and effective.	Verified
		See "Monitoring Method" column	Verify that Eau Claire ordinances to prevent acts that would compromise integrity of the ECMWF air stripper remain in place and effective.	Completed <sup>(3)</sup>
4	Deed restriction for the MRDS	Maintain integrity of remedy & prevent residential & GW use	Verify that restrictive covenants have been properly recorded.	Verified
5	Informational maps	Inform public	Review and improve maps.	Completed <sup>(4)</sup>
6	Local zoning	Prevent exposure	Verify that City of Eau Claire Parcel #16-0429 is zoned industrial.	Verified
7	Lost-well abandonment CO	Meet WAC	Confirm commitment to properly abandon any lost well if found.	Confirmed
8	Wisconsin Administrative Code (WAC)	See "Monitoring Method" column	Review WAC for changes to code citations in the ICIAP (ch. NR 811).	Reviewed
		See "Monitoring Method" column	Verify that no new private or public water supply wells have been placed in proximity to GW contaminated with NPI VOCs.	Verified <sup>(5)</sup>
9	WRRD	Inform public and meet WAC	Review BRRTS 02-09-000267/FID 609038320 online postings for accuracy.	Reviewed

**NOTE:**

All acronyms are defined in the text of the annual report and/or the body of this table.

**FOOTNOTES:**

- (1) This table summarizes the steps that NPI took to demonstrate that the site was inspected to ensure no inconsistent uses have occurred, certify that ICs remain in place and are effective, and document that any necessary contingency actions have been executed.
- (2) Inspection conducted annually; maintenance performed as needed.
- (3) Although a preventative act ordinance does not currently exist, the City of Eau Claire continues to operate the ECMWF air stripper; hence it remains in place and effective.
- (4) Review completed; area-wide map, etc. is updated each year for annual report, which is posted online for public viewing.
- (5) City well CW-24 was brought online to replace CW-10 at the ECMWF in December 2020 (see text of the annual report for details).

**APPENDIX A (available upon request)**

**CD WITH HISTORICAL DATA SUMMARY WORKBOOKS**



**APPENDIX B (available upon request)**

**LABORATORY REPORTS FOR 2020 GROUNDWATER ANALYTICAL DATA**

March 31, 2020

**Project #34283.000**  
**NPI Q1 DMR samples**  
**Reviewed by CCW**  
**4/1/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND  
Pace Project No.: 40205368

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40205368

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40205368001	EW-6	Water	03/26/20 11:20	03/27/20 09:50
40205368002	MH-18	Water	03/26/20 11:05	03/27/20 09:50
40205368003	TRIP BLANK	Water	03/26/20 00:00	03/27/20 09:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND  
Pace Project No.: 40205368

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40205368001	EW-6	EPA 8260	HNW	8	PASI-G
40205368002	MH-18	EPA 8260	HNW	8	PASI-G
40205368003	TRIP BLANK	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40205368001</b>	<b>EW-6</b>					
EPA 8260	1,1,1-Trichloroethane	1.3	ug/L	1.0	03/31/20 01:36	
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	03/31/20 01:36	
<b>40205368002</b>	<b>MH-18</b>					
EPA 8260	1,1,1-Trichloroethane	0.66J	ug/L	1.0	03/31/20 01:57	
EPA 8260	Trichloroethene	0.50J	ug/L	1.0	03/31/20 01:57	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** March 31, 2020

**General Information:**

3 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40205368

**Sample: EW-6**      **Lab ID: 40205368001**      Collected: 03/26/20 11:20      Received: 03/27/20 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>1.3</b>	ug/L	1.0	0.24	1		03/31/20 01:36	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		03/31/20 01:36	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		03/31/20 01:36	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		03/31/20 01:36	127-18-4	
Trichloroethene	<b>0.73J</b>	ug/L	1.0	0.26	1		03/31/20 01:36	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	81	%	70-130		1		03/31/20 01:36	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		03/31/20 01:36	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/31/20 01:36	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

**Sample: MH-18**      **Lab ID: 40205368002**      Collected: 03/26/20 11:05      Received: 03/27/20 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.66J</b>	ug/L	1.0	0.24	1		03/31/20 01:57	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		03/31/20 01:57	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		03/31/20 01:57	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		03/31/20 01:57	127-18-4	
Trichloroethene	<b>0.50J</b>	ug/L	1.0	0.26	1		03/31/20 01:57	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		03/31/20 01:57	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		03/31/20 01:57	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/31/20 01:57	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

**Sample: TRIP BLANK**      **Lab ID: 40205368003**      Collected: 03/26/20 00:00      Received: 03/27/20 09:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/30/20 21:18	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/30/20 21:18	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/30/20 21:18	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		03/30/20 21:18	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/30/20 21:18	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	82	%	70-130		1		03/30/20 21:18	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		03/30/20 21:18	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/30/20 21:18	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND  
Pace Project No.: 40205368

QC Batch: 351217 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40205368001, 40205368002, 40205368003

METHOD BLANK: 2034298 Matrix: Water

Associated Lab Samples: 40205368001, 40205368002, 40205368003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	03/30/20 16:17	
1,1-Dichloroethane	ug/L	<0.27	1.0	03/30/20 16:17	
1,1-Dichloroethene	ug/L	<0.24	1.0	03/30/20 16:17	
Tetrachloroethene	ug/L	<0.33	1.1	03/30/20 16:17	
Trichloroethene	ug/L	<0.26	1.0	03/30/20 16:17	
4-Bromofluorobenzene (S)	%	84	70-130	03/30/20 16:17	
Dibromofluoromethane (S)	%	102	70-130	03/30/20 16:17	
Toluene-d8 (S)	%	97	70-130	03/30/20 16:17	

LABORATORY CONTROL SAMPLE: 2034299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethane	ug/L	50	50.6	101	69-163	
1,1-Dichloroethene	ug/L	50	46.2	92	77-123	
Tetrachloroethene	ug/L	50	48.6	97	70-130	
Trichloroethene	ug/L	50	47.5	95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2034474 2034475

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40205355022 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50	52.4	52.5	104	105	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50	52.7	52.1	105	104	69-163	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	50	46.0	47.6	92	95	77-129	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	50	49.7	50.0	99	100	70-130	0	20	
Trichloroethene	ug/L	0.47J	50	50	50	47.9	49.7	95	98	70-130	4	20	
4-Bromofluorobenzene (S)	%							97	97	70-130			
Dibromofluoromethane (S)	%							101	98	70-130			
Toluene-d8 (S)	%							98	98	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.: 40205368

---

### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO IND

Pace Project No.: 40205368

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40205368001	EW-6	EPA 8260	351217		
40205368002	MH-18	EPA 8260	351217		
40205368003	TRIP BLANK	EPA 8260	351217		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

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

460053108

Page 13 of 16



# 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	Pick Letter	Analyses Requested	COLLECTION			
			DATE	TIME	MATRIX	
		4	3/26/20	11:20	W	
		4	3/26/20	11:05	-	
		3			-	

Company Name: Gannett Fleming Inc.  
 Branch/Location: Madison WI  
 Project Contact: Cliff Wright  
 Phone: (608) 327-5047  
 Project Number: 34283.000  
 Project Name: National Presto Industries (WI)  
 Project State: WI  
 Sampled By (Print): Brett Seidlitz  
 Sampled By (Sign): Brett Seidlitz  
 PO #: \_\_\_\_\_

**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		
001	EW-6	3/26/20	11:20	W	4
002	MH-19	3/26/20	11:05	-	4
003	Trip Blank			-	3

Quote #:  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 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: \_\_\_\_\_

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: <u>Brett Seidlitz</u> Date/Time: <u>3/26/20 13:10</u>	Received By: _____ Date/Time: _____
Relinquished By: <u>Fidelix</u> Date/Time: <u>3/27/20 0950</u>	Received By: <u>Brenda Roubicek</u> Date/Time: <u>3/27/20 0950</u>
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. 460053108  
 Receipt Temp = 10 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact





 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming Inc Project #: **WO# : 40205368**

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

Tracking #: 9152 5165 3917

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 - 96 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 120 ICorr: 101

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 if shipped on Dry Ice.

Person examining contents:  
Date: 3/27 Initials: BL  
Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>3-27-20 BL</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>SBL additional page for analysis, no page</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>number, mail information, e-mail information</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>3-27-20 BL</u>
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:	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	8. _____
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	<u>3-27-20 BL</u>
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>Sample OK, all vials received broken still</u>
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. <u>each to run for analysis, 3-27-20 BL</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Sample OK EW 16, 3-27-20 BL</u>
-Includes date/time/ID/Analysis Matrix:	<u>3-27-20 BL</u> <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>441</u>	_____

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir





May 05, 2020

**Project #34283.000**  
**NPI Q2 GW (2 of 2)**  
**Reviewed by CCW**  
**5/5/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40206881

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40206881

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206881001	MW-10A	Water	04/27/20 11:30	04/28/20 14:45
40206881002	MW-34A	Water	04/27/20 11:15	04/28/20 14:45
40206881003	MW-70A	Water	04/27/20 11:00	04/28/20 14:45
40206881004	MW-76A	Water	04/27/20 10:30	04/28/20 14:45
40206881005	TRIP BLANK	Water	04/27/20 00:00	04/28/20 14:45
40206881006	MW-76A DUP	Water	04/27/20 10:30	04/28/20 14:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40206881001	MW-10A	EPA 6010	TXW	1	PASI-G
40206881002	MW-34A	EPA 6010	TXW	1	PASI-G
40206881003	MW-70A	EPA 8260	LAP	8	PASI-G
40206881004	MW-76A	EPA 8260	LAP	8	PASI-G
40206881005	TRIP BLANK	EPA 8260	LAP	8	PASI-G
40206881006	MW-76A DUP	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40206881001</b>	<b>MW-10A</b>					
EPA 6010	Cadmium, Dissolved	18.6	ug/L	5.0	05/01/20 04:18	
<b>40206881003</b>	<b>MW-70A</b>					
EPA 8260	1,1-Dichloroethane	0.36J	ug/L	1.0	04/29/20 14:28	
EPA 8260	Trichloroethene	0.58J	ug/L	1.0	04/29/20 14:28	
<b>40206881004</b>	<b>MW-76A</b>					
EPA 8260	1,1,1-Trichloroethane	0.34J	ug/L	1.0	04/29/20 14:52	
EPA 8260	Tetrachloroethene	0.43J	ug/L	1.1	04/29/20 14:52	
EPA 8260	Trichloroethene	0.30J	ug/L	1.0	04/29/20 14:52	
<b>40206881006</b>	<b>MW-76A DUP</b>					
EPA 8260	1,1,1-Trichloroethane	0.31J	ug/L	1.0	04/29/20 15:16	
EPA 8260	Tetrachloroethene	0.37J	ug/L	1.1	04/29/20 15:16	
EPA 8260	Trichloroethene	0.28J	ug/L	1.0	04/29/20 15:16	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

---

**Method:** EPA 6010

**Description:** 6010 MET ICP, Dissolved

**Client:** Gannett Fleming Inc.

**Date:** May 05, 2020

**General Information:**

2 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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 NATIONAL PRESTO IND.

Pace Project No.: 40206881

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** May 05, 2020

**General Information:**

4 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40206881

Sample: MW-10A Lab ID: 40206881001 Collected: 04/27/20 11:30 Received: 04/28/20 14:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	18.6	ug/L	5.0	1.3	1	04/28/20 22:30	05/01/20 04:18	7440-43-9	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

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**Sample: MW-34A**      **Lab ID: 40206881002**    Collected: 04/27/20 11:15    Received: 04/28/20 14:45    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<b>&lt;1.3</b>	ug/L	5.0	1.3	1	04/28/20 22:30	05/01/20 04:20	7440-43-9	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

**Sample: MW-70A**      **Lab ID: 40206881003**      Collected: 04/27/20 11:00      Received: 04/28/20 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/29/20 14:28	71-55-6	
1,1-Dichloroethane	0.36J	ug/L	1.0	0.27	1		04/29/20 14:28	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/29/20 14:28	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/29/20 14:28	127-18-4	
Trichloroethene	0.58J	ug/L	1.0	0.26	1		04/29/20 14:28	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/29/20 14:28	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/29/20 14:28	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/29/20 14:28	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

**Sample: MW-76A**      **Lab ID: 40206881004**      Collected: 04/27/20 10:30      Received: 04/28/20 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.34J</b>	ug/L	1.0	0.24	1		04/29/20 14:52	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		04/29/20 14:52	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/29/20 14:52	75-35-4	
Tetrachloroethene	<b>0.43J</b>	ug/L	1.1	0.33	1		04/29/20 14:52	127-18-4	
Trichloroethene	<b>0.30J</b>	ug/L	1.0	0.26	1		04/29/20 14:52	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/29/20 14:52	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/29/20 14:52	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/29/20 14:52	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

**Sample: TRIP BLANK**      **Lab ID: 40206881005**      Collected: 04/27/20 00:00      Received: 04/28/20 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/29/20 14:04	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/29/20 14:04	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/29/20 14:04	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/29/20 14:04	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/29/20 14:04	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/29/20 14:04	460-00-4	HS
Dibromofluoromethane (S)	107	%	70-130		1		04/29/20 14:04	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/29/20 14:04	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

**Sample: MW-76A DUP**      **Lab ID: 40206881006**      Collected: 04/27/20 10:30      Received: 04/28/20 14:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.31J</b>	ug/L	1.0	0.24	1		04/29/20 15:16	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		04/29/20 15:16	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		04/29/20 15:16	75-35-4	
Tetrachloroethene	<b>0.37J</b>	ug/L	1.1	0.33	1		04/29/20 15:16	127-18-4	
Trichloroethene	<b>0.28J</b>	ug/L	1.0	0.26	1		04/29/20 15:16	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/29/20 15:16	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/29/20 15:16	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/29/20 15:16	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40206881

QC Batch: 353620	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40206881001, 40206881002

METHOD BLANK: 2046935 Matrix: Water

Associated Lab Samples: 40206881001, 40206881002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	05/01/20 03:47	

LABORATORY CONTROL SAMPLE: 2046936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	494	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2046937 2046938

Parameter	Units	2046937		2046938		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206748001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cadmium, Dissolved	ug/L	<1.3	500	500	510	524	102	105	75-125	3	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.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

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QC Batch:	353638	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40206881003, 40206881004, 40206881005, 40206881006

---

METHOD BLANK: 2046985 Matrix: Water  
Associated Lab Samples: 40206881003, 40206881004, 40206881005, 40206881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/29/20 08:55	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/29/20 08:55	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/29/20 08:55	
Tetrachloroethene	ug/L	<0.33	1.1	04/29/20 08:55	
Trichloroethene	ug/L	<0.26	1.0	04/29/20 08:55	
4-Bromofluorobenzene (S)	%	93	70-130	04/29/20 08:55	
Dibromofluoromethane (S)	%	95	70-130	04/29/20 08:55	
Toluene-d8 (S)	%	98	70-130	04/29/20 08:55	

---

LABORATORY CONTROL SAMPLE: 2046986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	110	70-130	
1,1-Dichloroethane	ug/L	50	55.6	111	69-163	
1,1-Dichloroethene	ug/L	50	50.6	101	77-123	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Trichloroethene	ug/L	50	54.0	108	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			101	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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## QUALIFIERS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40206881

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### 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.

### 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 IND.

Pace Project No.: 40206881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206881001	MW-10A	EPA 3010	353620	EPA 6010	353820
40206881002	MW-34A	EPA 3010	353620	EPA 6010	353820
40206881003	MW-70A	EPA 8260	353638		
40206881004	MW-76A	EPA 8260	353638		
40206881005	TRIP BLANK	EPA 8260	353638		
40206881006	MW-76A DUP	EPA 8260	353638		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

**Company Name:** Gannett Fleming, Inc.  
**Branch/Location:** Madison, WI  
**Project Contact:** Cliff Wright  
**Phone:** 608-836-4500 x6722 - 608-327-8850  
**Project Number:** 34283.000  
**Project Name:** National Presto Industries (NPI)  
**Project State:** WI  
**Sampled By (Print):** Chelsea Payne  
**Sampled By (Sign):** *Ch Payne*  
**PO #:** 34263,000 **Regulatory Program:**



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

Page 1 of 1  
 COC No. 40206881

### 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 2020  
**Mail To Contact:** Cliff Wright  
**Mail To Company:** Gannett Fleming  
**Mail To Address:** 8040 Excelsior Dr. Suite 303, Madison, WI 53717  
**Invoice To Contact:** Derrick Paul  
**Invoice To Company:** National Presto Industries  
**Invoice To Address:** 3925 N Hastings Way, Eau Claire, WI. And send copy of Level IV data pkg. to Mary Gannon for validation.  
**Invoice To Phone:** 715/839-2141

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

Y/N	N	Y																			
	B	D																			
Analyses Requested	NPI Short-list VOCs	Dissolved cadmium																			

**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  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	NPI Short-list VOCs	Dissolved cadmium												
		DATE	TIME																
	<del>EW-6</del>			GW															
	<del>MW-10A</del>																		
001	MW-10A	4/27/20	11:30				X												
002	MW-34A		11:15				X												
003	MW-70A		11:00		X														
004	MW-76A		10:30		X														
	<del>MW-77A</del>																		
	<del>MW-77B</del>																		
005	Trip Blank	4/27/20			X														
006	MW-76A dup	4/27/20	10:35	GW	X														

<b>Rush Turnaround Time Requested - Prelims</b> (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>Ch Payne</i> Date/Time: 4/27/20 18:00	Received By: Date/Time:	<b>PACE Project No.</b> 40206881 Receipt Temp = <i>ROT</i> °C Sample Receipt pH <i>OK</i> / Adjusted <b>Cooler Custody Seal</b> Present / Not Present Intact / Not Intact
	Relinquished By: <i>Felix</i> Date/Time: 4/28/20 1445	Received By: <i>Sammi Kattke pace</i> Date/Time: 4/28/20 1445	
	Relinquished By: Date/Time:	Received By: Date/Time:	
	Relinquished By: Date/Time:	Received By: Date/Time:	
<b>Transmit Prelim Rush Results by (complete what you want):</b> Email #1: Email #2: Telephone: Fax:	Samples on HOLD are subject to special pricing and release of liability		

# Pace Container Order #627064

40206881

Addresses		Ship To :	Return To:
<b>Order By :</b>		<b>Ship To :</b>	<b>Return To:</b>
Company <u>Gannett Fleming Inc.</u>		Company <u>Gannett Fleming Inc.</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Payne, Chelsea</u>		Contact <u>Payne, Chelsea</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>8040 Excelsior Drive, Ste 303</u>		Address <u>8040 Excelsior Drive, Ste 303</u>	Address <u>1241 Bellevue Street</u>
Address 2 _____		Address 2 _____	Address 2 <u>Suite 9</u>
City <u>Madison</u>		City <u>Madison</u>	City <u>Green Bay</u>
State <u>WI</u> Zip <u>53717</u>		State <u>WI</u> Zip <u>53717</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>NONE</u>		Phone <u>NONE</u>	Phone <u>(920)469-2436</u>

Info			
<b>Project Name</b> <u>NPI</u>	<b>Due Date</b> <u>03/17/2020</u>	<b>Profile</b> <u>x</u>	<b>Quote</b> _____
<b>Project Manager</b> <u>Milewsky, Dan</u>	<b>Return Date</b> _____	<b>Carrier</b> <u>Most Economical</u>	<b>Location</b> _____

**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 ID/Matrix

**Return Shipping Labels**

No Shipper

With Shipper

**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	Lot #	Notes
2	WT	Metals	250mL plastic w/HNO3	2	0	M-9-354-03BB	Cd only
6	WT	VOC by 8260	3 x 40 mL VOA HCl	20	2	B-0-039-01VB	
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-9-222-01VB	

**Hazard Shipping Placard In Place : NA**

\*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace 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/disposal.

\*Payment term are net 30 days.

\*Please include the proposal number on the chain of custody to insure proper billing.

**LAB USE:**

**Ship Date :**

**Prepared By:**

**Verified By:**

**Sample**

**CLIENT USE (Optional):**

**Date Rec'd:**

**Received By:**

**Verified By:**





Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
 Author:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Gannett Fleming Inc  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_

Project #:  
**WO# : 40206881**  
  
 40206881

Tracking #: 814962154714  
 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 - 98 Type of Ice: Wet Blue Dry None  Samples on ice, cooling process has begun  
 Cooler Temperature Uncorr: 10 / Corr: 10  
 Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 4/28/20 Initials: BR  
 Labeled By Initials: VC

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	<u>4-28-20 BR</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	<u>Client crossed out phone, photo</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	<u>Field IIS, 4-28-20 BR</u>
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 <u>4-28-20</u>	<input checked="" 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>441</u>			

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

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir



June 23, 2020

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

**Project #34283.000**  
**NPI Q2 MW5A-etc**  
**Reviewed by CCW**  
**6/23/2020**

RE: Project: 34283.000 NPI  
Pace Project No.: 40209224

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40209224

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40209224

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209224001	MW-5A	Water	06/08/20 12:00	06/10/20 09:40
40209224002	MW-62AR	Water	06/08/20 11:35	06/10/20 09:40
40209224003	MW-62B	Water	06/08/20 11:25	06/10/20 09:40
40209224004	MW-63A	Water	06/08/20 12:10	06/10/20 09:40
40209224005	MW-65B	Water	06/08/20 11:00	06/10/20 09:40
40209224006	MW-65C	Water	06/08/20 10:50	06/10/20 09:40
40209224007	MW-66B	Water	06/08/20 10:15	06/10/20 09:40
40209224008	MW-4B	Water	06/08/20 15:00	06/10/20 09:40
40209224009	MW-10A	Water	06/08/20 16:30	06/10/20 09:40
40209224010	MW-34A	Water	06/08/20 13:40	06/10/20 09:40
40209224011	MW-68A	Water	06/08/20 12:40	06/10/20 09:40
40209224012	MW-68B	Water	06/08/20 12:50	06/10/20 09:40
40209224013	MW-70A	Water	06/08/20 14:05	06/10/20 09:40
40209224014	MW-76A	Water	06/08/20 16:05	06/10/20 09:40
40209224015	MW-76A DUP	Water	06/08/20 16:05	06/10/20 09:40
40209224016	MW-77A	Water	06/08/20 15:30	06/10/20 09:40
40209224017	MW-77B	Water	06/08/20 15:40	06/10/20 09:40
40209224018	MW-77C	Water	06/08/20 15:50	06/10/20 09:40
40209224019	WW-15	Water	06/08/20 17:30	06/10/20 09:40
40209224020	RW-15	Water	06/08/20 18:30	06/10/20 09:40
40209224021	MW-38A	Water	06/08/20 17:50	06/10/20 09:40
40209224022	MW-38B	Water	06/08/20 18:00	06/10/20 09:40
40209224023	MW-38B DUP	Water	06/08/20 18:00	06/10/20 09:40
40209224024	MW-38C	Water	06/08/20 18:10	06/10/20 09:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40209224

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209224001	MW-5A	EPA 8260	HNW	8	PASI-G
40209224002	MW-62AR	EPA 8260	HNW	8	PASI-G
40209224003	MW-62B	EPA 8260	HNW	8	PASI-G
40209224004	MW-63A	EPA 8260	HNW	8	PASI-G
40209224005	MW-65B	EPA 8260	HNW	8	PASI-G
40209224006	MW-65C	EPA 8260	HNW	8	PASI-G
40209224007	MW-66B	EPA 8260	HNW	8	PASI-G
40209224008	MW-4B	EPA 8260	HNW	8	PASI-G
40209224009	MW-10A	EPA 6010	TXW	1	PASI-G
40209224010	MW-34A	EPA 8260	HNW	8	PASI-G
40209224011	MW-68A	EPA 8260	HNW	8	PASI-G
40209224012	MW-68B	EPA 8260	HNW	8	PASI-G
40209224013	MW-70A	EPA 8260	HNW	8	PASI-G
40209224014	MW-76A	EPA 8260	HNW	8	PASI-G
40209224015	MW-76A DUP	EPA 8260	HNW	8	PASI-G
40209224016	MW-77A	EPA 8260	HNW	8	PASI-G
40209224017	MW-77B	EPA 8260	HNW	8	PASI-G
40209224018	MW-77C	EPA 8260	HNW	8	PASI-G
40209224019	WW-15	EPA 8260	HNW	8	PASI-G
40209224020	RW-15	EPA 8260	HNW	8	PASI-G
40209224021	MW-38A	EPA 8260	HNW	8	PASI-G
40209224022	MW-38B	EPA 8260	HNW	8	PASI-G
40209224023	MW-38B DUP	EPA 8260	HNW	8	PASI-G
40209224024	MW-38C	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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### SUMMARY OF DETECTION

Project: 34283.000 NPI  
Pace Project No.: 40209224

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40209224002</b>	<b>MW-62AR</b>					
EPA 8260	1,1,1-Trichloroethane	0.29J	ug/L	1.0	06/11/20 21:55	
<b>40209224006</b>	<b>MW-65C</b>					
EPA 8260	Trichloroethene	0.51J	ug/L	1.0	06/11/20 23:21	
<b>40209224008</b>	<b>MW-4B</b>					
EPA 8260	1,1,1-Trichloroethane	0.34J	ug/L	1.0	06/12/20 00:04	
EPA 8260	1,1-Dichloroethane	0.48J	ug/L	1.0	06/12/20 00:04	
EPA 8260	Trichloroethene	0.33J	ug/L	1.0	06/12/20 00:04	
<b>40209224009</b>	<b>MW-10A</b>					
EPA 6010	Cadmium, Dissolved	18.7	ug/L	5.0	06/18/20 22:58	
<b>40209224010</b>	<b>MW-34A</b>					
EPA 8260	1,1-Dichloroethane	0.31J	ug/L	1.0	06/12/20 00:25	
<b>40209224013</b>	<b>MW-70A</b>					
EPA 8260	1,1-Dichloroethane	0.40J	ug/L	1.0	06/12/20 01:30	
EPA 8260	Trichloroethene	0.63J	ug/L	1.0	06/12/20 01:30	
<b>40209224017</b>	<b>MW-77B</b>					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/11/20 20:51	
<b>40209224018</b>	<b>MW-77C</b>					
EPA 8260	Trichloroethene	0.57J	ug/L	1.0	06/11/20 21:13	
<b>40209224019</b>	<b>WW-15</b>					
EPA 8260	Trichloroethene	0.46J	ug/L	1.0	06/11/20 21:36	
<b>40209224020</b>	<b>RW-15</b>					
EPA 8260	1,1,1-Trichloroethane	0.31J	ug/L	1.0	06/11/20 21:58	
EPA 8260	Trichloroethene	3.1	ug/L	1.0	06/11/20 21:58	
<b>40209224021</b>	<b>MW-38A</b>					
EPA 8260	Trichloroethene	1.9	ug/L	1.0	06/11/20 22:21	
<b>40209224022</b>	<b>MW-38B</b>					
EPA 8260	1,1,1-Trichloroethane	0.44J	ug/L	1.0	06/11/20 22:43	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/11/20 22:43	
<b>40209224023</b>	<b>MW-38B DUP</b>					
EPA 8260	1,1,1-Trichloroethane	0.45J	ug/L	1.0	06/11/20 23:06	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/11/20 23:06	
<b>40209224024</b>	<b>MW-38C</b>					
EPA 8260	Trichloroethene	1.4	ug/L	1.0	06/11/20 23:28	

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## PROJECT NARRATIVE

Project: 34283.000 NPI  
Pace Project No.: 40209224

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**Date:** June 23, 2020

The trip blank logged with this set of samples (40209224025) was reported with 40209194.

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## PROJECT NARRATIVE

Project: 34283.000 NPI  
Pace Project No.: 40209224

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**Method:** EPA 6010  
**Description:** 6010 MET ICP, Dissolved  
**Client:** Gannett Fleming Inc.  
**Date:** June 23, 2020

**General Information:**

1 sample was analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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:**

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## PROJECT NARRATIVE

Project: 34283.000 NPI  
Pace Project No.: 40209224

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**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** Gannett Fleming Inc.  
**Date:** June 23, 2020

### General Information:

23 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-5A**      **Lab ID: 40209224001**      Collected: 06/08/20 12:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 21:33	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 21:33	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 21:33	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 21:33	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 21:33	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 21:33	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/11/20 21:33	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/11/20 21:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-62AR**      **Lab ID: 40209224002**      Collected: 06/08/20 11:35      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.29J</b>	ug/L	1.0	0.24	1		06/11/20 21:55	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 21:55	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 21:55	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 21:55	127-18-4	
Trichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		06/11/20 21:55	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 21:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/11/20 21:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 21:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-62B**      **Lab ID: 40209224003**      Collected: 06/08/20 11:25      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 22:16	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 22:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 22:16	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 22:16	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 22:16	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 22:16	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 22:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 22:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-63A**      **Lab ID: 40209224004**      Collected: 06/08/20 12:10      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 22:38	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 22:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 22:38	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 22:38	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 22:38	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 22:38	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/11/20 22:38	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/11/20 22:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-65B**      **Lab ID: 40209224005**      Collected: 06/08/20 11:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 22:59	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 22:59	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 22:59	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 22:59	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 22:59	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/11/20 22:59	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		06/11/20 22:59	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 22:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-65C**      **Lab ID: 40209224006**      Collected: 06/08/20 10:50      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 23:21	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 23:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 23:21	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 23:21	127-18-4	
Trichloroethene	0.51J	ug/L	1.0	0.26	1		06/11/20 23:21	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		06/11/20 23:21	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 23:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 23:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-66B**      **Lab ID: 40209224007**      Collected: 06/08/20 10:15      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 23:42	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 23:42	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 23:42	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 23:42	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 23:42	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 23:42	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/11/20 23:42	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 23:42	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-4B**      **Lab ID: 40209224008**      Collected: 06/08/20 15:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.34J</b>	ug/L	1.0	0.24	1		06/12/20 00:04	71-55-6	
1,1-Dichloroethane	<b>0.48J</b>	ug/L	1.0	0.27	1		06/12/20 00:04	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/12/20 00:04	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/12/20 00:04	127-18-4	
Trichloroethene	<b>0.33J</b>	ug/L	1.0	0.26	1		06/12/20 00:04	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/12/20 00:04	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		06/12/20 00:04	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/12/20 00:04	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

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**Sample: MW-10A**      **Lab ID: 40209224009**    Collected: 06/08/20 16:30    Received: 06/10/20 09:40    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<b>18.7</b>	ug/L	5.0	1.3	1		06/18/20 22:58	7440-43-9	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-34A**      **Lab ID: 40209224010**      Collected: 06/08/20 13:40      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 00:25	71-55-6	
1,1-Dichloroethane	0.31J	ug/L	1.0	0.27	1		06/12/20 00:25	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 00:25	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 00:25	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 00:25	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 00:25	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/12/20 00:25	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/12/20 00:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-68A**      **Lab ID: 40209224011**      Collected: 06/08/20 12:40      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 00:47	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 00:47	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 00:47	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 00:47	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 00:47	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 00:47	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/12/20 00:47	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/12/20 00:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-68B**      **Lab ID: 40209224012**      Collected: 06/08/20 12:50      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 01:08	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 01:08	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 01:08	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 01:08	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 01:08	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/12/20 01:08	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/12/20 01:08	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/12/20 01:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-70A**      **Lab ID: 40209224013**      Collected: 06/08/20 14:05      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 01:30	71-55-6	
1,1-Dichloroethane	0.40J	ug/L	1.0	0.27	1		06/12/20 01:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 01:30	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 01:30	127-18-4	
Trichloroethene	0.63J	ug/L	1.0	0.26	1		06/12/20 01:30	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/12/20 01:30	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 01:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/12/20 01:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-76A**      **Lab ID: 40209224014**      Collected: 06/08/20 16:05      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 01:51	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 01:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 01:51	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 01:51	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 01:51	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		06/12/20 01:51	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 01:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/12/20 01:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-76A DUP**      **Lab ID: 40209224015**      Collected: 06/08/20 16:05      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 23:51	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 23:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 23:51	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 23:51	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 23:51	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 23:51	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/11/20 23:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 23:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-77A**      **Lab ID: 40209224016**      Collected: 06/08/20 15:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 00:13	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 00:13	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 00:13	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 00:13	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 00:13	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/12/20 00:13	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/12/20 00:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 00:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-77B**      **Lab ID: 40209224017**      Collected: 06/08/20 15:40      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 20:51	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 20:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 20:51	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 20:51	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.26	1		06/11/20 20:51	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 20:51	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/11/20 20:51	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/11/20 20:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-77C**      **Lab ID: 40209224018**      Collected: 06/08/20 15:50      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 21:13	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 21:13	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 21:13	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 21:13	127-18-4	
Trichloroethene	0.57J	ug/L	1.0	0.26	1		06/11/20 21:13	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 21:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/11/20 21:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/11/20 21:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: WW-15**      **Lab ID: 40209224019**      Collected: 06/08/20 17:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 21:36	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 21:36	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 21:36	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 21:36	127-18-4	
Trichloroethene	0.46J	ug/L	1.0	0.26	1		06/11/20 21:36	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 21:36	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/11/20 21:36	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 21:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: RW-15**      **Lab ID: 40209224020**      Collected: 06/08/20 18:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.31J</b>	ug/L	1.0	0.24	1		06/11/20 21:58	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 21:58	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 21:58	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 21:58	127-18-4	
Trichloroethene	<b>3.1</b>	ug/L	1.0	0.26	1		06/11/20 21:58	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 21:58	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/11/20 21:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/11/20 21:58	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-38A**      **Lab ID: 40209224021**      Collected: 06/08/20 17:50      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 22:21	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 22:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 22:21	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 22:21	127-18-4	
Trichloroethene	1.9	ug/L	1.0	0.26	1		06/11/20 22:21	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 22:21	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 22:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/11/20 22:21	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-38B**      **Lab ID: 40209224022**      Collected: 06/08/20 18:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.44J</b>	ug/L	1.0	0.24	1		06/11/20 22:43	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 22:43	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 22:43	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 22:43	127-18-4	
Trichloroethene	<b>2.9</b>	ug/L	1.0	0.26	1		06/11/20 22:43	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/11/20 22:43	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 22:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/11/20 22:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI  
Pace Project No.: 40209224

**Sample: MW-38B DUP**      **Lab ID: 40209224023**      Collected: 06/08/20 18:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.45J</b>	ug/L	1.0	0.24	1		06/11/20 23:06	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 23:06	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 23:06	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 23:06	127-18-4	
Trichloroethene	<b>2.9</b>	ug/L	1.0	0.26	1		06/11/20 23:06	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/11/20 23:06	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 23:06	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/11/20 23:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209224

**Sample: MW-38C**      **Lab ID: 40209224024**      Collected: 06/08/20 18:10      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 23:28	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 23:28	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 23:28	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 23:28	127-18-4	
Trichloroethene	1.4	ug/L	1.0	0.26	1		06/11/20 23:28	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/11/20 23:28	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/11/20 23:28	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/11/20 23:28	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209224

QC Batch: 358060	Analysis Method: EPA 6010
QC Batch Method: EPA 6010	Analysis Description: ICP Metals, Trace, Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209224009

METHOD BLANK: 2071204 Matrix: Water

Associated Lab Samples: 40209224009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	06/18/20 22:15	

LABORATORY CONTROL SAMPLE: 2071205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	476	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2071206 2071207

Parameter	Units	2071206		2071207		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40209608003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Cadmium, Dissolved	ug/L	<1.3	500	500	494	492	99	98	75-125	0	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.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209224

QC Batch:	357402	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40209224001, 40209224002, 40209224003, 40209224004, 40209224005, 40209224006, 40209224007, 40209224008, 40209224010, 40209224011, 40209224012, 40209224013, 40209224014

METHOD BLANK: 2066998 Matrix: Water  
Associated Lab Samples: 40209224001, 40209224002, 40209224003, 40209224004, 40209224005, 40209224006, 40209224007, 40209224008, 40209224010, 40209224011, 40209224012, 40209224013, 40209224014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/11/20 16:54	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/11/20 16:54	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/11/20 16:54	
Tetrachloroethene	ug/L	<0.33	1.1	06/11/20 16:54	
Trichloroethene	ug/L	<0.26	1.0	06/11/20 16:54	
4-Bromofluorobenzene (S)	%	95	70-130	06/11/20 16:54	
Dibromofluoromethane (S)	%	98	70-130	06/11/20 16:54	
Toluene-d8 (S)	%	103	70-130	06/11/20 16:54	

LABORATORY CONTROL SAMPLE: 2066999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	62.8	126	69-163	
1,1-Dichloroethene	ug/L	50	58.1	116	77-123	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2067015 2067016

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40209225002 Result	Spike Conc.	Spike Conc.	Result						
1,1,1-Trichloroethane	ug/L	1.1	50	50	50.2	53.0	98	104	70-130	5	20
1,1-Dichloroethane	ug/L	<0.27	50	50	59.2	62.1	118	124	69-163	5	20
1,1-Dichloroethene	ug/L	<0.24	50	50	57.0	59.8	114	120	77-129	5	20
Tetrachloroethene	ug/L	<0.33	50	50	48.6	48.8	97	97	70-130	0	20
Trichloroethene	ug/L	0.79J	50	50	52.9	53.7	104	106	70-130	1	20
4-Bromofluorobenzene (S)	%						111	110	70-130		
Dibromofluoromethane (S)	%						99	100	70-130		
Toluene-d8 (S)	%						101	98	70-130		

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209224

QC Batch: 357403 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40209224015, 40209224016, 40209224017, 40209224018, 40209224019, 40209224020, 40209224021, 40209224022, 40209224023, 40209224024

METHOD BLANK: 2067001 Matrix: Water  
Associated Lab Samples: 40209224015, 40209224016, 40209224017, 40209224018, 40209224019, 40209224020, 40209224021, 40209224022, 40209224023, 40209224024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/11/20 16:21	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/11/20 16:21	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/11/20 16:21	
Tetrachloroethene	ug/L	<0.33	1.1	06/11/20 16:21	
Trichloroethene	ug/L	<0.26	1.0	06/11/20 16:21	
4-Bromofluorobenzene (S)	%	93	70-130	06/11/20 16:21	
Dibromofluoromethane (S)	%	99	70-130	06/11/20 16:21	
Toluene-d8 (S)	%	100	70-130	06/11/20 16:21	

LABORATORY CONTROL SAMPLE: 2067002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.0	96	70-130	
1,1-Dichloroethane	ug/L	50	49.0	98	69-163	
1,1-Dichloroethene	ug/L	50	46.2	92	77-123	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2067013 2067014

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40209225001 Result	Spike Conc.	Spike Conc.	Result						
1,1,1-Trichloroethane	ug/L	0.62J	50	50	50.1	48.1	99	95	70-130	4	20
1,1-Dichloroethane	ug/L	<0.27	50	50	49.8	47.5	100	95	69-163	5	20
1,1-Dichloroethene	ug/L	<0.24	50	50	46.7	45.0	93	90	77-129	4	20
Tetrachloroethene	ug/L	<0.33	50	50	53.1	50.7	106	101	70-130	5	20
Trichloroethene	ug/L	0.57J	50	50	53.6	50.9	106	101	70-130	5	20
4-Bromofluorobenzene (S)	%						99	99	70-130		
Dibromofluoromethane (S)	%						100	99	70-130		
Toluene-d8 (S)	%						99	100	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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## QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40209224

---

### 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.

### WORKORDER QUALIFIERS

WO: 40209224

[1] The trip blank logged with this set of samples (40209224025) was reported with 40209194.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI  
Pace Project No.: 40209224

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209224009	MW-10A	EPA 6010	358060		
40209224001	MW-5A	EPA 8260	357402		
40209224002	MW-62AR	EPA 8260	357402		
40209224003	MW-62B	EPA 8260	357402		
40209224004	MW-63A	EPA 8260	357402		
40209224005	MW-65B	EPA 8260	357402		
40209224006	MW-65C	EPA 8260	357402		
40209224007	MW-66B	EPA 8260	357402		
40209224008	MW-4B	EPA 8260	357402		
40209224010	MW-34A	EPA 8260	357402		
40209224011	MW-68A	EPA 8260	357402		
40209224012	MW-68B	EPA 8260	357402		
40209224013	MW-70A	EPA 8260	357402		
40209224014	MW-76A	EPA 8260	357402		
40209224015	MW-76A DUP	EPA 8260	357403		
40209224016	MW-77A	EPA 8260	357403		
40209224017	MW-77B	EPA 8260	357403		
40209224018	MW-77C	EPA 8260	357403		
40209224019	WW-15	EPA 8260	357403		
40209224020	RW-15	EPA 8260	357403		
40209224021	MW-38A	EPA 8260	357403		
40209224022	MW-38B	EPA 8260	357403		
40209224023	MW-38B DUP	EPA 8260	357403		
40209224024	MW-38C	EPA 8260	357403		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **Gannett Fleming**  
 Branch/Location: **Madison, WI**  
 Project Contact: **Cliff Wright**  
 Phone: **608-327-5050**  
 Project Number: **34283.000**  
 Project Name: **NPI**  
 Project State: **WI**  
 Sampled By (Print): **Chelsea Payne**  
 Sampled By (Sign): *[Signature]*  
 PO #:  
 Regulatory Program:



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

### 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	Pick Letter	Analyses Requested	DATE	TIME	MATRIX
N	B	VOCs NPI Short List Cadmium	6/8/20	12:00	GW
Y	D			11:35	
				11:25	
				12:10	
				11:00	
				10:50	
				10:15	
				15:00	
				16:30	
				13:40	
				12:40	
				12:50	
				14:05	

Quote #: **40209224**  
 Mail To Contact: **Cliff Wright**  
 Mail To Company: **Gannett Fleming**  
 Mail To Address: **8040 Excelsior Dr  
 Ste 303  
 Madison, WI 53717**  
 Invoice To Contact: **Derrick Paul**  
 Invoice To Company: **National Presto Ind.**  
 Invoice To Address: **3925 N. Hastings Way  
 Eau Claire, WI; Send copy of  
 Level IV data pkg to Mary Gannon  
 for validation**  
 Invoice To Phone: **715-839-2141**

**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  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-5A	6/8/20	12:00	GW
002	MW-62AR		11:35	
003	MW-62B		11:25	
004	MW-63A		12:10	
005	MW-65B		11:00	
006	MW-65C		10:50	
007	MW-66B		10:15	
008	MW-4B		15:00	
009	MW-10A		16:30	
010	MW-34A		13:40	
011	MW-68A		12:40	
012	MW-68B		12:50	
013	MW-70A		14:05	

**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: *[Signature]* Date/Time: **6/9/20 18:00**

Relinquished By: **Fed Ex** Date/Time: **6/10/20 0940**

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Received By: *[Signature]* Date/Time: **6/10/20 0940**

Received By: Date/Time:

Received By: Date/Time:

Received By: Date/Time:

PACE Project No. **40209224**

Receipt Temp = **ROE** °C

Sample Receipt pH  
 OK / Adjusted

Cooler Custody Seal  
 Present  Not Present  
 Intact  Not Intact













 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 26Mar2020
	Document No.: <b>ENV-FRM-GBAY-0014-Rev.00</b>	Author: 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# : 40209224**  
  
 40209224

**Tracking #:** 8147 4940 8592  
**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  
**Cooler Temperature**    Uncorr: NOT /Corr: \_\_\_\_\_  
**Temp Blank Present:**  yes  no    **Biological Tissue is Frozen:**  yes  no

Samples on ice, cooling process has begun  
**Person examining contents:**  
 Date: 6/10/20    Initials: JK  
 Labeled By Initials: SMW

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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 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 type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input 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: _____		
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:** \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir



⏪ Reply all ▾ 🗑 Delete 🚫 Junk 🚫 Block ⋮

## NPI trip blanks

DM

**Dan Milewsky**

Fri 6/12/2020 12:17 PM



To: Payne, Chelsea J. <cpayne@GFNET.com>

Cc: Clifford Wright <cwright@gfnet.com>

Chelsea,

On Wednesday we received two coolers with four separate COC's. Each COC listed a trip blank. As you mentioned when we spoke, only two sets of trip blanks were received. We had originally assigned the blanks to two COC's with samples from June 8, but we reassigned one set to a June 9 COC as you requested.

Dan

**Dan Milewsky**

Project Manager | Pace Environmental Sciences

1241 Bellevue St, STE 9

Green Bay, WI 54302

Direct/Cell [920-412-8566](tel:920-412-8566) | Lab [920-469-2436](tel:920-469-2436)

[pacelabs.com](http://pacelabs.com)



June 17, 2020

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

**Project #34283.000**  
**NPI Q2 EC-1 etc.**  
**Reviewed by CCW**  
**6/19/2020**

RE: Project: 34283.000 NPI  
Pace Project No.: 40209194

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40209194

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40209194

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209194001	EC-1	Water	06/09/20 09:15	06/10/20 09:40
40209194002	EC-1 DUP	Water	06/09/20 09:15	06/10/20 09:40
40209194004	EC-6	Water	06/09/20 08:45	06/10/20 09:40
40209194006	RW-3A	Water	06/09/20 10:45	06/10/20 09:40
40209194007	RW-3A DUP	Water	06/09/20 10:45	06/10/20 09:40
40209194008	RW-3B	Water	06/09/20 10:55	06/10/20 09:40
40209194009	RW-3C	Water	06/09/20 11:05	06/10/20 09:40
40209194010	RW-16	Water	06/09/20 12:30	06/10/20 09:40
40209194011	RW-16B	Water	06/09/20 12:35	06/10/20 09:40
40209194012	RW-16C	Water	06/09/20 12:45	06/10/20 09:40
40209194013	MW-35A	Water	06/09/20 13:20	06/10/20 09:40
40209194014	MW-35B	Water	06/09/20 13:30	06/10/20 09:40
40209224025	TRIP BLANK	Water	06/09/20 00:00	06/10/20 09:40

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40209194

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209194001	EC-1	EPA 8260	LAP	8	PASI-G
40209194002	EC-1 DUP	EPA 8260	LAP	8	PASI-G
40209194004	EC-6	EPA 8260	LAP	8	PASI-G
40209194006	RW-3A	EPA 8260	LAP	8	PASI-G
40209194007	RW-3A DUP	EPA 8260	LAP	8	PASI-G
40209194008	RW-3B	EPA 8260	LAP	8	PASI-G
40209194009	RW-3C	EPA 8260	LAP	8	PASI-G
40209194010	RW-16	EPA 8260	LAP	8	PASI-G
40209194011	RW-16B	EPA 8260	LAP	8	PASI-G
40209194012	RW-16C	EPA 8260	LAP	8	PASI-G
40209194013	MW-35A	EPA 8260	LAP	8	PASI-G
40209194014	MW-35B	EPA 8260	LAP	8	PASI-G
40209224025	TRIP BLANK	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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### SUMMARY OF DETECTION

Project: 34283.000 NPI  
Pace Project No.: 40209194

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40209194001</b>	<b>EC-1</b>					
EPA 8260	Trichloroethene	0.92J	ug/L	1.0	06/11/20 10:01	
<b>40209194002</b>	<b>EC-1 DUP</b>					
EPA 8260	Trichloroethene	0.94J	ug/L	1.0	06/11/20 09:39	
<b>40209194006</b>	<b>RW-3A</b>					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/11/20 10:45	
<b>40209194007</b>	<b>RW-3A DUP</b>					
EPA 8260	Trichloroethene	1.9	ug/L	1.0	06/11/20 11:07	
<b>40209194008</b>	<b>RW-3B</b>					
EPA 8260	1,1,1-Trichloroethane	0.32J	ug/L	1.0	06/11/20 11:29	
EPA 8260	Trichloroethene	3.1	ug/L	1.0	06/11/20 11:29	
<b>40209194009</b>	<b>RW-3C</b>					
EPA 8260	1,1,1-Trichloroethane	0.37J	ug/L	1.0	06/11/20 11:51	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/11/20 11:51	
<b>40209194010</b>	<b>RW-16</b>					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/11/20 12:12	
<b>40209194011</b>	<b>RW-16B</b>					
EPA 8260	1,1,1-Trichloroethane	0.29J	ug/L	1.0	06/11/20 12:34	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/11/20 12:34	
<b>40209194012</b>	<b>RW-16C</b>					
EPA 8260	Trichloroethene	3.1	ug/L	1.0	06/11/20 12:56	
<b>40209194013</b>	<b>MW-35A</b>					
EPA 8260	1,1,1-Trichloroethane	0.44J	ug/L	1.0	06/11/20 13:18	
EPA 8260	Trichloroethene	1.1	ug/L	1.0	06/11/20 13:18	
<b>40209194014</b>	<b>MW-35B</b>					
EPA 8260	1,1,1-Trichloroethane	0.38J	ug/L	1.0	06/11/20 13:40	
EPA 8260	Trichloroethene	0.96J	ug/L	1.0	06/11/20 13:40	

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## PROJECT NARRATIVE

Project: 34283.000 NPI  
Pace Project No.: 40209194

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**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** Gannett Fleming Inc.  
**Date:** June 17, 2020

### General Information:

13 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: EC-1**      **Lab ID: 40209194001**      Collected: 06/09/20 09:15      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 10:01	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 10:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 10:01	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 10:01	127-18-4	
Trichloroethene	0.92J	ug/L	1.0	0.26	1		06/11/20 10:01	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		06/11/20 10:01	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		06/11/20 10:01	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/11/20 10:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: EC-1 DUP**      **Lab ID: 40209194002**      Collected: 06/09/20 09:15      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 09:39	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 09:39	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 09:39	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 09:39	127-18-4	
Trichloroethene	0.94J	ug/L	1.0	0.26	1		06/11/20 09:39	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	82	%	70-130		1		06/11/20 09:39	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		06/11/20 09:39	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/11/20 09:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: EC-6**      **Lab ID: 40209194004**      Collected: 06/09/20 08:45      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 10:23	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 10:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 10:23	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 10:23	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/11/20 10:23	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85	%	70-130		1		06/11/20 10:23	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		06/11/20 10:23	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/11/20 10:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-3A**      **Lab ID: 40209194006**      Collected: 06/09/20 10:45      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 10:45	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 10:45	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 10:45	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 10:45	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.26	1		06/11/20 10:45	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	82	%	70-130		1		06/11/20 10:45	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		1		06/11/20 10:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/11/20 10:45	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-3A DUP**      **Lab ID: 40209194007**      Collected: 06/09/20 10:45      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 11:07	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 11:07	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 11:07	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 11:07	127-18-4	
Trichloroethene	1.9	ug/L	1.0	0.26	1		06/11/20 11:07	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		06/11/20 11:07	460-00-4	
Dibromofluoromethane (S)	86	%	70-130		1		06/11/20 11:07	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/11/20 11:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-3B**      **Lab ID: 40209194008**      Collected: 06/09/20 10:55      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.32J</b>	ug/L	1.0	0.24	1		06/11/20 11:29	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 11:29	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 11:29	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 11:29	127-18-4	
Trichloroethene	<b>3.1</b>	ug/L	1.0	0.26	1		06/11/20 11:29	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		06/11/20 11:29	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		06/11/20 11:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/11/20 11:29	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-3C**      **Lab ID: 40209194009**      Collected: 06/09/20 11:05      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.37J</b>	ug/L	1.0	0.24	1		06/11/20 11:51	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 11:51	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 11:51	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 11:51	127-18-4	
Trichloroethene	<b>3.6</b>	ug/L	1.0	0.26	1		06/11/20 11:51	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		1		06/11/20 11:51	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		06/11/20 11:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/11/20 11:51	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-16**      **Lab ID: 40209194010**      Collected: 06/09/20 12:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 12:12	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 12:12	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 12:12	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 12:12	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.26	1		06/11/20 12:12	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		1		06/11/20 12:12	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		06/11/20 12:12	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/11/20 12:12	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-16B**      **Lab ID: 40209194011**      Collected: 06/09/20 12:35      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.29J</b>	ug/L	1.0	0.24	1		06/11/20 12:34	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 12:34	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 12:34	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 12:34	127-18-4	
Trichloroethene	<b>2.9</b>	ug/L	1.0	0.26	1		06/11/20 12:34	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		1		06/11/20 12:34	460-00-4	
Dibromofluoromethane (S)	86	%	70-130		1		06/11/20 12:34	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/11/20 12:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: RW-16C**      **Lab ID: 40209194012**      Collected: 06/09/20 12:45      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/11/20 12:56	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/11/20 12:56	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/11/20 12:56	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/11/20 12:56	127-18-4	
Trichloroethene	3.1	ug/L	1.0	0.26	1		06/11/20 12:56	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		1		06/11/20 12:56	460-00-4	
Dibromofluoromethane (S)	86	%	70-130		1		06/11/20 12:56	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/11/20 12:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: MW-35A**      **Lab ID: 40209194013**      Collected: 06/09/20 13:20      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.44J</b>	ug/L	1.0	0.24	1		06/11/20 13:18	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 13:18	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 13:18	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 13:18	127-18-4	
Trichloroethene	<b>1.1</b>	ug/L	1.0	0.26	1		06/11/20 13:18	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		1		06/11/20 13:18	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		06/11/20 13:18	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/11/20 13:18	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI  
Pace Project No.: 40209194

**Sample: MW-35B**      **Lab ID: 40209194014**      Collected: 06/09/20 13:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.38J</b>	ug/L	1.0	0.24	1		06/11/20 13:40	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/11/20 13:40	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/11/20 13:40	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/11/20 13:40	127-18-4	
Trichloroethene	<b>0.96J</b>	ug/L	1.0	0.26	1		06/11/20 13:40	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	84	%	70-130		1		06/11/20 13:40	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		06/11/20 13:40	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/11/20 13:40	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209194

**Sample: TRIP BLANK**      **Lab ID: 40209224025**      Collected: 06/09/20 00:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 08:26	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 08:26	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 08:26	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 08:26	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 08:26	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/12/20 08:26	460-00-4	HS
Dibromofluoromethane (S)	98	%	70-130		1		06/12/20 08:26	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/12/20 08:26	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209194

QC Batch: 357470	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209224025

METHOD BLANK: 2067557 Matrix: Water  
Associated Lab Samples: 40209224025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/12/20 06:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/12/20 06:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/12/20 06:34	
Tetrachloroethene	ug/L	<0.33	1.1	06/12/20 06:34	
Trichloroethene	ug/L	<0.26	1.0	06/12/20 06:34	
4-Bromofluorobenzene (S)	%	86	70-130	06/12/20 06:34	
Dibromofluoromethane (S)	%	100	70-130	06/12/20 06:34	
Toluene-d8 (S)	%	100	70-130	06/12/20 06:34	

LABORATORY CONTROL SAMPLE: 2067558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	62.5	125	69-163	
1,1-Dichloroethene	ug/L	50	58.8	118	77-123	
Tetrachloroethene	ug/L	50	48.0	96	70-130	
Trichloroethene	ug/L	50	54.9	110	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2067590 2067591

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40209355004 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<2.4	50	50	51.6	50.9	103	102	70-130	1	20		
1,1-Dichloroethane	ug/L	<2.7	50	50	56.3	49.3	113	99	69-163	13	20		
1,1-Dichloroethene	ug/L	<2.4	50	50	54.7	48.0	109	96	77-129	13	20		
Tetrachloroethene	ug/L	<3.3	50	50	49.7	49.0	99	98	70-130	1	20		
Trichloroethene	ug/L	<2.6	50	50	56.7	53.3	113	107	70-130	6	20		
4-Bromofluorobenzene (S)	%						113	104	70-130				
Dibromofluoromethane (S)	%						100	102	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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## QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40209194

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### 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.

### 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 NPI  
Pace Project No.: 40209194

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209194001	EC-1	EPA 8260	357354		
40209194002	EC-1 DUP	EPA 8260	357354		
40209194004	EC-6	EPA 8260	357354		
40209194006	RW-3A	EPA 8260	357354		
40209194007	RW-3A DUP	EPA 8260	357354		
40209194008	RW-3B	EPA 8260	357354		
40209194009	RW-3C	EPA 8260	357354		
40209194010	RW-16	EPA 8260	357354		
40209194011	RW-16B	EPA 8260	357354		
40209194012	RW-16C	EPA 8260	357354		
40209194013	MW-35A	EPA 8260	357354		
40209194014	MW-35B	EPA 8260	357354		
40209224025	TRIP BLANK	EPA 8260	357470		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

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

Page 1 of 2

COC No.

40209194

Page 24 of 29



# CHAIN OF CUSTODY

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

**Company Name:** Gannett Fleming, Inc.  
**Branch/Location:** Madison, WI  
**Project Contact:** Cliff Wright  
**Phone:** 608/327-5047  
**Project Number:** 34283.000  
**Project Name:** National Presto Industries (NPI)  
**Project State:** WI  
**Sampled By (Print):** Chelsea Payne  
**Sampled By (Sign):** *Ch Payne*  
**PO #:** \_\_\_\_\_ **Regulatory Program:** \_\_\_\_\_

**Quote #:** Pace 2020  
**Mail To Contact:** Cliff Wright  
**Mail To Company:** Gannett Fleming  
**Mail To Address:** 8040 Excelsior Dr. Suite 303, Madison, WI 53717  
**Invoice To Contact:** Derrick Paul  
**Invoice To Company:** National Presto Industries  
**Invoice To Address:** 3925 N Hastings Way, Eau Claire, WI. And send copy of Level IV data pkg. to Mary Gannon for validation.  
**Invoice To Phone:** 715/839-2141  
**CLIENT COMMENTS** **LAB COMMENTS (Lab Use Only)** **Profile #**

**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  
 SI = Sludge WP = Wipe

Y/N	N	Y																		
Filtered? (YES/NO)	Preservation (CODE)*	Pick Letter	Analyses Requested	NPI Short-list VOCs																
		B	D	Diesel Exhaust Gaseous																

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRX
		DATE	TIME	
001	EC-1	6/9/20	9:15	GW
002	EC-1 dup		"	
003	EC-1 dup AP		9:30	
004	EC-6		8:45	
005	EC-6 dup AP		10:05	
006	RW-3A		10:45	
007	RW-3A dup		"	
008	RW-3B		10:55	
009	RW-3C		11:05	
010	RW-16		12:30	
011	RW-16B		12:35	
012	RW-16C		12:45	
013	MW-35A		13:20	

**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: *Ch Payne* Date/Time: 6/9/20 18:00  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: *Fed Ex* Date/Time: 6/10/20 0940  
 Received By: *Mary Gannon* Date/Time: 6/10/20 0940

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. 40209194  
 Receipt Temp = *ROI* °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: **Gunneth Fleming**  
 Branch/Location: **Madison, WI**  
 Project Contact: **Cliff Wright**  
 Phone: **608-327-5050**  
 Project Number: **34283.000**  
 Project Name: **NPI**  
 Project State: **WI**  
 Sampled By (Print): **Chelsea Payne**  
 Sampled By (Sign): *[Signature]*



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

40209194

### 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	Pick Letter	Analysis Requested
N	B	VOCs NPI Short List
		3
		2

Quote #: **Pace 2020**

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact: *See pg 1*

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

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  
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	MW-35B Trip Blank	6/9/20	13:30	GW
		"	"	"

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>[Signature]</i> Date/Time: <b>6/9/20 18:00</b>	Received By: _____ Date/Time: _____	PACE Project No. <b>40209194</b>
	Transmit Prelim Rush Results by (complete what you want): <b>Fed Ex</b>	Relinquished By: <b>Fed Ex</b> Date/Time: <b>6/10/20 0940</b>	
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Receipt Temp = <b>ROI</b> °C
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal <input checked="" type="checkbox"/> Present / <input type="checkbox"/> Not Present <input checked="" type="checkbox"/> Intact / <input type="checkbox"/> Not Intact
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

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

# Sample Preservation Receipt Form

Pace Analytical Services, LLC  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Page 26 of 29

Client Name: Gannett Fleming Inc. Project # 40209194

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	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
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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

NC 6/10/20

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

<b>AG1U</b> 1 liter amber glass	<b>BP1U</b> 1 liter plastic unpres	<b>VG9A</b> 40 mL clear ascorbic	<b>JGFU</b> 4 oz amber jar unpres
<b>BG1U</b> 1 liter clear glass	<b>BP3U</b> 250 mL plastic unpres	<b>DG9T</b> 40 mL amber Na Thio	<b>JG9U</b> 9 oz amber jar unpres
<b>AG1H</b> 1 liter amber glass HCL	<b>BP3B</b> 250 mL plastic NaOH	<b>VG9U</b> 40 mL clear vial unpres	<b>WGFU</b> 4 oz clear jar unpres
<b>AG4S</b> 125 mL amber glass H2SO4	<b>BP3N</b> 250 mL plastic HNO3	<b>VG9H</b> 40 mL clear vial HCL	<b>WPFU</b> 4 oz plastic jar unpres
<b>AG4U</b> 120 mL amber glass unpres	<b>BP3S</b> 250 mL plastic H2SO4	<b>VG9M</b> 40 mL clear vial MeOH	<b>SP5T</b> 120 mL plastic Na Thiosulfate
<b>AG5U</b> 100 mL amber glass unpres		<b>VG9D</b> 40 mL clear vial DI	<b>ZPLC</b> ziploc bag
<b>AG2S</b> 500 mL amber glass H2SO4			<b>GN</b>
<b>BG3U</b> 250 mL clear glass unpres			




 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 26Mar2020
	Document No.: <b>ENV-FRM-GBAY-0014-Rev.00</b>	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** Gannet Fleming Inc.  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_

**WO#: 40209194**



40209194

**Tracking #:** 8152 5165 2818  
**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: hot /Corr: \_\_\_\_\_  
**Temp Blank Present:**  yes  no **Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
 Date: 6/10/20 Initials: JC  
 Labeled By Initials: AS

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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. <u>JC 6/10/20</u>
Sufficient Volume:	For Analysis: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>missing RW 16 - missing trip blank one vial for 002 broke</u>
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>one vial for 002 broke</u>
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 type="checkbox"/> Yes <input checked="" 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):	_____	

JC 6/10/20  
 JC 6/10/20

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

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample logir

⏪ Reply all ▾ 🗑 Delete 🚫 Junk 🚫 Block ⋮

## NPI trip blanks

DM

**Dan Milewsky**

Fri 6/12/2020 12:17 PM



To: Payne, Chelsea J. <cpayne@GFNET.com>  
Cc: Clifford Wright <cwright@gfnet.com>

Chelsea,

On Wednesday we received two coolers with four separate COC's. Each COC listed a trip blank. As you mentioned when we spoke, only two sets of trip blanks were received. We had originally assigned the blanks to two COC's with samples from June 8, but we reassigned one set to a June 9 COC as you requested.

Dan

**Dan Milewsky**

Project Manager | Pace Environmental Sciences

1241 Bellevue St, STE 9

Green Bay, WI 54302

Direct/Cell [920-412-8566](tel:920-412-8566) | Lab [920-469-2436](tel:920-469-2436)

[pacelabs.com](http://pacelabs.com)



## Dan Milewsky

---

**From:** Dan Milewsky  
**Sent:** Wednesday, June 17, 2020 9:55 AM  
**To:** Clifford Wright  
**Subject:** NPI holds and SAF  
**Attachments:** 40209450\_saf.pdf

Cliff,

Here is the SAF you requested, and I will cancel the holds on EC-1 dup AP and EC-6 dup AP as we discussed.

Pace Analytical will be closed on Friday, July 3rd, and Saturday, July 4th, in observance of Independence Day. Samples will not be accepted or set up on either of these days. Please plan your sampling accordingly

**Dan Milewsky**  
Project Manager | Pace Environmental Sciences  
1241 Bellevue St, STE 9  
Green Bay, WI 54302  
Direct/Cell-[920.412.8566](tel:920.412.8566) | Lab-[920.469.2436](tel:920.469.2436) |  
[pacelabs.com](http://pacelabs.com)



June 23, 2020

**Project #34283.000**  
**NPI Q2 CW15-etc**  
**Reviewed by CCW**  
**6/23/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NPI  
Pace Project No.: 40209193

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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.: 40209193

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### **Pace Analytical Services Minneapolis**

A2LA Certification #: 2926.01	Minnesota Petrofund Certification #: 1240
Alabama Certification #: 40770	Mississippi Certification #: MN00064
Alaska Contaminated Sites Certification #: 17-009	Missouri Certification #: 10100
Alaska DW Certification #: MN00064	Montana Certification #: CERT0092
Arizona Certification #: AZ0014	Nebraska Certification #: NE-OS-18-06
Arkansas DW Certification #: MN00064	Nevada Certification #: MN00064
Arkansas WW Certification #: 88-0680	New Hampshire Certification #: 2081
California Certification #: 2929	New Jersey Certification #: MN002
CNMI Saipan Certification #: MP0003	New York Certification #: 11647
Colorado Certification #: MN00064	North Carolina DW Certification #: 27700
Connecticut Certification #: PH-0256	North Carolina WW Certification #: 530
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Dakota Certification #: R-036
Florida Certification #: E87605	Ohio DW Certification #: 41244
Georgia Certification #: 959	Ohio VAP Certification #: CL101
Guam EPA Certification #: MN00064	Oklahoma Certification #: 9507
Hawaii Certification #: MN00064	Oregon Primary Certification #: MN300001
Idaho Certification #: MN00064	Oregon Secondary Certification #: MN200001
Illinois Certification #: 200011	Pennsylvania Certification #: 68-00563
Indiana Certification #: C-MN-01	Puerto Rico Certification #: MN00064
Iowa Certification #: 368	South Carolina Certification #: 74003001
Kansas Certification #: E-10167	Tennessee Certification #: TN02818
Kentucky DW Certification #: 90062	Texas Certification #: T104704192
Kentucky WW Certification #: 90062	Utah Certification #: MN00064
Louisiana DEQ Certification #: 03086	Vermont Certification #: VT-027053137
Louisiana DW Certification #: MN00064	Virginia Certification #: 460163
Maine Certification #: MN00064	Washington Certification #: C486
Maryland Certification #: 322	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01
Minnesota Dept of Ag Certification #: via MN 027-053-137	

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## SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40209193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209193001	CW-15	Water	06/09/20 08:10	06/10/20 09:40
40209193002	CW-19	Water	06/09/20 08:20	06/10/20 09:40
40209193003	CW-22	Water	06/09/20 08:37	06/10/20 09:40
40209193004	CW-23	Water	06/09/20 08:30	06/10/20 09:40
40209193005	TOWER A	Water	06/09/20 07:55	06/10/20 09:40
40209193006	TOWER B	Water	06/09/20 07:57	06/10/20 09:40
40209193007	RAW	Water	06/09/20 08:00	06/10/20 09:40
40209193008	FINISHED PRODUCT	Water	06/09/20 07:50	06/10/20 09:40

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40209193

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209193001	CW-15	EPA 524.2	AEZ	8	PASI-M
40209193002	CW-19	EPA 524.2	AEZ	8	PASI-M
40209193003	CW-22	EPA 524.2	AEZ	8	PASI-M
40209193004	CW-23	EPA 524.2	AEZ	8	PASI-M
40209193005	TOWER A	EPA 524.2	AEZ	8	PASI-M
40209193006	TOWER B	EPA 524.2	AEZ	8	PASI-M
40209193007	RAW	EPA 524.2	AEZ	8	PASI-M
40209193008	FINISHED PRODUCT	EPA 524.2	AEZ	8	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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### SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40209193

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40209193002</b>	<b>CW-19</b>					
EPA 524.2	Trichloroethene	0.30	ug/L	0.18	06/17/20 13:34	
<b>40209193003</b>	<b>CW-22</b>					
EPA 524.2	1,1,1-Trichloroethane	0.17J	ug/L	0.30	06/19/20 17:22	
EPA 524.2	Trichloroethene	1.7	ug/L	0.18	06/19/20 17:22	
<b>40209193004</b>	<b>CW-23</b>					
EPA 524.2	Trichloroethene	0.24	ug/L	0.18	06/19/20 17:48	
<b>40209193007</b>	<b>RAW</b>					
EPA 524.2	Trichloroethene	0.69	ug/L	0.18	06/17/20 17:28	

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## PROJECT NARRATIVE

Project: 34283.000 NPI  
Pace Project No.: 40209193

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**Method:** EPA 524.2  
**Description:** 524.2 MSV  
**Client:** Gannett Fleming Inc.  
**Date:** June 23, 2020

**General Information:**

8 samples were analyzed for EPA 524.2 by Pace Analytical Services Minneapolis. 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.: 40209193

**Sample: CW-15**      **Lab ID: 40209193001**      Collected: 06/09/20 08:10      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Minneapolis							
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/17/20 17:54	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/17/20 17:54	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/17/20 17:54	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/17/20 17:54	71-55-6	
Trichloroethene	<0.053	ug/L	0.18	0.053	1		06/17/20 17:54	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/17/20 17:54	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		06/17/20 17:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		06/17/20 17:54	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: CW-19**      **Lab ID: 40209193002**      Collected: 06/09/20 08:20      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/17/20 13:34	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/17/20 13:34	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/17/20 13:34	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/17/20 13:34	71-55-6	
Trichloroethene	0.30	ug/L	0.18	0.053	1		06/17/20 13:34	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/17/20 13:34	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		06/17/20 13:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		06/17/20 13:34	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: CW-22**      **Lab ID: 40209193003**      Collected: 06/09/20 08:37      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Minneapolis							
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/19/20 17:22	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/19/20 17:22	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/19/20 17:22	127-18-4	
1,1,1-Trichloroethane	0.17J	ug/L	0.30	0.091	1		06/19/20 17:22	71-55-6	
Trichloroethene	1.7	ug/L	0.18	0.053	1		06/19/20 17:22	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	75-125		1		06/19/20 17:22	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/19/20 17:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		06/19/20 17:22	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: CW-23**      **Lab ID: 40209193004**      Collected: 06/09/20 08:30      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/19/20 17:48	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/19/20 17:48	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/19/20 17:48	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/19/20 17:48	71-55-6	
Trichloroethene	0.24	ug/L	0.18	0.053	1		06/19/20 17:48	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	75-125		1		06/19/20 17:48	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/19/20 17:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		06/19/20 17:48	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: TOWER A**      **Lab ID: 40209193005**      Collected: 06/09/20 07:55      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/19/20 18:14	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/19/20 18:14	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/19/20 18:14	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/19/20 18:14	71-55-6	
Trichloroethene	<0.053	ug/L	0.18	0.053	1		06/19/20 18:14	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	75-125		1		06/19/20 18:14	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/19/20 18:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	75-125		1		06/19/20 18:14	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: TOWER B**      **Lab ID: 40209193006**      Collected: 06/09/20 07:57      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Minneapolis							
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/16/20 19:01	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/16/20 19:01	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/16/20 19:01	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/16/20 19:01	71-55-6	
Trichloroethene	<0.053	ug/L	0.18	0.053	1		06/16/20 19:01	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	75-125		1		06/16/20 19:01	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/16/20 19:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	75-125		1		06/16/20 19:01	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: RAW**      **Lab ID: 40209193007**      Collected: 06/09/20 08:00      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>		Analytical Method: EPA 524.2 Pace Analytical Services - Minneapolis							
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/17/20 17:28	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/17/20 17:28	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/17/20 17:28	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/17/20 17:28	71-55-6	
Trichloroethene	0.69	ug/L	0.18	0.053	1		06/17/20 17:28	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	75-125		1		06/17/20 17:28	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		06/17/20 17:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		06/17/20 17:28	17060-07-0	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209193

**Sample: FINISHED PRODUCT**      **Lab ID: 40209193008**      Collected: 06/09/20 07:50      Received: 06/10/20 09:40      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.079	ug/L	0.26	0.079	1		06/16/20 18:09	75-34-3	
1,1-Dichloroethene	<0.088	ug/L	0.29	0.088	1		06/16/20 18:09	75-35-4	
Tetrachloroethene	<0.064	ug/L	0.21	0.064	1		06/16/20 18:09	127-18-4	
1,1,1-Trichloroethane	<0.091	ug/L	0.30	0.091	1		06/16/20 18:09	71-55-6	
Trichloroethene	<0.053	ug/L	0.18	0.053	1		06/16/20 18:09	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/16/20 18:09	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		06/16/20 18:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		06/16/20 18:09	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209193

QC Batch: 681440      Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2      Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40209193006, 40209193008

METHOD BLANK: 3646389      Matrix: Water  
Associated Lab Samples: 40209193006, 40209193008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.091	0.30	06/16/20 13:24	
1,1-Dichloroethane	ug/L	<0.079	0.26	06/16/20 13:24	
1,1-Dichloroethene	ug/L	<0.088	0.29	06/16/20 13:24	
Tetrachloroethene	ug/L	<0.064	0.21	06/16/20 13:24	
Trichloroethene	ug/L	0.32	0.18	06/16/20 13:24	
1,2-Dichloroethane-d4 (S)	%	106	75-125	06/16/20 13:24	
4-Bromofluorobenzene (S)	%	98	75-125	06/16/20 13:24	
Toluene-d8 (S)	%	102	75-125	06/16/20 13:24	

LABORATORY CONTROL SAMPLE: 3646390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	9.1	91	70-130	
1,1-Dichloroethane	ug/L	10	9.2	92	70-130	
1,1-Dichloroethene	ug/L	10	7.9	79	70-130	
Tetrachloroethene	ug/L	10	8.7	87	70-130	
Trichloroethene	ug/L	10	9.2	92	70-130	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3646391      3646392

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10521630001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	ND	10	10	10	9.2	9.0	90	88	70-130	3	20	
1,1-Dichloroethane	ug/L	ND	10	10	10	8.7	8.7	87	87	70-130	1	20	
1,1-Dichloroethene	ug/L	ND	10	10	10	7.4	7.4	74	74	70-130	0	20	
Tetrachloroethene	ug/L	ND	10	10	10	8.6	8.4	86	84	70-130	2	20	
Trichloroethene	ug/L	1.6	10	10	10	10.3	10.3	87	88	70-130	0	20	
1,2-Dichloroethane-d4 (S)	%							94	96	75-125			
4-Bromofluorobenzene (S)	%							95	98	75-125			
Toluene-d8 (S)	%							95	96	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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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209193

QC Batch: 681664 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40209193001, 40209193002, 40209193007

METHOD BLANK: 3647813 Matrix: Water

Associated Lab Samples: 40209193001, 40209193002, 40209193007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.091	0.30	06/17/20 12:27	
1,1-Dichloroethane	ug/L	<0.079	0.26	06/17/20 12:27	
1,1-Dichloroethene	ug/L	<0.088	0.29	06/17/20 12:27	
Tetrachloroethene	ug/L	<0.064	0.21	06/17/20 12:27	
Trichloroethene	ug/L	<0.053	0.18	06/17/20 12:27	
1,2-Dichloroethane-d4 (S)	%	97	75-125	06/17/20 12:27	
4-Bromofluorobenzene (S)	%	105	75-125	06/17/20 12:27	
Toluene-d8 (S)	%	101	75-125	06/17/20 12:27	

LABORATORY CONTROL SAMPLE: 3647814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	8.9	89	70-130	
1,1-Dichloroethane	ug/L	10	8.8	88	70-130	
1,1-Dichloroethene	ug/L	10	7.6	76	70-130	
Tetrachloroethene	ug/L	10	8.5	85	70-130	
Trichloroethene	ug/L	10	9.3	93	70-130	
1,2-Dichloroethane-d4 (S)	%			90	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			95	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3647815 3647816

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40209193002 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	ug/L	<0.091	10	10	8.7	8.9	87	89	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.079	10	10	8.5	8.8	85	88	70-130	3	20	
1,1-Dichloroethene	ug/L	<0.088	10	10	7.6	7.6	76	76	70-130	0	20	
Tetrachloroethene	ug/L	<0.064	10	10	8.5	8.8	85	88	70-130	3	20	
Trichloroethene	ug/L	0.30	10	10	9.0	9.2	87	89	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%						93	94	75-125			
4-Bromofluorobenzene (S)	%						96	98	75-125			
Toluene-d8 (S)	%						94	94	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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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209193

QC Batch: 682269      Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2      Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 40209193003, 40209193004, 40209193005

METHOD BLANK: 3650958      Matrix: Water

Associated Lab Samples: 40209193003, 40209193004, 40209193005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.091	0.30	06/19/20 14:03	
1,1-Dichloroethane	ug/L	<0.079	0.26	06/19/20 14:03	
1,1-Dichloroethene	ug/L	<0.088	0.29	06/19/20 14:03	
Tetrachloroethene	ug/L	<0.064	0.21	06/19/20 14:03	
Trichloroethene	ug/L	<0.053	0.18	06/19/20 14:03	
1,2-Dichloroethane-d4 (S)	%	96	75-125	06/19/20 14:03	
4-Bromofluorobenzene (S)	%	98	75-125	06/19/20 14:03	
Toluene-d8 (S)	%	100	75-125	06/19/20 14:03	

LABORATORY CONTROL SAMPLE: 3650959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	10	8.9	89	70-130	
1,1-Dichloroethane	ug/L	10	8.8	88	70-130	
1,1-Dichloroethene	ug/L	10	8.5	85	70-130	
Tetrachloroethene	ug/L	10	9.7	97	70-130	
Trichloroethene	ug/L	10	9.6	96	70-130	
1,2-Dichloroethane-d4 (S)	%			88	75-125	
4-Bromofluorobenzene (S)	%			95	75-125	
Toluene-d8 (S)	%			97	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3650960      3650961

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40209193003 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	0.17J	10	10	9.5	9.7	94	96	70-130	2	20
1,1-Dichloroethane	ug/L	<0.079	10	10	9.2	9.2	92	92	70-130	1	20
1,1-Dichloroethene	ug/L	<0.088	10	10	8.8	9.0	88	90	70-130	2	20
Tetrachloroethene	ug/L	<0.064	10	10	9.9	10.2	99	102	70-130	3	20
Trichloroethene	ug/L	1.7	10	10	11.4	11.5	98	98	70-130	0	20
1,2-Dichloroethane-d4 (S)	%						92	90	75-125		
4-Bromofluorobenzene (S)	%						95	97	75-125		
Toluene-d8 (S)	%						94	95	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.: 40209193

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### 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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40209193


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209193001	CW-15	EPA 524.2	681664		
40209193002	CW-19	EPA 524.2	681664		
40209193003	CW-22	EPA 524.2	682269		
40209193004	CW-23	EPA 524.2	682269		
40209193005	TOWER A	EPA 524.2	682269		
40209193006	TOWER B	EPA 524.2	681440		
40209193007	RAW	EPA 524.2	681664		
40209193008	FINISHED PRODUCT	EPA 524.2	681440		

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 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 26Mar2020
	Document No.: <b>ENV-FRM-GBAY-0014-Rev.00</b>	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** Gannet Fleming  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_

**WO#: 40209193**



40209193

**Tracking #:** 8152 5105 2818  
**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  
**Cooler Temperature:** Uncorr: 60F Corr: \_\_\_\_\_  Samples on ice, cooling process has begun  
**Temp Blank Present:**  yes  no **Biological Tissue is Frozen:**  yes  no

**Person examining contents:**  
 Date: 6/10/20 Initials: VC  
 Labeled By Initials: [Signature]

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. <u>no trip blank</u>
For Analysis: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		VC 6/10/20
Correct Containers Used:	<input 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 type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" 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: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

June 15, 2020

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

**Project #34283.000**  
**NPI Q2 RW-2A etc**  
**Reviewed by CCW**  
**6/19/2020**

RE: Project: 34283.000 NPI  
Pace Project No.: 40209346

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40209346

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40209346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209346001	RW-2A	Water	06/10/20 08:45	06/11/20 10:00
40209346002	RW-2B	Water	06/10/20 08:55	06/11/20 10:00
40209346003	RW-2C	Water	06/10/20 09:05	06/11/20 10:00
40209346004	MW-23A	Water	06/10/20 09:25	06/11/20 10:00
40209346005	MW-23B	Water	06/10/20 09:30	06/11/20 10:00
40209346006	MW-41A	Water	06/10/20 10:15	06/11/20 10:00
40209346007	MW-41B	Water	06/10/20 10:25	06/11/20 10:00
40209346008	MW-43A	Water	06/10/20 10:45	06/11/20 10:00
40209346009	MW-43B	Water	06/10/20 10:55	06/11/20 10:00
40209346010	TRIP BLANK	Water	06/10/20 00:00	06/11/20 10:00

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI  
Pace Project No.: 40209346

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209346001	RW-2A	EPA 8260	HNW	8	PASI-G
40209346002	RW-2B	EPA 8260	HNW	8	PASI-G
40209346003	RW-2C	EPA 8260	HNW	8	PASI-G
40209346004	MW-23A	EPA 8260	HNW	8	PASI-G
40209346005	MW-23B	EPA 8260	HNW	8	PASI-G
40209346006	MW-41A	EPA 8260	HNW	8	PASI-G
40209346007	MW-41B	EPA 8260	HNW	8	PASI-G
40209346008	MW-43A	EPA 8260	HNW	8	PASI-G
40209346009	MW-43B	EPA 8260	HNW	8	PASI-G
40209346010	TRIP BLANK	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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### SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40209346

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40209346001</b>	<b>RW-2A</b>					
EPA 8260	Trichloroethene	0.98J	ug/L	1.0	06/12/20 20:30	
<b>40209346002</b>	<b>RW-2B</b>					
EPA 8260	1,1,1-Trichloroethane	0.30J	ug/L	1.0	06/12/20 20:53	
EPA 8260	Trichloroethene	2.0	ug/L	1.0	06/12/20 20:53	
<b>40209346003</b>	<b>RW-2C</b>					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/12/20 21:15	
<b>40209346004</b>	<b>MW-23A</b>					
EPA 8260	Trichloroethene	0.38J	ug/L	1.0	06/12/20 21:38	
<b>40209346005</b>	<b>MW-23B</b>					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/12/20 22:00	
<b>40209346006</b>	<b>MW-41A</b>					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	06/12/20 22:23	
<b>40209346007</b>	<b>MW-41B</b>					
EPA 8260	1,1,1-Trichloroethane	0.26J	ug/L	1.0	06/12/20 13:47	
EPA 8260	Trichloroethene	2.3	ug/L	1.0	06/12/20 13:47	
<b>40209346008</b>	<b>MW-43A</b>					
EPA 8260	1,1,1-Trichloroethane	0.51J	ug/L	1.0	06/12/20 14:09	
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/12/20 14:09	
<b>40209346009</b>	<b>MW-43B</b>					
EPA 8260	1,1,1-Trichloroethane	0.44J	ug/L	1.0	06/12/20 14:30	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	06/12/20 14:30	

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## PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40209346

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**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** June 15, 2020

**General Information:**

10 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40209346

**Sample: RW-2A**      **Lab ID: 40209346001**      Collected: 06/10/20 08:45      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 20:30	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 20:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 20:30	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 20:30	127-18-4	
Trichloroethene	0.98J	ug/L	1.0	0.26	1		06/12/20 20:30	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 20:30	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 20:30	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 20:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: RW-2B**      **Lab ID: 40209346002**      Collected: 06/10/20 08:55      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.30J</b>	ug/L	1.0	0.24	1		06/12/20 20:53	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/12/20 20:53	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/12/20 20:53	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/12/20 20:53	127-18-4	
Trichloroethene	<b>2.0</b>	ug/L	1.0	0.26	1		06/12/20 20:53	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/12/20 20:53	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 20:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/12/20 20:53	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: RW-2C**      **Lab ID: 40209346003**      Collected: 06/10/20 09:05      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 21:15	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 21:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 21:15	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 21:15	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.26	1		06/12/20 21:15	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 21:15	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 21:15	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 21:15	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-23A**      **Lab ID: 40209346004**      Collected: 06/10/20 09:25      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 21:38	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 21:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 21:38	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 21:38	127-18-4	
Trichloroethene	0.38J	ug/L	1.0	0.26	1		06/12/20 21:38	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 21:38	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 21:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 21:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-23B**      **Lab ID: 40209346005**      Collected: 06/10/20 09:30      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 22:00	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 22:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 22:00	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 22:00	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.26	1		06/12/20 22:00	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 22:00	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/12/20 22:00	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 22:00	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-41A**      **Lab ID: 40209346006**      Collected: 06/10/20 10:15      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 22:23	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 22:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 22:23	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 22:23	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.26	1		06/12/20 22:23	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/12/20 22:23	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/12/20 22:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/12/20 22:23	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-41B**      **Lab ID: 40209346007**      Collected: 06/10/20 10:25      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.26J</b>	ug/L	1.0	0.24	1		06/12/20 13:47	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/12/20 13:47	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/12/20 13:47	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/12/20 13:47	127-18-4	
Trichloroethene	<b>2.3</b>	ug/L	1.0	0.26	1		06/12/20 13:47	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/12/20 13:47	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		06/12/20 13:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/12/20 13:47	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-43A**      **Lab ID: 40209346008**      Collected: 06/10/20 10:45      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.51J</b>	ug/L	1.0	0.24	1		06/12/20 14:09	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/12/20 14:09	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/12/20 14:09	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/12/20 14:09	127-18-4	
Trichloroethene	<b>2.2</b>	ug/L	1.0	0.26	1		06/12/20 14:09	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/12/20 14:09	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/12/20 14:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/12/20 14:09	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: MW-43B**      **Lab ID: 40209346009**      Collected: 06/10/20 10:55      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.44J</b>	ug/L	1.0	0.24	1		06/12/20 14:30	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/12/20 14:30	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/12/20 14:30	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/12/20 14:30	127-18-4	
Trichloroethene	<b>1.3</b>	ug/L	1.0	0.26	1		06/12/20 14:30	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		06/12/20 14:30	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/12/20 14:30	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/12/20 14:30	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209346

**Sample: TRIP BLANK**      **Lab ID: 40209346010**      Collected: 06/10/20 00:00      Received: 06/11/20 10:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/12/20 14:52	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/12/20 14:52	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/12/20 14:52	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/12/20 14:52	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/12/20 14:52	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/12/20 14:52	460-00-4	HS
Dibromofluoromethane (S)	100	%	70-130		1		06/12/20 14:52	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/12/20 14:52	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209346

QC Batch: 357470 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209346007, 40209346008, 40209346009, 40209346010

METHOD BLANK: 2067557 Matrix: Water  
Associated Lab Samples: 40209346007, 40209346008, 40209346009, 40209346010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/12/20 06:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/12/20 06:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/12/20 06:34	
Tetrachloroethene	ug/L	<0.33	1.1	06/12/20 06:34	
Trichloroethene	ug/L	<0.26	1.0	06/12/20 06:34	
4-Bromofluorobenzene (S)	%	86	70-130	06/12/20 06:34	
Dibromofluoromethane (S)	%	100	70-130	06/12/20 06:34	
Toluene-d8 (S)	%	100	70-130	06/12/20 06:34	

LABORATORY CONTROL SAMPLE: 2067558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	62.5	125	69-163	
1,1-Dichloroethene	ug/L	50	58.8	118	77-123	
Tetrachloroethene	ug/L	50	48.0	96	70-130	
Trichloroethene	ug/L	50	54.9	110	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2067590 2067591

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40209355004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<2.4	50	50	51.6	50.9	103	102	70-130	1	20
1,1-Dichloroethane	ug/L	<2.7	50	50	56.3	49.3	113	99	69-163	13	20
1,1-Dichloroethene	ug/L	<2.4	50	50	54.7	48.0	109	96	77-129	13	20
Tetrachloroethene	ug/L	<3.3	50	50	49.7	49.0	99	98	70-130	1	20
Trichloroethene	ug/L	<2.6	50	50	56.7	53.3	113	107	70-130	6	20
4-Bromofluorobenzene (S)	%						113	104	70-130		
Dibromofluoromethane (S)	%						100	102	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.

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## QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40209346

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### 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.

### 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 NPI

Pace Project No.: 40209346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209346001	RW-2A	EPA 8260	357483		
40209346002	RW-2B	EPA 8260	357483		
40209346003	RW-2C	EPA 8260	357483		
40209346004	MW-23A	EPA 8260	357483		
40209346005	MW-23B	EPA 8260	357483		
40209346006	MW-41A	EPA 8260	357483		
40209346007	MW-41B	EPA 8260	357470		
40209346008	MW-43A	EPA 8260	357470		
40209346009	MW-43B	EPA 8260	357470		
40209346010	TRIP BLANK	EPA 8260	357470		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming  
 Branch/Location: Madison, WI  
 Project Contact: Cliff Wright  
 Phone: 608-327-5050  
 Project Number: 34283.000  
 Project Name: NPI  
 Project State: WI  
 Sampled By (Print): Chelsea Payne  
 Sampled By (Sign): [Signature]  
 PO #:

Regulatory Program:

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

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

Matrix Codes  
 A = Air W = Water  
 B = Bats DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 D = CH SW = Surface Water  
 E = CH WFW = Waste Water  
 S = Sed WP = Sludge  
 Sp = Sludge

PACE LAB #	CLIENT FIELD ID	COLLECTION		
		DATE	TIME	MATRIX
001	RW-2A	4/14/20	8:45	GW
002	RW-2B		9:55	
003	RW-2C		9:05	
004	MW-23A		9:25	
005	MW-23B		9:30	
006	MW-41A		10:15	
007	MW-41B		10:25	
008	MW-43A		10:45	
009	MW-43B		10:55	
010	Trip Blank	↓		↓



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-468-2438

### 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	Pick Letter	Analysis Requested
		VECS - NPI short list
		3
		2

Quote #: Pace 2020  
 Mail To Contact: Cliff Wright  
 Mail To Company: Gannett Fleming  
 Mail To Address: 8040 Excelsior Dr  
Madison, WI 53717  
Suite 305  
 Invoice To Contact: Derrick Paul  
 Invoice To Company: National Presto Industries  
 Invoice To Address: 3125 N Hastings Way, Eau Claire  
WI. Send copy of Level IV data  
Pkg to Mary Garrison for validation  
 Invoice To Phone: 715-839-2141

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: <u>Ch Payne</u>	Date/Time: <u>6/10/20 16:00</u>	Received By:	Date/Time:
Relinquished By: <u>Fed Ex</u>	Date/Time: <u>6/11/20 10:00</u>	Received By: <u>Thyrion Cole Pace</u>	Date/Time: <u>6/11/20 10:00</u>
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40209346  
 Receipt Temp = 19.01 °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present  
Intact / Not Intact





Document Name: **Sample Condition Upon Receipt (SCUR)**  
Document No.: **ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** Gannett Fleming  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_

**WO#: 40209346**



**Tracking #:** 8152 5165 2829

**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: ROE /Corr: \_\_\_\_\_

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

**Person examining contents:**  
Date: 6/1/20 Initials: VC  
Labeled By Initials: JL

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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: _____
<b>Short Hold Time Analysis (&lt;72hr):</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
<b>Rush Turn Around Time Requested:</b>	<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. <u>One seal dissolved off in bubble bag</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>6/1/20</u>
Pace Trip Blank Lot # (if purchased):	<u>447</u>	

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

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

June 17, 2020

**Project #34283.000**  
**NPI Q2 MW-51B etc**  
**Reviewed by CCW**  
**6/19/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NPI  
Pace Project No.: 40209450

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40209450

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### **Pace Analytical Services Green Bay**

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.: 40209450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40209450001	MW-51B	Water	06/11/20 08:15	06/12/20 09:20
40209450002	MW-52A	Water	06/11/20 08:25	06/12/20 09:20
40209450003	MW-52A DUP	Water	06/11/20 08:25	06/12/20 09:20
40209450004	MW-52B	Water	06/11/20 08:30	06/12/20 09:20
40209450005	MW-53B	Water	06/11/20 08:40	06/12/20 09:20
40209450006	MW-54B	Water	06/11/20 08:50	06/12/20 09:20
40209450007	MW-54C	Water	06/11/20 08:55	06/12/20 09:20
40209450008	MW-55B	Water	06/11/20 09:05	06/12/20 09:20
40209450009	TRIP BLANK	Water	06/11/20 00:00	06/12/20 09:20

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40209450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40209450001	MW-51B	EPA 8260	HNW	8	PASI-G
40209450002	MW-52A	EPA 8260	HNW	8	PASI-G
40209450003	MW-52A DUP	EPA 8260	HNW	8	PASI-G
40209450004	MW-52B	EPA 8260	HNW	8	PASI-G
40209450005	MW-53B	EPA 8260	HNW	8	PASI-G
40209450006	MW-54B	EPA 8260	HNW	8	PASI-G
40209450007	MW-54C	EPA 8260	HNW	8	PASI-G
40209450008	MW-55B	EPA 8260	HNW	8	PASI-G
40209450009	TRIP BLANK	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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## SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40209450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40209450001</b>	<b>MW-51B</b>					
EPA 8260	1,1,1-Trichloroethane	0.38J	ug/L	1.0	06/15/20 23:34	
EPA 8260	Trichloroethene	3.5	ug/L	1.0	06/15/20 23:34	
<b>40209450002</b>	<b>MW-52A</b>					
EPA 8260	1,1,1-Trichloroethane	0.40J	ug/L	1.0	06/15/20 23:56	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/15/20 23:56	
<b>40209450003</b>	<b>MW-52A DUP</b>					
EPA 8260	1,1,1-Trichloroethane	0.35J	ug/L	1.0	06/16/20 00:17	
EPA 8260	Trichloroethene	2.8	ug/L	1.0	06/16/20 00:17	
<b>40209450004</b>	<b>MW-52B</b>					
EPA 8260	1,1,1-Trichloroethane	0.36J	ug/L	1.0	06/16/20 00:39	
EPA 8260	Trichloroethene	2.7	ug/L	1.0	06/16/20 00:39	
<b>40209450005</b>	<b>MW-53B</b>					
EPA 8260	1,1,1-Trichloroethane	0.32J	ug/L	1.0	06/16/20 01:00	
EPA 8260	Trichloroethene	2.9	ug/L	1.0	06/16/20 01:00	
<b>40209450006</b>	<b>MW-54B</b>					
EPA 8260	1,1,1-Trichloroethane	0.37J	ug/L	1.0	06/16/20 01:22	
EPA 8260	Trichloroethene	3.2	ug/L	1.0	06/16/20 01:22	
<b>40209450007</b>	<b>MW-54C</b>					
EPA 8260	1,1,1-Trichloroethane	0.39J	ug/L	1.0	06/16/20 01:43	
EPA 8260	Trichloroethene	3.4	ug/L	1.0	06/16/20 01:43	
<b>40209450008</b>	<b>MW-55B</b>					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/16/20 02:05	

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## PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40209450

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**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** June 17, 2020

**General Information:**

9 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40209450

**Sample: MW-51B**      **Lab ID: 40209450001**      Collected: 06/11/20 08:15      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.38J</b>	ug/L	1.0	0.24	1		06/15/20 23:34	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/15/20 23:34	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/15/20 23:34	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/15/20 23:34	127-18-4	
Trichloroethene	<b>3.5</b>	ug/L	1.0	0.26	1		06/15/20 23:34	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/15/20 23:34	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/15/20 23:34	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/15/20 23:34	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-52A**      **Lab ID: 40209450002**      Collected: 06/11/20 08:25      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.40J</b>	ug/L	1.0	0.24	1		06/15/20 23:56	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/15/20 23:56	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/15/20 23:56	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/15/20 23:56	127-18-4	
Trichloroethene	<b>2.9</b>	ug/L	1.0	0.26	1		06/15/20 23:56	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		06/15/20 23:56	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/15/20 23:56	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/15/20 23:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-52A DUP**      **Lab ID: 40209450003**      Collected: 06/11/20 08:25      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.35J</b>	ug/L	1.0	0.24	1		06/16/20 00:17	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/16/20 00:17	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/16/20 00:17	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/16/20 00:17	127-18-4	
Trichloroethene	<b>2.8</b>	ug/L	1.0	0.26	1		06/16/20 00:17	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/16/20 00:17	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		06/16/20 00:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/16/20 00:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-52B**      **Lab ID: 40209450004**      Collected: 06/11/20 08:30      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.36J</b>	ug/L	1.0	0.24	1		06/16/20 00:39	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/16/20 00:39	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/16/20 00:39	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/16/20 00:39	127-18-4	
Trichloroethene	<b>2.7</b>	ug/L	1.0	0.26	1		06/16/20 00:39	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/16/20 00:39	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/16/20 00:39	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/16/20 00:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-53B**      **Lab ID: 40209450005**      Collected: 06/11/20 08:40      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.32J</b>	ug/L	1.0	0.24	1		06/16/20 01:00	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/16/20 01:00	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/16/20 01:00	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/16/20 01:00	127-18-4	
Trichloroethene	<b>2.9</b>	ug/L	1.0	0.26	1		06/16/20 01:00	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/16/20 01:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/16/20 01:00	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/16/20 01:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-54B**      **Lab ID: 40209450006**      Collected: 06/11/20 08:50      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.37J</b>	ug/L	1.0	0.24	1		06/16/20 01:22	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/16/20 01:22	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/16/20 01:22	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/16/20 01:22	127-18-4	
Trichloroethene	<b>3.2</b>	ug/L	1.0	0.26	1		06/16/20 01:22	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/16/20 01:22	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/16/20 01:22	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		06/16/20 01:22	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-54C**      **Lab ID: 40209450007**      Collected: 06/11/20 08:55      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.39J</b>	ug/L	1.0	0.24	1		06/16/20 01:43	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/16/20 01:43	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/16/20 01:43	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		06/16/20 01:43	127-18-4	
Trichloroethene	<b>3.4</b>	ug/L	1.0	0.26	1		06/16/20 01:43	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/16/20 01:43	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/16/20 01:43	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/16/20 01:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: MW-55B**      **Lab ID: 40209450008**      Collected: 06/11/20 09:05      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/20 02:05	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/16/20 02:05	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/16/20 02:05	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/16/20 02:05	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.26	1		06/16/20 02:05	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/16/20 02:05	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/16/20 02:05	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/16/20 02:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40209450

**Sample: TRIP BLANK**      **Lab ID: 40209450009**      Collected: 06/11/20 00:00      Received: 06/12/20 09:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/20 23:13	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/15/20 23:13	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/15/20 23:13	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/15/20 23:13	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/15/20 23:13	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/15/20 23:13	460-00-4	HS
Dibromofluoromethane (S)	102	%	70-130		1		06/15/20 23:13	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/15/20 23:13	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40209450

QC Batch:	357607	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40209450001, 40209450002, 40209450003, 40209450004, 40209450005, 40209450006, 40209450007, 40209450008, 40209450009

METHOD BLANK: 2068564 Matrix: Water  
Associated Lab Samples: 40209450001, 40209450002, 40209450003, 40209450004, 40209450005, 40209450006, 40209450007, 40209450008, 40209450009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/15/20 16:03	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/15/20 16:03	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/15/20 16:03	
Tetrachloroethene	ug/L	<0.33	1.1	06/15/20 16:03	
Trichloroethene	ug/L	<0.26	1.0	06/15/20 16:03	
4-Bromofluorobenzene (S)	%	93	70-130	06/15/20 16:03	
Dibromofluoromethane (S)	%	102	70-130	06/15/20 16:03	
Toluene-d8 (S)	%	99	70-130	06/15/20 16:03	

LABORATORY CONTROL SAMPLE: 2068565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	57.4	115	69-163	
1,1-Dichloroethene	ug/L	50	54.5	109	77-123	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Trichloroethene	ug/L	50	53.1	106	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2068902 2068903

Parameter	Units	2068902		2068903		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
1,1,1-Trichloroethane	ug/L	0.38J	50	50	52.8	53.8	105	107	70-130	2	20
1,1-Dichloroethane	ug/L	<0.27	50	50	56.5	57.1	113	114	69-163	1	20
1,1-Dichloroethene	ug/L	<0.24	50	50	55.0	55.1	110	110	77-129	0	20
Tetrachloroethene	ug/L	<0.33	50	50	47.2	47.9	94	95	70-130	2	20
Trichloroethene	ug/L	3.5	50	50	56.1	56.4	105	106	70-130	1	20
4-Bromofluorobenzene (S)	%						107	107	70-130		
Dibromofluoromethane (S)	%						101	103	70-130		
Toluene-d8 (S)	%						98	98	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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## QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40209450

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### 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.

### 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 NPI

Pace Project No.: 40209450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40209450001	MW-51B	EPA 8260	357607		
40209450002	MW-52A	EPA 8260	357607		
40209450003	MW-52A DUP	EPA 8260	357607		
40209450004	MW-52B	EPA 8260	357607		
40209450005	MW-53B	EPA 8260	357607		
40209450006	MW-54B	EPA 8260	357607		
40209450007	MW-54C	EPA 8260	357607		
40209450008	MW-55B	EPA 8260	357607		
40209450009	TRIP BLANK	EPA 8260	357607		

### REPORT OF LABORATORY ANALYSIS

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### Sample Preservation Receipt Form

Client Name: Gannett Fleming

Project # U0209450

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	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																		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																2											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

MLK  
6-12-20

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	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 26Mar2020
	Document No.: <b>ENV-FRM-GBAY-0014-Rev.00</b>	Author: Pace Green Bay Quality Office

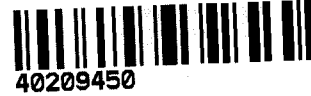
### Sample Condition Upon Receipt Form (SCUR)

Project #: \_\_\_\_\_

Client Name: Bannett Fleming

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

**WO#: 40209450**



Tracking #: 8152 565 2830

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: RO2 /Corr: \_\_\_\_\_

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 if shipped on Dry Ice.

Person examining contents: Date: <u>6-12-20</u> / Initials: <u>MLR</u> Labeled By Initials: <u>JK</u>
---

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>AM or PM Per Time</u> <span style="float: right;"><u>MLR 6-12-20</u></span>
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no year except 069</u> <span style="float: right;"><u>MLR 6-12-20</u></span>
-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>447</u>		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir



September 09, 2020

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

**Project #34283.000**  
**NPI Q3 GW (1 of 1)**  
**Reviewed by CCW**  
**9/9/2020**

RE: Project: 34283.000 NPI  
Pace Project No.: 40213485

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40213485

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40213485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40213485001	EW-6	Water	08/24/20 12:10	08/25/20 12:50
40213485002	MH-18	Water	08/24/20 12:00	08/25/20 12:50
40213485003	MW-10A	Water	08/24/20 10:25	08/25/20 12:50
40213485004	MW-10B	Water	08/24/20 10:30	08/25/20 12:50
40213485005	MW-34A	Water	08/24/20 11:20	08/25/20 12:50
40213485006	MW-34B	Water	08/24/20 11:15	08/25/20 12:50
40213485007	MW-68B	Water	08/24/20 11:45	08/25/20 12:50
40213485008	MW-70A	Water	08/24/20 10:45	08/25/20 12:50
40213485009	MW-70B	Water	08/24/20 10:55	08/25/20 12:50
40213485010	MW-75	Water	08/24/20 11:30	08/25/20 12:50
40213485011	MW-76A	Water	08/24/20 12:25	08/25/20 12:50
40213485012	EW-6 DUP	Water	08/24/20 12:10	08/25/20 12:50
40213485013	TRIP BLANK	Water	08/24/20 00:00	08/25/20 12:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NPI  
Pace Project No.: 40213485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40213485001	EW-6	EPA 8260	LAP	8	PASI-G
40213485002	MH-18	EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40213485003	MW-10A	EPA 6010	TXW	1	PASI-G
40213485004	MW-10B	EPA 6010	TXW	1	PASI-G
40213485005	MW-34A	EPA 6010	TXW	1	PASI-G
40213485006	MW-34B	EPA 6010	TXW	1	PASI-G
40213485007	MW-68B	EPA 6010	TXW	1	PASI-G
40213485008	MW-70A	EPA 8260	LAP	8	PASI-G
40213485009	MW-70B	EPA 6010	TXW	1	PASI-G
40213485010	MW-75	EPA 6010	TXW	1	PASI-G
40213485011	MW-76A	EPA 8260	LAP	8	PASI-G
40213485012	EW-6 DUP	EPA 8260	LAP	8	PASI-G
40213485013	TRIP BLANK	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40213485

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40213485001</b>	<b>EW-6</b>					
EPA 8260	1,1,1-Trichloroethane	1.1	ug/L	1.0	08/26/20 17:16	
EPA 8260	Trichloroethene	0.89J	ug/L	1.0	08/26/20 17:16	
<b>40213485002</b>	<b>MH-18</b>					
EPA 8260	1,1,1-Trichloroethane	0.69J	ug/L	1.0	08/26/20 17:39	
EPA 8260	Trichloroethene	0.67J	ug/L	1.0	08/26/20 17:39	
<b>40213485003</b>	<b>MW-10A</b>					
EPA 6010	Cadmium, Dissolved	23.4	ug/L	5.0	09/08/20 15:57	
<b>40213485005</b>	<b>MW-34A</b>					
EPA 6010	Cadmium, Dissolved	3.9J	ug/L	5.0	09/08/20 16:16	
<b>40213485006</b>	<b>MW-34B</b>					
EPA 6010	Cadmium, Dissolved	2.1J	ug/L	5.0	09/08/20 16:18	
<b>40213485007</b>	<b>MW-68B</b>					
EPA 6010	Cadmium, Dissolved	3.5J	ug/L	5.0	09/08/20 16:20	
<b>40213485008</b>	<b>MW-70A</b>					
EPA 8260	Trichloroethene	0.59J	ug/L	1.0	08/26/20 16:31	
<b>40213485009</b>	<b>MW-70B</b>					
EPA 6010	Cadmium, Dissolved	5.8	ug/L	5.0	09/08/20 16:23	
<b>40213485010</b>	<b>MW-75</b>					
EPA 6010	Cadmium, Dissolved	1.8J	ug/L	5.0	09/08/20 16:25	
<b>40213485012</b>	<b>EW-6 DUP</b>					
EPA 8260	1,1,1-Trichloroethane	1.1	ug/L	1.0	08/26/20 18:01	
EPA 8260	Trichloroethene	0.87J	ug/L	1.0	08/26/20 18:01	

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40213485

---

**Method:** EPA 6010

**Description:** 6010 MET ICP

**Client:** Gannett Fleming Inc.

**Date:** September 09, 2020

**General Information:**

1 sample was analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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.: 40213485

---

**Method:** EPA 6010  
**Description:** 6010 MET ICP, Dissolved  
**Client:** Gannett Fleming Inc.  
**Date:** September 09, 2020

**General Information:**

7 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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.: 40213485

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** September 09, 2020

**General Information:**

6 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40213485

**Sample: EW-6**      **Lab ID: 40213485001**      Collected: 08/24/20 12:10      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.24	1		08/26/20 17:16	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/26/20 17:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/26/20 17:16	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/26/20 17:16	127-18-4	
Trichloroethene	0.89J	ug/L	1.0	0.26	1		08/26/20 17:16	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		08/26/20 17:16	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		08/26/20 17:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/26/20 17:16	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: MH-18**      **Lab ID: 40213485002**      Collected: 08/24/20 12:00      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3010 Pace Analytical Services - Green Bay									
Cadmium	<1.3	ug/L	5.0	1.3	1	08/28/20 06:19	09/02/20 10:28	7440-43-9	
<b>8260 MSV</b>									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.69J</b>	ug/L	1.0	0.24	1		08/26/20 17:39	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		08/26/20 17:39	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		08/26/20 17:39	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		08/26/20 17:39	127-18-4	
Trichloroethene	<b>0.67J</b>	ug/L	1.0	0.26	1		08/26/20 17:39	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/26/20 17:39	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		08/26/20 17:39	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/26/20 17:39	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-10A**      **Lab ID: 40213485003**      Collected: 08/24/20 10:25      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<b>23.4</b>	ug/L	5.0	1.3	1		09/08/20 15:57	7440-43-9	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-10B**      **Lab ID: 40213485004**    Collected: 08/24/20 10:30    Received: 08/25/20 12:50    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		09/08/20 16:11	7440-43-9	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: MW-34A**      **Lab ID: 40213485005**      Collected: 08/24/20 11:20      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Cadmium, Dissolved	<b>3.9J</b>	ug/L	5.0	1.3	1		09/08/20 16:16	7440-43-9	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-34B**      **Lab ID: 40213485006**      Collected: 08/24/20 11:15      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Cadmium, Dissolved	<b>2.1J</b>	ug/L	5.0	1.3	1		09/08/20 16:18	7440-43-9	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-68B**      **Lab ID: 40213485007**      Collected: 08/24/20 11:45      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Cadmium, Dissolved	<b>3.5J</b>	ug/L	5.0	1.3	1		09/08/20 16:20	7440-43-9	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: MW-70A**      **Lab ID: 40213485008**      Collected: 08/24/20 10:45      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/26/20 16:31	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/26/20 16:31	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/26/20 16:31	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/26/20 16:31	127-18-4	
Trichloroethene	0.59J	ug/L	1.0	0.26	1		08/26/20 16:31	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		08/26/20 16:31	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		08/26/20 16:31	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/26/20 16:31	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-70B**      **Lab ID: 40213485009**    Collected: 08/24/20 10:55    Received: 08/25/20 12:50    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	5.8	ug/L	5.0	1.3	1		09/08/20 16:23	7440-43-9	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

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**Sample: MW-75**      **Lab ID: 40213485010**    Collected: 08/24/20 11:30    Received: 08/25/20 12:50    Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<b>1.8J</b>	ug/L	5.0	1.3	1		09/08/20 16:25	7440-43-9	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: MW-76A**      **Lab ID: 40213485011**      Collected: 08/24/20 12:25      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/26/20 16:54	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/26/20 16:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/26/20 16:54	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/26/20 16:54	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/26/20 16:54	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		08/26/20 16:54	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		08/26/20 16:54	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/26/20 16:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: EW-6 DUP**      **Lab ID: 40213485012**      Collected: 08/24/20 12:10      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.24	1		08/26/20 18:01	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/26/20 18:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/26/20 18:01	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/26/20 18:01	127-18-4	
Trichloroethene	0.87J	ug/L	1.0	0.26	1		08/26/20 18:01	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		08/26/20 18:01	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		08/26/20 18:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/26/20 18:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40213485

**Sample: TRIP BLANK**      **Lab ID: 40213485013**      Collected: 08/24/20 00:00      Received: 08/25/20 12:50      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/27/20 11:28	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/27/20 11:28	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/27/20 11:28	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/27/20 11:28	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/27/20 11:28	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		08/27/20 11:28	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		08/27/20 11:28	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/27/20 11:28	2037-26-5	

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40213485

QC Batch: 364075	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213485002

METHOD BLANK: 2104398 Matrix: Water  
Associated Lab Samples: 40213485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	<1.3	5.0	09/02/20 09:45	

LABORATORY CONTROL SAMPLE: 2104399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	500	486	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104400 2104401

Parameter	Units	2104400		2104401		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40213580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cadmium	ug/L	<1.3	500	500	493	489	99	98	75-125	1	20

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40213485

QC Batch: 363898 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40213485001, 40213485002, 40213485008, 40213485011, 40213485012

METHOD BLANK: 2103420 Matrix: Water  
Associated Lab Samples: 40213485001, 40213485002, 40213485008, 40213485011, 40213485012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/26/20 13:54	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/26/20 13:54	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/26/20 13:54	
Tetrachloroethene	ug/L	<0.33	1.1	08/26/20 13:54	
Trichloroethene	ug/L	<0.26	1.0	08/26/20 13:54	
4-Bromofluorobenzene (S)	%	101	70-130	08/26/20 13:54	
Dibromofluoromethane (S)	%	105	70-130	08/26/20 13:54	
Toluene-d8 (S)	%	100	70-130	08/26/20 13:54	

LABORATORY CONTROL SAMPLE: 2103421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	57.6	115	69-163	
1,1-Dichloroethene	ug/L	50	50.3	101	77-123	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	54.9	110	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103422 2103423

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40213485001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	1.1	50	50	52.4	53.2	103	104	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	57.9	58.4	116	117	69-163	1	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	53.0	54.3	106	109	77-129	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	52.1	52.8	104	106	70-130	1	20		
Trichloroethene	ug/L	0.89J	50	50	56.5	56.8	111	112	70-130	0	20		
4-Bromofluorobenzene (S)	%						102	104	70-130				
Dibromofluoromethane (S)	%						107	108	70-130				
Toluene-d8 (S)	%						99	100	70-130				

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### QUALITY CONTROL DATA

Project: 34283.000 NPI  
Pace Project No.: 40213485

QC Batch: 363966	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40213485013

METHOD BLANK: 2103836 Matrix: Water  
Associated Lab Samples: 40213485013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/27/20 08:50	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/27/20 08:50	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/27/20 08:50	
Tetrachloroethene	ug/L	<0.33	1.1	08/27/20 08:50	
Trichloroethene	ug/L	<0.26	1.0	08/27/20 08:50	
4-Bromofluorobenzene (S)	%	102	70-130	08/27/20 08:50	
Dibromofluoromethane (S)	%	106	70-130	08/27/20 08:50	
Toluene-d8 (S)	%	100	70-130	08/27/20 08:50	

LABORATORY CONTROL SAMPLE: 2103837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethane	ug/L	50	58.5	117	69-163	
1,1-Dichloroethene	ug/L	50	52.9	106	77-123	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Trichloroethene	ug/L	50	55.0	110	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104379 2104380

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40213534006 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.2	54.4	106	109	70-130	2	20
1,1-Dichloroethane	ug/L	<1.0	50	50	59.2	59.4	118	119	69-163	0	20
1,1-Dichloroethene	ug/L	<1.0	50	50	54.3	54.7	109	109	77-129	1	20
Tetrachloroethene	ug/L	<1.1	50	50	53.1	53.7	106	107	70-130	1	20
Trichloroethene	ug/L	<1.0	50	50	56.0	57.0	112	114	70-130	2	20
4-Bromofluorobenzene (S)	%						102	102	70-130		
Dibromofluoromethane (S)	%						107	105	70-130		
Toluene-d8 (S)	%						101	100	70-130		

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## QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40213485

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### 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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40213485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40213485002	MH-18	EPA 3010	364075	EPA 6010	364216
40213485003	MW-10A	EPA 6010	364895		
40213485004	MW-10B	EPA 6010	364895		
40213485005	MW-34A	EPA 6010	364895		
40213485006	MW-34B	EPA 6010	364895		
40213485007	MW-68B	EPA 6010	364895		
40213485009	MW-70B	EPA 6010	364895		
40213485010	MW-75	EPA 6010	364895		
40213485001	EW-6	EPA 8260	363898		
40213485002	MH-18	EPA 8260	363898		
40213485008	MW-70A	EPA 8260	363898		
40213485011	MW-76A	EPA 8260	363898		
40213485012	EW-6 DUP	EPA 8260	363898		
40213485013	TRIP BLANK	EPA 8260	363966		

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(Please Print Clearly)

Company Name: *Gannett Fleming*  
 Branch/Location: *Madison, WI*  
 Project Contact: *Cliff Wright*  
 Phone: *608/327-5047*  
 Project Number: *34283.000*  
 Project Name: *NPI*  
 Project State: *WI*  
 Sampled By (Print): *Chelsea Payne*  
 Sampled By (Sign): *Chelsea Payne*



UPPER MIDWEST REGION

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

*40213485*

### 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	Pick Letter	Matrix Codes
<i>N</i>	<i>B</i>	<i>NPI Short List VOLS</i>
<i>Y</i>	<i>D</i>	<i>Dissolved Cadmium</i>
<i>N</i>	<i>D</i>	<i>Total Recoverable Cadmium</i>

Quote #: *Page 2020*  
 Mail To Contact: *Cliff Wright*  
 Mail To Company: *Gannett Fleming*  
 Mail To Address: *8040 Excelsior Dr., Ste 303  
Madison, WI 53717*  
 Invoice To Contact: *Derrick Paul*  
 Invoice To Company: *National Presto Industries*  
 Invoice To Address: *3925 N. Hastings Way  
Eau Claire, WI 54601*  
 Invoice To Phone: *715-839-2141*  
 CLIENT COMMENTS: *Send copy of Level IV data pkg to Mary Gannon for validation*  
 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 WP = Waste Water  
 SI = Sludge

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EW-6	8/24/20	12:10	GW
002	MH-18		12:00	
003	MW-10A		10:25	
004	MW-10B		10:30	
005	MW-34A		11:20	
006	MW-34B		11:15	
007	MW-68B		11:45	
008	MW-70A		16:45	
009	MW-70B		10:55	
010	MW-75		11:30	
011	MW-76A		12:25	
012	EW-6 dup		12:10	
013	Trip Blnk			

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: <i>08/24/20 16:00</i>	Received By:	Date/Time:
Relinquished By: <i>Fed Ex</i>	Date/Time: <i>8/25/20 1250</i>	Received By: <i>Susan Kopp Pace</i>	Date/Time: <i>8/25/20 1250</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:

PACE Project No. *40213485*  
 Receipt Temp = *ROI* °C  
 Sample Receipt pH *OK / Adjusted*  
 Cooler Custody Seal *Present / Not Present (Intact / Not Intact)*







1241 Bellevue Street, Green Bay, WI 54302

Document Name:  
Sample Condition Upon Receipt (SCUR)

Document No.:  
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020

Author:  
Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Project #:

**WO# : 40213485**

40213485

Client Name: Gannett Fleming

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

Tracking #: 8160 7355 0851

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 / ICorr:

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:  
Date: 8/25/20 / Initials: SRK  
Labeled By Initials: [Signature]

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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 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>441</u>		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

December 17, 2020

**Project 34283.000 NPI**  
**Q4 Groundwater**  
**Reviewed by CCW**  
**12/18/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219268

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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.: 40219268

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### **Pace Analytical Services Green Bay**

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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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40219268001	EW-6	Water	12/02/20 12:50	12/03/20 09:45
40219268002	MH-18	Water	12/02/20 12:35	12/03/20 09:45
40219268003	MW-10A	Water	12/02/20 11:15	12/03/20 09:45
40219268004	MW-34A	Water	12/02/20 11:35	12/03/20 09:45
40219268005	MW-68B	Water	12/02/20 12:10	12/03/20 09:45
40219268006	MW-70A	Water	12/02/20 11:30	12/03/20 09:45
40219268007	MW-76A	Water	12/02/20 12:55	12/03/20 09:45
40219268008	MW-76A DUP	Water	12/02/20 12:55	12/03/20 09:45
40219268009	MW-77A	Water	12/02/20 13:25	12/03/20 09:45
40219268010	MW-77B	Water	12/02/20 13:20	12/03/20 09:45
40219268011	RW-3B	Water	12/02/20 08:55	12/03/20 09:45
40219268012	RW-3C	Water	12/02/20 08:50	12/03/20 09:45
40219268013	TRIP BLANK	Water	12/02/20 00:00	12/03/20 09:45
40219268014	EW-6 DUP	Water	12/02/20 12:50	12/03/20 09:45

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219268

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40219268001	EW-6	EPA 8260	LAP	8	PASI-G
40219268002	MH-18	EPA 8260	LAP	8	PASI-G
40219268003	MW-10A	EPA 6010	TXW	1	PASI-G
40219268004	MW-34A	EPA 8260	LAP	8	PASI-G
40219268005	MW-68B	EPA 8260	LAP	8	PASI-G
40219268006	MW-70A	EPA 8260	LAP	8	PASI-G
40219268007	MW-76A	EPA 8260	LAP	8	PASI-G
40219268008	MW-76A DUP	EPA 8260	LAP	8	PASI-G
40219268009	MW-77A	EPA 8260	LAP	8	PASI-G
40219268010	MW-77B	EPA 8260	LAP	8	PASI-G
40219268011	RW-3B	EPA 8260	LAP	8	PASI-G
40219268012	RW-3C	EPA 8260	LAP	8	PASI-G
40219268013	TRIP BLANK	EPA 8260	LAP	8	PASI-G
40219268014	EW-6 DUP	EPA 8260	LAP	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219268

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40219268001</b>	<b>EW-6</b>					
EPA 8260	1,1,1-Trichloroethane	0.82J	ug/L	1.0	12/04/20 10:57	
EPA 8260	Trichloroethene	0.66J	ug/L	1.0	12/04/20 10:57	
<b>40219268002</b>	<b>MH-18</b>					
EPA 8260	1,1,1-Trichloroethane	0.42J	ug/L	1.0	12/04/20 14:07	
EPA 8260	Trichloroethene	0.62J	ug/L	1.0	12/04/20 14:07	
<b>40219268003</b>	<b>MW-10A</b>					
EPA 6010	Cadmium, Dissolved	21.4	ug/L	5.0	12/16/20 16:54	
<b>40219268004</b>	<b>MW-34A</b>					
EPA 8260	1,1-Dichloroethane	0.33J	ug/L	1.0	12/04/20 11:21	
<b>40219268005</b>	<b>MW-68B</b>					
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	12/04/20 11:44	
<b>40219268006</b>	<b>MW-70A</b>					
EPA 8260	Trichloroethene	0.46J	ug/L	1.0	12/04/20 12:08	
<b>40219268007</b>	<b>MW-76A</b>					
EPA 8260	1,1,1-Trichloroethane	0.95J	ug/L	1.0	12/04/20 12:32	
<b>40219268008</b>	<b>MW-76A DUP</b>					
EPA 8260	1,1,1-Trichloroethane	0.91J	ug/L	1.0	12/04/20 12:55	
<b>40219268010</b>	<b>MW-77B</b>					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	12/04/20 14:30	
<b>40219268011</b>	<b>RW-3B</b>					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	12/04/20 13:43	
<b>40219268012</b>	<b>RW-3C</b>					
EPA 8260	Trichloroethene	3.2	ug/L	1.0	12/04/20 14:54	
<b>40219268014</b>	<b>EW-6 DUP</b>					
EPA 8260	1,1,1-Trichloroethane	0.80J	ug/L	1.0	12/04/20 15:18	
EPA 8260	Trichloroethene	0.82J	ug/L	1.0	12/04/20 15:18	

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

---

**Method:** EPA 6010

**Description:** 6010 MET ICP, Dissolved

**Client:** Gannett Fleming Inc.

**Date:** December 17, 2020

**General Information:**

1 sample was analyzed for EPA 6010 by Pace Analytical Services Green Bay. 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.: 40219268

---

**Method:** EPA 8260

**Description:** 8260 MSV

**Client:** Gannett Fleming Inc.

**Date:** December 17, 2020

**General Information:**

13 samples were analyzed for EPA 8260 by Pace Analytical Services Green Bay. 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.: 40219268

**Sample: EW-6**      **Lab ID: 40219268001**      Collected: 12/02/20 12:50      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.82J</b>	ug/L	1.0	0.24	1		12/04/20 10:57	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		12/04/20 10:57	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		12/04/20 10:57	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		12/04/20 10:57	127-18-4	
Trichloroethene	<b>0.66J</b>	ug/L	1.0	0.26	1		12/04/20 10:57	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/04/20 10:57	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		12/04/20 10:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/04/20 10:57	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MH-18**      **Lab ID: 40219268002**      Collected: 12/02/20 12:35      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.42J</b>	ug/L	1.0	0.24	1		12/04/20 14:07	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		12/04/20 14:07	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		12/04/20 14:07	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		12/04/20 14:07	127-18-4	
Trichloroethene	<b>0.62J</b>	ug/L	1.0	0.26	1		12/04/20 14:07	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/04/20 14:07	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		12/04/20 14:07	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/04/20 14:07	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

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**Sample: MW-10A**      **Lab ID: 40219268003**      Collected: 12/02/20 11:15      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Pace Analytical Services - Green Bay								
Cadmium, Dissolved	<b>21.4</b>	ug/L	5.0	1.3	1		12/16/20 16:54	7440-43-9	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-34A**      **Lab ID: 40219268004**      Collected: 12/02/20 11:35      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 11:21	71-55-6	
1,1-Dichloroethane	0.33J	ug/L	1.0	0.27	1		12/04/20 11:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 11:21	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 11:21	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/20 11:21	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/04/20 11:21	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/04/20 11:21	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/04/20 11:21	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-68B**      **Lab ID: 40219268005**      Collected: 12/02/20 12:10      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 11:44	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 11:44	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 11:44	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 11:44	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.26	1		12/04/20 11:44	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/04/20 11:44	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/04/20 11:44	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/04/20 11:44	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-70A**      **Lab ID: 40219268006**      Collected: 12/02/20 11:30      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 12:08	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 12:08	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 12:08	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 12:08	127-18-4	
Trichloroethene	0.46J	ug/L	1.0	0.26	1		12/04/20 12:08	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/04/20 12:08	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/04/20 12:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/04/20 12:08	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-76A**      **Lab ID: 40219268007**      Collected: 12/02/20 12:55      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.95J</b>	ug/L	1.0	0.24	1		12/04/20 12:32	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		12/04/20 12:32	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		12/04/20 12:32	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		12/04/20 12:32	127-18-4	
Trichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		12/04/20 12:32	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/04/20 12:32	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/04/20 12:32	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/04/20 12:32	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-76A DUP**      **Lab ID: 40219268008**      Collected: 12/02/20 12:55      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.91J</b>	ug/L	1.0	0.24	1		12/04/20 12:55	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		12/04/20 12:55	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		12/04/20 12:55	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		12/04/20 12:55	127-18-4	
Trichloroethene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		12/04/20 12:55	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		12/04/20 12:55	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		12/04/20 12:55	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/04/20 12:55	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-77A**      **Lab ID: 40219268009**      Collected: 12/02/20 13:25      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 13:19	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 13:19	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 13:19	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 13:19	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/20 13:19	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/04/20 13:19	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/04/20 13:19	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/04/20 13:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: MW-77B**      **Lab ID: 40219268010**      Collected: 12/02/20 13:20      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 14:30	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 14:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 14:30	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 14:30	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.26	1		12/04/20 14:30	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/04/20 14:30	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/04/20 14:30	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/04/20 14:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: RW-3B**      **Lab ID: 40219268011**      Collected: 12/02/20 08:55      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 13:43	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 13:43	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 13:43	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 13:43	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.26	1		12/04/20 13:43	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/04/20 13:43	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		12/04/20 13:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/04/20 13:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219268

**Sample: RW-3C**      **Lab ID: 40219268012**      Collected: 12/02/20 08:50      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 14:54	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 14:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 14:54	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 14:54	127-18-4	
Trichloroethene	3.2	ug/L	1.0	0.26	1		12/04/20 14:54	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/04/20 14:54	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/04/20 14:54	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/04/20 14:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: TRIP BLANK**      **Lab ID: 40219268013**      Collected: 12/02/20 00:00      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/04/20 10:09	71-55-6	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/04/20 10:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/04/20 10:09	75-35-4	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/04/20 10:09	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/04/20 10:09	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/04/20 10:09	460-00-4	HS
Dibromofluoromethane (S)	101	%	70-130		1		12/04/20 10:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/04/20 10:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

**Sample: EW-6 DUP**      **Lab ID: 40219268014**      Collected: 12/02/20 12:50      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1-Trichloroethane	<b>0.80J</b>	ug/L	1.0	0.24	1		12/04/20 15:18	71-55-6	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		12/04/20 15:18	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		12/04/20 15:18	75-35-4	
Tetrachloroethene	<b>&lt;0.33</b>	ug/L	1.1	0.33	1		12/04/20 15:18	127-18-4	
Trichloroethene	<b>0.82J</b>	ug/L	1.0	0.26	1		12/04/20 15:18	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/04/20 15:18	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/04/20 15:18	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/04/20 15:18	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219268

QC Batch: 373982

Analysis Method: EPA 6010

QC Batch Method: EPA 6010

Analysis Description: ICP Metals, Trace, Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219268003

METHOD BLANK: 2161232

Matrix: Water

Associated Lab Samples: 40219268003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	12/16/20 16:08	

LABORATORY CONTROL SAMPLE: 2161233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	487	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2161235 2161236

Parameter	Units	2161235		2161236		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40219261001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Cadmium, Dissolved	ug/L	<1.3	500	500	530	502	106	100	75-125	6	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 NATIONAL PRESTO IND.  
Pace Project No.: 40219268

QC Batch:	372948	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40219268001, 40219268002, 40219268004, 40219268005, 40219268006, 40219268007, 40219268008, 40219268009, 40219268010, 40219268011, 40219268012, 40219268013, 40219268014

METHOD BLANK: 2155744 Matrix: Water  
Associated Lab Samples: 40219268001, 40219268002, 40219268004, 40219268005, 40219268006, 40219268007, 40219268008, 40219268009, 40219268010, 40219268011, 40219268012, 40219268013, 40219268014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/04/20 07:47	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/04/20 07:47	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/04/20 07:47	
Tetrachloroethene	ug/L	<0.33	1.1	12/04/20 07:47	
Trichloroethene	ug/L	<0.26	1.0	12/04/20 07:47	
4-Bromofluorobenzene (S)	%	92	70-130	12/04/20 07:47	
Dibromofluoromethane (S)	%	105	70-130	12/04/20 07:47	
Toluene-d8 (S)	%	102	70-130	12/04/20 07:47	

LABORATORY CONTROL SAMPLE: 2155745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	69-163	
1,1-Dichloroethene	ug/L	50	52.5	105	77-123	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2155746 2155747

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40219268001 Result	Spike Conc.	Spike Conc.	Result						
1,1,1-Trichloroethane	ug/L	0.82J	50	50	56.6	59.9	112	118	70-130	6	20
1,1-Dichloroethane	ug/L	<0.27	50	50	55.6	57.8	111	116	69-163	4	20
1,1-Dichloroethene	ug/L	<0.24	50	50	52.3	56.4	105	113	77-129	8	20
Tetrachloroethene	ug/L	<0.33	50	50	52.8	52.4	106	105	70-130	1	20
Trichloroethene	ug/L	0.66J	50	50	56.6	56.7	112	112	70-130	0	20
4-Bromofluorobenzene (S)	%						104	102	70-130		
Dibromofluoromethane (S)	%						100	107	70-130		
Toluene-d8 (S)	%						104	101	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.: 40219268

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### 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.

### 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 IND.  
Pace Project No.: 40219268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40219268003	MW-10A	EPA 6010	373982		
40219268001	EW-6	EPA 8260	372948		
40219268002	MH-18	EPA 8260	372948		
40219268004	MW-34A	EPA 8260	372948		
40219268005	MW-68B	EPA 8260	372948		
40219268006	MW-70A	EPA 8260	372948		
40219268007	MW-76A	EPA 8260	372948		
40219268008	MW-76A DUP	EPA 8260	372948		
40219268009	MW-77A	EPA 8260	372948		
40219268010	MW-77B	EPA 8260	372948		
40219268011	RW-3B	EPA 8260	372948		
40219268012	RW-3C	EPA 8260	372948		
40219268013	TRIP BLANK	EPA 8260	372948		
40219268014	EW-6 DUP	EPA 8260	372948		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

**Company Name:** Gannett Fleming, Inc.  
**Branch/Location:** Madison, WI  
**Project Contact:** Cliff Wright  
**Phone:** 608/327-5047  
**Project Number:** 34283.000  
**Project Name:** National Presto Industries (NPI)  
**Project State:** WI  
**Sampled By (Print):** Cliff Wright  
**Sampled By (Sign):** CW  
**PO #:** **Regulatory Program:**



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

**COC No.** 40219268

### 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																
<b>Analyses Requested</b>																		
	<b>NPI Short-list VOCs</b>																	
		<b>Dissolved cadmium (Cd)</b>																

**Quote #:** Pace 2020  
**Mail To Contact:** Cliff Wright  
**Mail To Company:** Gannett Fleming  
**Mail To Address:** 8040 Excelsior Dr. Suite 303, Madison, WI 53717  
**Invoice To Contact:** Derrick Paul  
**Invoice To Company:** National Presto Industries  
**Invoice To Address:** 3925 N Hastings Way, Eau Claire, WI. And send copy of Level IV data pkg. to Mary Gannon for validation.  
**Invoice To Phone:** 715/839-2141

**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	Y											
		DATE	TIME															
001	EW-6 and EW-6 Dup	12/20	12:50	GW		9												
002	MH-18		12:35	"		3												
003	MW-10A		11:15	"		1												
004	MW-34A		11:35	"		3												
005	MW-68B		12:10	"		3												
006	MW-70A		11:30	"		3												
007	MW-76A		12:55	"		3												
008	MW-76A Dup		"	"		3												
009	MW-77A		13:25	"		3												
010	MW-77B		13:20	"		3												
011	RW-3B		09:55	"		3												
012	RW-3C		09:50	"		3												
013	Trip blank			W		2												

**CLIENT COMMENTS**  
MS/MSD on EW-6

**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:

Relinquished By: *Cliff Wright* Date/Time: 12/2/2020 16:30  
 Relinquished By: *Fedex* Date/Time: 12/3/20 09:45  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: *[Signature]* Date/Time: 12/3/20 09:45  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**PACE Project No.** 40219268  
 Receipt Temp = *ROT* °C  
 Sample Receipt pH (OK) Adjusted  
**Cooler Custody Seal**  
 Present / Not Present  
 Intact / Not Intact







1241 Bellevue Street, Green Bay, WI 54302

Document Name:  
Sample Condition Upon Receipt (SCUR)

Document Revised: 26Mar2020

Document No.:  
ENV-FRM-GBAY-0014-Rev.00

Author:  
Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Client Name: Cornet Fleming

Project #: \_\_\_\_\_

**WO#: 40219268**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 8160 7354 8300

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: ROT / Corr: \_\_\_\_\_

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 if shipped on Dry Ice.

Person examining contents:  
Date: 12/3/20 / Initials: MF  
Labeled By Initials: MR

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:	For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" 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	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. <u>12/3/20</u>
Sample Labels match COC: <u>MR 17-3-20</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>017 CD: ID "RW-36"</u> <u>MR 17-3-20</u>
-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>455</u>		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample logir

December 16, 2020

**Project #34283.000 NPI**  
**Q4 ECMWF**  
**Reviewed by CCW**  
**12/17/2020**

Clifford Wright  
Gannett Fleming  
8040 Excelsior Drive, Ste 303  
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219272

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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.: 40219272

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### **Pace Analytical Services - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01\*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

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

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605\*

Georgia Certification #: 959

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 #: AI-03086\*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064\*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

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

Missouri Certification #: 10100

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 Primary 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\*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163\*

Washington Certification #: C486\*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

\*Please Note: Applicable air certifications are denoted with an asterisk (\*).

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40219272001	CW-19	Water	12/02/20 08:20	12/03/20 09:45
40219272002	CW-22	Water	12/02/20 08:30	12/03/20 09:45
40219272003	CW-23	Water	12/02/20 08:25	12/03/20 09:45
40219272004	RAW	Water	12/02/20 08:05	12/03/20 09:45
40219272005	TOWER A	Water	12/02/20 08:10	12/03/20 09:45
40219272006	TOWER B	Water	12/02/20 08:07	12/03/20 09:45
40219272007	FINISHED PRODUCT	Water	12/02/20 07:50	12/03/20 09:45
40219272008	TRIP BLANK	Water	12/02/20 00:00	12/03/20 09:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40219272001	CW-19	EPA 524.2	AEZ	8	PASI-M
40219272002	CW-22	EPA 524.2	AEZ	8	PASI-M
40219272003	CW-23	EPA 524.2	AEZ	8	PASI-M
40219272004	RAW	EPA 524.2	AEZ	8	PASI-M
40219272005	TOWER A	EPA 524.2	AEZ	8	PASI-M
40219272006	TOWER B	EPA 524.2	AEZ	8	PASI-M
40219272007	FINISHED PRODUCT	EPA 524.2	AEZ	8	PASI-M
40219272008	TRIP BLANK	EPA 524.2	AEZ	8	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.  
Pace Project No.: 40219272

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40219272001</b>	<b>CW-19</b>					
EPA 524.2	Trichloroethene	0.26J	ug/L	0.39	12/11/20 16:12	
<b>40219272002</b>	<b>CW-22</b>					
EPA 524.2	Trichloroethene	1.7	ug/L	0.39	12/11/20 16:36	
<b>40219272003</b>	<b>CW-23</b>					
EPA 524.2	Trichloroethene	0.26J	ug/L	0.39	12/11/20 16:59	
<b>40219272004</b>	<b>RAW</b>					
EPA 524.2	Trichloroethene	1.0	ug/L	0.39	12/11/20 17:23	
<b>40219272005</b>	<b>TOWER A</b>					
EPA 524.2	Trichloroethene	0.23J	ug/L	0.39	12/11/20 17:47	
<b>40219272006</b>	<b>TOWER B</b>					
EPA 524.2	Trichloroethene	0.28J	ug/L	0.39	12/11/20 18:11	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

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**Method:** EPA 524.2

**Description:** 524.2 MSV

**Client:** Gannett Fleming Inc.

**Date:** December 16, 2020

**General Information:**

8 samples were analyzed for EPA 524.2 by Pace Analytical Services Minneapolis. 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.: 40219272

**Sample: CW-19**      **Lab ID: 40219272001**      Collected: 12/02/20 08:20      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 16:12	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 16:12	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 16:12	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 16:12	71-55-6	
Trichloroethene	0.26J	ug/L	0.39	0.12	1		12/11/20 16:12	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	75-125		1		12/11/20 16:12	460-00-4	
Toluene-d8 (S)	106	%	75-125		1		12/11/20 16:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	75-125		1		12/11/20 16:12	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: CW-22**      **Lab ID: 40219272002**      Collected: 12/02/20 08:30      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 16:36	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 16:36	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 16:36	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 16:36	71-55-6	
Trichloroethene	1.7	ug/L	0.39	0.12	1		12/11/20 16:36	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	75-125		1		12/11/20 16:36	460-00-4	
Toluene-d8 (S)	109	%	75-125		1		12/11/20 16:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	75-125		1		12/11/20 16:36	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: CW-23**      **Lab ID: 40219272003**      Collected: 12/02/20 08:25      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 16:59	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 16:59	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 16:59	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 16:59	71-55-6	
Trichloroethene	0.26J	ug/L	0.39	0.12	1		12/11/20 16:59	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	75-125		1		12/11/20 16:59	460-00-4	
Toluene-d8 (S)	105	%	75-125		1		12/11/20 16:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	75-125		1		12/11/20 16:59	17060-07-0	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: RAW**      **Lab ID: 40219272004**      Collected: 12/02/20 08:05      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 17:23	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 17:23	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 17:23	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 17:23	71-55-6	
Trichloroethene	1.0	ug/L	0.39	0.12	1		12/11/20 17:23	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	75-125		1		12/11/20 17:23	460-00-4	
Toluene-d8 (S)	108	%	75-125		1		12/11/20 17:23	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	75-125		1		12/11/20 17:23	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: TOWER A**      **Lab ID: 40219272005**      Collected: 12/02/20 08:10      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 17:47	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 17:47	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 17:47	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 17:47	71-55-6	
Trichloroethene	<b>0.23J</b>	ug/L	0.39	0.12	1		12/11/20 17:47	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	75-125		1		12/11/20 17:47	460-00-4	
Toluene-d8 (S)	104	%	75-125		1		12/11/20 17:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		12/11/20 17:47	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: TOWER B**      **Lab ID: 40219272006**      Collected: 12/02/20 08:07      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 18:11	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 18:11	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 18:11	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 18:11	71-55-6	
Trichloroethene	0.28J	ug/L	0.39	0.12	1		12/11/20 18:11	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	75-125		1		12/11/20 18:11	460-00-4	
Toluene-d8 (S)	107	%	75-125		1		12/11/20 18:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	75-125		1		12/11/20 18:11	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: FINISHED PRODUCT**      **Lab ID: 40219272007**      Collected: 12/02/20 07:50      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 18:35	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 18:35	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 18:35	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 18:35	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/11/20 18:35	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	75-125		1		12/11/20 18:35	460-00-4	
Toluene-d8 (S)	104	%	75-125		1		12/11/20 18:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	75-125		1		12/11/20 18:35	17060-07-0	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

**Sample: TRIP BLANK**      **Lab ID: 40219272008**      Collected: 12/02/20 00:00      Received: 12/03/20 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Minneapolis									
1,1-Dichloroethane	<0.16	ug/L	0.55	0.16	1		12/11/20 13:49	75-34-3	
1,1-Dichloroethene	<0.19	ug/L	0.62	0.19	1		12/11/20 13:49	75-35-4	
Tetrachloroethene	<0.17	ug/L	0.56	0.17	1		12/11/20 13:49	127-18-4	
1,1,1-Trichloroethane	<0.19	ug/L	0.62	0.19	1		12/11/20 13:49	71-55-6	
Trichloroethene	<0.12	ug/L	0.39	0.12	1		12/11/20 13:49	79-01-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	75-125		1		12/11/20 13:49	460-00-4	
Toluene-d8 (S)	107	%	75-125		1		12/11/20 13:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	75-125		1		12/11/20 13:49	17060-07-0	

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### QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

QC Batch: 715604 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Laboratory: Pace Analytical Services - Minneapolis  
 Associated Lab Samples: 40219272001, 40219272002, 40219272003, 40219272004, 40219272005, 40219272006, 40219272007, 40219272008

METHOD BLANK: 3819317 Matrix: Water  
 Associated Lab Samples: 40219272001, 40219272002, 40219272003, 40219272004, 40219272005, 40219272006, 40219272007, 40219272008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.19	0.62	12/11/20 13:25	
1,1-Dichloroethane	ug/L	<0.16	0.55	12/11/20 13:25	
1,1-Dichloroethene	ug/L	<0.19	0.62	12/11/20 13:25	
Tetrachloroethene	ug/L	<0.17	0.56	12/11/20 13:25	
Trichloroethene	ug/L	<0.12	0.39	12/11/20 13:25	
1,2-Dichloroethane-d4 (S)	%	109	75-125	12/11/20 13:25	
4-Bromofluorobenzene (S)	%	99	75-125	12/11/20 13:25	
Toluene-d8 (S)	%	107	75-125	12/11/20 13:25	

LABORATORY CONTROL SAMPLE: 3819318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	20.8	104	70-130	
1,1-Dichloroethene	ug/L	20	22.3	112	70-130	
Tetrachloroethene	ug/L	20	22.0	110	70-130	
Trichloroethene	ug/L	20	21.3	107	70-130	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			96	75-125	
Toluene-d8 (S)	%			108	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3823377 3823378

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10542494001 Result	Spike Conc.	Spike Conc.	Result						
1,1,1-Trichloroethane	ug/L	<0.19	20	20	19.5	19.1	98	96	70-130	2	20
1,1-Dichloroethane	ug/L	<0.16	20	20	18.2	17.6	91	88	70-130	4	20
1,1-Dichloroethene	ug/L	<0.19	20	20	22.1	20.5	111	102	70-130	8	20
Tetrachloroethene	ug/L	<0.17	20	20	20.2	22.6	101	113	70-130	11	20
Trichloroethene	ug/L	<0.12	20	20	21.4	21.5	107	107	70-130	1	20
1,2-Dichloroethane-d4 (S)	%						98	98	75-125		
4-Bromofluorobenzene (S)	%						97	99	75-125		
Toluene-d8 (S)	%						97	103	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 NATIONAL PRESTO IND.

Pace Project No.: 40219272

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### 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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40219272

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40219272001	CW-19	EPA 524.2	715604		
40219272002	CW-22	EPA 524.2	715604		
40219272003	CW-23	EPA 524.2	715604		
40219272004	RAW	EPA 524.2	715604		
40219272005	TOWER A	EPA 524.2	715604		
40219272006	TOWER B	EPA 524.2	715604		
40219272007	FINISHED PRODUCT	EPA 524.2	715604		
40219272008	TRIP BLANK	EPA 524.2	715604		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming, Inc.  
 Branch/Location: Madison, WI  
 Project Contact: Cliff Wright  
 Phone: 608/327-5047  
 Project Number: 34283.000  
 Project Name: National Presto Industries (NPI)  
 Project State: WI  
 Sampled By (Print): Cliff Wright  
 Sampled By (Sign): *CW*  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



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

COC No. **40219272**

### 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																				
Pick Letter	B																				
Analyses Requested	NPI Short-list VOCs:524:2																				

Quote #: Pace 2020  
 Mail To Contact: Cliff Wright  
 Mail To Company: Gannett Fleming  
 Mail To Address: 8040 Excelsior Dr., Suite 303 Madison, WI 53717  
 Invoice To Contact: Derrick Paul  
 Invoice To Company: National Presto Industries  
 Invoice To Address: 3925 N Hastings Way, Eau Claire, WI. And send copy of Level IV data pkg. to Mary Gannon for validation.  
 Invoice To Phone: 715/839-2141

**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  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	Analyses Requested	NPI Short-list VOCs:524:2												
		DATE	TIME																	
	<del>Offline CW-15</del>	12/2/20		DW																
001	CW-19		0820	"																
002	CW-22		0830	"																
003	CW-23		0825	"																
004	Raw		0905	"																
005	Tower A		0810	"																
006	Tower B		0807	"																
007	Finished product		0750	"																
008	Trip blank			W																

**CLIENT COMMENTS**  
 Not operating

**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: *Cliff Wright* Date/Time: 12/2/2020 1630  
 Relinquished By: *Fedex* Date/Time: 12/3/20 0945  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: *[Signature]* Date/Time: 12/3/20 0945  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

PACE Project No. **40219272**  
 Receipt Temp = *ROT* °C  
 Sample Receipt pH  
 OK / Adjusted  
 Cooler Custody Seal  
 Present / Not Present  
 Intact / Not Intact

### Sample Preservation Receipt Form

Project # 4029272

Client Name: Coanet Fleming

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	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	WG9U	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																	2.5 / 5 / 10
005																3																	2.5 / 5 / 10
006																3																	2.5 / 5 / 10
007																3																	2.5 / 5 / 10
008																2																	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

2 mL  
 12-3-20  
 12/3/20  
 VP

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
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4


VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JG9U	9 oz amber jar unpres
WG9U	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

**Sample Condition Upon Receipt Form (SCUR)**

Project #: \_\_\_\_\_

**WO#: 40219272**



40219272

**Client Name:** Cornet Fleming

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 8160 7354 8300

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: ROT /Corr: \_\_\_\_\_

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

**Person examining contents:**

Date: 12/3/20 /Initials: MF

Labeled By Initials: SRK

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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>455</u>		

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

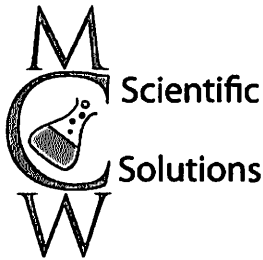
Comments/ Resolution: \_\_\_\_\_

**APPENDIX C (available upon request)**

**TEXT OF THE 2020 ANALYTICAL DATA VALIDATION REPORTS**

Presto Site Data Validation Technical Memorandum

March and April 2020 Sampling Event



Technical memorandum

DATE: May 20, 2020

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 and April 2020 Quarterly Groundwater Sampling Event

Project#: 34283

*Mary C Gannon*  
*5/20/20*

## 1.0 OVERVIEW

Analytical results (8260 volatiles, and 6010 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 March 26 and April 27, 2020, 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.

### **DQO Attainment**

All dissolved cadmium data and 8260 results are 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.



## Presto Site Data Validation Technical Memorandum

March and April 2020 Sampling Event

**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.

**2.2.5 MS/MSD Sample Recovery and RPD**

The two samples analyzed did not have an MS/MSD. A batch MS/MSD was run at appropriate intervals. No action was needed to qualify sample data.

## Presto Site Data Validation Technical Memorandum

March and April 2020 Sampling Event

### 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 on the 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

Pace utilized EPA method 8260B 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 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.

#### 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 2/6/20 and 4/14/20 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.

## Presto Site Data Validation Technical Memorandum

March and April 2020 Sampling Event

**3.2.3 Continuing Calibration**

A continuing calibration standard (CCAL) was analyzed according to methods 8260B 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. No action was needed to qualify sample data.

**3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)**

No project sample was specified or analyzed for method 8260B MS/MSD. A batch MS/MSD was analyzed. 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.

**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**

Two 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-76A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-76A	MW-76A Dup	RPD
Trichloroethene	0.30 J ug/L	0.37 J ug/L	21%
1,1,1-trichloroethane	0.34 J ug/L	0.28 J ug/L	19%
Tetrachloroethane	0.43 J ug/L	0.37J ug/L	15%

Presto Site Data Validation Technical Memorandum

March and April 2020 Sampling Event

All RPD values at or above the reporting limit were within 50% as specified on QAPP Worksheet #12. No data will be qualified based on field duplicate data.

**3.3 Data Usability**

All volatiles 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 March April 2020**

	Volatiles	Dissolved
	SW846	Cadmium
SAMPLE ID	8260B	6010
<b>MH-18</b>	✓	
<b>EW-6</b>	✓	
<b>Trip Blank</b>	✓	
<b>MW-10A</b>		✓
<b>MW-34A</b>		✓
<b>MW-70A</b>	✓	
<b>MW-76A</b>	✓	
<b>MW-76A DUP</b>	✓	
<b>TRIP BLANK</b>	✓	
<b>Total</b>	<b>7</b>	<b>2</b>

## Presto Site Data Validation Technical Memorandum

June 2020 Sampling Event



Technical memorandum

DATE: July 2, 2020

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 2020 Quarterly Groundwater Sampling Event

Project#: 34283

*Mary C. Gannon*  
7/2/20

## 1.0 OVERVIEW

Analytical results (8260,524.2 volatiles and, 6010 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 8-11, 2020 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

Tetrachloroethene had a percent difference of 30% for one CCV in SDG 40209194. No tetrachloroethene was detected in any of the samples. Based on the "National Functional Guidelines for Superfund Organic Methods Data Review," dated January 2017 all samples in this SDG will have tetrachloroethene qualified with a "UJ," estimated non-detect.

## Presto Site Data Validation Technical Memorandum

June 2020 Sampling Event

All dissolved cadmium data are 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**

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 six months, method required holding time. Verification of sample pH upon receipt/analysis indicated that all samples that required preservation were adequately preserved to pH < 2. The 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

June 2020 Sampling Event

**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. 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. The chain of custody for SDG 40209194 included samples EC-1 DUP AP and EC-6 DUP AP, but they were canceled per Dan Milewsky PACE project manager. The trip blank from SDG 40209224 was reported in SDG 40209194 per client request.

**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.

The 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

June 2020 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 6/10/20, 5/28/20, and 5/8/20 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 seven to nine point initial calibration for method 524.2 was analyzed on 6/5/20. 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 continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. Most 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. Tetrachloroethene had a percent difference of 30% for one CCV in SDG 40209194. No tetrachloroethene was detected in any of the samples. Based on the "National Functional Guidelines for Superfund Organic Methods Data Review," dated January 2017, all samples in this SDG will have tetrachloroethene qualified with a "UJ," estimated non-detect.

### 3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples for method 8260B. One method blank analyzed with project samples for method 524.2 had trichloroethene detected above the LOD. Samples Tower B and FP were the only samples reported from this batch, and both were ND for trichloroethene; therefore, no qualification was necessary. 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 MW-51B, MH-18, and EW-6. 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

## June 2020 Sampling Event

Project samples used for method 524.2 analysis MS/MSD were CW-19 and CW-22. 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.

## 3.2.7 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

Four trip blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data. The trip blanks received with samples in SDG 40209450, 410209346, 40209225 and, 40209194 had headspace in the vial and have been qualified with "HS" by the laboratory. The trip blank from SDG 40209224 was reported in SDG 40209194 per client request.

Field duplicates were collected MW-52A, EW-6, MW-38B, EC-1, and, RW-3A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-52A	MW-52A Dup	RPD	EW-6	EW-6 DUP	RPD
Trichloroethene	2.9 ug/L	2.8 ug/L	3.5%	0.79 J ug/L	0.70 J ug/L	12%
1,1,1-trichloroethane	0.40 J ug/L	0.35 J ug/L	13%	1.1 ug/L	0.96 J ug/L	14%

Sample ID	MW-38B	MW-38B DUP	RPD	EC-1	EC-1 DUP	RPD
Trichloroethene	2.9 ug/L	2.9 ug/L	0%	0.92 J ug/L	0.94 J ug/L	2.2%
1,1,1-trichloroethane	0.44 J ug/L	0.45 J ug/L	2.2%	ND	ND	0%

Sample ID	RW-3A	RW-3A DUP	RPD
Trichloroethene	1.8 ug/L	1.9 ug/L	5.4%
1,1,1-trichloroethane	ND	ND	0%

Presto Site Data Validation Technical Memorandum

June 2020 Sampling Event

All RPD values were within 50%, as specified on QAPP Worksheet #12. No action was needed to qualify sample data.

**3.3 Data Usability**

Tetrachloroethene had a percent difference of 30% for one CCV in SDG 40209194. No tetrachloroethene was detected in any of the samples. Based on the "National Functional Guidelines for Superfund Organic Methods Data Review," dated January 2017, all samples in this SDG will have tetrachloroethene qualified with a "UJ," estimated non-detect.

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)

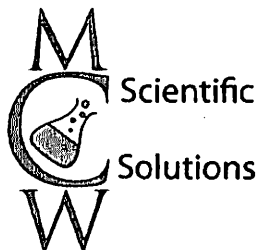
cc: Gannett Fleming, Inc.

Table 1 Sample Results Validated June 2020

SAMPLE ID	Volatiles	SAMPLE ID	Volatiles	Dissolved Cadmium 6010	SAMPLE ID	Volatiles
	SW846 8260B		SW846 8260B			524.2
MW-51B	✓	MW-4B	✓		CW-15	✓
MW-52A	✓	MW-10A		✓	CW-19	✓
MW-52A DUP	✓	MW-34A	✓		CW-22	✓
MW-52B	✓	MW-68A	✓		CW-23	✓
MW-53B	✓	MW-68B	✓		TOWER A	✓
MW-54B	✓	MW-70A	✓		TOWER B	✓
MW-54C	✓	MW-76A	✓		RAW	✓
MW-55B	✓	MW-76A DUP	✓		FP	✓
TRIP BLANK	✓	MW-77A	✓			
RW-2A	✓	MW-77B	✓			
RW-2B	✓	MW-77C	✓			
RW-2C	✓	WW-15	✓			
MW-23A	✓	RW-15	✓			
MW-23B	✓	MW-38A	✓			
MW-41A	✓	MW-38B	✓			
MW-41B	✓	MW-38B DUP	✓			
MW-43A	✓	MW-38C	✓			
MW-43B	✓	EC-1	✓			
TRIP BLANK	✓	EC-1 DUP	✓			
MH-18	✓	EC-6	✓			
EW-6	✓	RW-3A	✓			
EW-6 DUP	✓	RW-3A DUP	✓			
TRIP BLANK	✓	RW-3B	✓			
MW-5A	✓	RW-3C	✓			
MW-62AR	✓	RW-16	✓			
MW-62B	✓	RW-16B	✓			
MW-63A	✓	RW-16C	✓			
MW-65B	✓	MW-35A	✓			
MW-65C	✓	MW-35B	✓			
MW-66B	✓	TRIP BLANK	✓			
	30		29	1		8

Presto Site Data Validation Technical Memorandum

August 2020 Sampling Event



Technical memorandum

DATE: October 7, 2020

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 2020 Quarterly Groundwater Sampling Event

Project#: 34283

*Mary C. Gannon*  
10/7/20

**1.0 OVERVIEW**

Analytical results (8260volatiles, and 6010 dissolved and total recoverable cadmium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. on August 24, 2020, 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.

**DQO Attainment**

All dissolved and total recoverable cadmium data and 8260 results are 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.

## Presto Site Data Validation Technical Memorandum

August 2020 Sampling Event

**2.0 6010 Dissolved Cd**

Pace utilized EPA method 6010 for dissolved and total recoverable 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.

**2.2.5 MS/MSD Sample Recovery and RPD**

One project sample was used for method 6010 analyses MS/MSD. Sample MW-10A recoveries and Relative Percent Difference limits found on QAPP worksheet #15 were met for cadmium. No action was needed to qualify sample data.

## Presto Site Data Validation Technical Memorandum

August 2020 Sampling Event

### 2.2.6 Serial Dilution

A serial dilution was analyzed on sample MW-10A. The sample results were not above the detection limit. 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 on the 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

Pace utilized EPA method 8260B 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 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.

#### 3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 criteria as appropriate. No action was needed to qualify sample data.

A seven point initial calibration curve was analyzed on 8/12/20 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.

## Presto Site Data Validation Technical Memorandum

August 2020 Sampling Event

## 3.2.3 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to methods 8260B 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. No action was needed to qualify sample data.

## 3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

One project sample was used for method 6010 analyses MS/MSD. Sample EW-6 recoveries and Relative Percent Difference limits found on QAPP worksheet #15 were met for all analytes. 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.

## 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

One trip blanks was 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. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	EW-6	EW-6 Dup	RPD
Trichloroethene	0.89 J ug/L	0.87 J ug/L	2.2%
1,1,1-trichloroethane	1.1 ug/L	1.1 ug/L	0%



Presto Site Data Validation Technical Memorandum

August 2020 Sampling Event

All RPD values at or above the reporting limit were within 50% as specified on QAPP Worksheet #12. No data will be qualified based on field duplicate data.

3.3 Data Usability

All volatiles 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 August 2020**

	Volatiles	Dissolved
	SW846	Cadmium
SAMPLE ID	8260B	6010
<b>EW-6</b>	✓	
<b>MH-18</b>	✓	✓
<b>MW-10A</b>		✓
<b>MW-10B</b>		✓
<b>MW-34A</b>		✓
<b>MW-34B</b>		✓
<b>MW-68B</b>		✓
<b>MW-70A</b>	✓	
<b>MW-70B</b>		✓
<b>MW-75</b>		✓
<b>MW-76A</b>	✓	
<b>EW-6 DUP</b>	✓	
<b>TRIP BLANK</b>	✓	
<b>Total</b>	<b>6</b>	<b>8</b>

## Presto Site Data Validation Technical Memorandum

December 2, 2020 Sampling Event



Technical memorandum

DATE: January 21, 2021

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 2, 2020 Quarterly Groundwater Sampling Event

Project#: 34283

*Mary C. Gannon*  
1/21/21

## 1.0 OVERVIEW

Analytical results (8260, 524.2 volatiles and, 6010 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 December 2, 2020 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

All dissolved cadmium, 524.2 and 8260 results are 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.

All dissolved cadmium data are usable, as reported without additional qualification.

## Presto Site Data Validation Technical Memorandum

December 2, 2020 Sampling Event

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 six months, method required holding time. Verification of sample pH upon receipt/analysis indicated that all samples that required preservation were adequately preserved to pH < 2. The 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

December 2, 2020 Sampling Event

**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. 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 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.

The 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.

## Presto Site Data Validation Technical Memorandum

December 2, 2020 Sampling Event

Seven point initial calibration curves was analyzed on 11/13/20, 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 seven to nine point initial calibration for method 524.2 was analyzed on 11/25/20. 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 continuing calibration standard (CCAL) was analyzed according to methods 82608 and 524.2 every 12 hours. 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.

### 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)

The project sample used for method 8260 analyses MS/MSD was EW-6. 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. 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.

### 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.

## Presto Site Data Validation Technical Memorandum

December 2, 2020 Sampling Event

## 3.2.9 Field QC Results

Two 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-76A and EW-6. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-76A	MW-76A Dup	RPD	EW-6	EW-6 DUP	RPD
1,1,1-Trichloroethane	0.95 J ug/L	0.91 J ug/L	4.3%	0.82 J ug/L	0.80 J ug/L	2.5%
Trichloroethene				0.66 J ug/L	0.82 J ug/L	22%

All RPD values were within 50%, as specified on QAPP Worksheet #12. No action was needed to qualify sample data.

3.3 Data Usability

All volatiles 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.

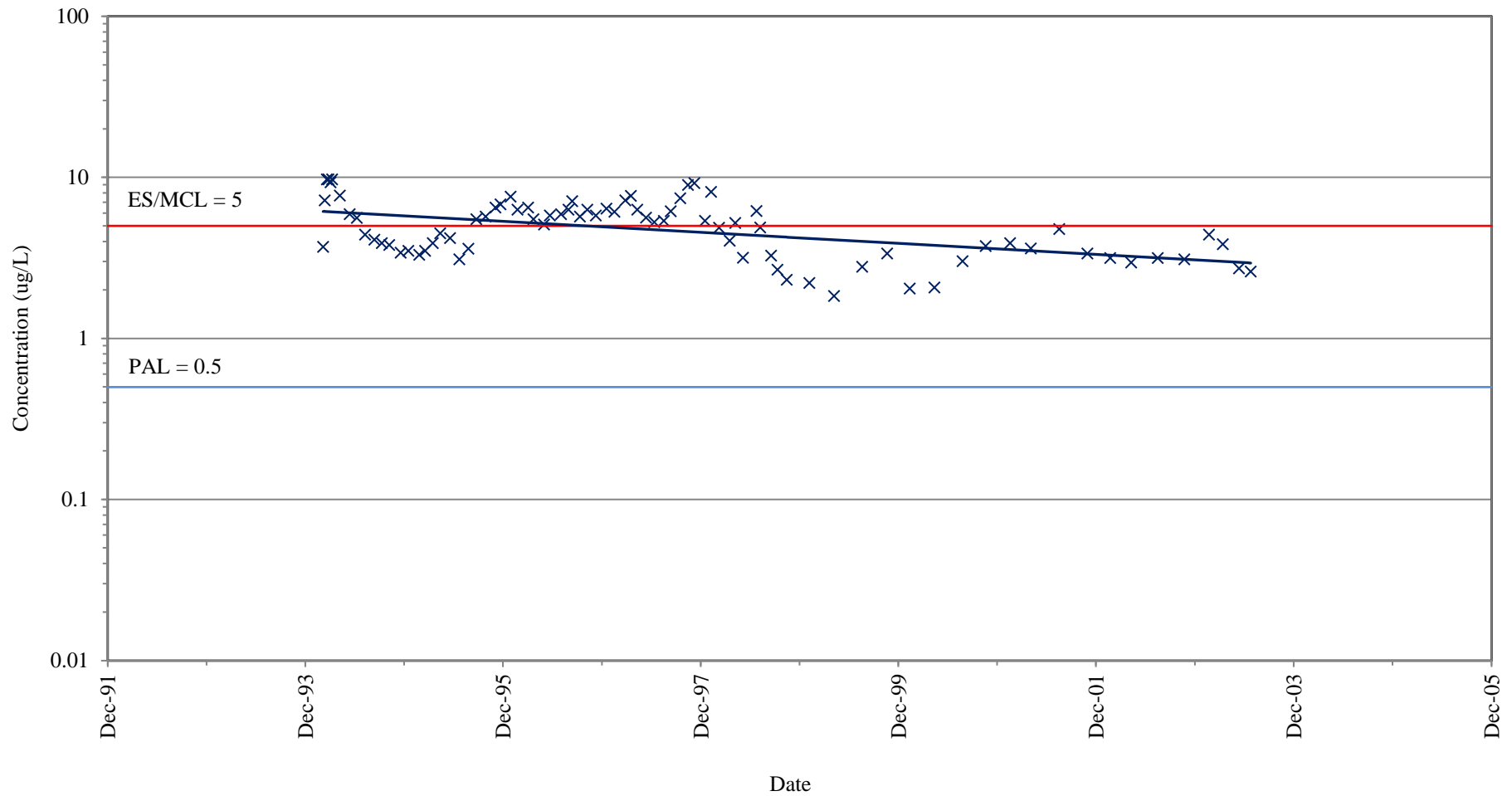
Table 1 Sample Results Validated December 2020

SAMPLE ID	Volatiles	Dissolved	SAMPLE ID	Volatiles
	SW846	Cadmium		524.2
	8260B	6010		
EW-6	✓		CW-19	✓
MH-18	✓		CW-22	✓
MW-10A		✓	CW-23	✓
MW-34A	✓		RAW	✓
MW-68B	✓		TOWER A	✓
MW-70A	✓		TOWER B	✓
MW-76A	✓		FINISHED PRODUCT	✓
MW-76A DUP	✓		TRIP BLANK	✓
MW-77A	✓			
MW-77B	✓			
RW-3B	✓			
RW-3C	✓			
EW-6 DUP	✓			
TRIP BLANK	✓			
	13	1		8



APPENDIX D

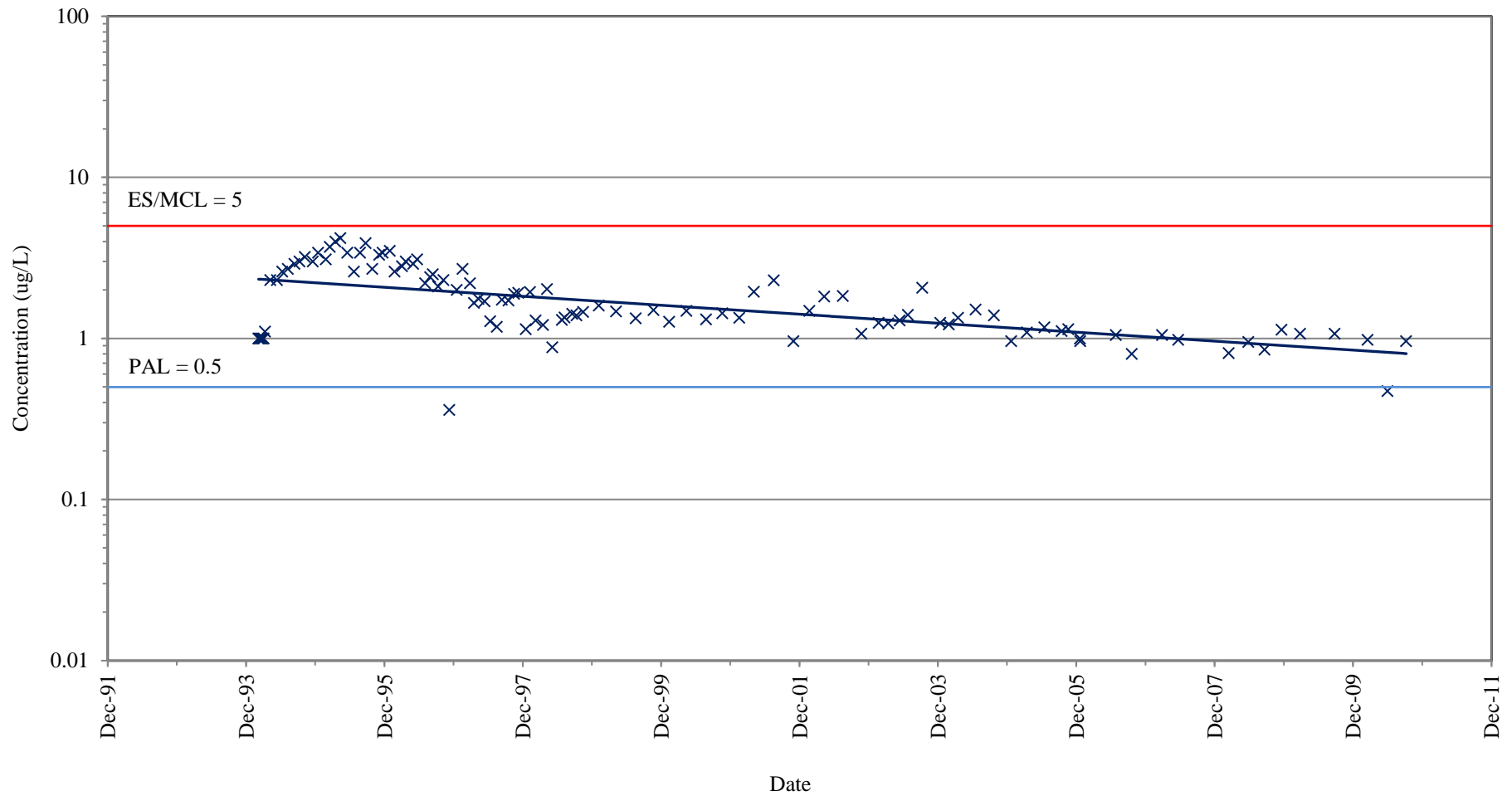
TCE CONCENTRATION VERSUS TIME GRAPHS  
FORMER PLUME 1/2 (SOUTHWEST CORNER)

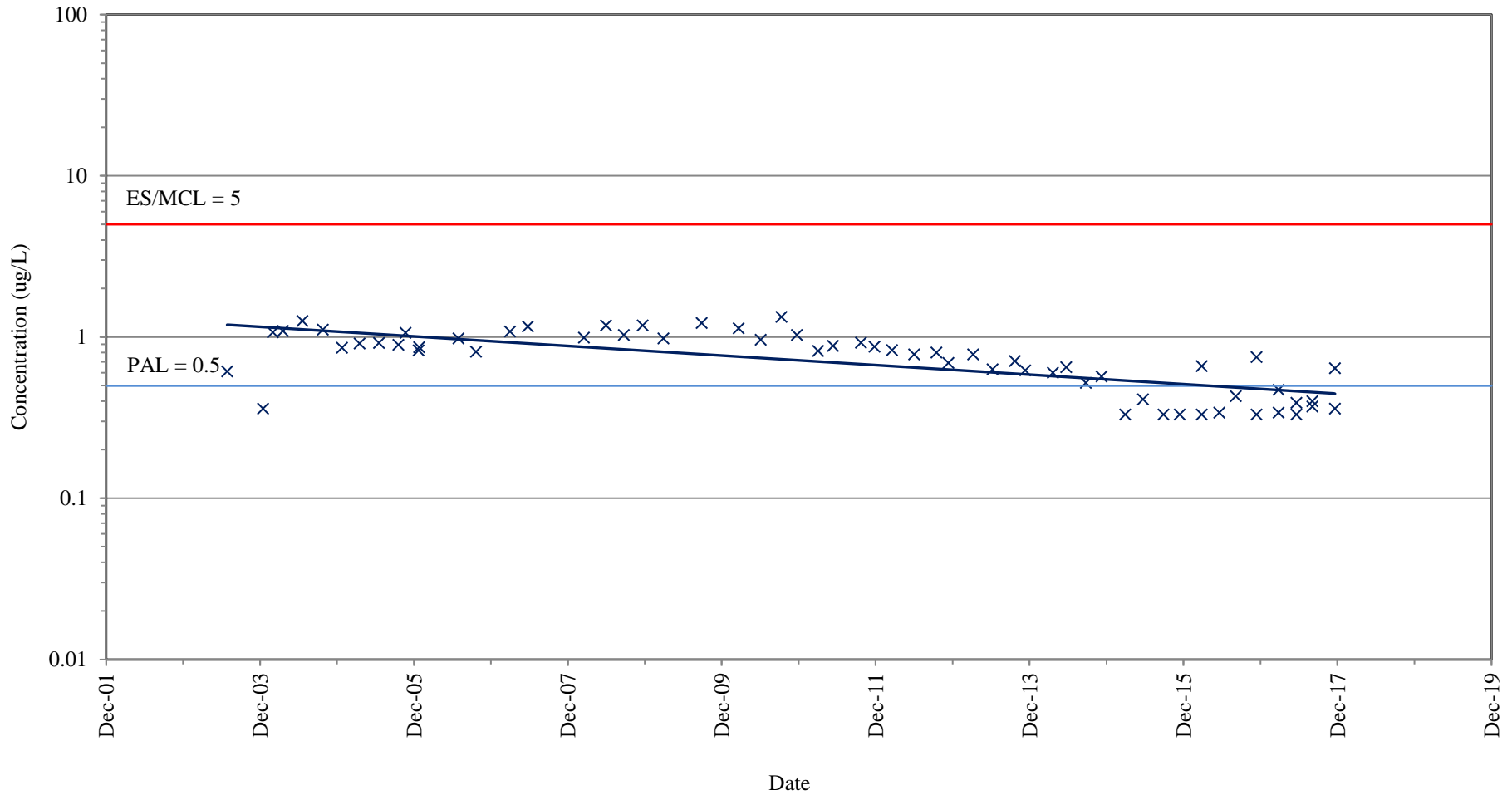


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**EW-3 (GRID COORDINATE K8)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

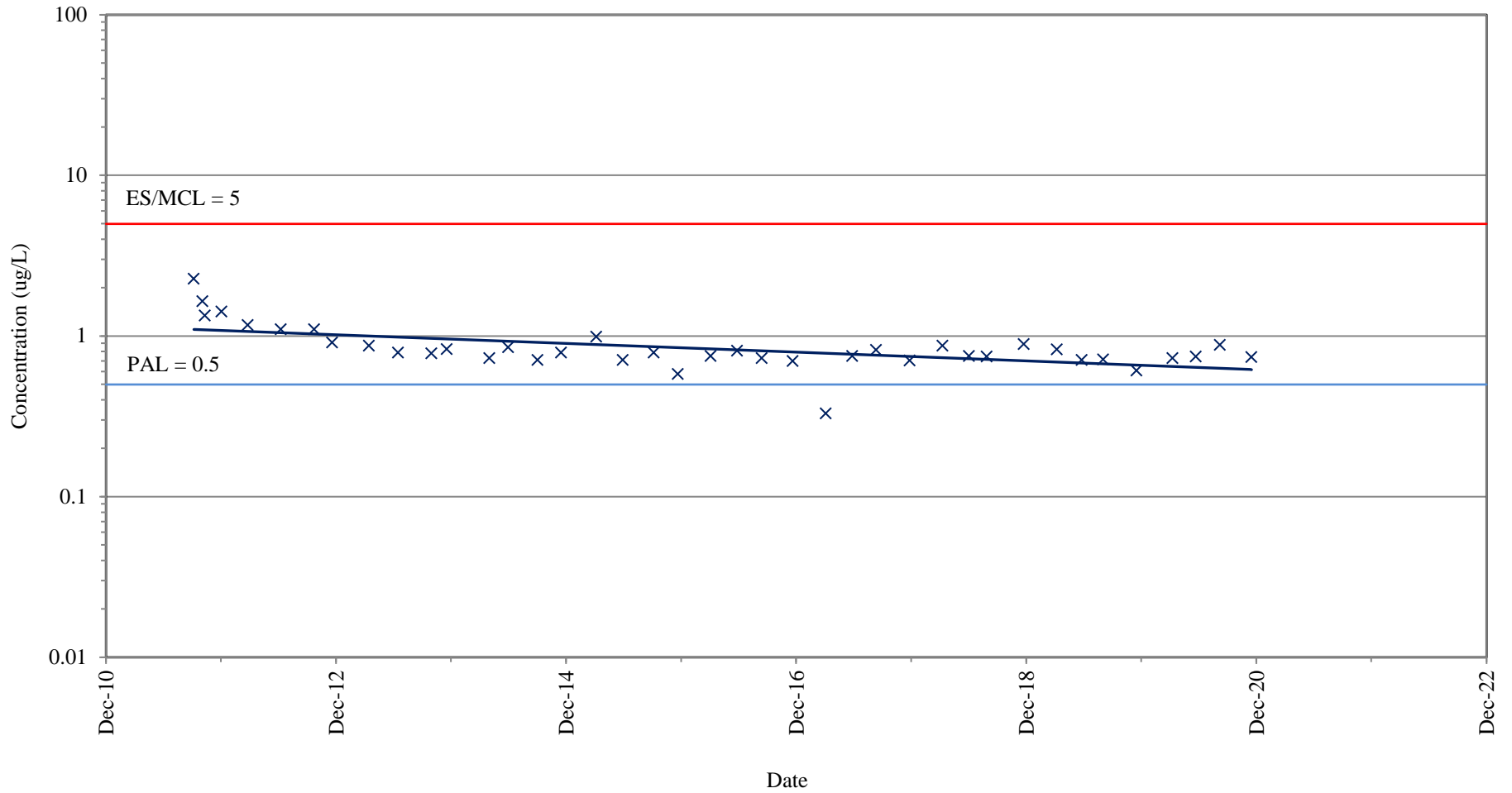




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**EW-5 (GRID COORDINATE K7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



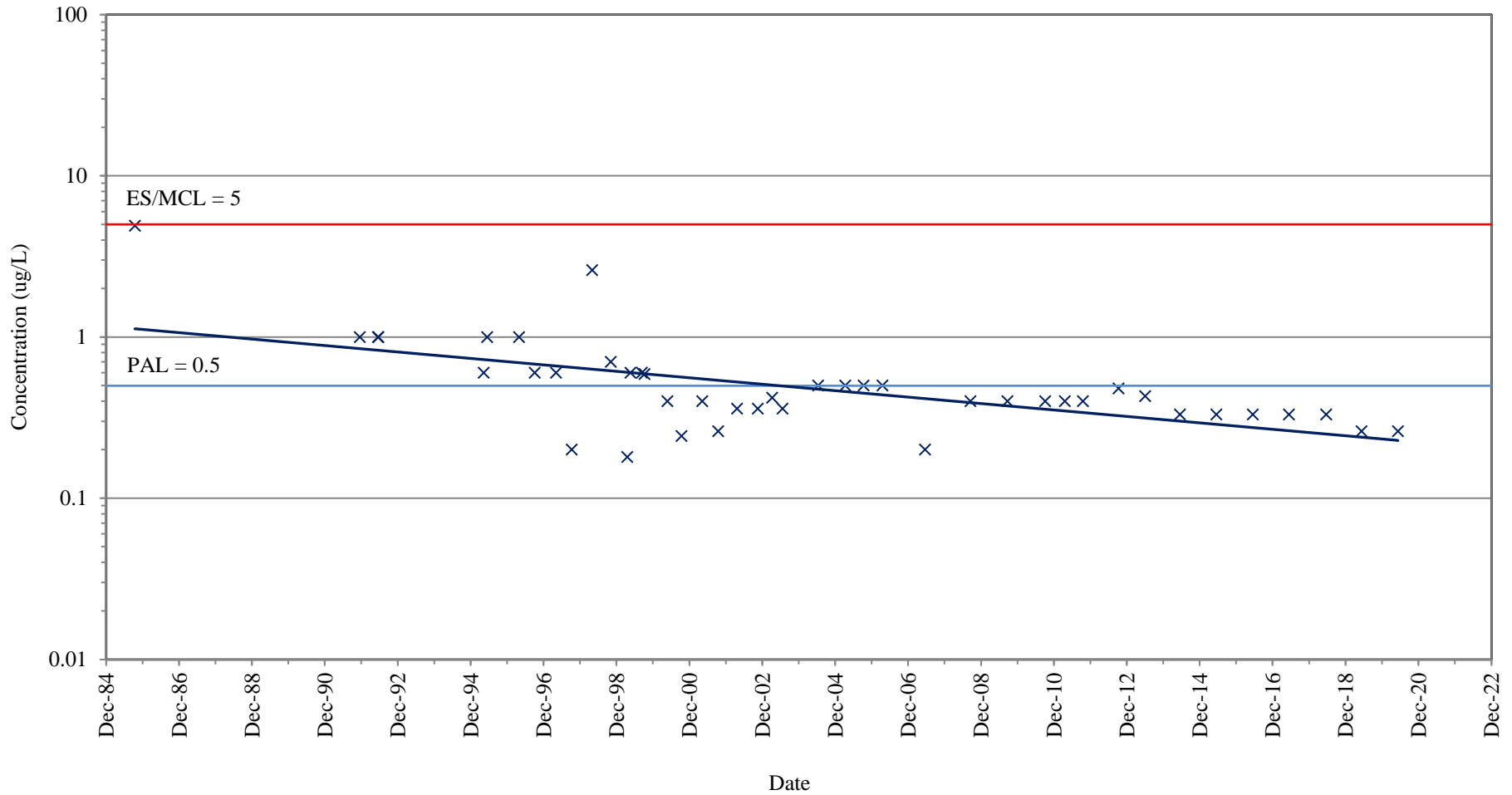
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**EW-6 (GRID COORDINATE K7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN





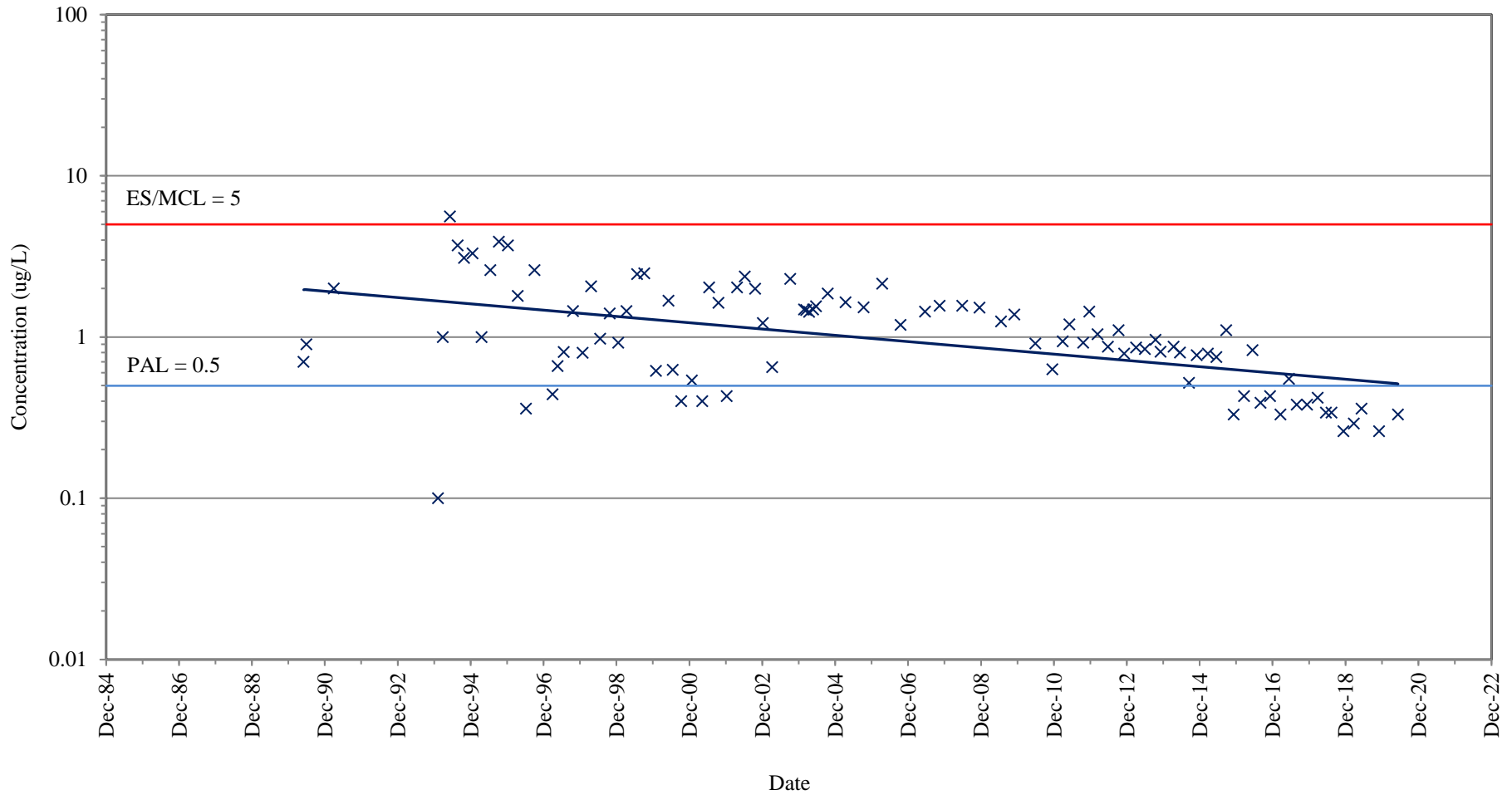


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**EC-6 (GRID COORDINATE C7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

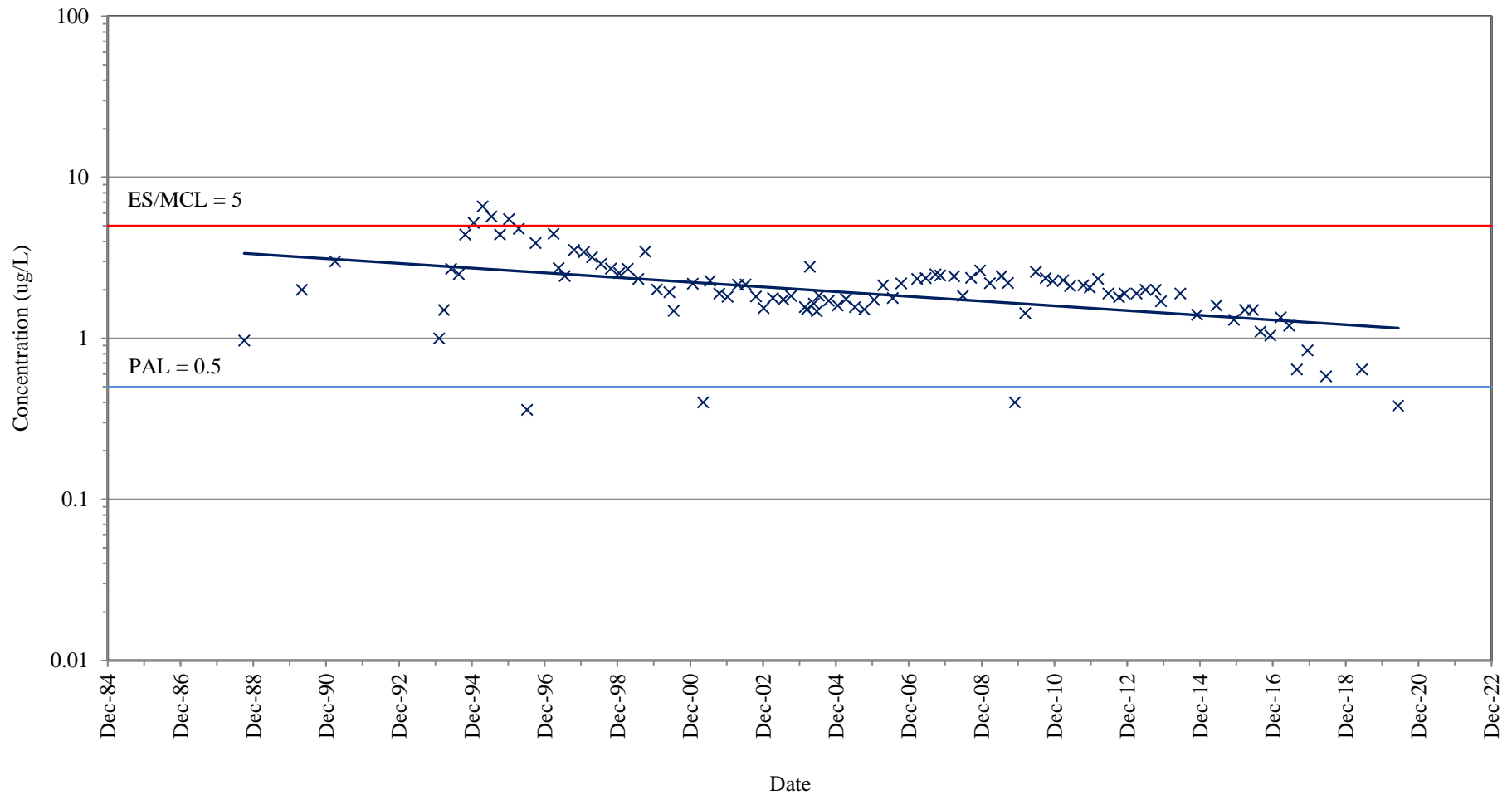




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-4B (GRID COORDINATE K7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

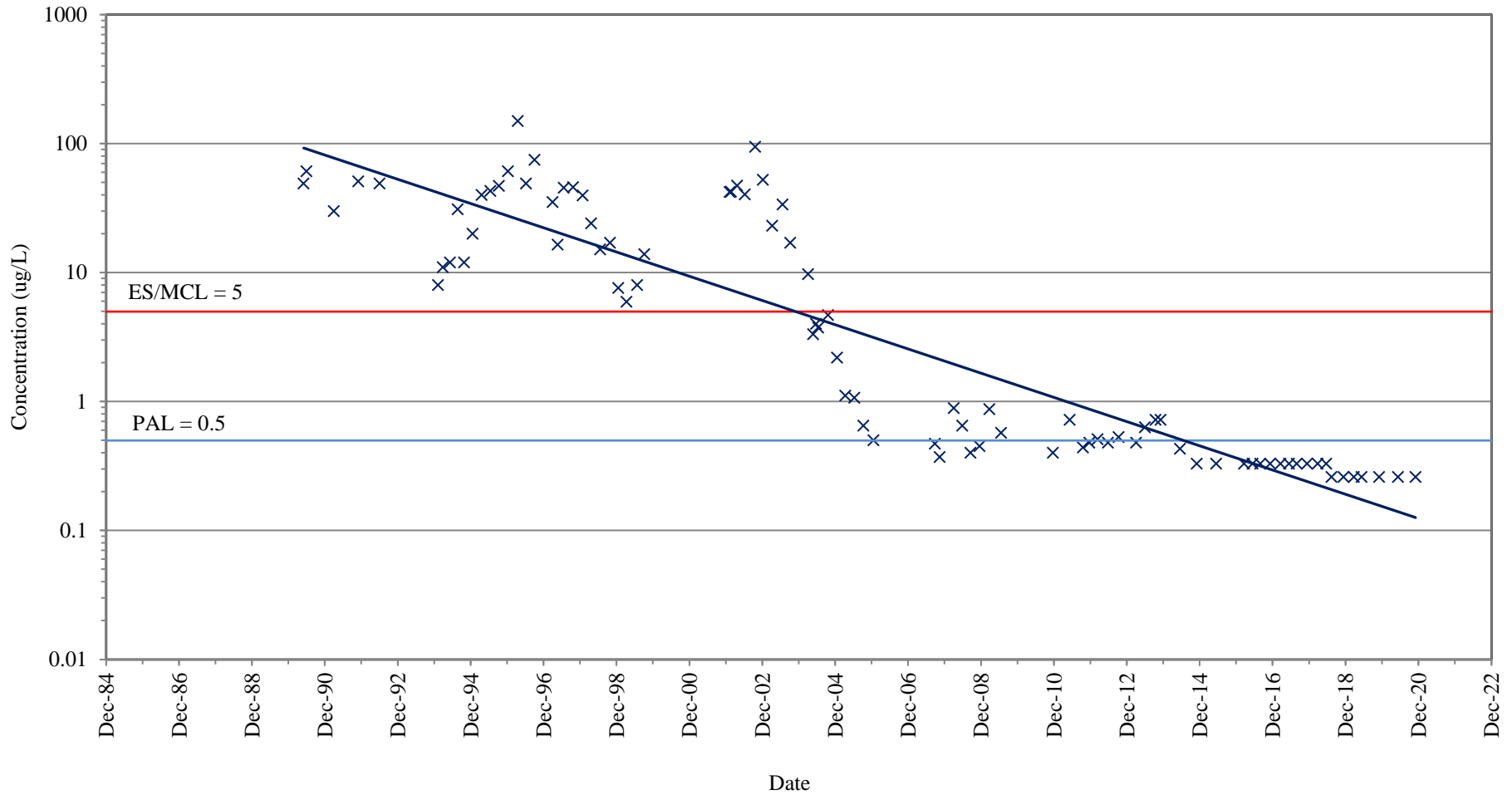


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-23A (GRID COORDINATE J7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



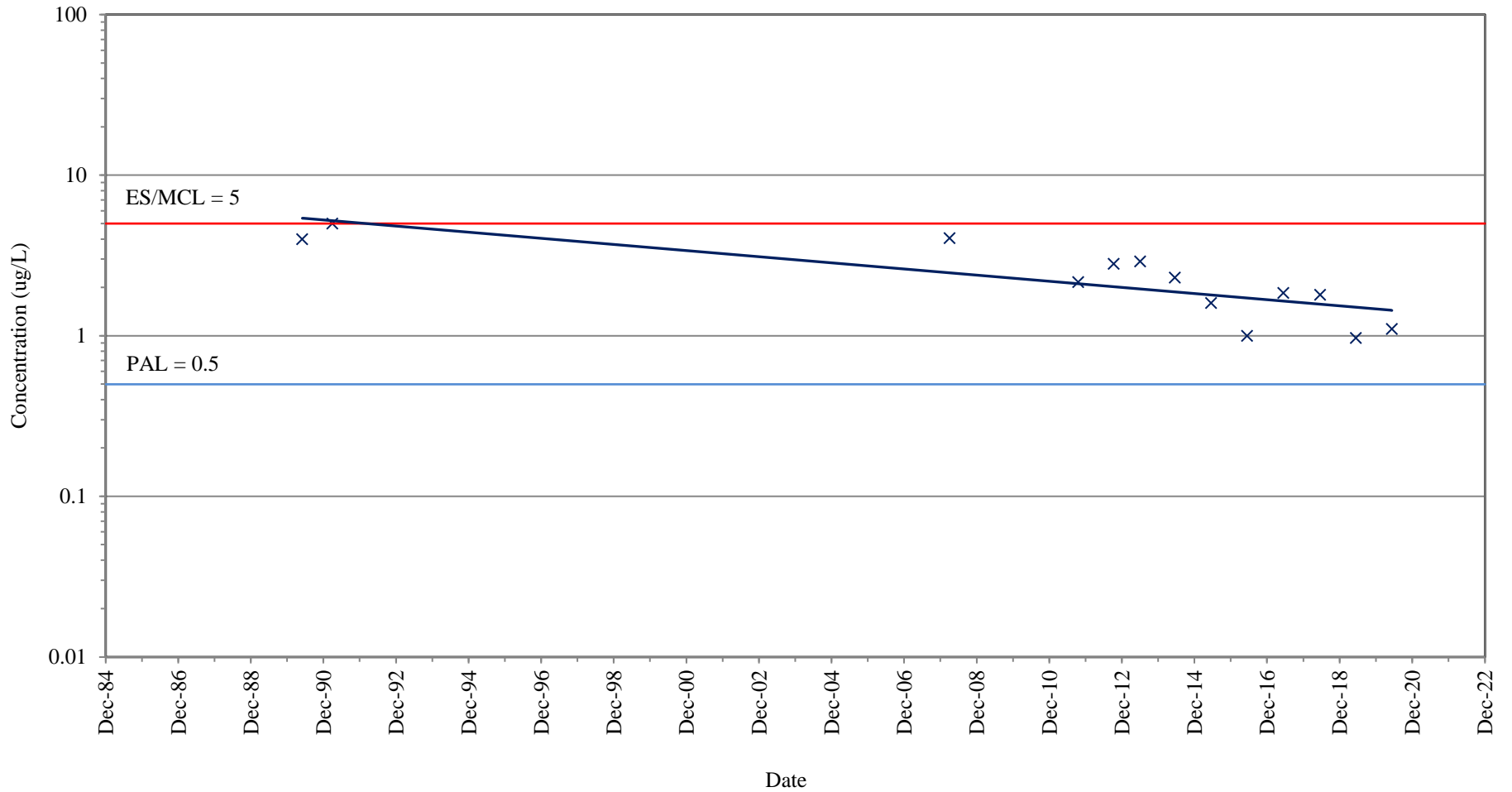


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-34A (GRID COORDINATE K8)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

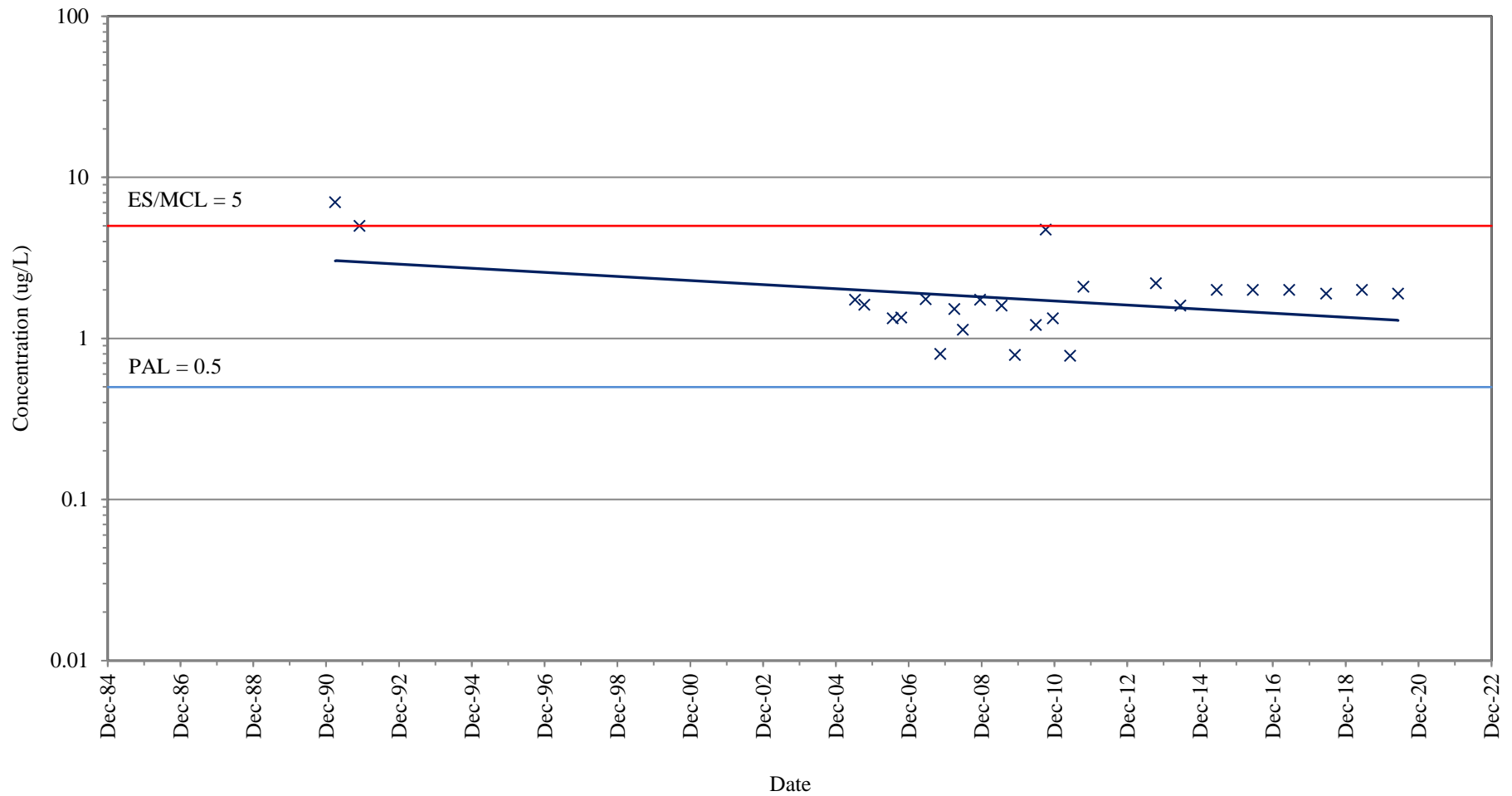




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-35A (GRID COORDINATE K7)**

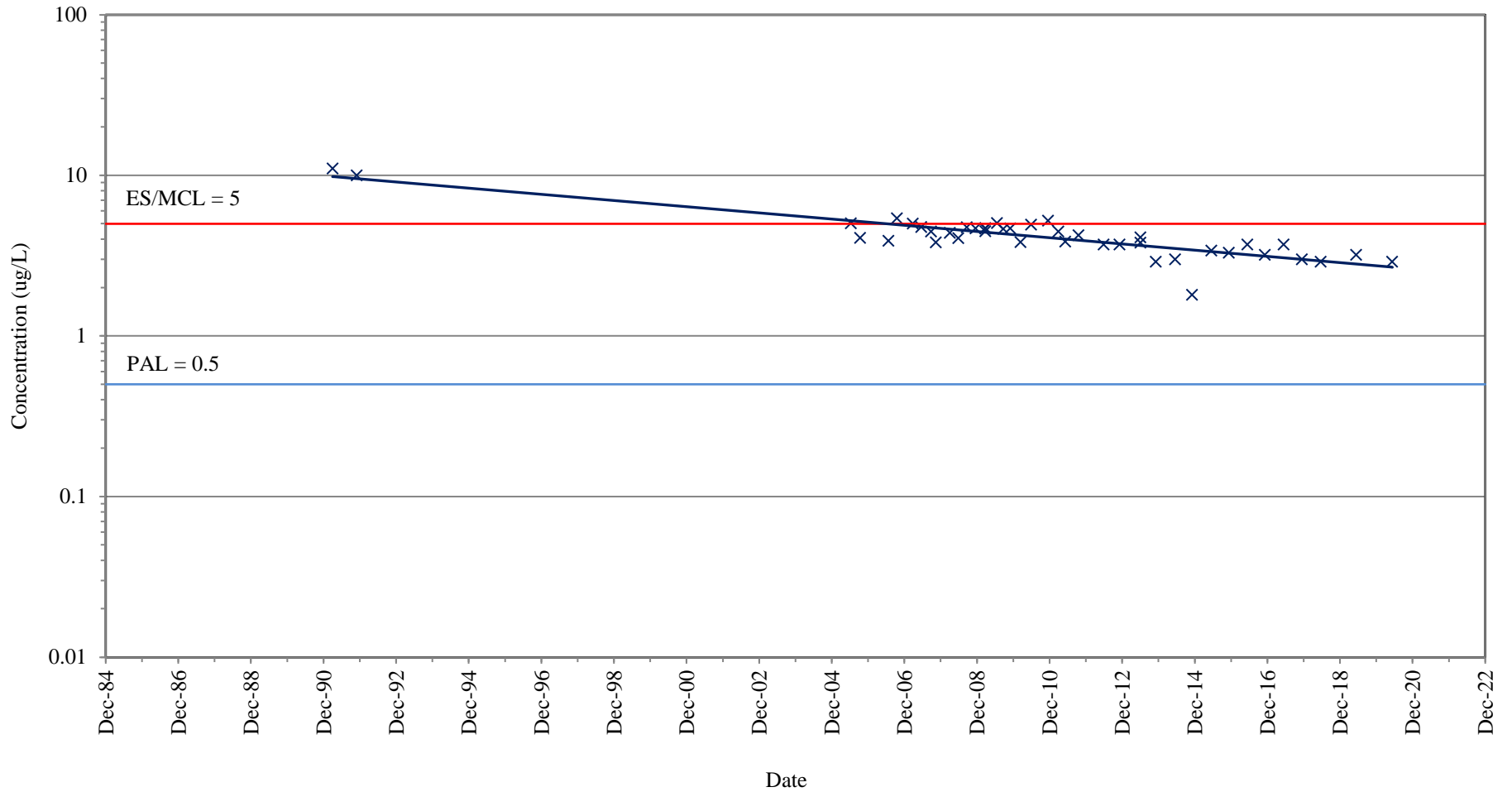
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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

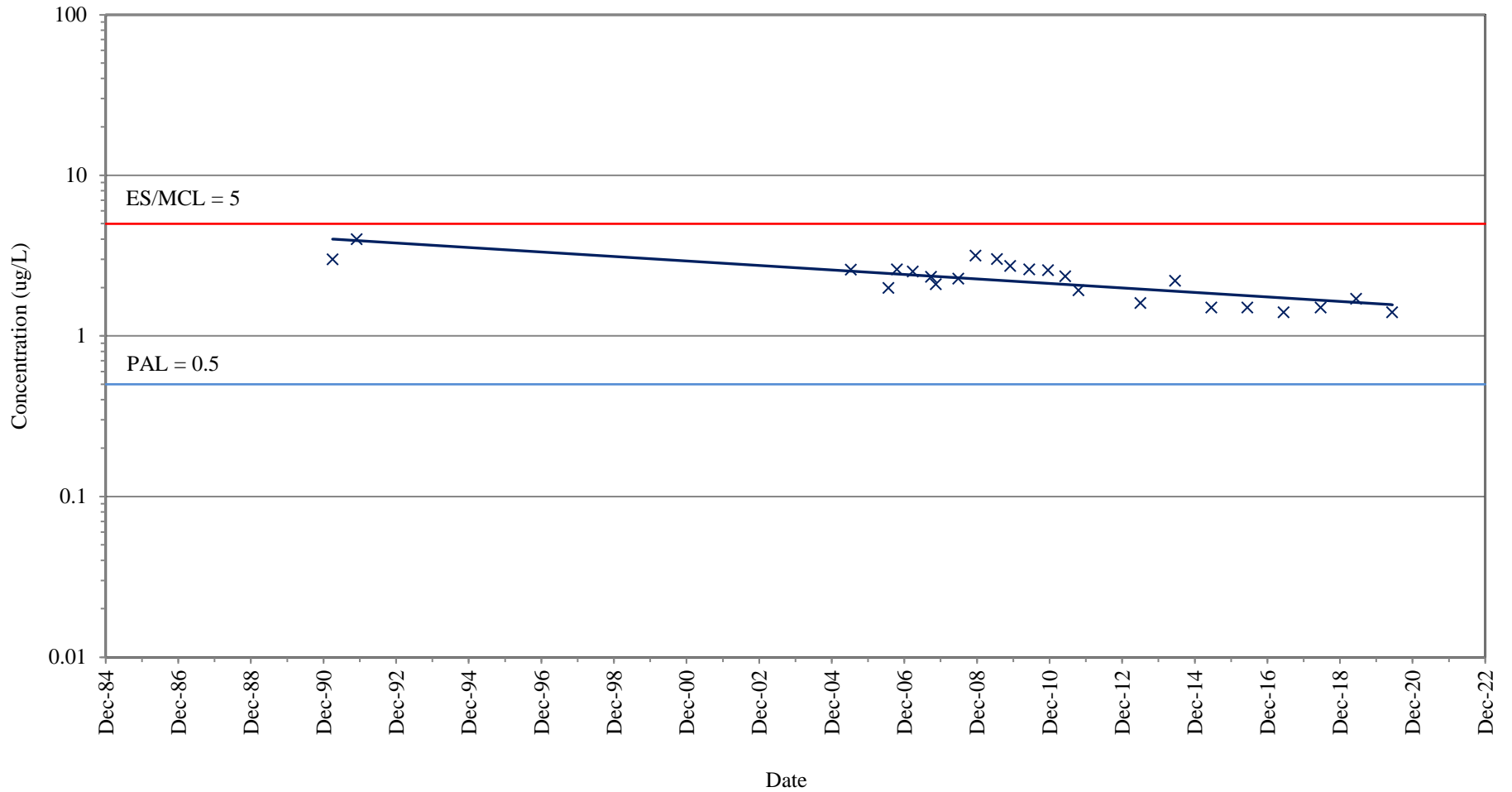


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-38B (GRID COORDINATE I8)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

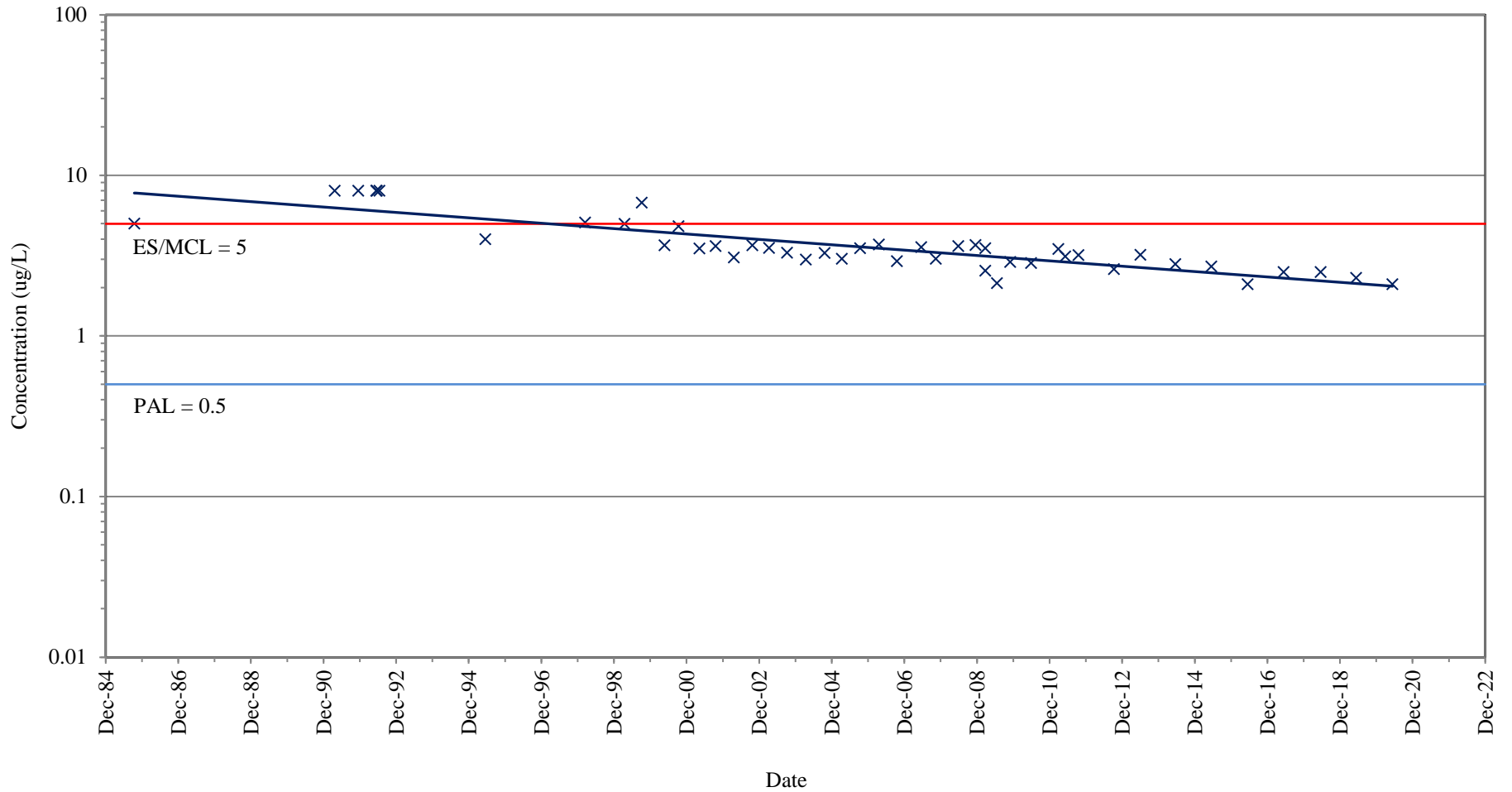




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-38C (GRID COORDINATE I8)**

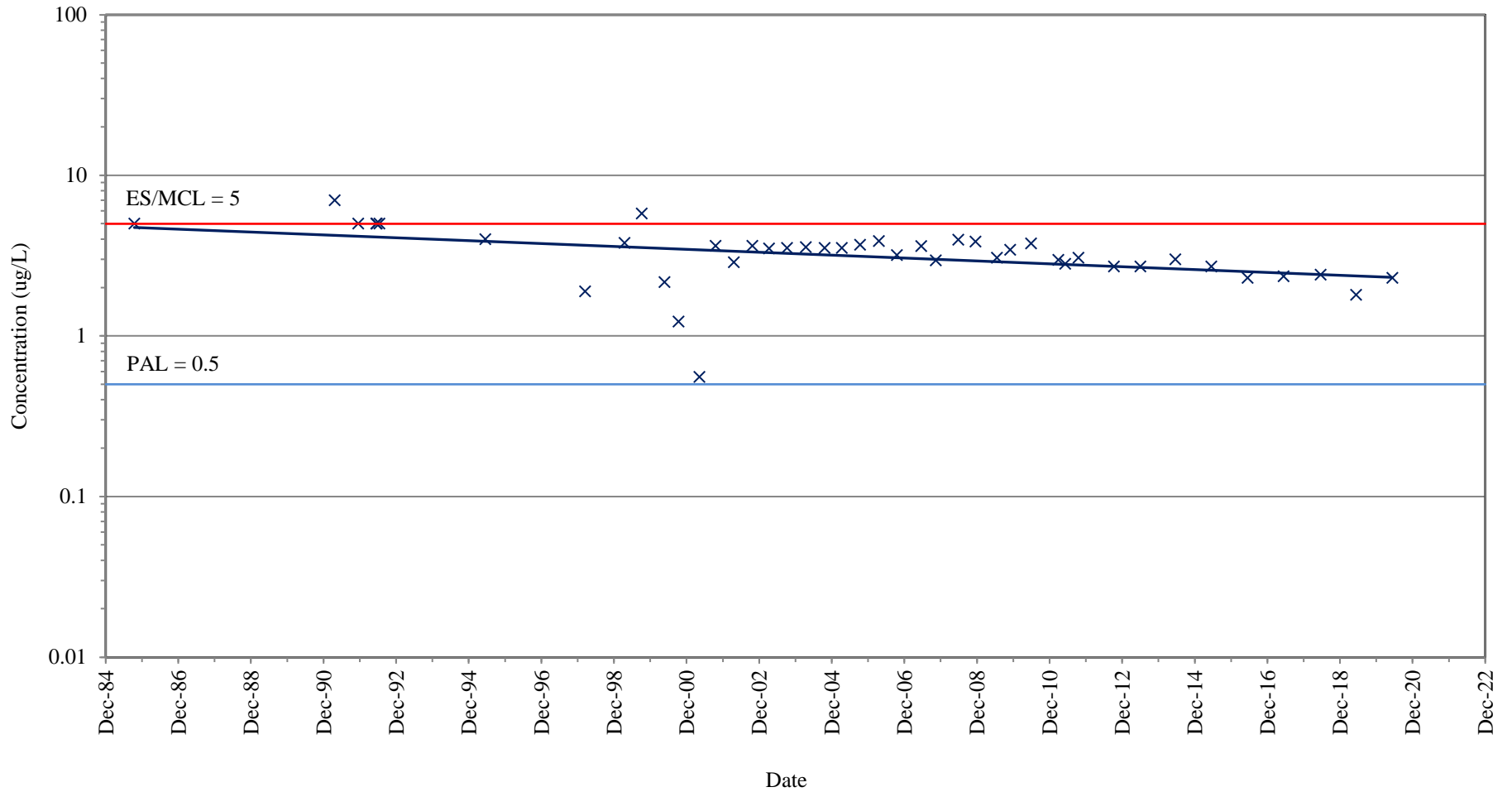
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

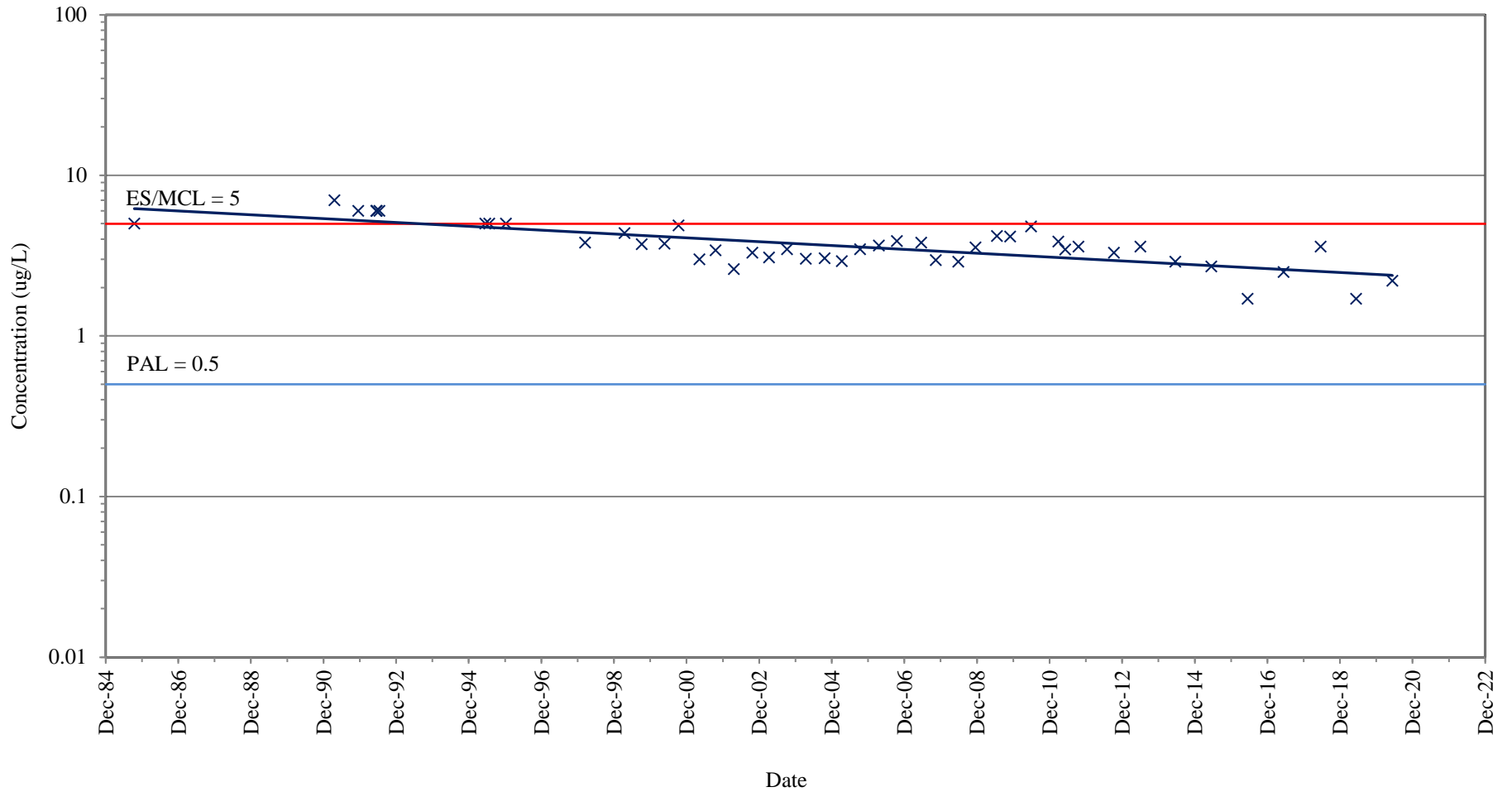
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

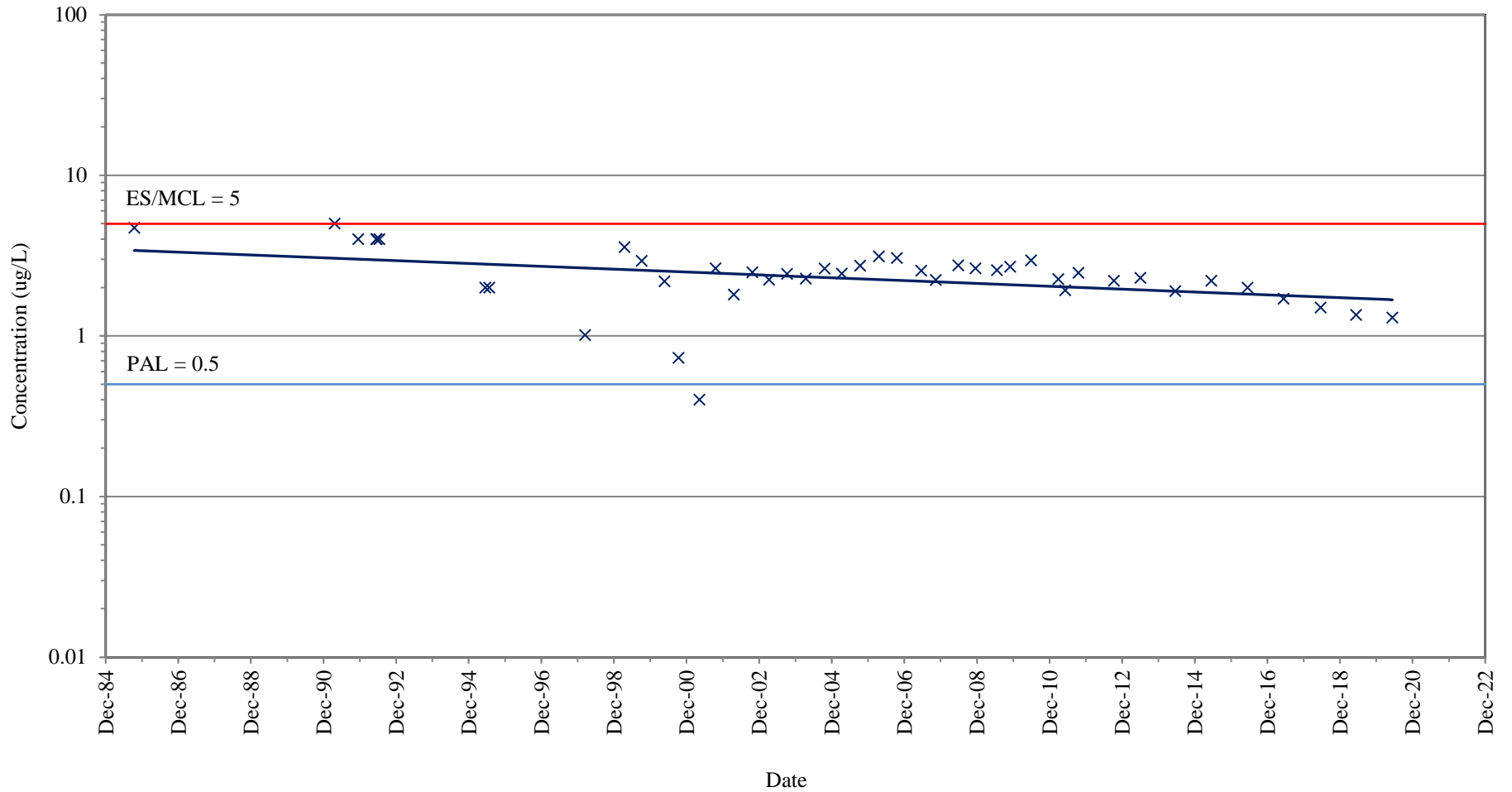
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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



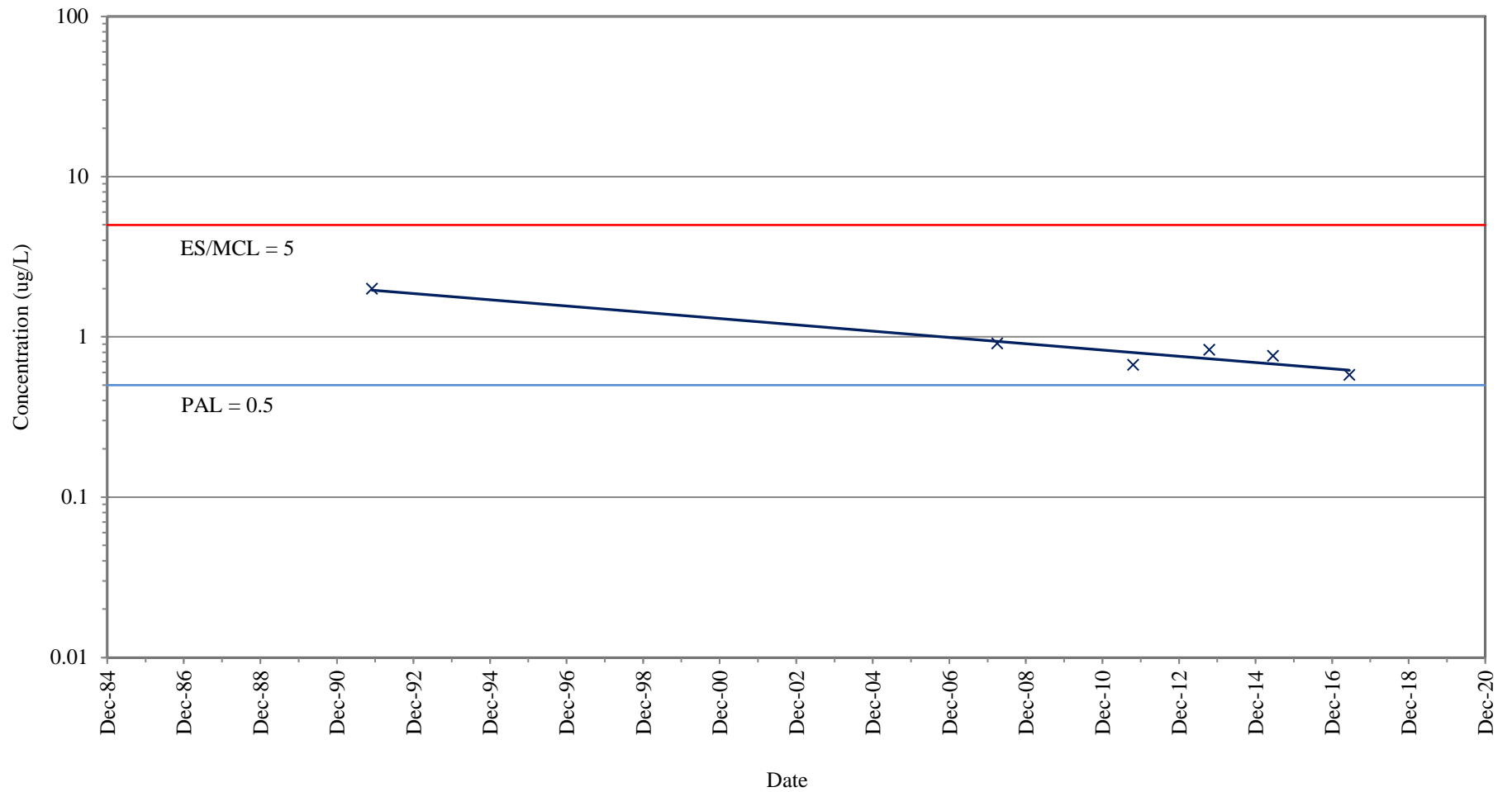
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-43B (GRID COORDINATE H7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN





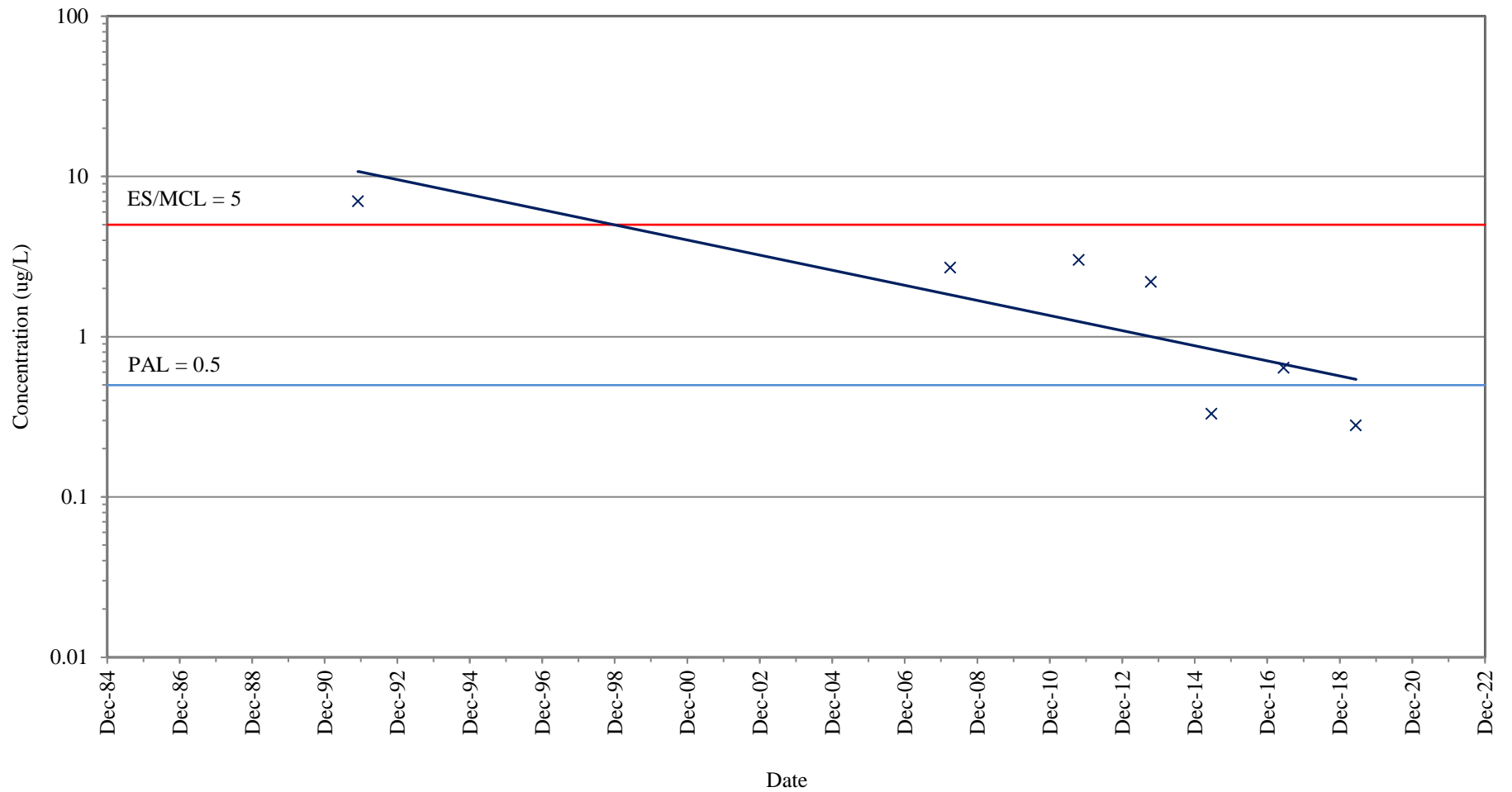


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-47A (GRID COORDINATE G7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

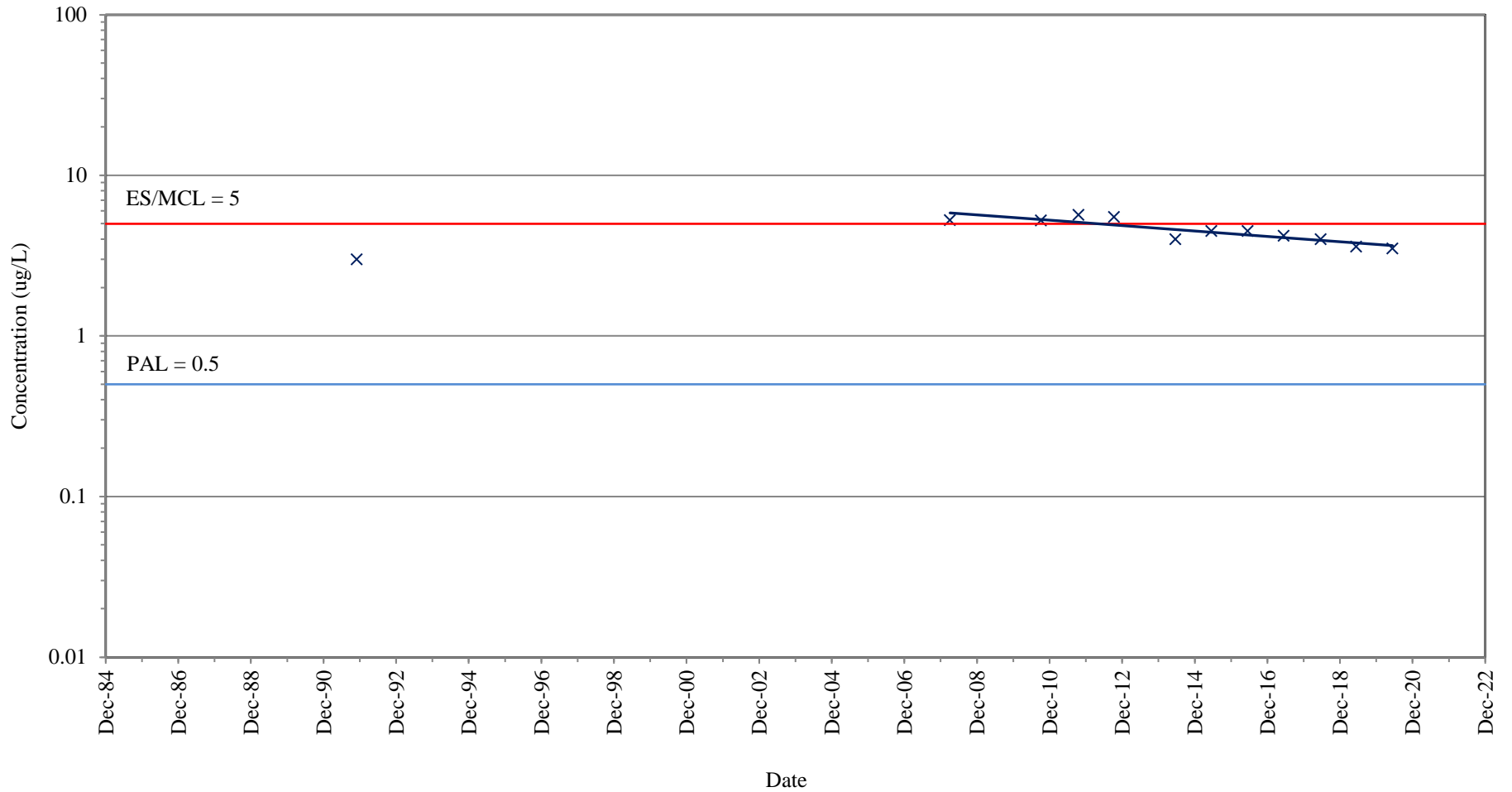




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-51A (GRID COORDINATE F6)**

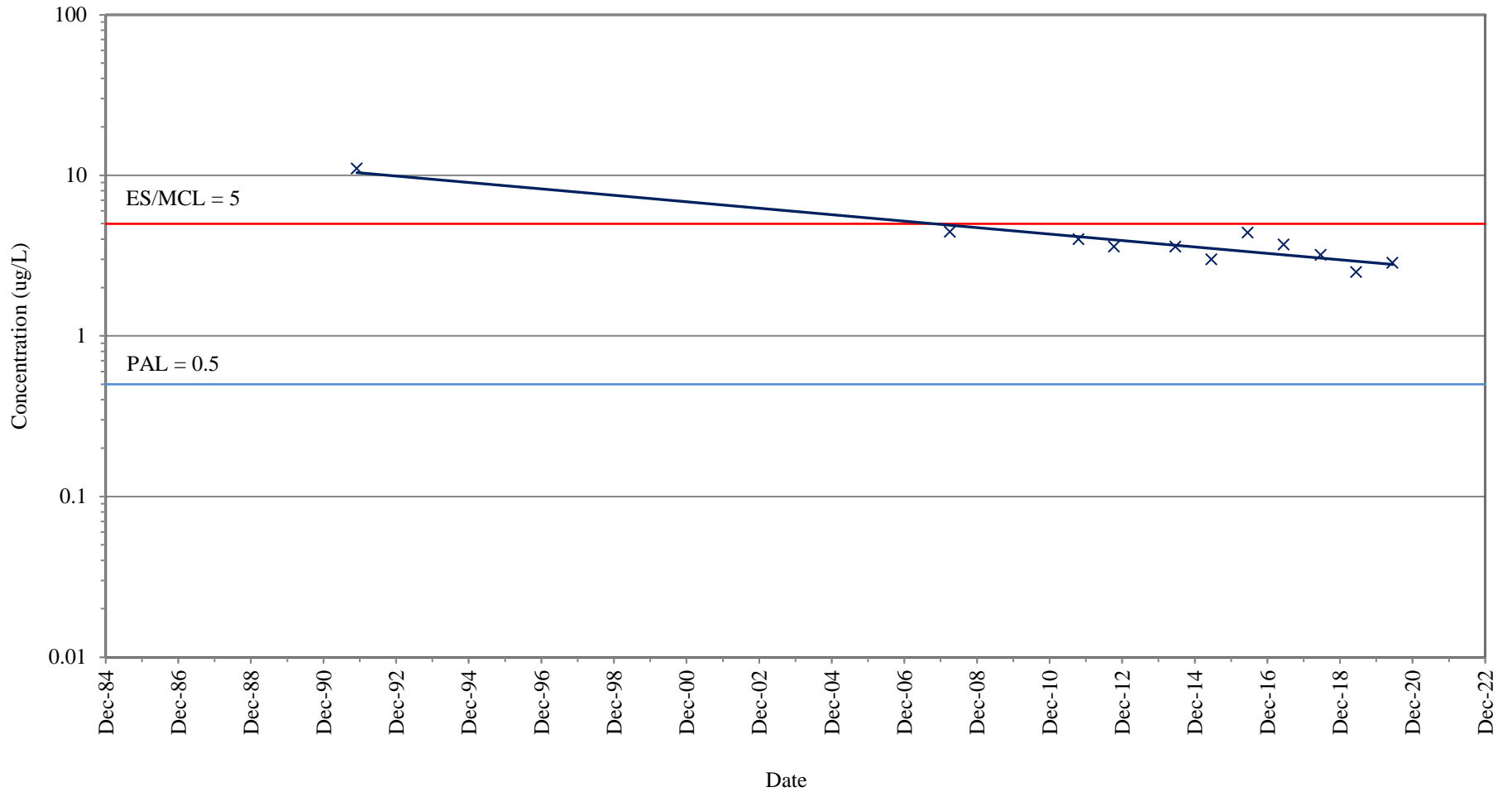
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

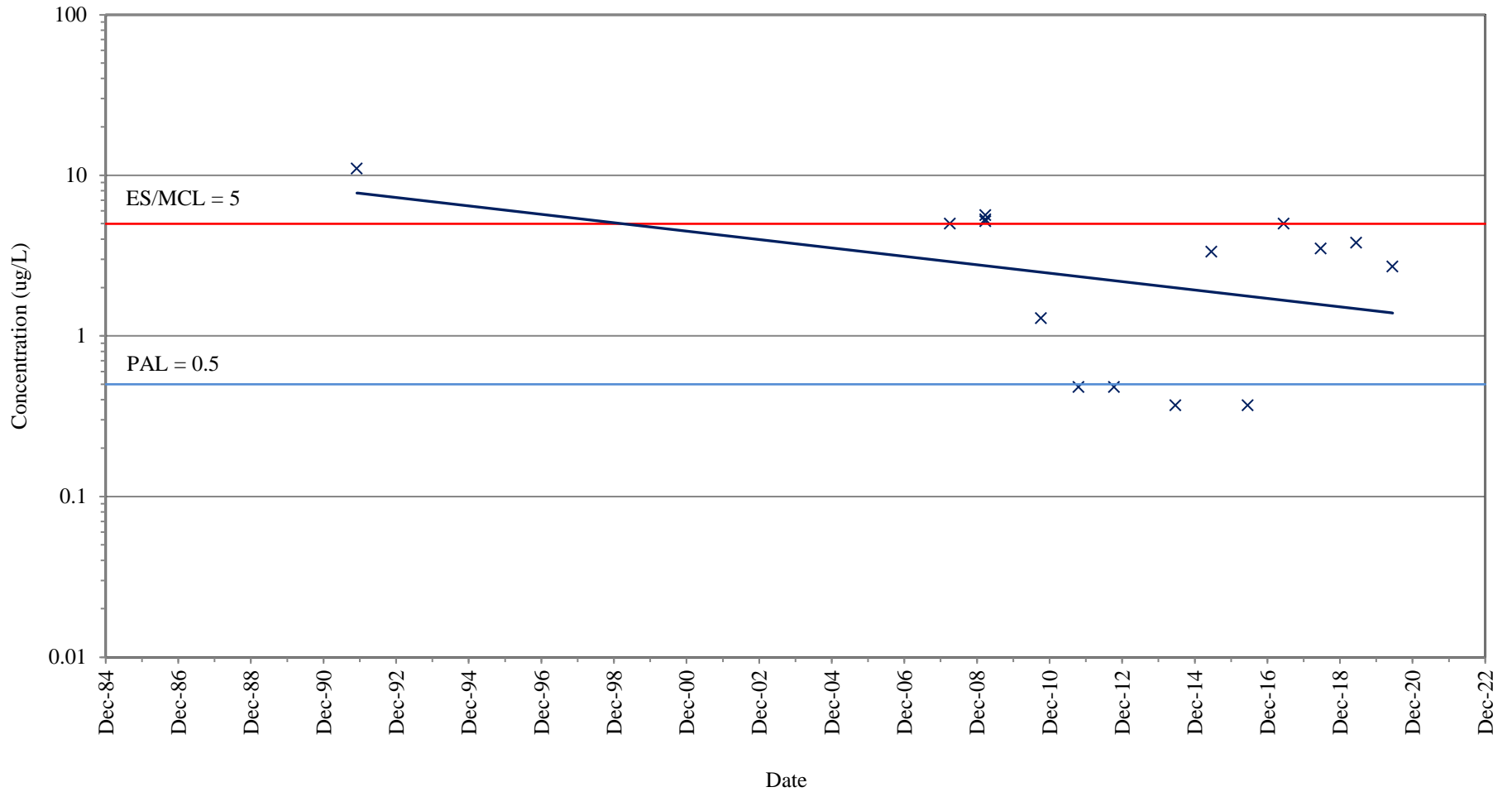
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

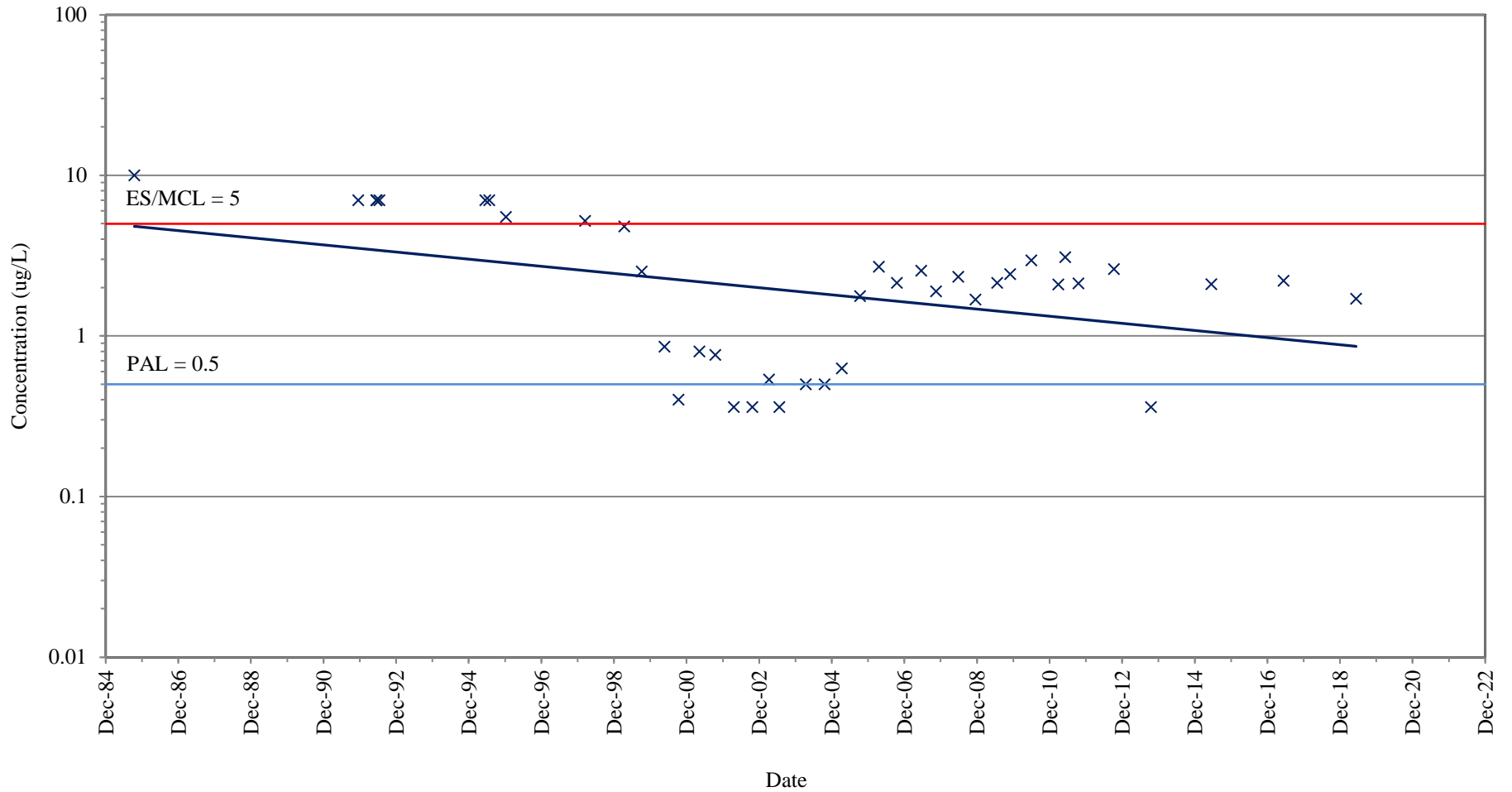
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

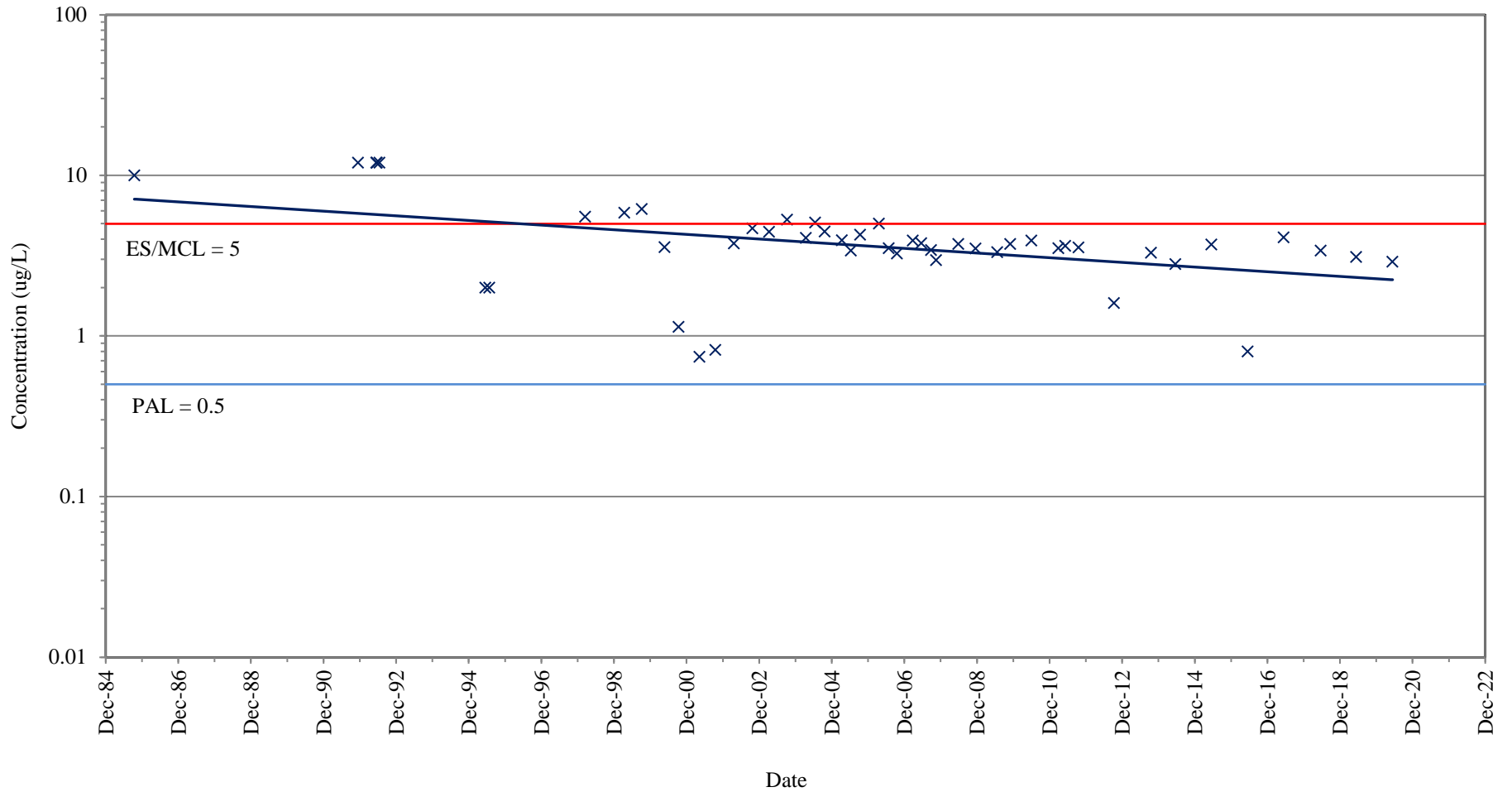
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

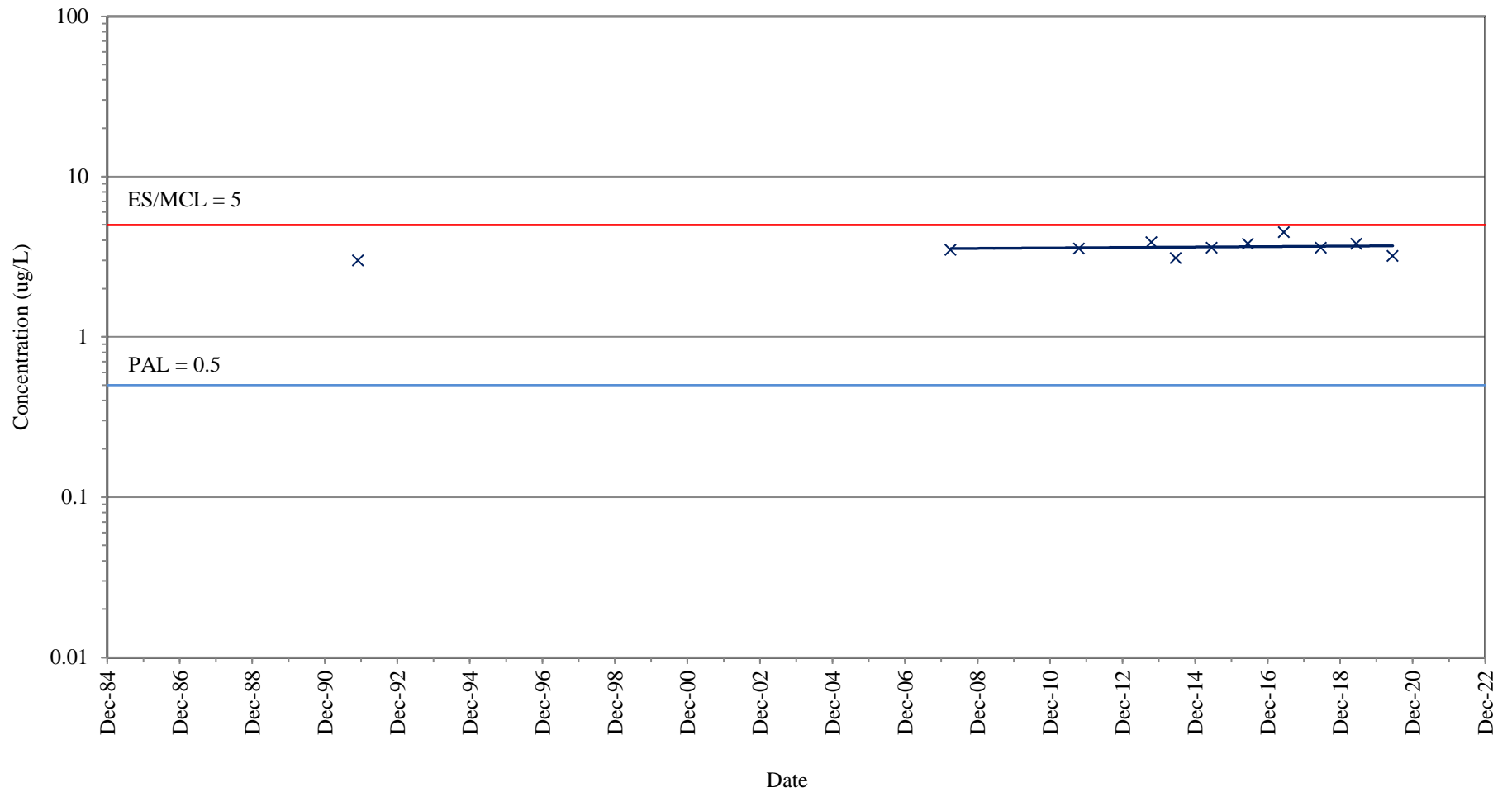
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

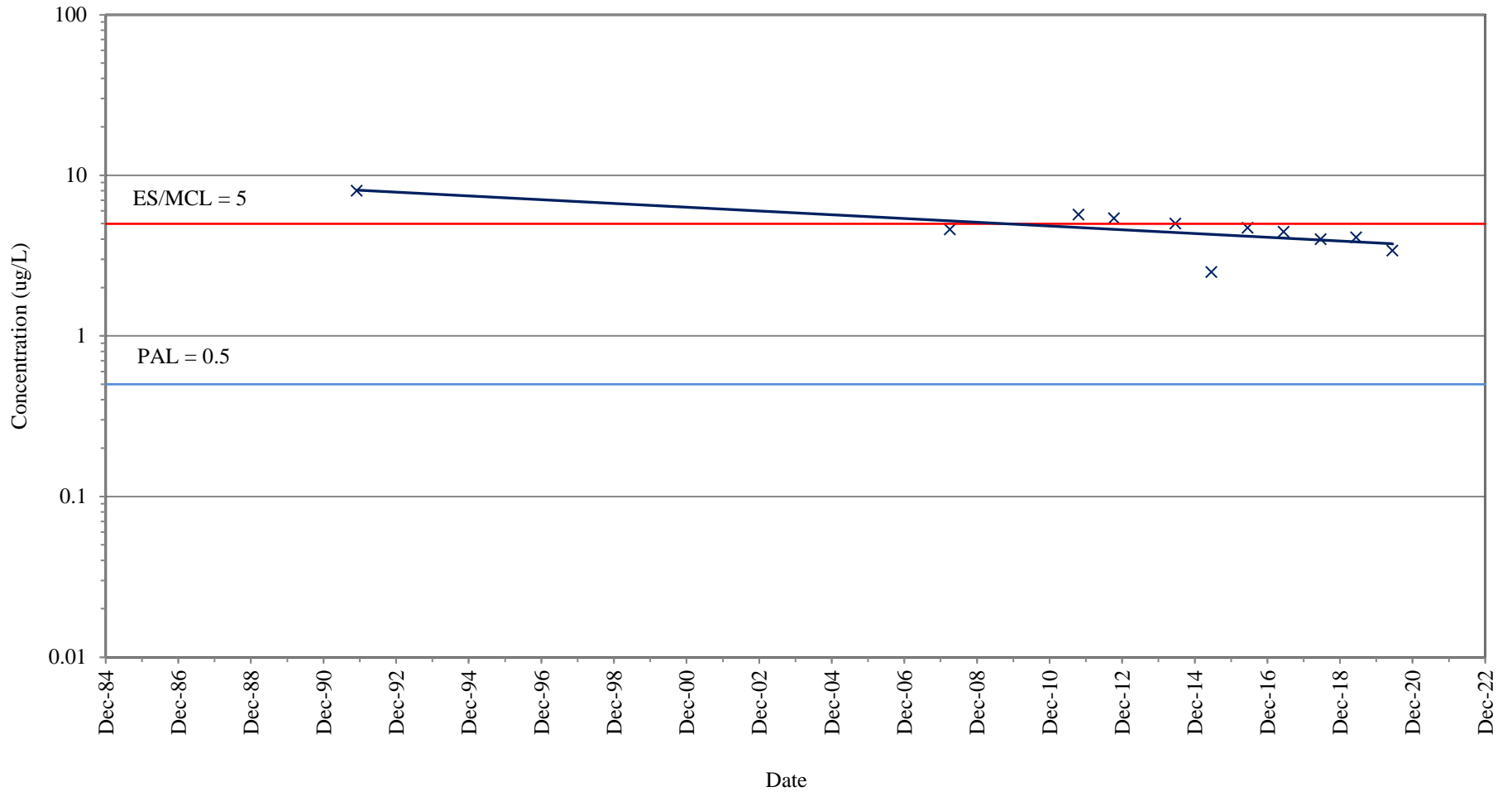
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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

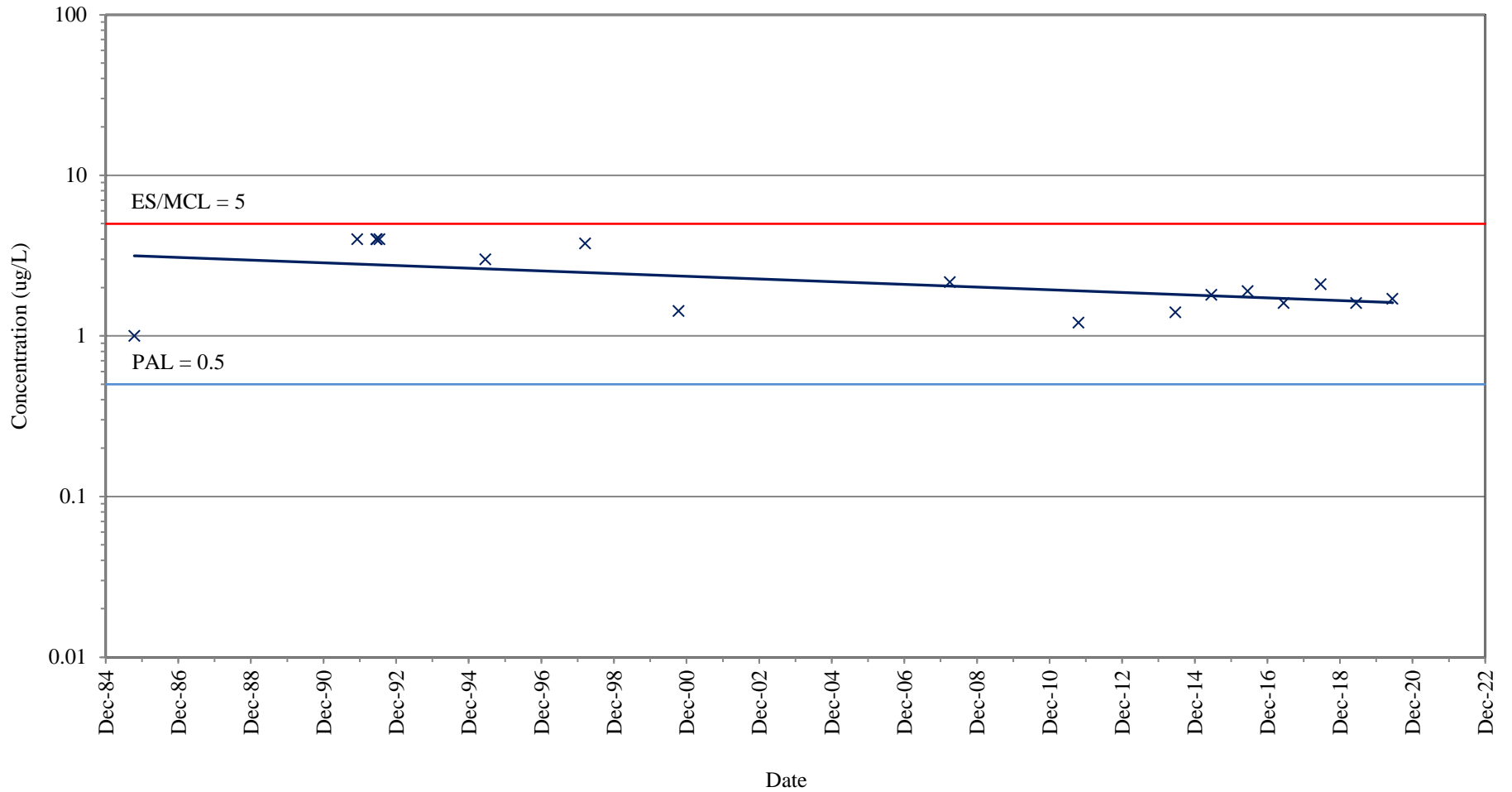


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-54C (GRID COORDINATE D6)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

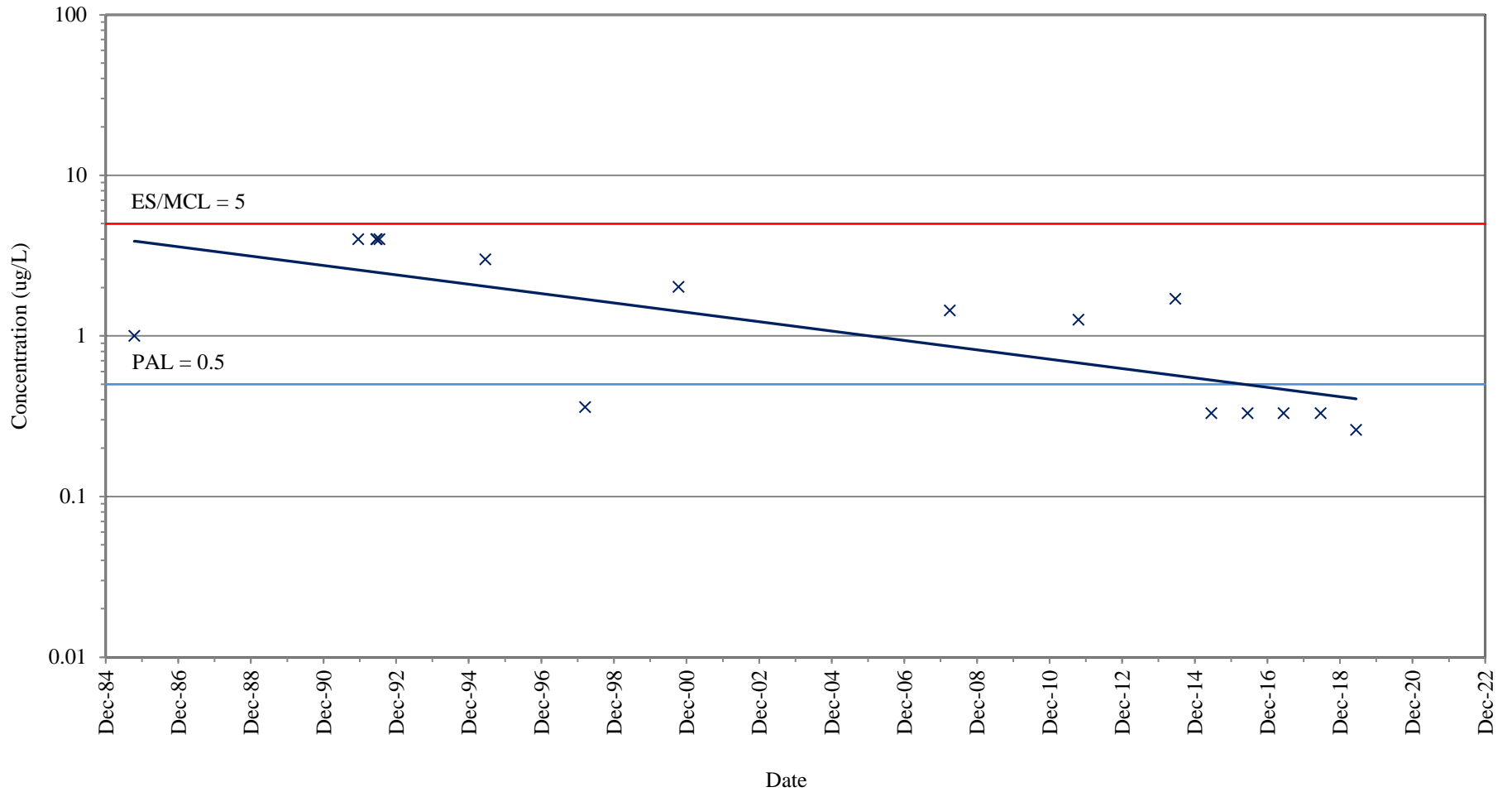




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-55B (GRID COORDINATE D6)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



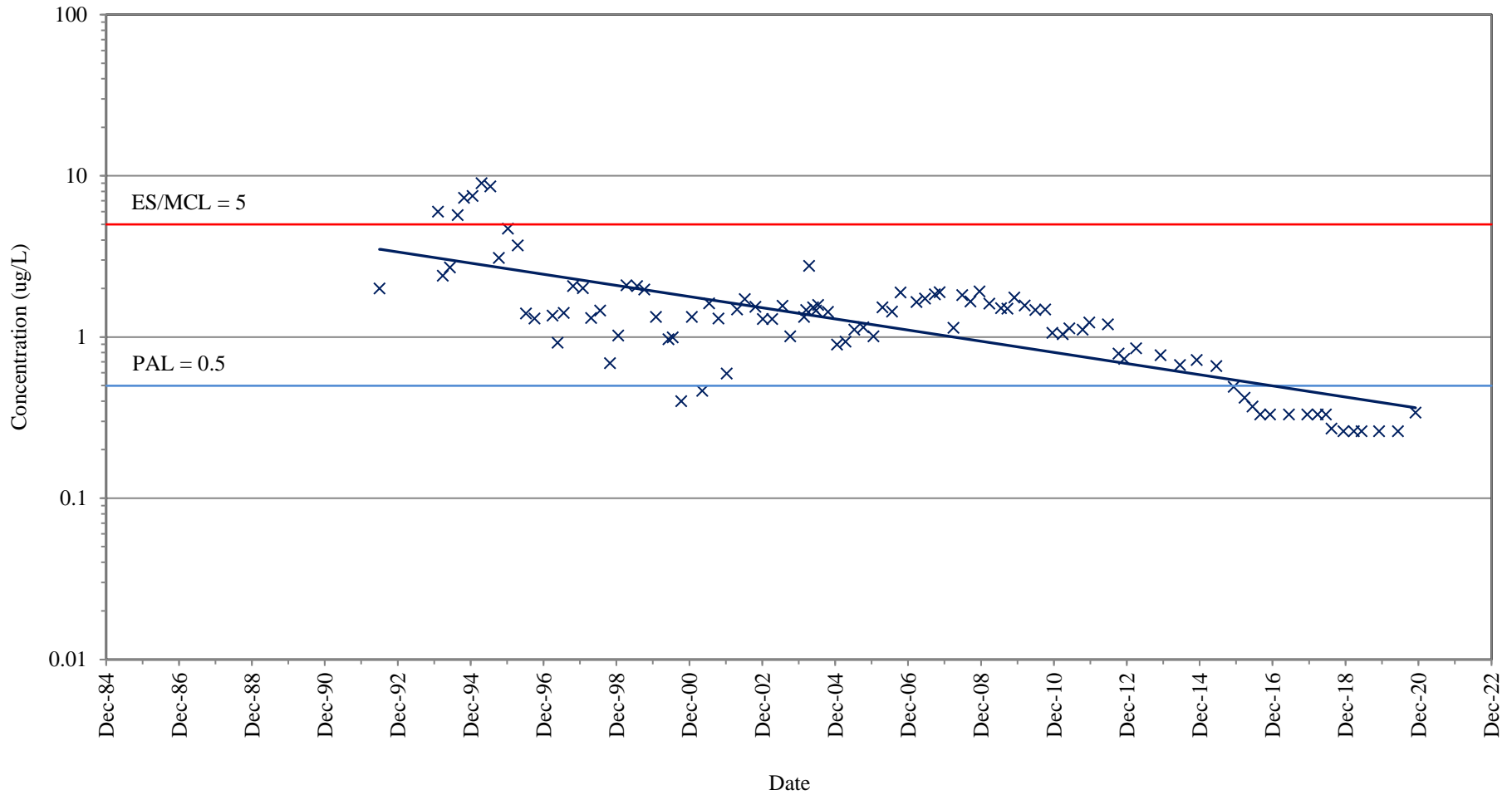
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-55C (GRID COORDINATE D6)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



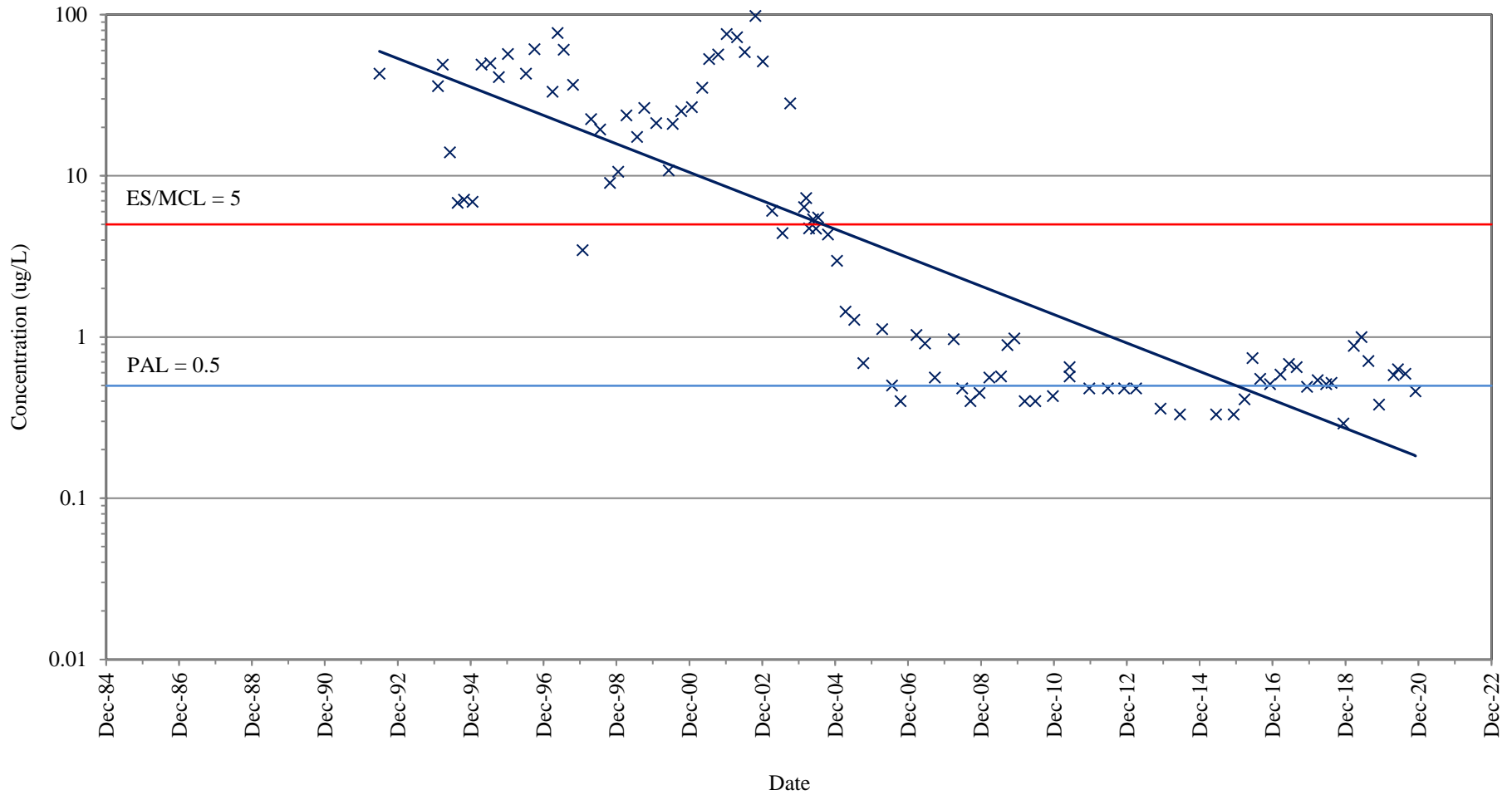




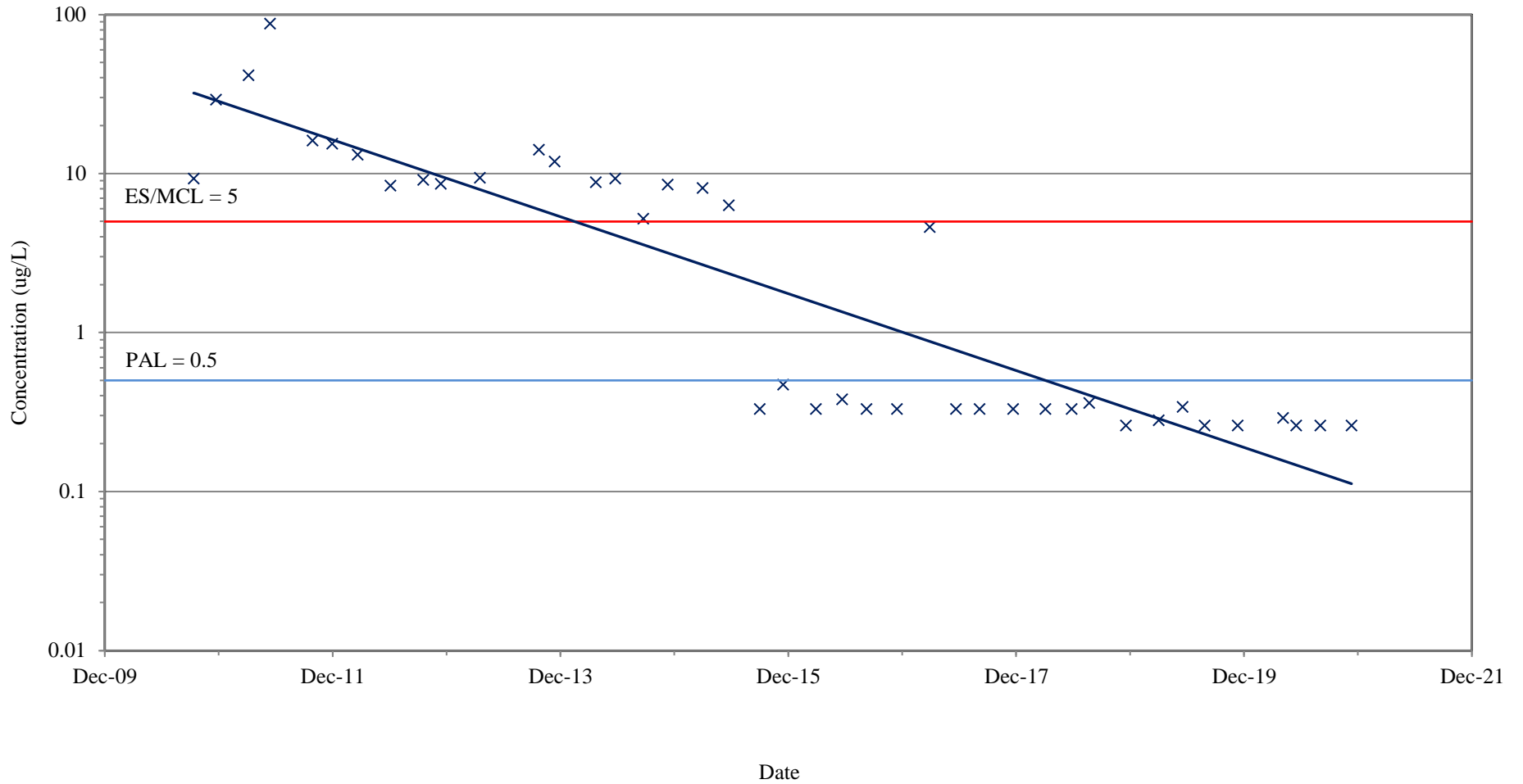
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-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.

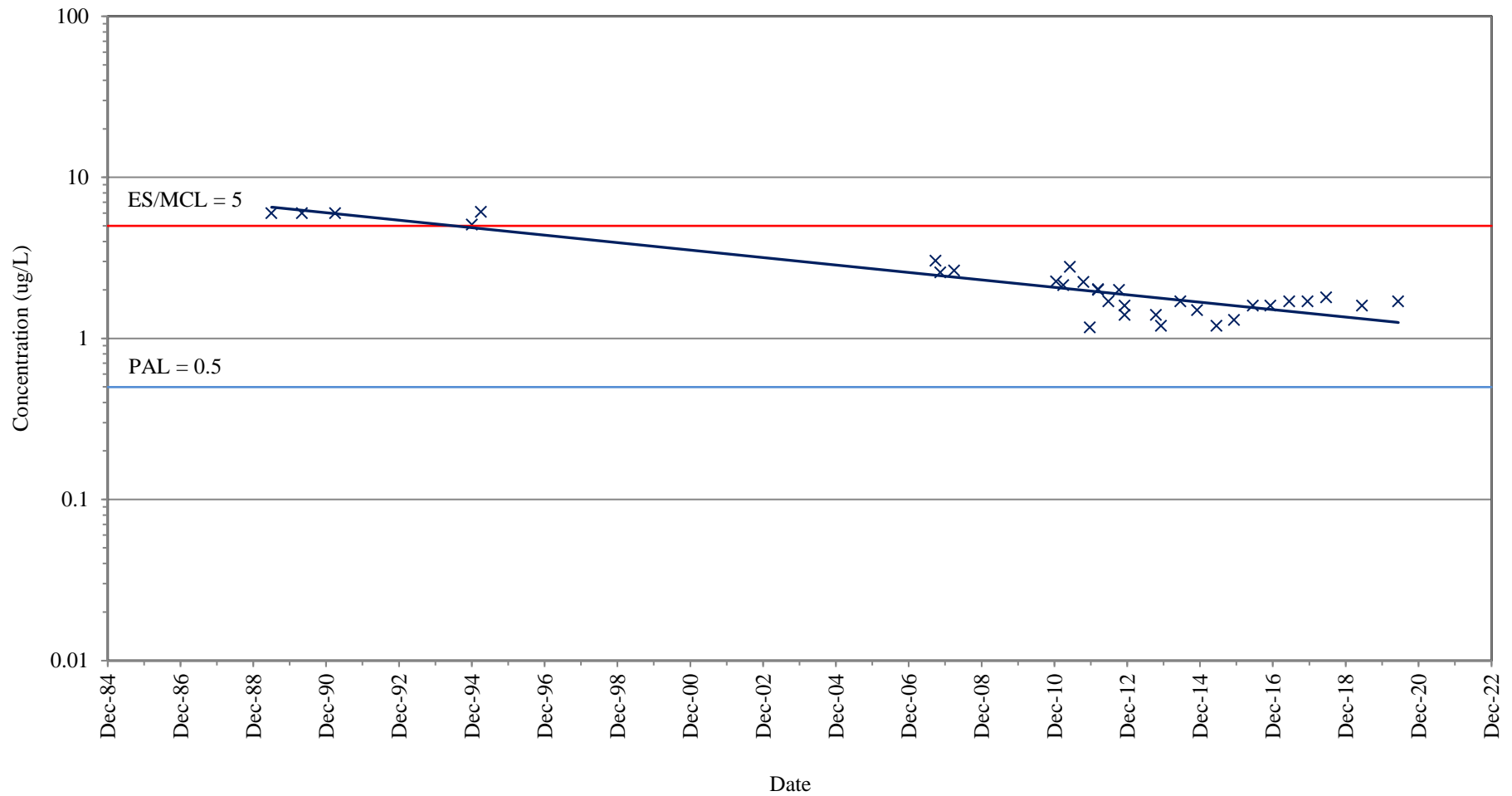
**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**MW-76A (GRID COORDINATE K7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN





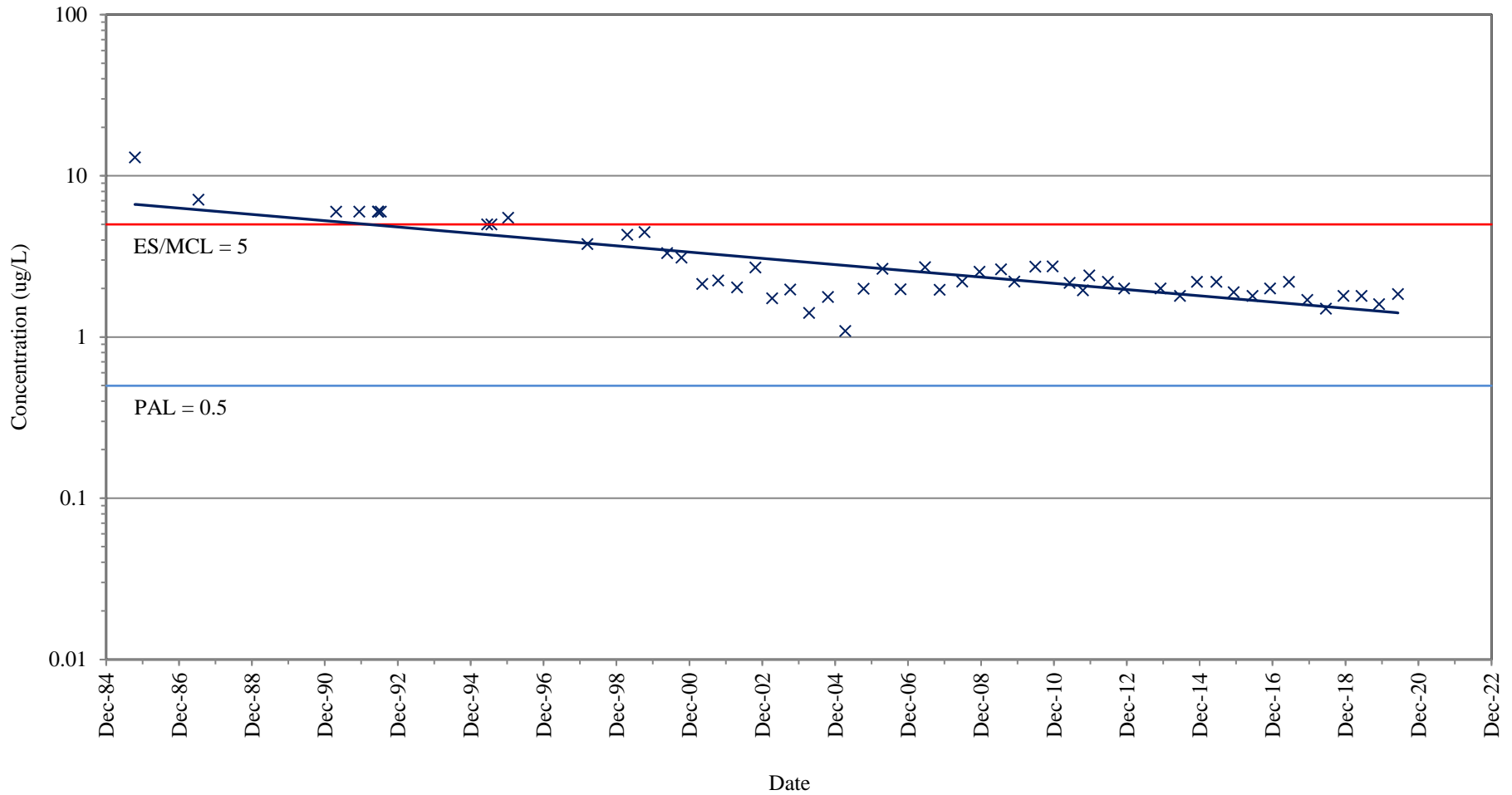




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**RW-2C (GRID COORDINATE J7)**

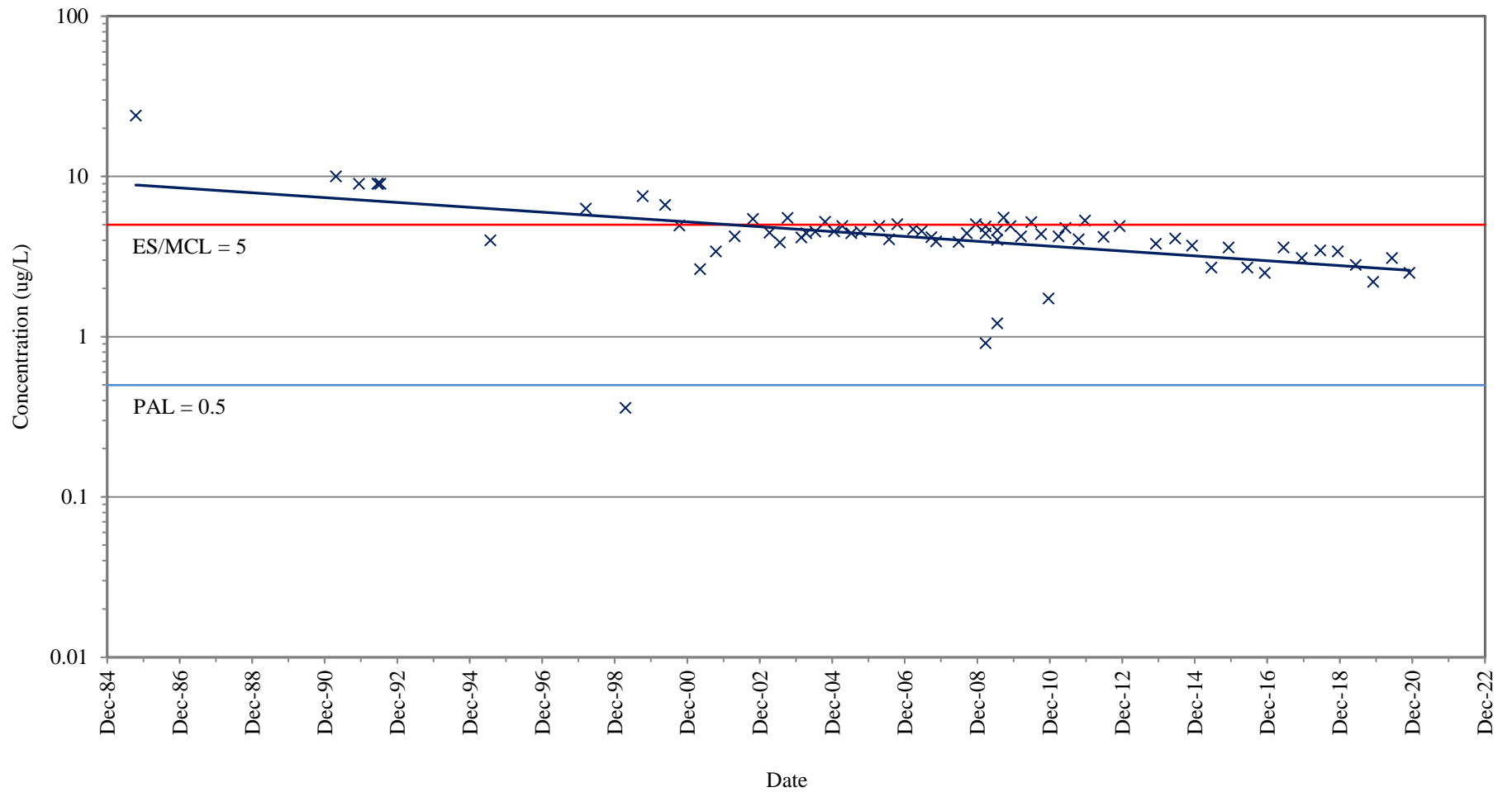
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

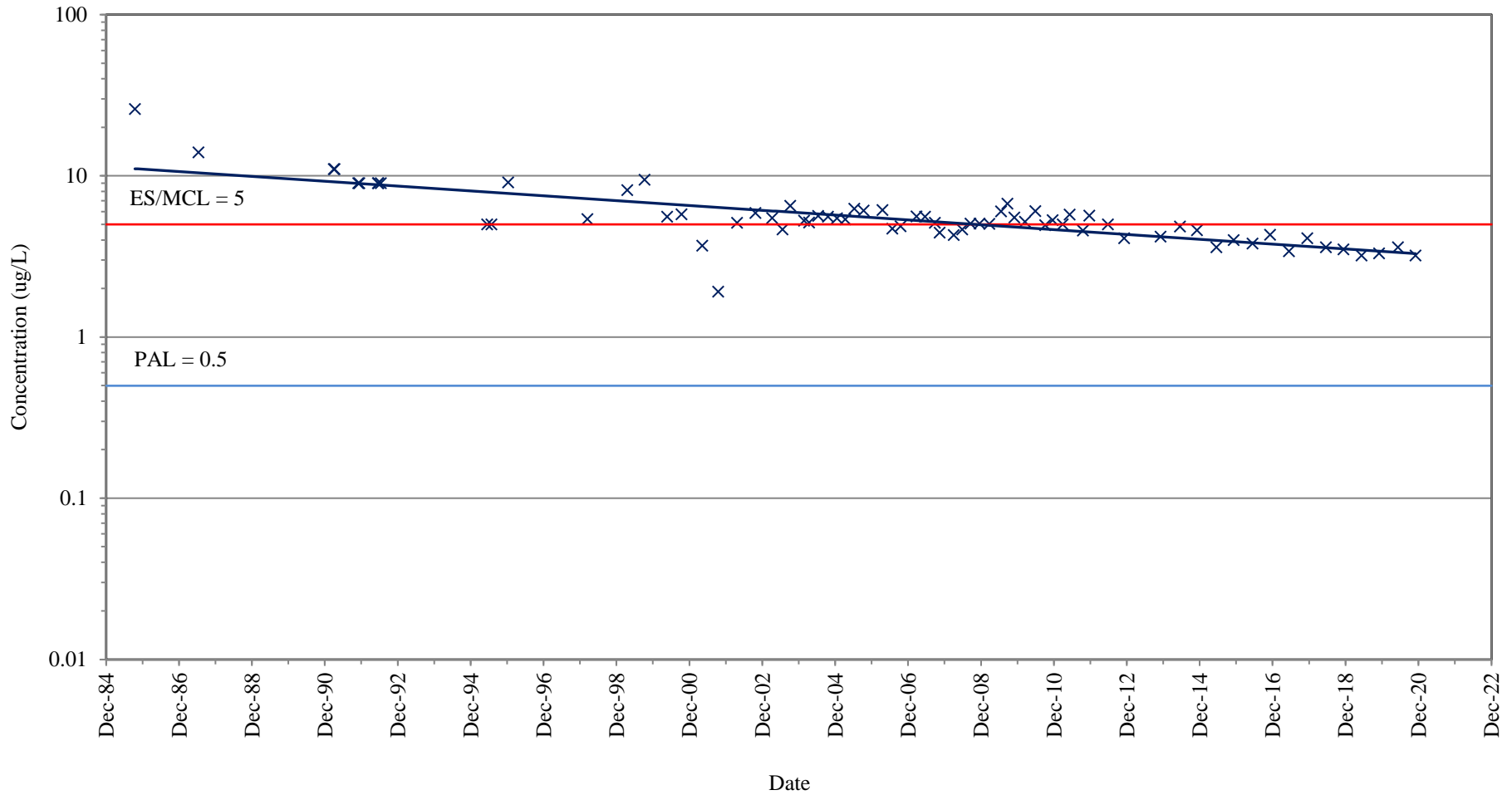
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

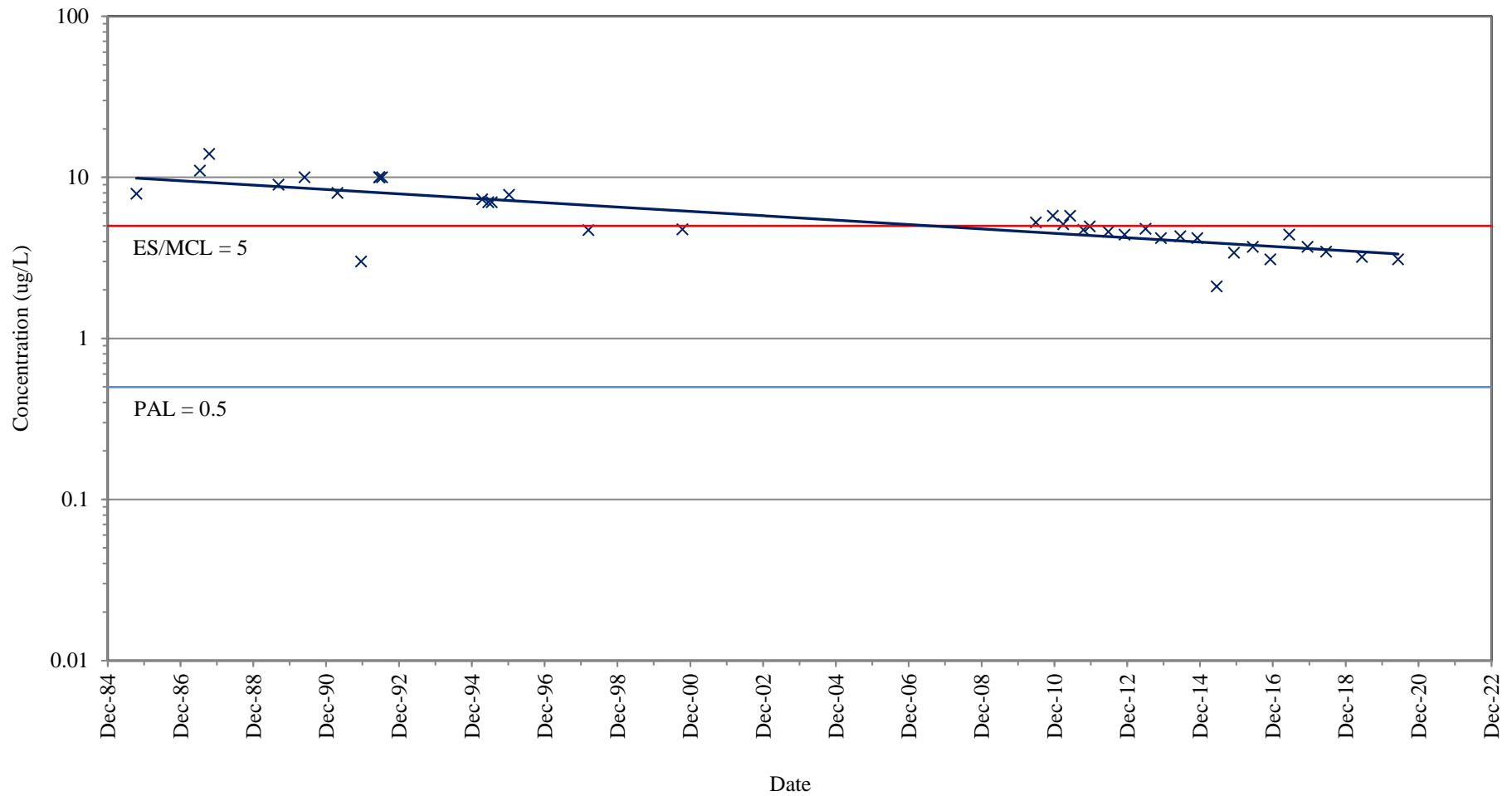
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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)**

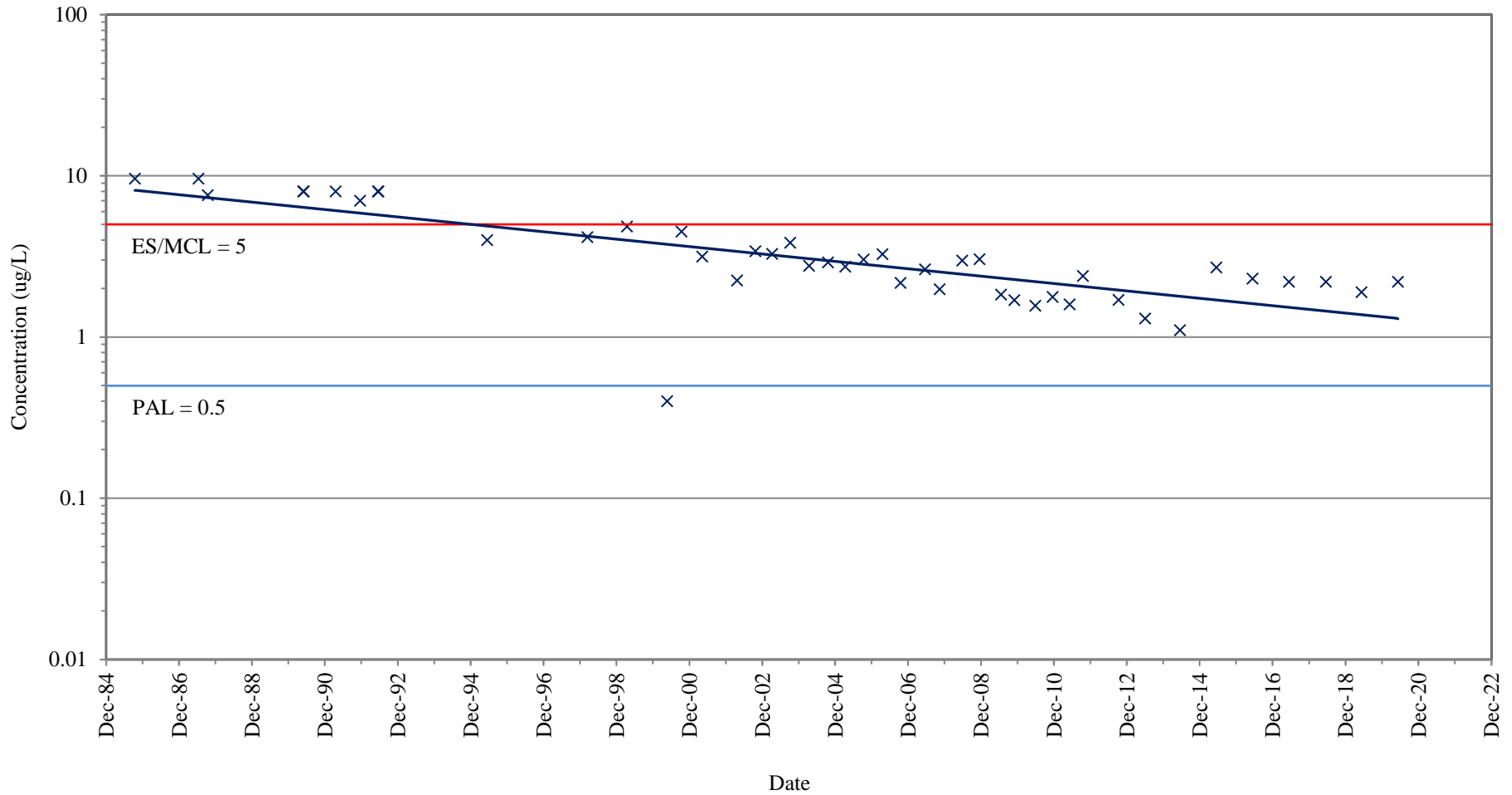
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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

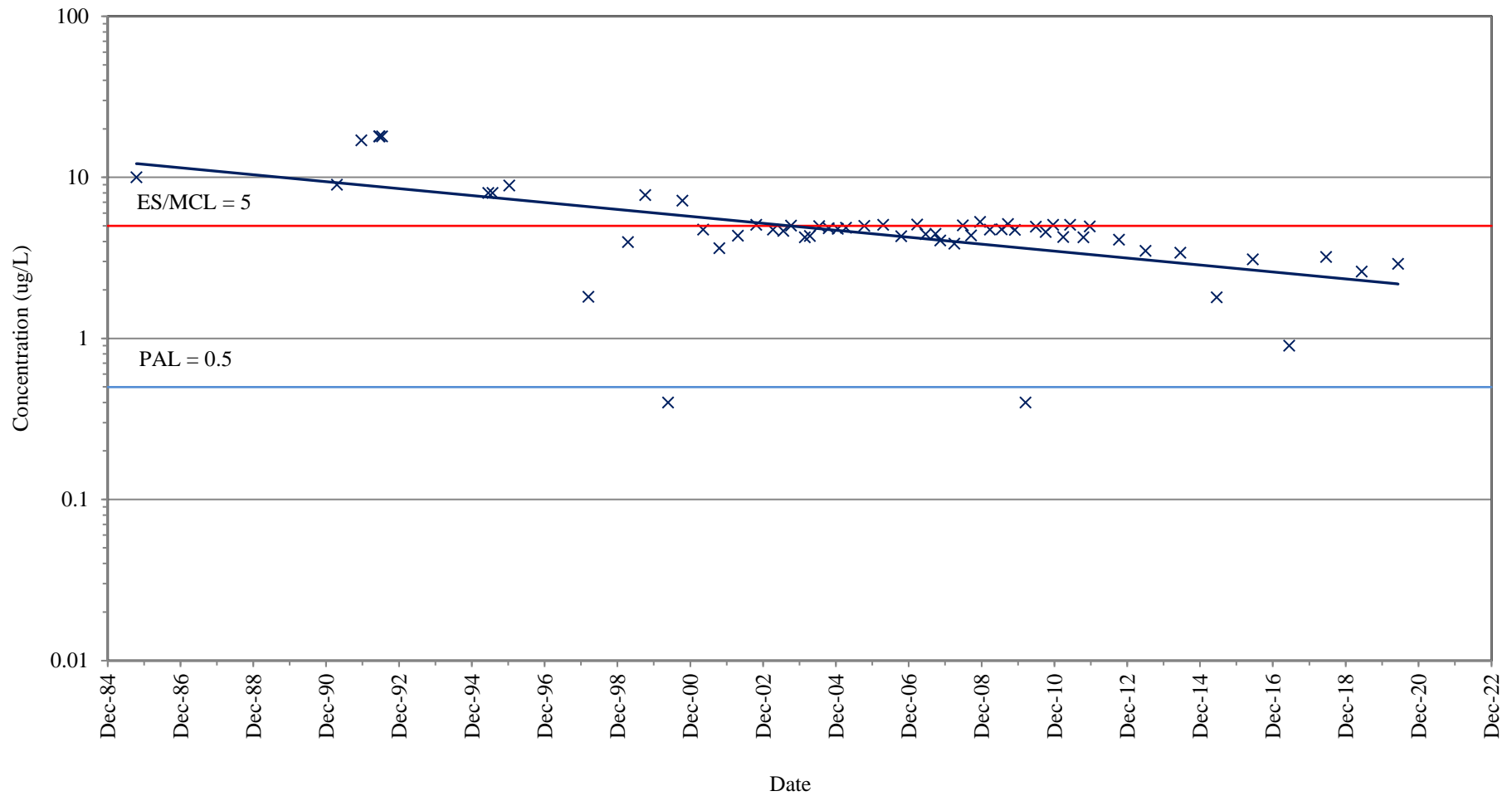


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**RW-16 (GRID COORDINATE G7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

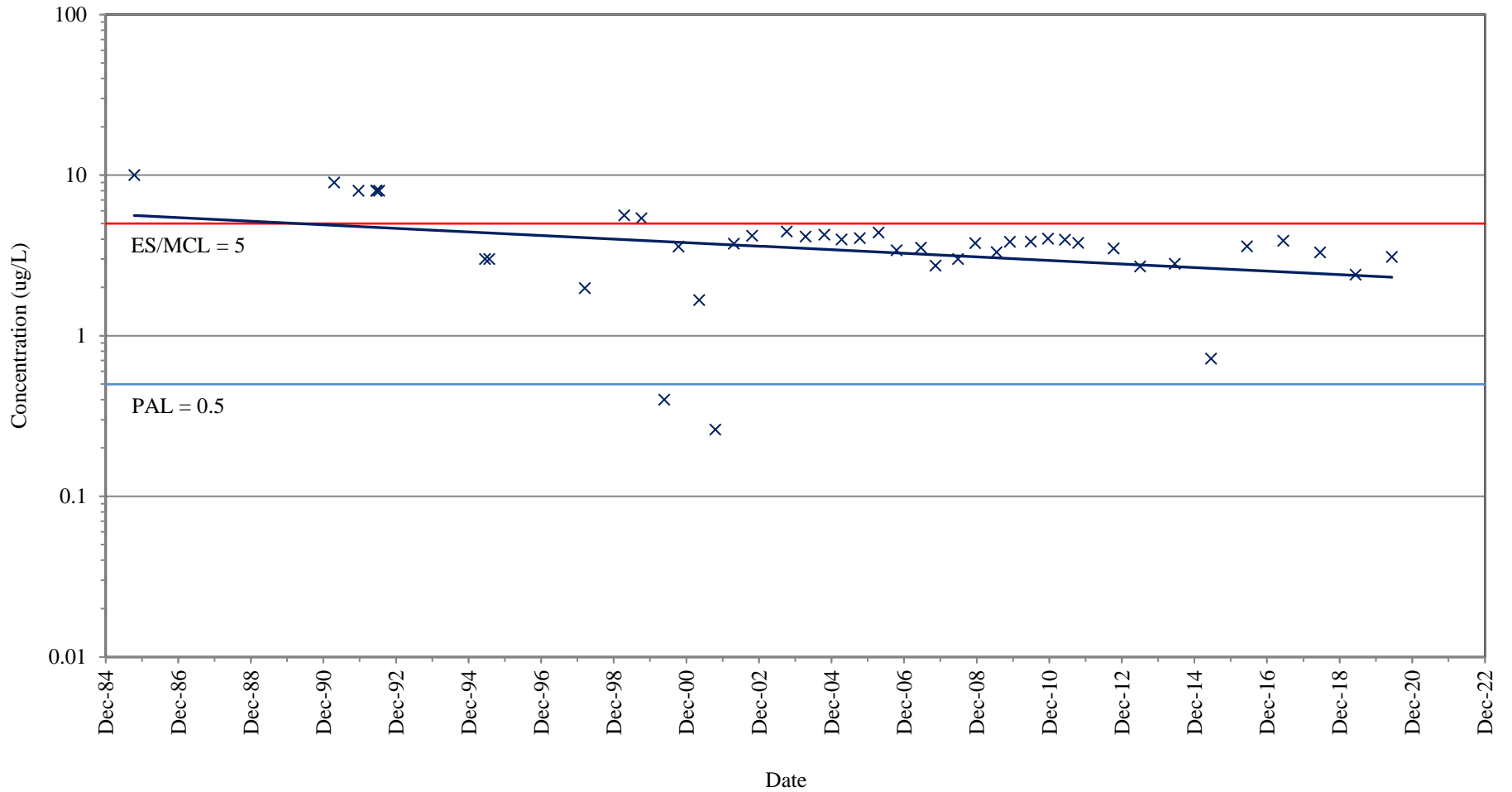




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**RW-16B (GRID COORDINATE G7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



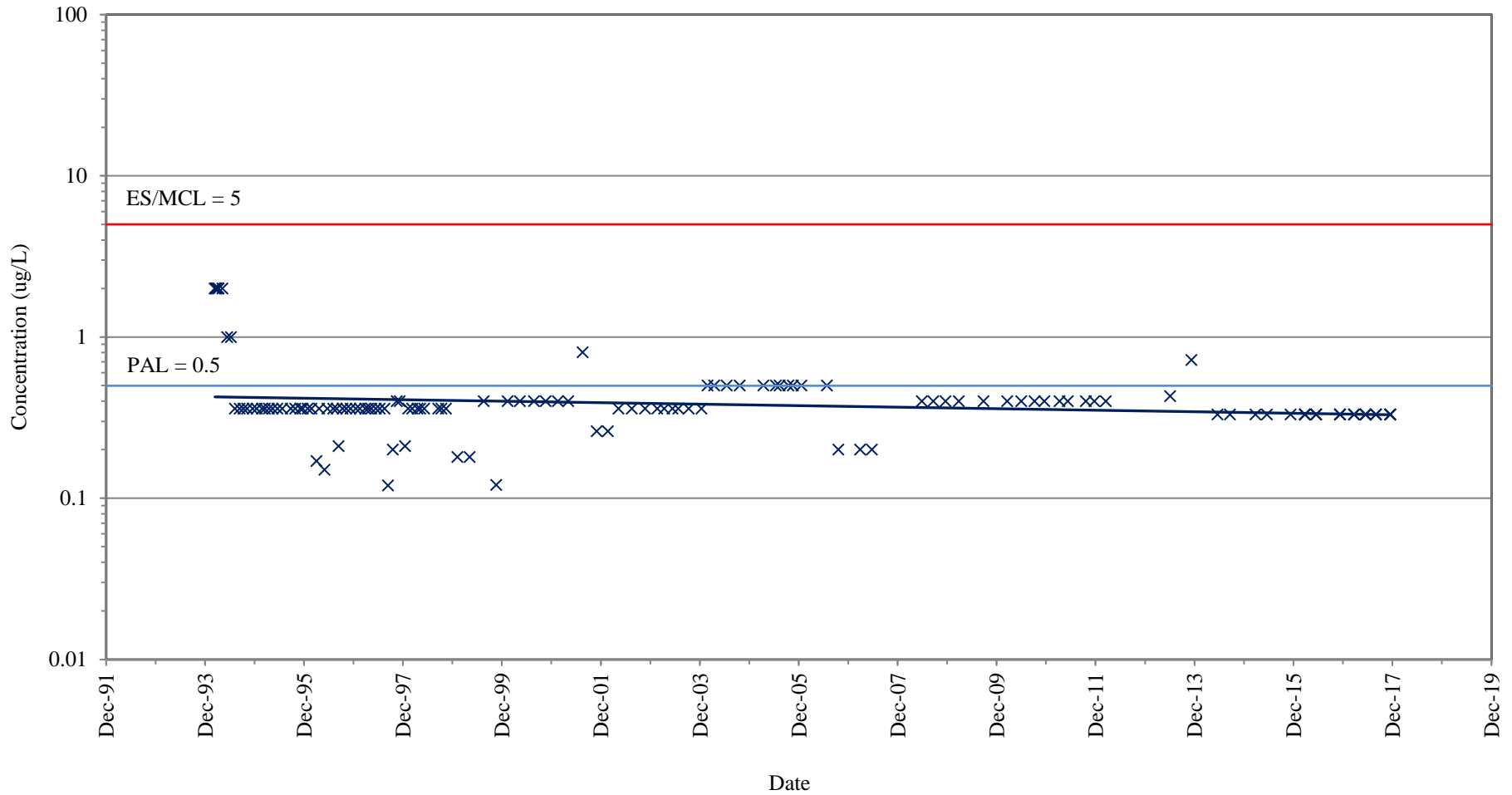
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS**  
**RW-16C (GRID COORDINATE G7)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

**APPENDIX E**

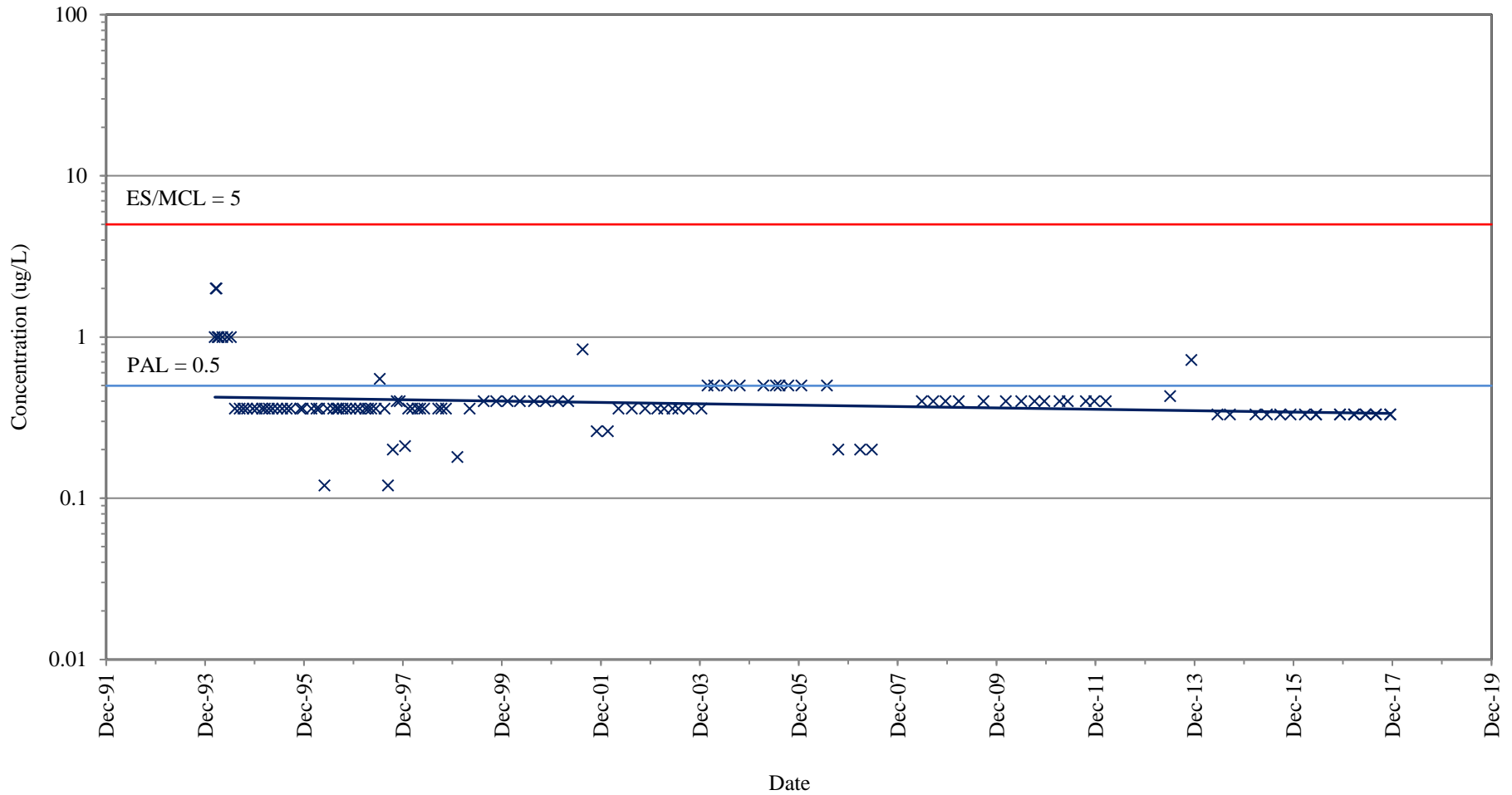
**TCE CONCENTRATION VERSUS TIME GRAPHS**  
**FORMER PLUME 3/4 (MELBY ROAD DISPOSAL SITE)**



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**EW-1/1R (GRID COORDINATE L6)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

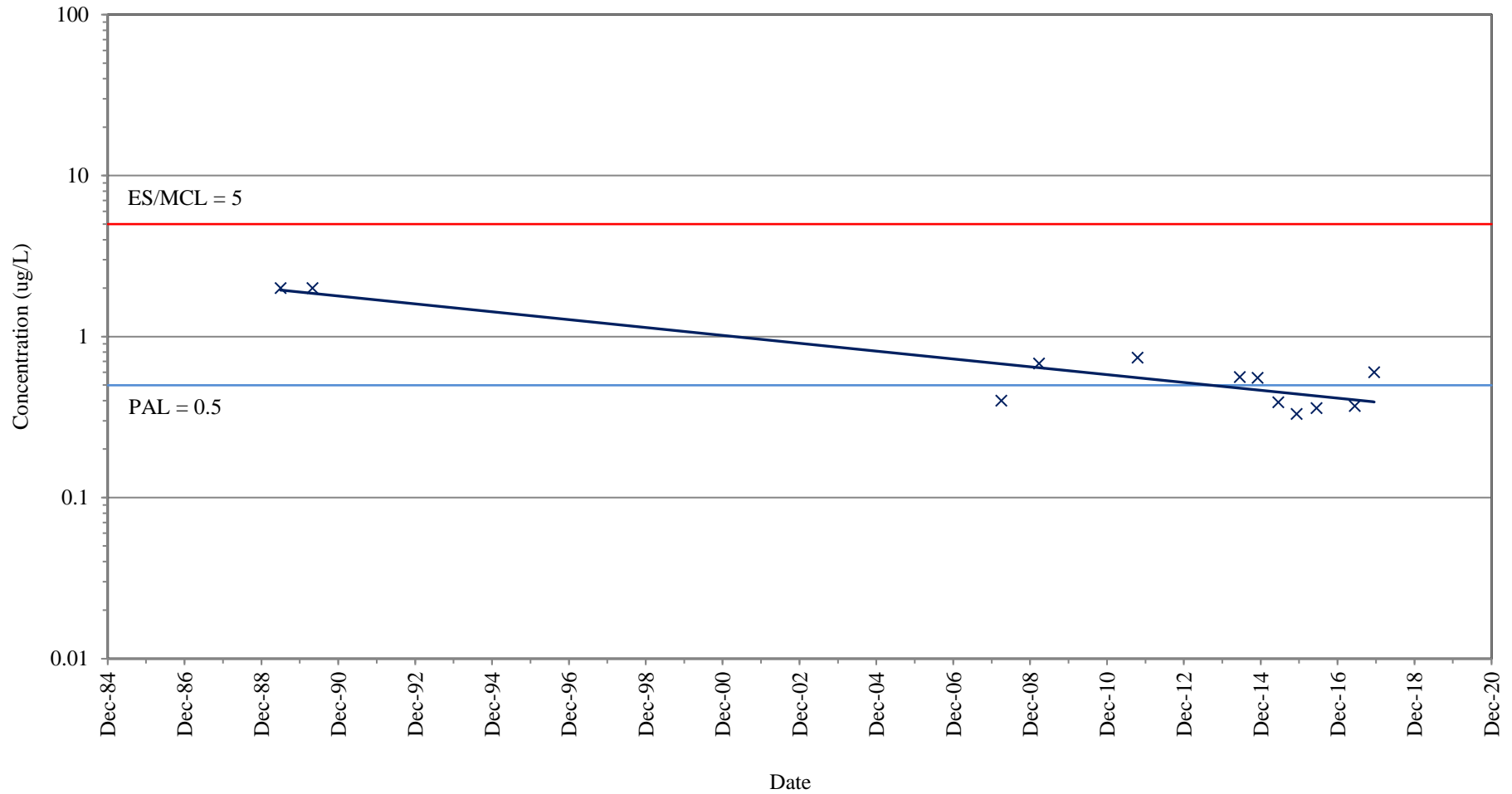


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**EW-2 (GRID COORDINATE L6)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

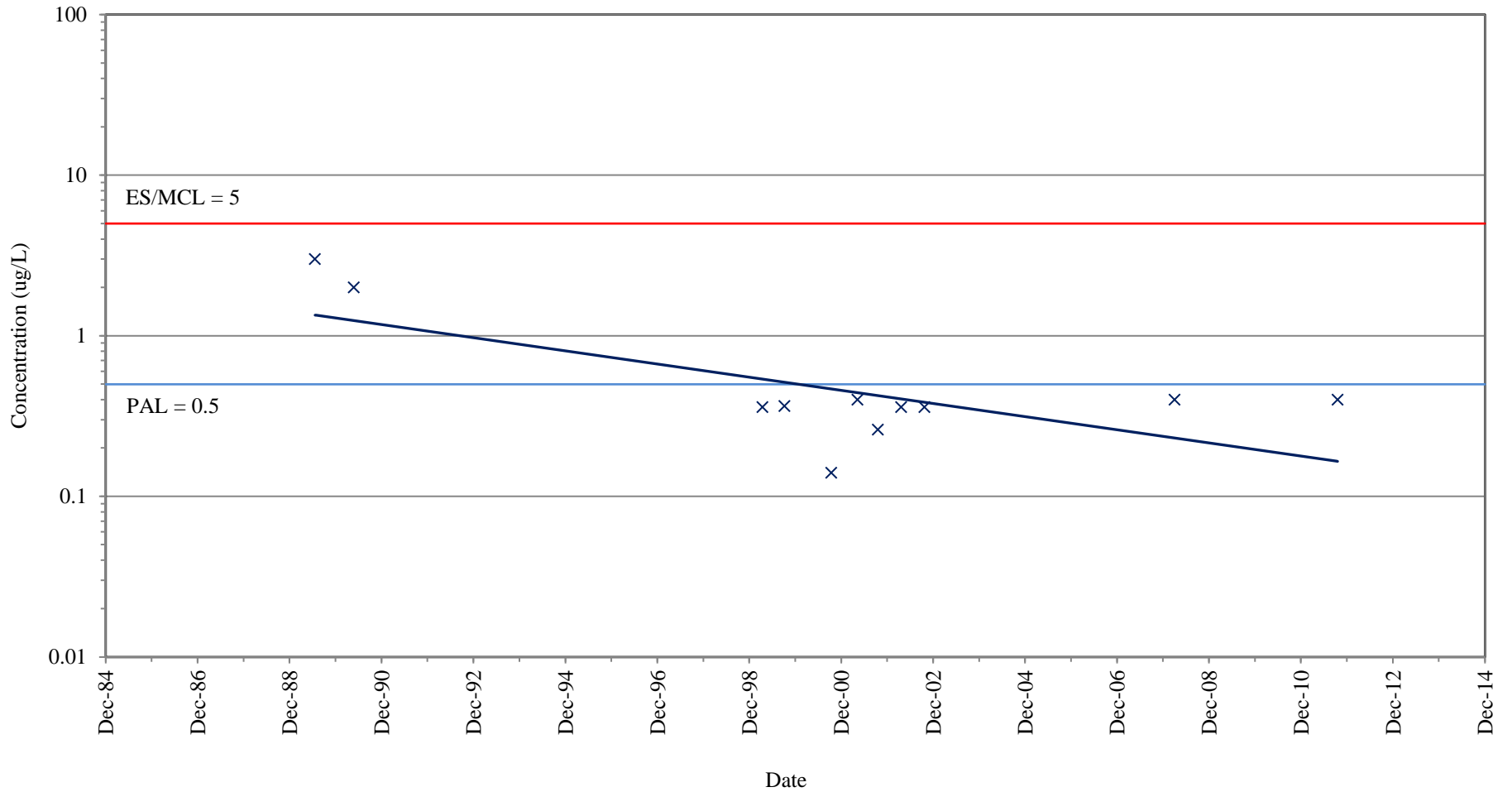




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**MW-26B (GRID COORDINATE L5)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

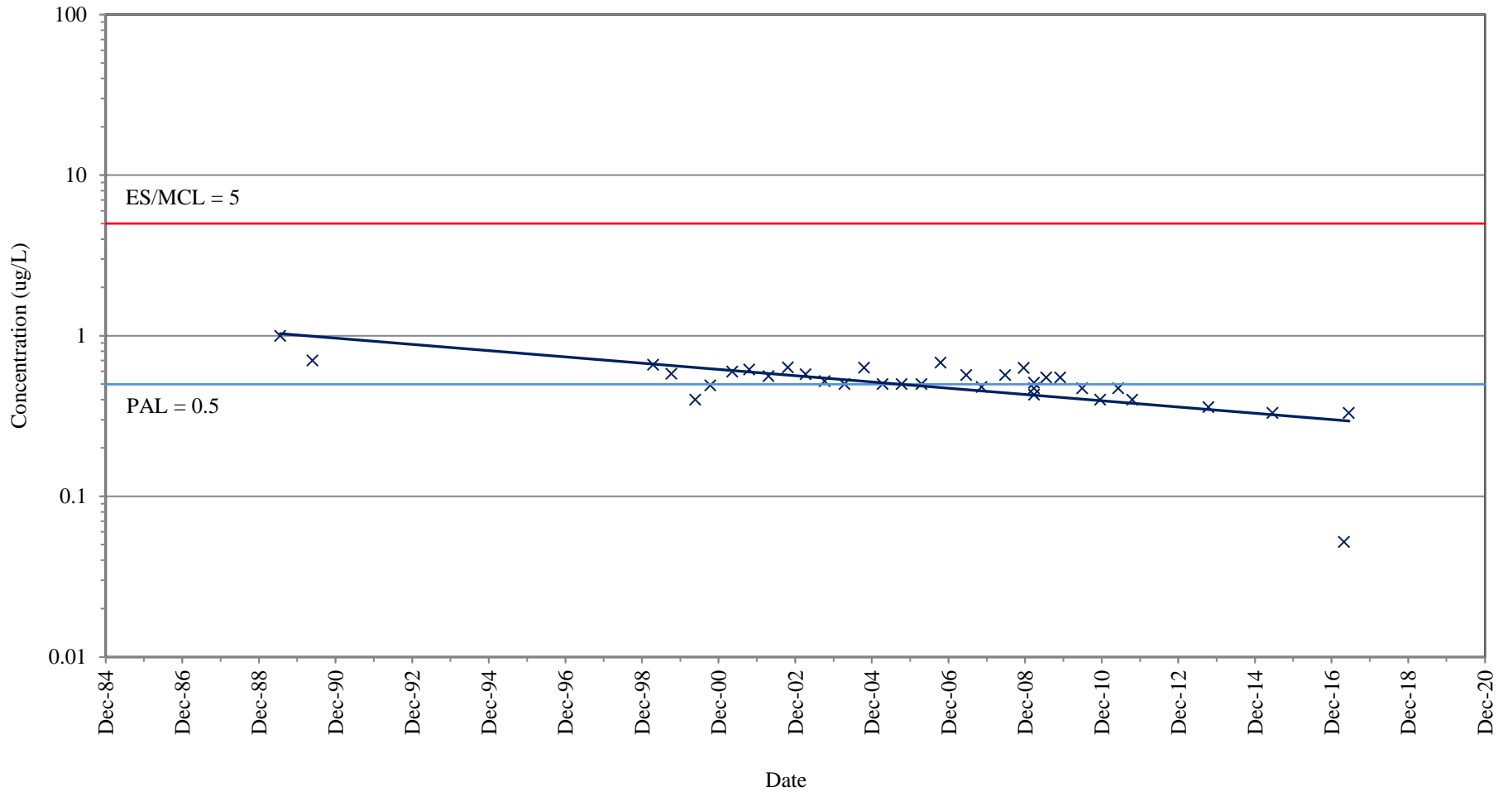


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**MW-27B (GRID COORDINATE L5)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



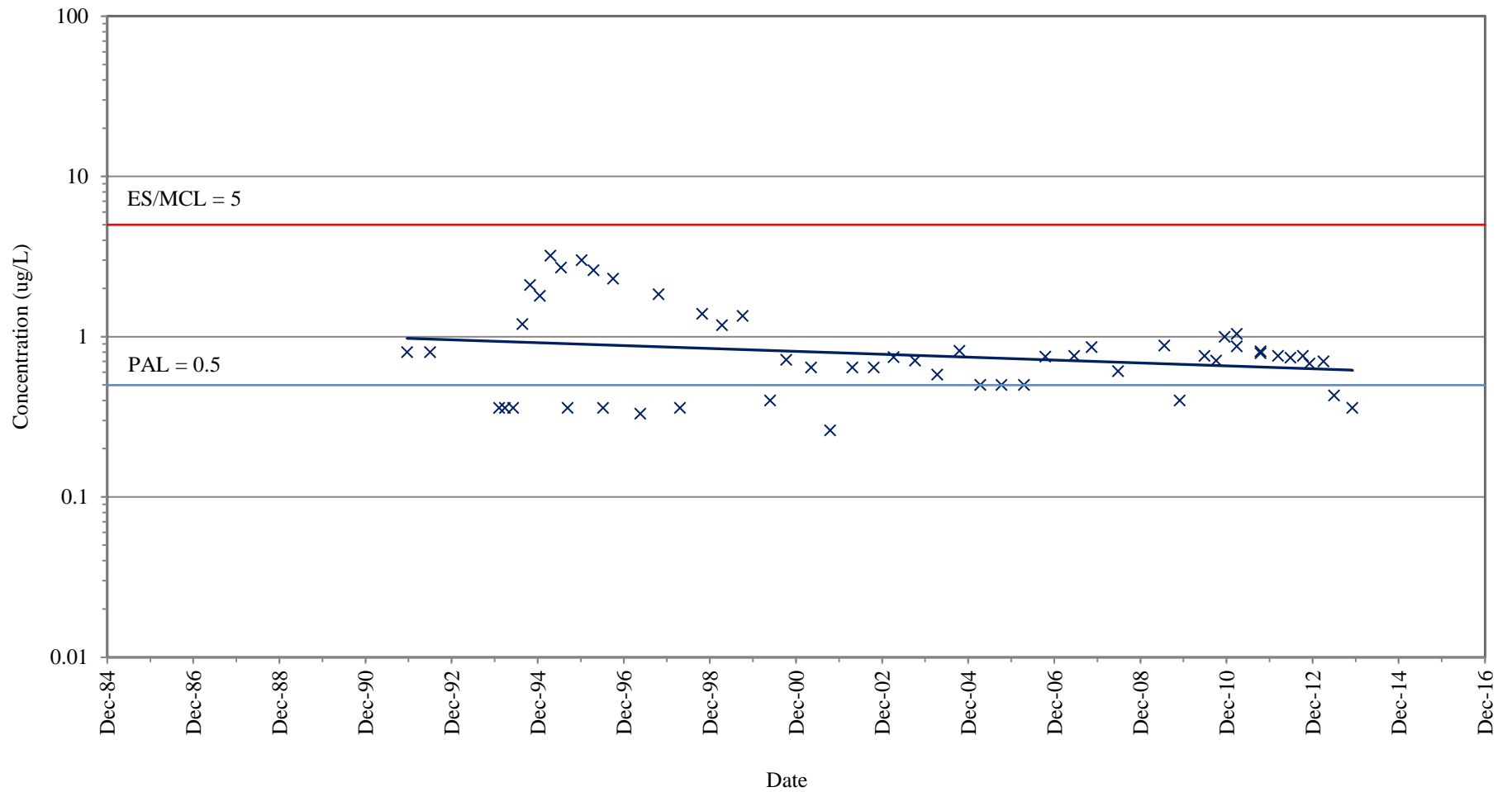


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**MW-29B (GRID COORDINATE L3)**

NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN

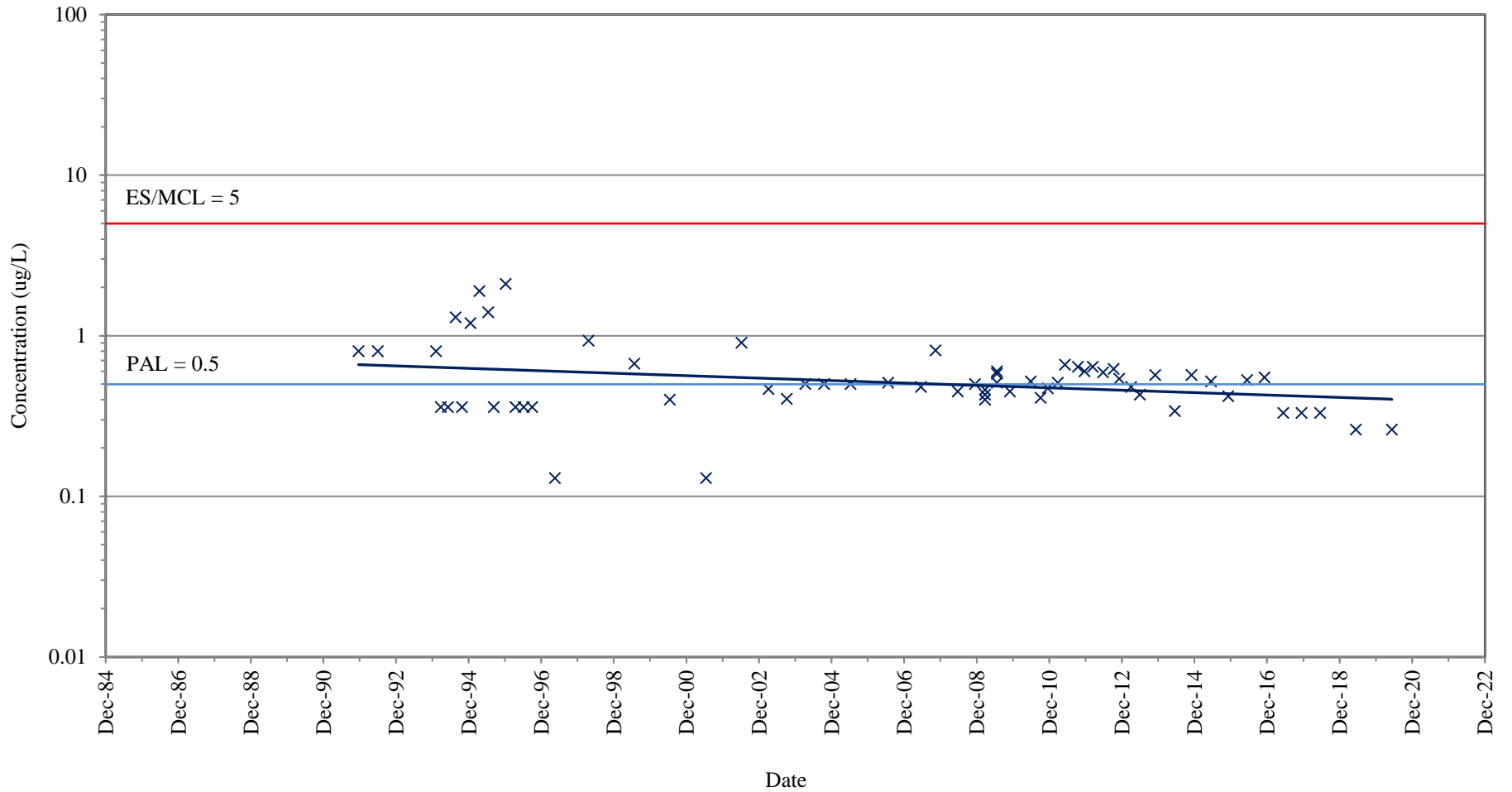




Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

**PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS**  
**MW-64C (GRID COORDINATE L6)**

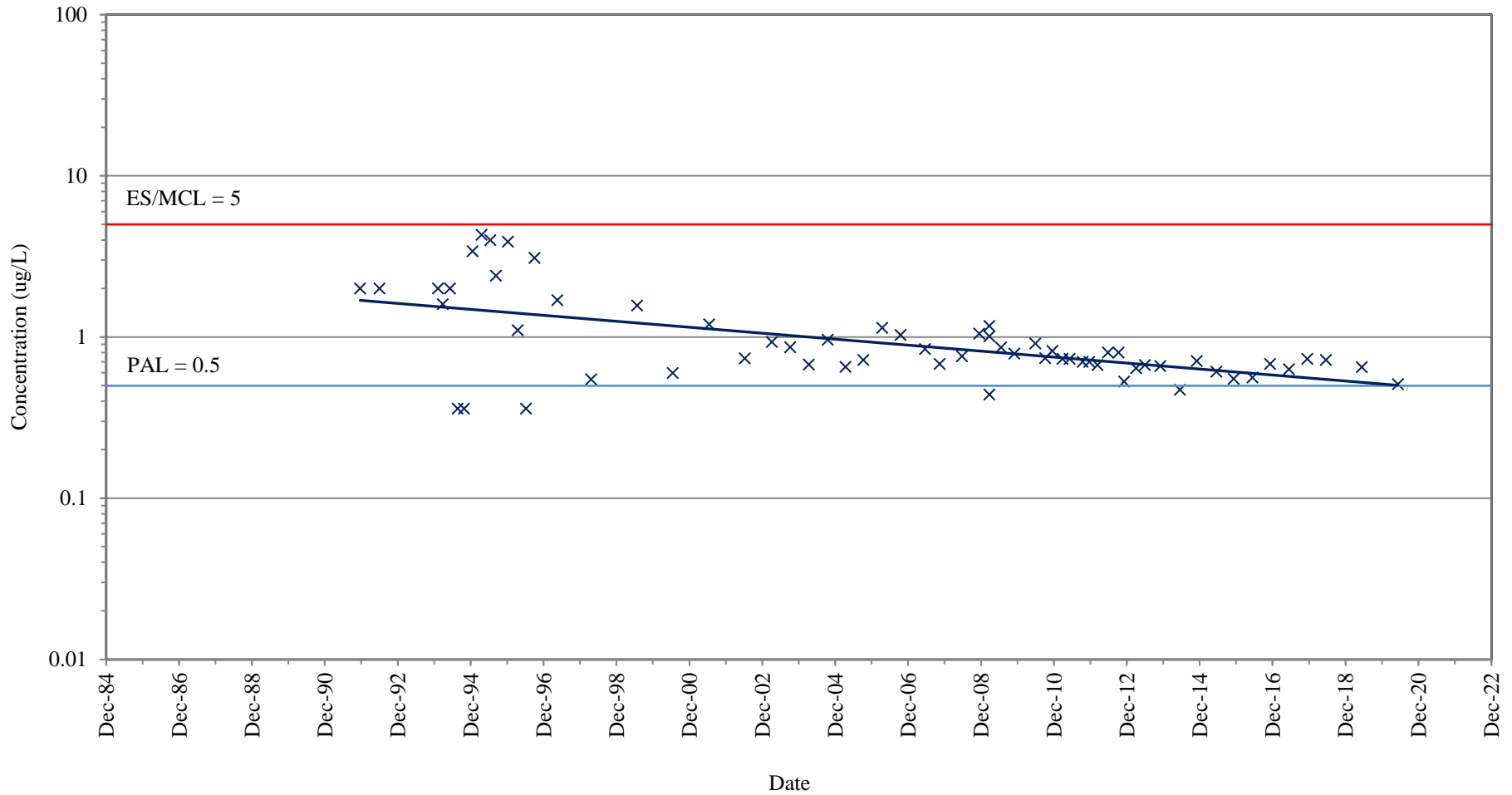
NATIONAL PRESTO INDUSTRIES, INC.  
 EAU CLAIRE, WISCONSIN



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