Interim Action Report

Former Loeb-Lorman Scrapyard – Oak Parcel

March 24, 2023 | Project Number: 58217147

Prepared for:

City of Fort Atkinson 101 North Main Street Fort Atkinson, Wisconsin





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March 24, 2023

Wisconsin Department of Nature Resources 3911 Fish Hatchery Road Fitchburg, Wisconsin 53711

Attn: Mr. Jeff Ackerman E <u>Jeffrey.Ackerman@wisconsin.gov</u>

RE: Interim Action Report Former Loeb-Lorman Scrapyard – Oak Parcel 600 Oak Street Fort Atkinson, Wisconsin 53538 BRRTS #02-28-590228 Terracon Project No. 58217147

Dear Mr. Ackerman:

Terracon Consultants, Inc. (Terracon) is pleased to submit this Interim Action Report (IAR) for the above-referenced site. On behalf of the City of Fort Atkinson, Terracon will upload this IAR to the Wisconsin Department of Natural Resources' (WDNR's) online submittal portal. We appreciate your continued assistance with this project.

Sincerely, Terracon

Lucas P. Chabela

Edmund A. Buc, P.E.

Department Manager

Senior Staff Geologist

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1.0 Executive Summary

The City of Fort Atkinson (City) retained Terracon Consultants, Inc. (Terracon), to assist in responding to the discharge of hazardous substances present at the remedial action site known as the former Loeb-Lorman Scrapyard properties with the mailing addresses 115 Lorman Street, 600 Oak Street, and 205 Hake Street, Fort Atkinson, Wisconsin. The interim activities for this report occurred only on the 600 Oak Street parcel ("the Oak parcel," also "the Site"). The City acquired the three Lorman parcels utilizing award fund from a Community Development Block Grant (CDBG) administered by the Wisconsin Department of Administration (DOA) Division of Energy, Housing and Community Resources (DEHCR). DOA allocates these grants through federal funds received via the United States Department of House and Urban Development (HUD).

The CDBG grant had two unique requirements that complicate its application at a remedial action site. First, upon exhaustion of its award, the City is not authorized to construct vertical construction on the Site for a period of 5 years, or until 2028. Second, the City's award under the CDBG grant was set to sunset and expire by December 31, 2022. Therefore, all City authorized work under the CDBG grant had to be contracted for prior to that date, including work for any interim actions at the Site.

Given this unusual circumstance for an open remedial action site, the City engaged Terracon to assist in the development and implementation of interim actions at the Site. Upon discussing the conceptual approach and limitations created by the CDBG grant with Mr. Trevor Nobile and Mr. Issac Ross of the Wisconsin Department of Natural Resources (WDNR), interim actions were undertaken to address lead identified during site investigation activities. The objective of the interim actions was to conduct specific activities to stage this remedial action site for future redevelopment where regulatory closure would not be contemplated for the immediate future. At the suggestion of Mr. Ross of WDNR, the City is to follow the model of other former industrial sites, including the activities from 2020 to present at the former Reed Street Yards property in Milwaukee, Wisconsin (BRRTS #02-41-560199, FID #341228800).

Prior to considering interim actions, Terracon proposed a site remedy consisting of capping soil containing constituents at concentrations above their industrial, direct-contact residual contaminant levels (RCLs), proposed in a July 11, 2022 document submitted to the WDNR tilted *Site Investigation and Remedial Action Options Report*. The WDNR responded in its letter on August 5, 2022 with the suggestion to open a new case number for the Site so it won't be comingled with the Lorman parcel. Additionally, the WDNR concurred the site investigation was complete based on planning and implementation of remediation activities of the Site. The WDNR also suggests source removal of lead contaminated soil as a remedial strategy. In a September 29, 2022 letter for all three parcels, the WDNR responded with not



approving the proposed remedy of capping and provided specific rational for the lack of approval.

The City and Terracon requested meetings with the WDNR to consider implementation of activities under the interim action framework at the Site. The City and Terracon undertook activities incorporating WDNR feedback to address direct-contact risk for metals and set the stage for development of the site at a future date. Details of the transaction of the property, CDBG grant funding, and interim action options were discussed on October 25, 2022 and on January 24, 2023 during virtual conference calls with the City, Terracon, WDNR and United States Environmental Protection Agency (USEPA).

The interim actions included in situ treatment, excavation, and off-site disposal of leadcontaminated soil at two areas on the Site to remove the immediate health risk for directcontact exposure and construction of an interim cap to stage the site for future redevelopment. Soil treatment and excavation activities were completed in January 2023 to remove soil containing lead at the Site at concentrations exceeding 5,000 milligram per kilogram (mg/kg), documented on the site from 2-5 feet. Approximately 286 tons of soil were treated, characterized to verify adequate treatment, excavated, and disposed of at the Waste Management, Inc. Deer Track Park Landfill. Based on observed concentrations at the time of removal, the excavation activities removed approximately 50% of the lead contaminant mass in soil at the Site.

The City intends on addressing unanswered comments from WDNR letter dated September 29, 2022 and any specific comments regarding this interim action report, in a to-besubmitted site investigation report to inform future site investigation activities on the Site. This clarification is important because the City does not intend the interim actions performed to be the final remedy at the site, nor is this report is an attempt to comprehensively address all of WDNR's valid technical questions and comments, which require specific attention due consideration.

Given the Site cannot be developed for 5 years, the City is committed to take any necessary actions to stabilize the site and stage the site for consideration for development. WDNR officials indicated that imposition of a continuing obligation related to the temporary capping activities on site may be appropriate as the site is staged for future redevelopment. Once a development plan is identified, remaining remedial actions necessary will be performed as efficiently as possible with the proposed redevelopment.

2.0 Introduction

The City of Fort Atkinson (City) retained Terracon Consultants, Inc. (Terracon) to perform a Site Investigation (SI) for the former Loeb-Lorman Scrapyard properties located at 115 Lorman Street, 600 Oak Street, and 205 Hake Street, Fort Atkinson, Wisconsin. The NR



716, Wisconsin Administrative Code (WAC) SI was performed to delineate the extent of impacted soil and groundwater that was identified at the site in July 2021 during a limited site investigation (LSI). On behalf of the City, Terracon completed a Notification for Hazardous Substance Form 4400-225 and submitted it to the Wisconsin Department of Natural Resources (WDNR) in an electronic mail dated September 2, 2021. The WDNR issued a Responsible Party (RP) letter to the City dated September 17, 2021, and a BRRTS activity number of #02-28-588371 was assigned. Initial SI activities were completed in general accordance with Terracon's November 8, 2021 Site Investigation Work Plan (Revised). Subsequent investigation work was completed in response to comments provided by the WDNR in a December 7, 2021 letter. On July 11, 2022, a *Site Investigation and Remedial Action Options Report* was submitted to the WNDR along with a "Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request" (WDNR form 4400-237) and associated fee.

During follow-up telephone conversations with the WDNR and as noted in a WDNR letter dated August 5, 2022, recommendations were made to consider the three parcels as three separate sites, rather than being administered under a single BRRTS number. The BRRTS activity number of #02-28-590228 has been applied to the parcel at 600 Oak Street (the "Site"). The other two parcels located at 115 Lorman Street and 205 Hake Street will be addressed separately in future report submittals.

After the submittal of the July 11, 2022, *Site Investigation and Remedial Action Options Report,* the WDNR issued a letter dated August 5, 2022 which recognized the separation between the 600 Oak Street parcel from the main property at 115 Lorman Street. Within the letter, the WDNR concurred with the site findings that the site investigation was complete. In addition, the WDNR addressed the remedy of using 6" of a crushed concrete/gravel engineered barrier as a remedy for the lead-impacted soil and recommended mass removal would be more appropriate.

Due to the nature of the transfer of the property from the former owner to the City of Fort Atkinson and associated grant funding deadlines, limited time was available to conduct additional investigation prior to development and implementation of a remedy. Completion of interim actions at the site were discussed to meet grant deadlines while addressing direct-contact risk for lead and set the stage for development of the site at a future date. The interim action plan included treatment, excavation, and off-site disposal of leadcontaminated soil at two areas on the site to remove the immediate health risk for directcontact exposure and for overall mass removal and construction of an interim cap to prepare the site for future redevelopment. Details of the transaction of the property, funding, and interim action options were discussed via October 25, 2022 and January 24, 2023 conference calls with the WDNR and United States Environmental Protection Agency (USEPA). In the virtual conferences with WDNR, the City was not directed to prepare a design report and plans under NR 708.11(4), Wisconsin Administrative Code (WAC) prior to



implementation of activities. The City greatly appreciates the WDNR's willingness to allow implementation interim actions given the constrictions of the CDBG grant.

Terracon evaluated potential interim actions within the framework of allowable immediate actions under NR 708.05, WAC, and specific actions under NR 708.11(2), WAC. From November 2022 through January 2023, interim action options were implemented to remove lead-contaminated soils exceeding the industrial-direct contact RCL. Using spatial distribution software, Terracon used the highest concentration of lead documented at each soil boring to contour the worst-case scenario for lead contaminated soil. Necessary supplemental site investigation activities were completed at the site in September 2022 to refine the limits of excavation and evaluate the presence of lead in surficial soil. To the extent practicable, soils between 2 and 5 feet containing a lead exceeding 5,000 mg/kg, were targeted for the interim action goal of mass removal to minimize the threat to public health, safety, or welfare or the environment consistent with NR 708.11(a), WAC. Terracon proposed achieving this interim action goal by 1) addressing the direct-contact health risk; and 2) achieving mass removal for lead contaminated soils. The 2 feet to 5 feet zone was selected to be removed as concentrations identified in 3 foot and 4 foot samples contained elevated concentrations of lead up to 41,000 milligrams per kilogram (mg/kg) and TCLP lead concentrations above its 5 milligram per liter (mg/L) limit.

In late January 2023, the interim action consisting of in-situ stabilization treatment, soil excavation, , and off-site disposal was conducted. Lead-contaminated soil was excavated from two areas (Areas 1 through 2). Based on the landfill tonnage reports, approximately 286 tons of lead-contaminated source soil was removed. Approximately 50% of lead-contaminated soils have removed.

A temporary cap of crushed concrete/asphalt and up to 3-inches of seeded topsoil will be placed across the site as an interim cap. The cap is proposed as a temporary engineered barrier to limit the exposure risk to the public and promote the site for redevelopment.

This report was prepared to document the interim actions completed at the site, and to outline future actions that will be taken in the short-term and long-term to stabilize the site, stage the site for redevelopment, complete the remedial actions, and prepare the site for regulatory closure. This report was prepared in accordance with NR 708.15, WAC. Terracon notes that NR 708.15 (1) states that an interim action report be submitted as part of the remedial action report or the site investigation report. As noted earlier, a site investigation report was previously submitted to the WDNR. While the WDNR indicated in its August 5, 2022 letter that the site investigation at the Oak Street parcel is complete, suggested revisions from WDNR (September 29, 2022 letter) and updated information are currently being added to the *Site Investigation and Remedial Action Options Report* to create a comprehensive report for review.



3.0 Property Location, Description and Site Contacts

The former Loeb-Lorman Scrapyard is located in part of the southwest quarter of the southwest quarter of Section 34, Township 6 North, Range 14 East, City of Fort Atkinson, Jefferson County, Wisconsin (Exhibit 1, Appendix A). The former Loeb-Lorman Scrapyard is comprised of 12.2 acres, at the following coordinates:

- WTM: X=615109, Y=274442
- Latitude/Longitude: 42.93684, -88.83408

The former Loeb-Lorman Scrapyard consists of three parcels.

- 115 Lorman Street (Parcel No. 226-0614-3433-0400). This 8.195-acre parcel was formerly improved with unoccupied buildings located in the central and southern portions of the site. The buildings were demolished in late 2022 and early 2023;
- 600 Oak Street (Parcel No. 226-0614-3433-037). This 1.962-acre parcel currently consists of a vacant lot; and
- 205 Hake Street (Parcel No. 226-0614-3432-007). This 2.032-acre parcel is currently vacant.

The Lorman and Hake parcels are adjoining parcels, with the Oak parcel located to the southwest. The site is bordered to the west by the DB Oak Ltd. Property site (BRRTS #02-28-176509), and residences (Oak Street parcel); to the east by Atlas Mikes Bait (231 Hake Street) and Ralph Park (600 Jefferson Street); and the former The Hoard Printing Company (520 Edward Street- BRRTS #02-28-588171); and Uncle Josh Bait/Acme Tackle Company (525 Jefferson Street- BRRTS #02-28-556416) to the south. The Oak Street parcel is bordered to the north by the DB Oak Ltd. Property site, the Lorman Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Atlas Mikes Bait, and the Hake Street parcel is bordered to the north by Opportunities, Inc. (901 Clarence Street). A site diagram illustrating the three parcels comprising the former Loeb-Lorman Scrapyard, adjoining, and nearby properties is provided as Exhibit 2, Appendix A. As noted earlier, for this report, the site will be viewed as the 600 Oak Street parcel only.

Contact information for the site is as follows:

Responsible Party: City of Fort Atkinson c/o Andy Selle, P.E. 101 North Main Street Fort Atkinson, Wisconsin 53538 ASelle@fortatkinsonwi.net



Property Owner:

City of Fort Atkinson c/o Andy Selle, P.E. 101 North Main Street Fort Atkinson, Wisconsin 53538 <u>ASelle@fortatkinsonwi.net</u>

Environmental Consultant: Edmund A. Buc, P.E. Terracon Consultants, Inc. 9856 South 57th Street Franklin, Wisconsin 53213 (414) 423-0255 Edmund.Buc@terracon.com

4.0 Project Background

4.1 Phase I Environmental Site Investigation Report

A Phase I Environmental Site Assessment (ESA) was completed for the former Loeb-Lorman Scrapyard on behalf of the City. Based on the January 21, 2021 Phase I ESA report, the following recognized environmental conditions (RECs) were identified for the Oak Street Parcel:

- "From sometime between 1940 and 1955 through 2015, the 115 Lorman Street parcel was utilized as a scrapyard. Aerial photographs indicate that vehicles were accepted in the 1950s and 1960s. More recently, the scrapyard accepted steel, brass, copper, and related metals, as well as lead-acid batteries. One or more fires requiring fire department response and/or causing building damage occurred during the period of scrapyard activities. In recent years, oily scrap was stored outdoors on concrete pads draining to oil/water separators and used batteries were stored indoors on pallets; however, limited information concerning storage practices prior to the 2000s is available. Most scrap storage areas are unpaved. Industrial equipment using hydraulic oil reservoirs was historically present on the parcel, with on-site fueling activities. Outdoor storage of scrap luggers and related materials expanded to the 205 Hake Street parcel in the 1970s and to the 600 Oak Street parcel in the 2000s. Potential releases associated with scrapyard activities may have impacted the subject property via soil, groundwater, and/or vapor."
- "The 600 Oak Street parcel was utilized for a coal shed beginning as early as 1924 through sometime between 1930 and 1947. Aerial photographs from the period between 1937 through the 1960s depict the parcel with outdoor coal storage.



Potential releases associated with historical coal storage may have impacted the subject property via soil, groundwater, and/or vapor."

- "The 600 Oak Street parcel includes a narrow strip between the adjacent 624 Oak Street parcel and the railroad. The property at 624 Oak Street was identified as a bulk petroleum station, with five vertical ASTs present from 1937 or earlier through 1963/1964. Based on the locations of the ASTs relative to the railroad right-of-way, bulk loading/unloading from railcars may have occurred on the northern section of the 600 Oak Street parcel. Historical releases associated with the bulk petroleum station may have impacted the subject property via soil, groundwater, and/or vapor."
- "The DB Oak Ltd. Property site (BRRTS #02-28-176509) is an open Environmental Repair Program (ERP) site and a former large quantity generator (LQG, generates 1,000 kg or more of hazardous waste) of ignitable waste located at 700 Oak Street, adjoining the subject property to the north and west. Sanborn fire insurance maps indicate that the site may have also been a plating site." "The ERP case was opened in May 1995 to address impacts associated with a former 10,000-gallon PCE AST. The AST was located roughly 100 feet to the west of the 205 Hake Street parcel. Soil and surface water sampling results indicated that CVOCs released along the east side of the site building were being conveyed through a drainage swale running along the eastern edge of the site." Investigation activities for this ERP case suggest groundwater contamination may be migrating onto the site."

The Phase I ESA findings were presented in the AAI Phase I Environmental Site Assessment, prepared by the Sigma Group, dated January 2021. The Phase I ESA recommended subsurface investigation to evaluate the above-referenced RECs.

4.2 Limited Site Investigation (2021)

Terracon was retained by the City to conduct a limited site investigation (LSI) to evaluate the RECs identified in the Phase I ESA. Field activities were conducted from July 15-16, 2021, to evaluate the subsurface conditions. Seventeen (17) direct-push soil borings (P-1 through P-17) were advanced on the three parcels to depths up to 20 feet below ground surface (bgs) and converted to temporary groundwater monitoring wells. The borings were placed at locations determined to have the highest potential for impact from the identified RECs on the three parcels:

Borings P-1 through P-4: These borings were located along the west side of the Lorman Street and Hake Street parcels, to evaluate the potential for the migration of contaminants from the DB Oak Ltd. Property site to the west, the potential presence of contaminants from onsite scrapyard operations and historic fill, and from a UST formerly located in the area of boring P-4. Boring P-2 was located near a fluid



collection sump associated with a former storage pad, identified on an October 1999 "Storm Water Pollution Prevention Plan".

- Boring P-5: This boring was located in the northwest corner of the Hake Street parcel, to evaluate the potential for the migration of contaminants from the former 10,000-gallon tetrachloroethene (PCE) AST that was located to the west on the DB Oak Ltd. Property site, and the potential presence of contaminants from onsite scrapyard operations and historic fill.
- Boring P-6: This boring was located on the south side of the Lorman Street parcel, to evaluate soil and groundwater conditions associated with the closed onsite LUST case, and the potential presence of contaminants from onsite scrapyard operations and historic fill.
- Borings P-7 and P-8: These borings were located on the Oak Street parcel, to evaluate the potential for the migration of contaminants from the former petroleum bulk plant that had been located to the north, and the potential presence of contaminants from the former coal pile operations, onsite scrapyard operations, and historic fill.
- Boring P-9: This boring was located in the northeast corner of the Lorman Street parcel, to evaluate the potential for the migration of contaminants from the former automobile operations at the Hake Street parcel, and the potential presence of contaminants from the former auto storage area, onsite scrapyard operations, and historic fill.
- Boring P-10: This boring was located in the eastern portion of the Hake Street parcel, to evaluate the potential presence of contaminants from the fill pile.
- Borings P-11 through P-13: These borings were located adjacent to buildings on the Lorman Street parcel to evaluate former scrapyard operations, including the used oil and antifreeze storage area in the eastern building, near the hydraulic shear, and at the east bailer house. Boring P-12 was located near a feature identified on historic site plans as "oily water collection and separation system".
- Borings P-14 through P-17: These borings were located across the Lorman Street parcel to evaluate the potential presence of contaminants from onsite scrapyard operations and historic fill. Boring P-14 was located down-gradient of a former storage pad and fluid collection sump/oil-water separator. Boring P-15 was located in an area of a former tank, fluid collection sump, and oil-water separator.



4.2.1 Soil Analytical Results – Oak Parcel

Several volatile organic compounds (VOCs) were detected at concentrations above their respective soil-to-groundwater pathway RCLs including benzene, methylene chloride, PCE, and trichloroethene (TCE). VOCs were not detected at concentrations above their respective non-industrial, direct-contact RCLs.

Diesel range organics (DRO) was detected at concentrations above its analytical limit of detection (LOD) in 3 of the 4 samples analyzed. Several polycyclic aromatic hydrocarbons (PAHs) were detected within soil samples across the site at concentrations exceeding either their non-industrial, direct-contact RCL or soil-to-groundwater pathway RCL. PAHs were not detected at concentrations exceeding their respective industrial, direct-contact RCLs.

Several metals including arsenic, cadmium, lead, silver, and mercury were detected at concentrations exceeding either their soil-to-groundwater pathway RCLs or non-industrial, direct-contact RCLs at several boring locations. Arsenic, lead and mercury were detected within a few samples at concentrations above their respective industrial, direct-contact RCL.

PCBs were not detected at concentrations above analytical LODs.

4.2.2 Groundwater Analytical Results – Oak Parcel

PCE and TCE were the VOCs detected at concentrations exceeding NR 140, WAC standards at temporary wells installed on the Oak Street parcel. PCE was detected at concentrations exceeding its PAL in temporary groundwater monitoring well P-7. TCE was detected at concentrations exceeding its PAL at temporary groundwater monitoring wells P-7 and P-8.

4.3 Site Investigation (2021-2022)

The LSI identified the presence of constituents of concern (COCs) in soil and groundwater on the Oak Street parcel (and the other two parcels) at concentrations above their regulatory limits. In general, COCs appeared to be present across widespread areas of each of the parcels, suggesting a combination of areawide contamination over time from historical operations and the sitewide presence of fill material that may have been contaminated prior to placement (i.e., presence of cinders/slag). The LSI results did not suggest the presence of point sources from a specific historical operation or equipment.

VOCs were detected in soil samples from all three parcels at concentrations above their soil to groundwater pathway RCLs. VOCs on the Hake Street parcel appear to be associated with the off-site DB Oak Ltd. Property to the west, which had been identified as a REC by the Phase I ESA. Chlorinated volatile organic compounds (CVOCs), including PCE and TCE were detected at concentrations exceeding their respective ESs at temporary groundwater monitoring wells P-1 and P-3. The breakdown daughter products of PCE and TCE, cis-1,2-



DCE (P-5) and vinyl chloride (VC) were detected at concentrations above their respective ESs at temporary groundwater monitoring wells P-1, P-2, P-3, P-5, P-6, P-11, P-12, and P-14. The CVOCs in groundwater also appears to be attributable to the DB Oak Ltd. Property.

The LSI procedures/findings are presented in Terracon's *Limited Site Investigation Report*, dated September 10, 2021. On September 2, 2021, Terracon submitted analytical results to the WDNR along with Hazardous Discharge Notification Form 4400-225. On September 17, 2021, the WDNR responded to the notification by opening an environmental repair program (ERP) case for the property with BRRTS# 02-28-588371, which is now only associated with the 115 Lorman Street Parcel.

Terracon submitted a Site Investigation Work Plan (Revised) dated November 8, 2021 to further evaluate conditions at the three parcels. Based on the LSI, lead soil contamination on the Site was the one of the major components driving site investigation scoping.

From November 2021 through April 2022, site investigation activities were conducted at the site, including advancement of soil borings and the installation/sampling of groundwater monitoring wells. The phased approach to the subsurface investigation included advancing 19 direct-push soil borings (MW-6, P-8A, GP-11 through GP-14, B-13 through B-19, and DP-7 through DP-12), and constructing one NR 141, WAC-compliant groundwater monitoring wells (MW-1). Site features, soil borings, and the groundwater monitoring well location are presented on Exhibit 2, Appendix A.

Each of the 19 soil borings (MW-6, P-8A, GP-11 through GP-14, B-13 through B-19, and DP-7 through DP-12) were advanced across the site to delineate lead-contaminated soil identified during the LSI. Groundwater monitoring well MW-6 was installed to evaluate groundwater conditions across the site due to the potential chlorinated-impacted groundwater associated with the DB Oak Property to the north and possible metal impacts from the site.

The media affected on the Oak Street parcel includes soil and groundwater. Soil contamination consists of VOCs, PAHs, and lead. Based on the absence of a point source REC, it's likely the soil contamination is related to the fill material. The SI results support the observation that the source of lead being attributed to fill material; of the 77 soil samples collected at all three parcels, including 47 at the Oak Street parcel, 9 soil samples exceed the industrial, direct-contact RCL of 800 mg/kg. Each of the 9 soil samples exceeding the industrial, direct-contact RCL were only on the Oak Parcel. Soil results for VOCs, PAHs, and lead are displayed on Exhibits 3 through 5, Appendix A.

CVOC groundwater contamination on the site is likely attributed to the offsite DB Oak Ltd. Property, which is located hydraulically up-gradient, as the highest concentrations of CVOCs are documented along the north-central portion of the site (MW-6). The on-site exceedances of CVOCs consists of TCE and VC. Metals were not detected at concentrations above NR 140 standards.



4.4 Remedial/Interim Action Alternatives Evaluation and Review

Terracon, on behalf of the City, identified potential interim action options (IAO) for each affected media, based on the soil and groundwater contamination identified. Each potential IAO was evaluated in accordance with NR 708.05 and NR 708.11, WAC. Each IAO was also evaluated with consideration of technical feasibility (i.e., Short/Long-Term Effectiveness, Implementability, Reasonable Time Frame and Economic Feasibility) as those concepts will be implemented into the final remedial action under NR 722.07, WAC.

Consistent with NR 708.05 and NR 722.07(1), WAC, two potential IAOs were identified for soil as an appropriate range of options: 1) excavation and off-site disposal in accordance with NR 708.05(4)(h) and NR 708.11(2)-(3) and 2) in-place management through the use of temporary engineered control consistent (e.g., capping) consistent with NR 708.11(2)(d).

In an August 5, 2022 letter, the WDNR responded to the report submittal with comments discussing that the remedial actions should include mass removal of soil contamination. WDNR also noted that the proposed remedy was not approved because lead within the soil will not degrade over time. The WDNR recommend reevaluation of excavation and off-site disposal and a remedy to meet the restoration requirements in conjunction with engineering controls.

Conference calls with the WDNR, USEPA, and other project stakeholders took place on October 25, 2022 and January 24, 2023 to discuss the site investigation, remedy, and funding status. Based on additional discussions with the City and former owner, a strategy was developed. Due to the aforementioned CDBG grant funding deadlines, limited time was available to conduct additional investigation prior to development and implementation of a remedy. Lastly, the property transfer agreement stipulated the site could not be developed for 5 years, limiting the parties' ability to implement a final remedy in conjunction with development. Completion of interim actions at the site were discussed to utilize CDBG grant funds while addressing direct-contact risk for lead and set the stage for development of the site at a future date. The interim action plan included excavation and off-site disposal of lead-contaminated soil at two areas on the property to remove the immediate health risk for direct-contact exposure and construction of an interim cap to prepare the site for future redevelopment. Soil excavation and disposal would also address the WDNR's comments regarding site restoration. An interim action was developed that would include 1) treatment of lead-contaminated soils above the TCLP limits of 5 mg/L; and 2) removal of leadcontaminated soil exceeding a site goal 5,000 mg/kg which was determined by mass calculations.



5.0 Interim Action Activities

5.1 Interim Action Preparation Sampling Activities and Calculations

Terracon evaluated the need for conducting interim actions under NR 708.05, WAC and NR 708.11 (2)-(3), WAC. Based on the goal to remove lead-contaminated soil mass, additional investigation activities were needed to delineate lead-contaminated soil. The City requested Terracon advance several borings across the site to determine the limits of the excavation. Twelve soil borings (SB-1 through SB-12) were advanced surrounding the identified lead impacts.

The interim actions were identified as warranted and intended to minimize a threat to public health, safety, or welfare or the environment consistent with NR 708.11(1)(a), WAC, to reduce the mass of lead contaminants in the soil.

On September 6, 2022, twelve (12) soil borings (SB-1 through SB-12) were advanced with a drill rig capable of collecting soil samples using direct-push methods. Soil samples were collected continuously using a 5-foot long, 2-inch diameter core barrel sampler that was equipped with disposable polyvinyl chloride (PVC) liners. The soil characteristics (stratigraphy, color, and odors) and pavement thickness (if applicable) in each boring were noted on the soil boring logs. Soil borings SB-1 through SB-12 were advanced to approximately 10-foot bgs to delineate the extent and magnitude of lead impacts across the site. In addition, a portable X-ray florescence (XRF) device was used as a screening tool to help delineate lead impacts vertically.

Soil samples were collected at 1-foot intervals within plastic bags and screened with the XRF device. Elevated concentrations were jarred and sent to the laboratory for lead analysis. In addition, sampling above and below the impacts were analyzed for lead to assist in defining the vertical and horizontal impacts. Soil samples were collected in laboratory-supplied containers, placed in an ice chest to cool to approximately four degrees Celsius (4°C), and transported under chain-of-custody protocol to Pace Analytical Laboratory, Inc. of Green Bay, Wisconsin for analysis. Based on the soil results from SB-6 and SB-9, soil samples collected from soil boring location SB-11 were not analyzed. The approximate locations of the borings are depicted on Exhibit 5, Appendix A.

Following the completion of soil sample collection, the borings were abandoned in accordance with NR 141, WAC. Soil boring logs and Borehole abandonment forms are included in Appendix C.



5.2 Interim Action Design Sampling Results

Lead was detected within one or more soil samples analyzed from each soil borings. Soil boring locations SB-6, SB-9, SB-10, SB-12 each contained one or more soil samples with lead exceeding its soil-to-groundwater pathway RCL but below its non-industrial, direct-contact RCL. Industrial, direct-contact exceedances were documented within soil collected from the 3 and4 feet bgs sampling intervals. Soil samples collected from 1-foot, 2-feet, and 7-feet bgs, did not contain lead concentrations exceeding industrial direct-contact RCLs. Concentrations from the 3-4 foot soil samples from soil borings SB-1 through SB-5, and SB-7 ranged from 875 mg/kg up to 2,140 mg/kg. The 4-foot sample collected from soil boring location SB-8 contained lead at a concentration of 41,300 mg/kg.

Spatial distribution of soil results for metals within soil is displayed on Exhibit 5, Appendix A. Tabulated results of metals is shown in Table 3, Appendix B. Laboratory reports and chainof-custody forms for the soil samples analyzed are attached in Appendix E.

Based on the above-described results, the project stakeholders agreed to modify the initially proposed capping remedy and conduct targeted source removal. Mass removal calculations were used to evaluate total lead mass removal and overall soil removal. The mass calculations were completed to evaluate the economic feasibility as soil treatment would be needed for the soil to be disposed as non-hazardous soil. Based on average square footage and average lead concentrations across the site, approximately 11,300 pounds of lead was calculated to be within the Site. Using spatial distribution software, a 1,000 mg/kg contour line (represents lead slightly above its industrial, direct-contact RCL), a 3,000 mg/kg contour line, and a 5,000 mg/kg contour line were drawn on the site. These three areas were evaluated and tonnage of soil to be treated/disposal costs were compared to the overall mass removal. The calculations revealed the following:

- Removal of lead-impacted soil to 1,000 mg/kg: Approximately 3,020 tons of soil would be excavated, treated, and disposed. This method would remove approximately 92% of the lead mass on the site.
- Removal of lead-impacted soil to 3,000 mg/kg: Approximately 595 tons of soil would be excavated, treated, and disposed. This method would remove approximately 73% of the lead mass on the site.
- Removal of lead-impacted soil to 5,000 mg/kg: Approximately 382 tons of soil would be excavated, treated, and disposed. This method would remove approximately 60% of the lead mass on the site.

The tonnages listed above assumed excavations from 0 to 4 feet bgs, to address potential direct contact risk. Further analysis indicated the surficial soil from 0 to 2 feet bgs did not contain lead at concentrations above its industrial, direct-contact RCL.



Two areas of lead-contaminated soils exceeding 5,000 mg/kg were identified. Area 1, located surrounding soil borings SB-8, DP-10 and DP-8, had an area of approximately 1,680 square feet. Area 2, located around soil boring P-8, had an area of approximately 100 square feet. Based on the potential direct-contact health risk located between 0-4 feet below grade, each of these areas were proposed to be excavated to 5 feet bgs to remove the direct-contact risk and remove a majority of the lead contaminate mass identified between 3 and 4 feet bgs. Since soil analyzed from 0-2 feet did not contain impacts exceeding the industrial, direct-contact RCL, the City opted to reuse the soil from 0 to 2 feet bgs as backfill post-excavation.

5.3 Waste Characterization and Disposal Sampling

A waste determination was completed to evaluate how the lead soil contamination should be managed. Several samples analyzed from soil boring location P-8A with concentrations of lead ranging from 300 mg/kg up to 14,900 mg/kg, contained lead exceeding the TCLP limit of 5 mg/L. As such, in order to dispose of soil within these areas, the soil would either have to be 1) managed as hazardous material; or 3) treated with a stabilization agent and managed as non-hazardous soil if analysis is below the TCLP limit of 5.0 mg/L. A landfill characterization sample was collected near soil boring location SB-8, which contained the highest metals concentration identified at the time in shallow soil. Waste characterization sample "Oak Profile" was analyzed for VOCs, PAHs, RCRA 8 metals, TCLP lead, and PCBs. The laboratory report and associated chain of custody form for the "Oak Profile" sample are included in Appendix E.

The "Oak Profile" sample and analytical results for soil boring samples collected from SB-8 and P-8A were included within a waste profile and submitted to Waste Management, Inc. (WMI) for consideration for non-hazardous disposal at their Deer Track Park Landfill located in Watertown, WI. WMI tentatively approved the non-hazardous disposal of the lead-contaminated soils under profile number 138450WI, as they required confirmation that the in-situ soil stabilization was successfully reducing the concentrations of leachable lead in the treated material. WMI requested that one soil sample be collected for every 200 tons of treated material and analyzed for TCLP lead. Each laboratory report was provided to WMI with a profile amendment for final approval.

5.4 Lead-impacted Soil Stabilization Activities

The City retained Edgerton Contractors, Inc. to apply stabilizing agent to the lead-impacted soils, excavate and load contaminated soil, and haul the soil to the project landfill. On January 10, 2023, Terracon supervised the stabilization activities for the lead-contaminated

Photograph (above) showing lead stabilization activities at Area 1. Photograph facing northeast.



soil proposed to be excavated and hauled to a landfill for non-hazardous disposal. Prior to stabilization, the City staked out each of the two areas using GPS coordinates along the 5,000 mg/kg contour interval provided by Terracon. Soil excavated from 0-2 feet bgs was stockpiled adjacent to the excavation areas for reuse as backfill. After removal of the soil



Photograph of stabilization activities for elevated lead detected in the soil. Photograph facing northeast.

from 0-2 feet bgs, Edgerton applied Blastox ® 215 (Blastox) to stabilize TCLP lead within the soil. The lead-contaminated soils and Blastox were mixed at an approximate 3% ratio. Once mixing of the Blastox material was completed, two composite samples were collected from Area 1 (south) and Area 2 (north) and submitted to the laboratory for analysis of total lead and TCLP lead. Both of the composite samples were below the TCLP limit of 5.0 mg/L and sample results were submitted to WMI along with a profile addendum for approval. WMI approved the soil to be disposed as non-hazardous soil.

5.5 Excavation and Disposal

Terracon evaluated excavation and disposal activities available under NR 708.11, WAC. On January 23, 2023, Terracon supervised excavation of Area 1 and Area 2 within the proposed excavation limits based on the 5,000 mg/kg contour calculated from the previously collected soil samples. The excavation limits were previously set as the soil was treated in-situ with the Blastox stabilizing agent two weeks prior.

Area 1 was excavated between 2-5 feet bgs throughout its entire area. Area 1 targeted removal of soil associated with 3 soil samples which contained concentrations of lead ranging between 3,460 mg/kg and 41,300 mg/kg. The excavation area consisted of a roughly square shape which was approximately 48 feet long and 35 feet wide. Area 1 was approximately 1,680 square feet.

Area 2 was excavated between 2-5 feet bgs throughout its entire area. Area 1 targeted removal of soil associated with 2 soil samples which contained concentrations of lead ranging between 2,940 mg/kg and 6,100 mg/kg. The excavation area consisted of a square shape which was approximately 10 feet long and 10 feet wide. Area 2 was approximately 100 square feet.

Quad-axle dump trucks were utilized by the excavation subcontractor (Edgerton) to haul the lead-impacted soil to the Deer Track Park Landfill located in Watertown, Wisconsin. In total, 18 truckloads averaging 16 tons of soil per load, were hauled to the landfill for disposal. The tonnage report from the landfill documented approximately 286 tons of lead-impacted soil



was hauled and disposed. Excavation locations and extents for Area 1 and Area 2 are shown on Exhibit 6, Appendix A. Photographs documenting excavation activities can be found in Appendix C. Disposal Documentation for load counts, tickets and total tonnage is attached in Appendix E.

5.6 Confirmation Sidewall and Base Sampling

Terracon generally collected discrete samples from approximately every 10-20 horizontal feet of sidewall. At each sidewall location, samples were collected at 4 feet below grade, which represents the midpoint of the contaminated soil column (3-5 feet bgs). Additionally, the most impacted samples from the previous sampling activities were collected between 3 and 4 feet bgs. Base samples were taken approximately every 100-400 square feet. For Area 1, a total of 10 sidewall samples were collected (O1SW-1 through O1SW-10), and 5 base samples (O1B-1 through O1B-5) were collected. For Area 2, a total of 4 sidewall samples were collected (O2SW-10), and 1 base sample (O2B-1) were collected. Each of the soil samples collected from Area 1 and Area 2 were submitted to the Pace Analytical in Green Bay, Wisconsin, for analysis of lead. The locations of the sidewall and base samples are presented on Exhibit 6, Appendix A.

5.7 Site Restoration Activities

Temporary engineering controls were implemented consistent with NR 708.11(2)(d), WAC. During demolition of the site and razing of building for the Lorman Street parcel, concrete foundations and roads were crushed, and the crushed concrete was stockpiled in the central portions of the site. Backfilling operations were initiated on January 23, 2023, after excavation and sampling was completed. The base of each excavation was backfilled with a coarser rock material (1"-3"). Once the base of the excavation was filled in with approximately 1-foot of rock, the crushed concrete from the Lorman Parcel was hauled from the stockpile using a dump truck. Additionally, the 0-2 feet of soil which was not disposed was used as backfill. The soil and crushed concrete was placed in the excavation pit in 1 to 2-foot lifts and compacted using a combination of a backhoe and sheepsfoot roller. The total quantity of backfill material used across Area 1 and Area 2 was estimated by a 1.25 conversion factor. Using this factor, approximately 357.5 tons of rock, soil and crushed concrete was used to backfill the excavation areas.



6.0 Results and Discussion

6.1 Soil Sampling Results

Ten (10) soil sidewall samples were collected at Area 1, and 4 of the 10 samples contained lead at concentrations above the soil-to-groundwater pathway RCL. Two (2) sidewall samples contained lead with an industrial, direct-contact RCL exceedance located on the northeastern and northwestern portions of the excavation. Of these two industrial exceedances, concentrations ranged between 1,470 mg/kg and 3,340 mg/kg. Six (6) of the sidewall samples collected from the southern half of the excavation did not contain lead at concentrations above an RCL. Each of five base sample did not contained lead at concentrations exceeding an RCL. Sidewall and base results are displayed on Exhibit 6 for Area 1 and results are tabulated in Table 6.

Four (4) soil sidewall samples were collected at Area 2 and each of the 4 sidewall samples contained lead with an industrial, direct-contact RCL exceedance for lead. Concentrations of the sidewall samples ranged from 2,070 mg/kg for the northern sidewall up to 26,700 mg/kg for the southern sidewall. The single base sample collected did not contain lead at concentrations exceeding an RCL. Area 2 sidewall and base sample results and locations are shown on Exhibit 6, Appendix A and tabulated results are presented in Table 6, Appendix B.

6.2 Interim Action Mass Removal

As noted earlier, 5,000 mg/kg was used as a site goal to remove the most mass economically due to the need to apply a stabilizing agent for disposal and the cost for excavation and disposal. The goal overall for the interim action were to remove lead contaminant mass and protect the direct-contact health risk for the public immediately through uses of an engineered barrier. Terracon estimated the mass of lead removed, and the mass remaining. Polygons were generated for excavation Area 1 and Area 2. Polygon count for mass removed was equal to the number of areas and concentrations were averaged based on the soil borings located within the polygon. Polygons were then used to calculate total mass of soil, average concentration of total lead, and total mass of lead removed and remaining. Calculations are shown in attached Tables 7 and 8, Appendix B.

Prior to excavation for Area 1, 3 soil samples contained a lead concentration exceeding the industrial, direct-contact RCL which included SB-8 (4), DP-8 (3), and DP-10 (3). These soil samples were used to calculate an average concentration (11,450 mg/kg) of lead for Area 1. Polygons were used to approximate soil mass removed from Area 1 and the lead-contaminant mass was calculated to be approximately 6,186 pounds. Each of the three samples containing lead concentrations above the industrial, direct-contact limit and exceeding 5,000 mg/kg were removed through the excavation. Several sidewall samples on



the southern portion of the excavation (O1SW-1, O1SW2, O1SW-7 through O1SW-10) and base sample (O1B-1 through O1B-5) contained concentrations of lead below its background threshold value. Two samples locations on the northwestern (O1SW-3) and northeastern (O1SW-6) contained lead concentrations exceeding the industrial, direct-contact RCL.

Prior to excavation for Area 2, 1 soil sample contained a lead concentration exceeding the industrial, direct-contact RCL which was P-8 (4) with a concentration of 6,100 mg/kg. A square polygon were used to approximate soil mass removed from Area 2 and the lead-contaminant mass was calculated to be approximately 196 pounds. While the P-8 (4) sample was removed through excavation, each of the four sidewall samples analyzed contained samples contained lead at concentrations above the industrial, direct-contact RCLs. Concentrations of the sidewalls ranged from 2,070 mg/kg up to 26,700 mg/kg. The base sample (O2B-1) collected and analyzed for lead contained a lead concentration (29.1 mg/kg) below its RCLs.

Overall, approximately 6,382 pounds of lead contaminant mass was removed through the excavation of Area 1 and Area 2. Based on polygons around the site, which include the new sidewall data from Area 1 and Area 2, approximately 6,398 pounds of lead remains across the site. Based on mass removed and remaining estimates, approximately 50% of the total lead mass was removed through the excavation of 285 tons of contaminated soil. Mass removed and remaining calculations are shown on Tables 7 and 8, Appendix B.

6.3 Residual Soil Contamination - PCBs

The excavation activities removed approximately 50% of the lead contaminant mass in soil across the site. However, as the site is zoned as industrial, the site must also be remediated to address industrial direct-contact RCL exceedances. Post-excavation, soil samples containing lead with concentrations exceeding its industrial, direct-contact RCL exist across the site.

Prior to the excavation, lead exceeding the industrial, direct-contact RCL existed across the central and northeastern portions of the site. Soil borings P-8, P-8A, DP-8, DP-10, and SB-8 contained soil samples with lead exceeding the industrial, direct-contact RCL at 3-4 feet bgs. Post-excavation, the exceedances of lead at 3-4 feet bgs from these soils boring have been removed. Two sidewall samples on the northern portions of Area 1 shows lead above the industrial, direct-contact RCL remains in the central portions of the site. Additionally, each of the four sidewall samples analyzed from Area 2 contained lead at concentrations exceeding the industrial, direct-contact RCL. In general, industrial, direct-contact issue remains in the central to northeastern portions of the site, although the mass of lead present on the site has been greatly reduced.



7.0 Future Actions

Based on the sidewall and base sample results, the interim action was successful at reducing mass lead in soil at the site. As noted above, lead remains on the site at concentrations above the industrial, direct-contact RCLs. Based on comments from the WDNR, the site investigation is complete.

In preparation of this report, Terracon reviewed a *Remedial Action Plan (*RAP), submitted to the WDNR on May 27, 2013 (BRRTS #03-41-421191, 02-41-560192, 02-41-560197, 02-41-560199, 02-41-234108, 02-41-560195). The RAP was submitted for a remedial action site in a similar situation to the Former Loeb-Lorman Scrapyard site. The RAP proposed several strategies that would be implemented at the time of development, although, a development plan had not been designed.

Due to the nature of the aforementioned CDBG grant funding deadlines, limited time was available to develop and implement a remedy. The interim actions at the site were completed to meet CDBG grant deadlines while addressing direct-contact risk for lead and set the stage for development of the site at a future date. As previously noted, the site cannot be developed for 5 years. In the short-term, the City will complete actions to stabilize the site and stage the site for consideration for development. Once a development plan is identified, the plan will be reviewed in conjunction with site conditions to complete additional investigation (if needed), identify remedial actions, and develop a strategy for integrating the remedy and development plan. The following sections present actions that will be taken in the short-term and long-term to complete remedial actions and prepare the site for regulatory closure.

7.1 Short-Term Actions

In the next 3-6 months from the submittal of this report, the City will continue implementing certain temporary engineering controls as an interim action to protect the public from the direct-contact risk associated with the remaining lead and stage the site for redevelopment. As fencing has been removed, implementing an interim cap/engineering control will lower potential direct-contact risk. The short-term action implemented post-excavation is not the final remedy but rather an interim action contemplated by NR 708.11(2)(d), WAC, until the site is redeveloped in the future.

7.1.1 Site Grading and Engineering Control Construction

Similar to the backfill material recently placed into the interim action excavations, an interim site cap consisting of crushed concrete will be placed over the soil at the site containing lead above their industrial, direct-contact RCL. In general, this cap will be implemented for the area extending across the north and central portions of the site. In the



next 3 months, the City will add additional cover material consisting of fine-grained soil from a local source to the soil areas with industrial, direct-contact RCL exceedances. In conjunction with the cap implementation, clean imported fill material will be graded across the site to direct stormwater drainage and reduce pooling and infiltration on the site. Additionally, approximately 3-inches of topsoil will be placed across the entire site and seeded. The topsoil will act as a temporary erosion and dust control to further reduce potential human exposure risk to subsurface soil and stabilize the site. Approximate cap location for the engineered barrier is shown on Exhibit 8, Appendix B.

7.1.2 Cap Inspection and Maintenance Plan



Photograph (above) showing backfilled excavation Area 1. Photograph facing northeast.

Once the site grading and interim cap implementation is completed, a cap maintenance and inspection plan will be implemented. If the WDNR plans to apply continuing obligations to the site after submission of this report, a formal cap maintenance inspection plan along with figures displaying the limits of the engineering controls. Inspections will be conducted in the spring (after snow has melted) and fall (after vegetation dormancy), and repairs to the cap made as needed. Photographs will be added to the inspection plan after each inspection. Documentation of each inspection and any repairs will be logged to satisfy

continuing obligations if placed on the site by the WDNR.

7.2 Long Term Actions

Within the next 5 years, the City plans to identify a site developer and create a development plan for the property. Prior to redevelopment, additional site investigation will be conducted if needed to provide data to integrate a comprehensive site remedy with the development. While a development plan has not yet been prepared, it is Terracon's experience that remedies implemented with development utilize one or more of the following elements:

Materials Management: It is likely during future redevelopment of the site that soil will be disturbed, which may contain metals, VOCs and/or PAHs exceeding their respective direct-contact and/or soil-to-groundwater RCLs. While it may be possible to reuse some of the excavated soil on-site, there is usually insufficient room to manage all soil. In addition, the excavated soil may contain VOCs or exhibit poor engineering properties that preclude its reuse onsite. Prior to future redevelopment, a materials management plan will be generated to guide soil and water management activities during redevelopment and provide contingency plans when contaminated



soil is encountered. Excess soil, soil containing VOCs, and soil exhibiting poor engineering properties will require off-site disposal at a licensed landfill. Soil management will be evaluated using a cut/fill diagram prepared by the developer to estimate the quantity of soil to be disturbed and its location relative to the extent of contaminants. If soil is identified for potential reuse, an exemption request will be submitted to the WDNR in accordance with NR 718, WAC. Off-site disposal during future redevelopment will continue to remove source soil from the property.

- Engineer Barriers: Additionally, it is likely the redevelopment plan will include the installation of impervious surfaces such as a building foundation or pavement surfaces. These surfaces will replace the interim cap and serve as a final cap to limit direct-contact risk. An updated cap maintenance plan will be prepared for the final cap.
- Natural Attention: As indicated earlier, groundwater impacts are present at the site which include several chlorinated VOCs such as PCE, TCE and vinyl chloride. Chlorinated VOCs were detected within groundwater monitoring well MW-6. Terracon, on behalf of the City, is in the process of preparing an offsite liability exemption for the chlorinated VOCs documented on the site. Based on groundwater flow direction, the source of the chlorinated VOCs is likely up-gradient from the DB Oak Ltd. Property adjacent to the north. Natural attenuation should be sufficient to address the groundwater contamination while a remedial action plan is developed by the adjoining property owner.
- Vapor Mitigation: Although the chlorinated VOCs within the groundwater may be from an offsite source, the VOCs may pose a vapor intrusion risk to the future development. The potential for vapor intrusion will be evaluated at the time a redevelopment plan is created. Due to soils and groundwater containing chlorinated VOCs, a vapor mitigation system may be required as part of the redevelopment.

8.0 Scope and Report Limitations

The findings, conclusions, and recommendations presented in this report are based solely upon the data and information obtained and reviewed through the agreed-on scope of services as outlined herein and in previous documents. Such information is subject to change over time and Terracon cannot represent any site conditions beyond those specifically identified through Terracon's Scope of Services. Terracon makes no warranties, express or implied, with regard to professional services, associated findings, or any third-party information used in connection with this project. These limitations must be considered when the user of this report formulates opinions as to risks in connection with the site or uses the report for any other purpose.



This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental engineering practices. No warranties, express or implied are intended or made. In the event any changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed, and the opinions of this report are modified or verified in writing by Terracon.



9.0 Certifications

I, Edmund A. Buc, P.E., 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.

<u>E-32096</u>

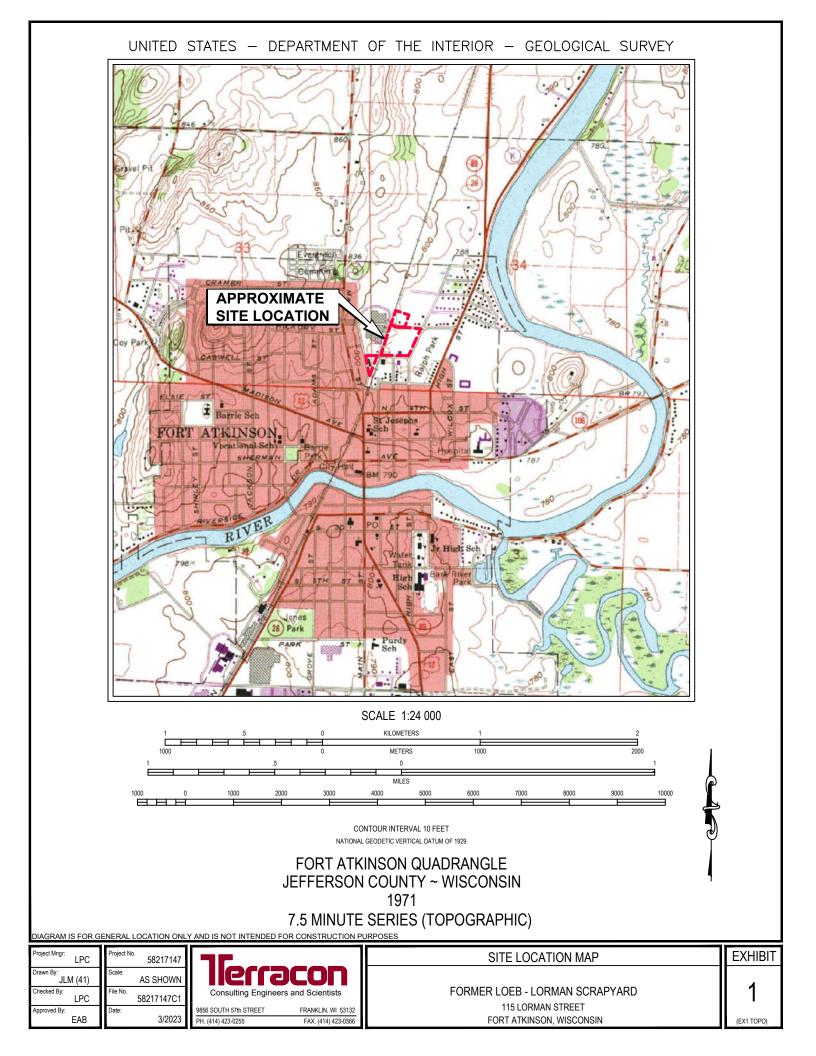
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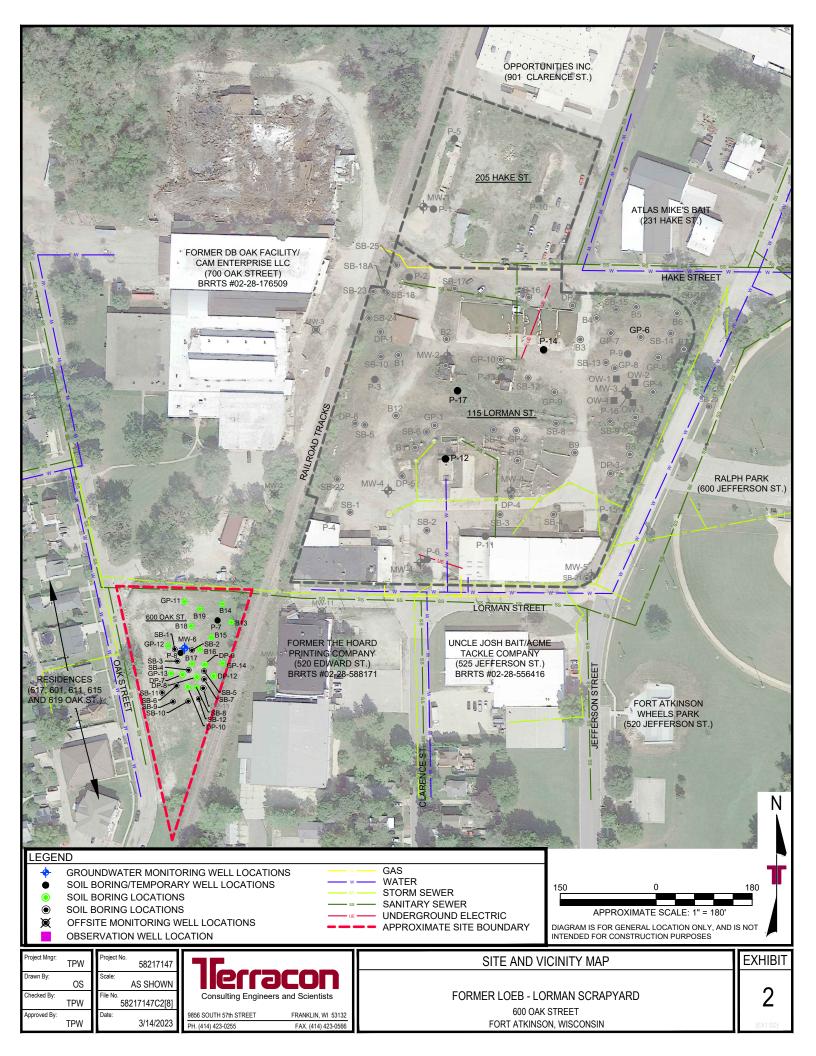
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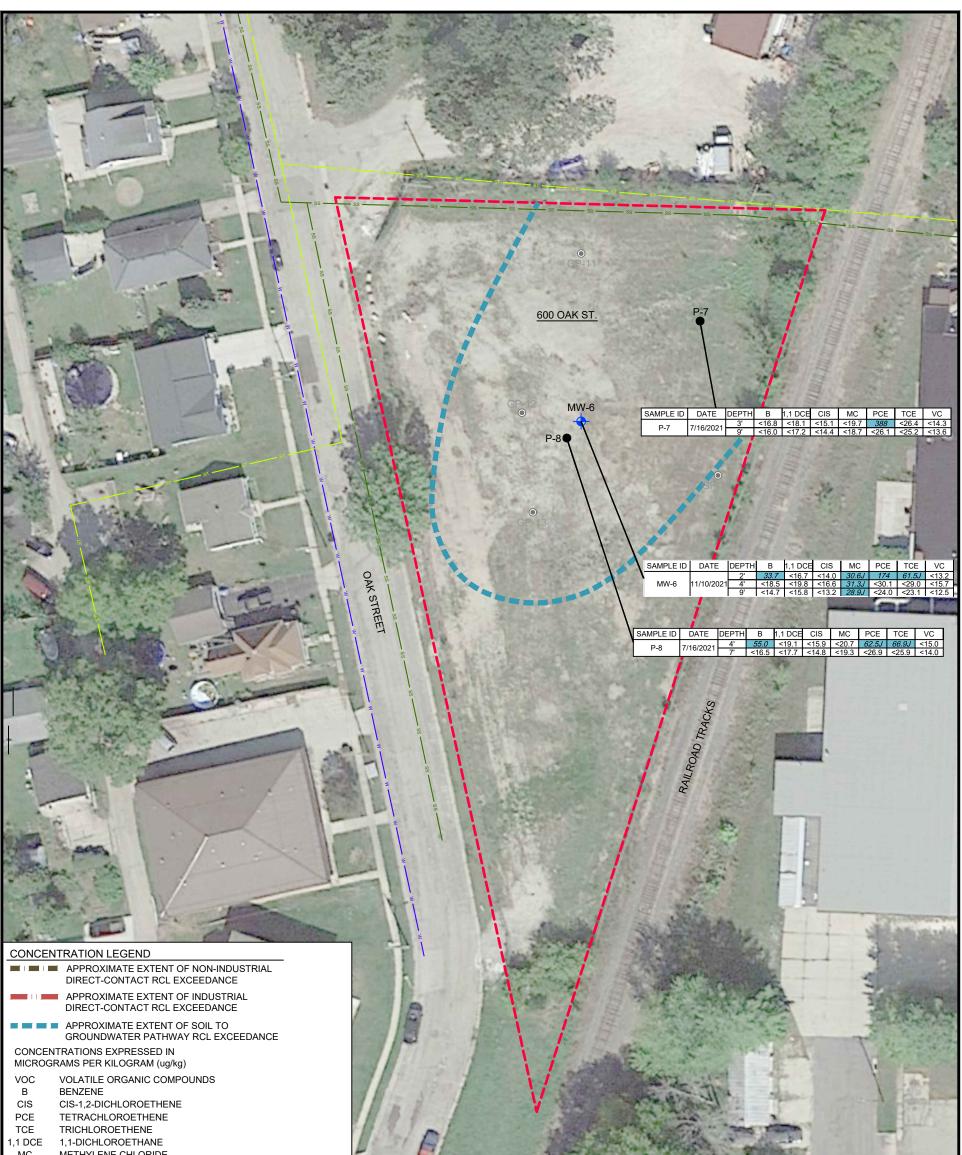
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Appendix A Exhibits



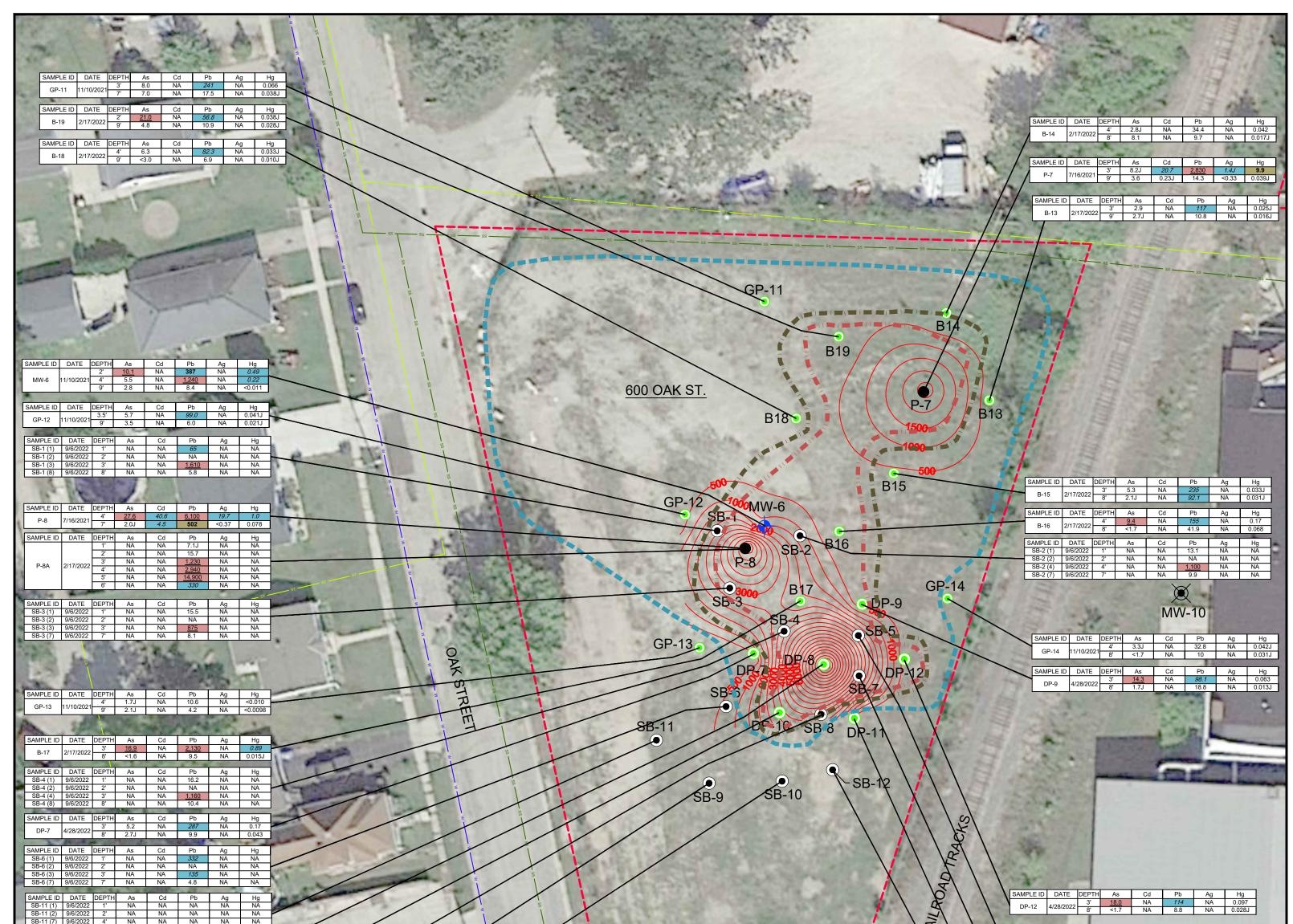




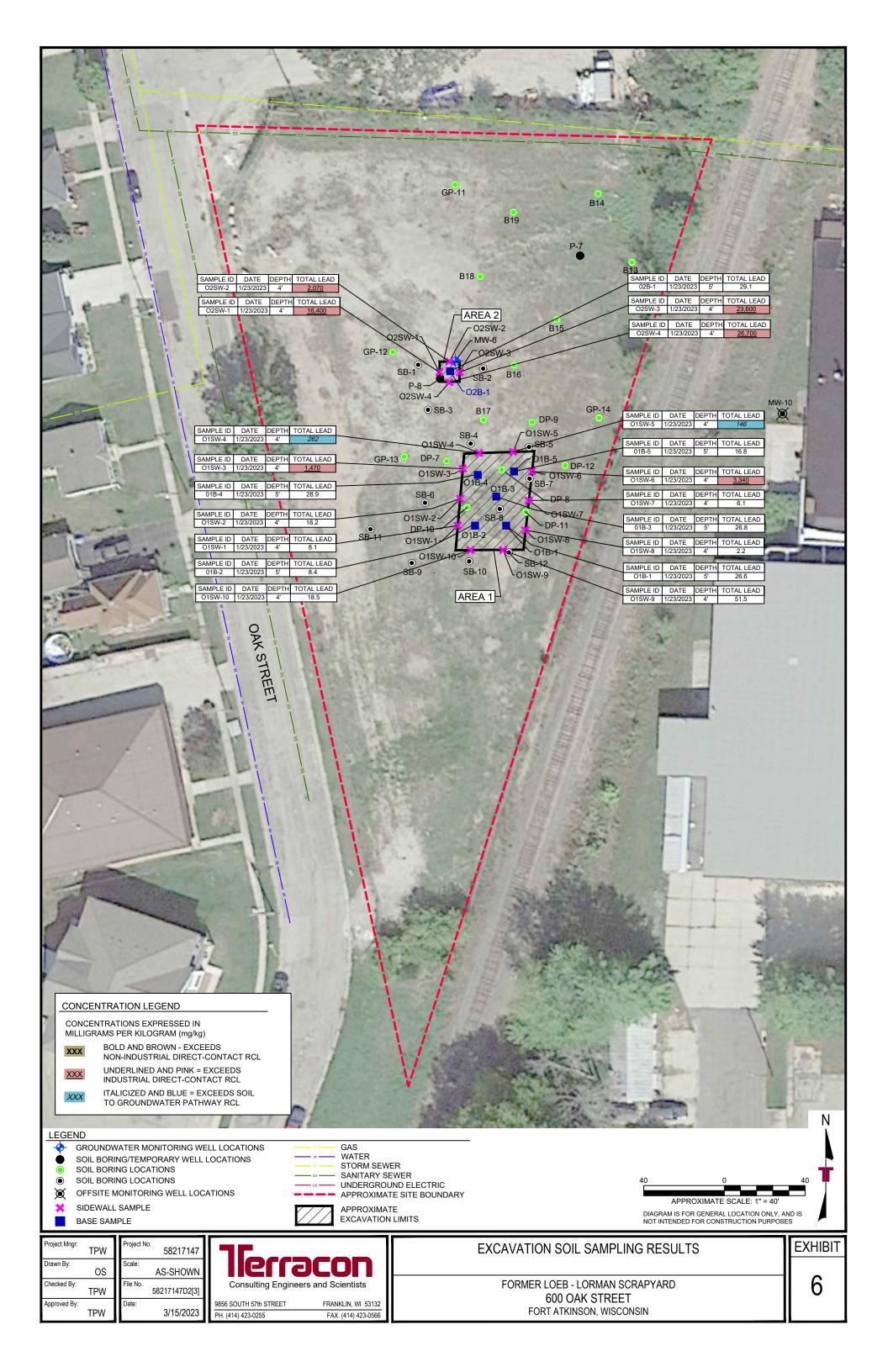
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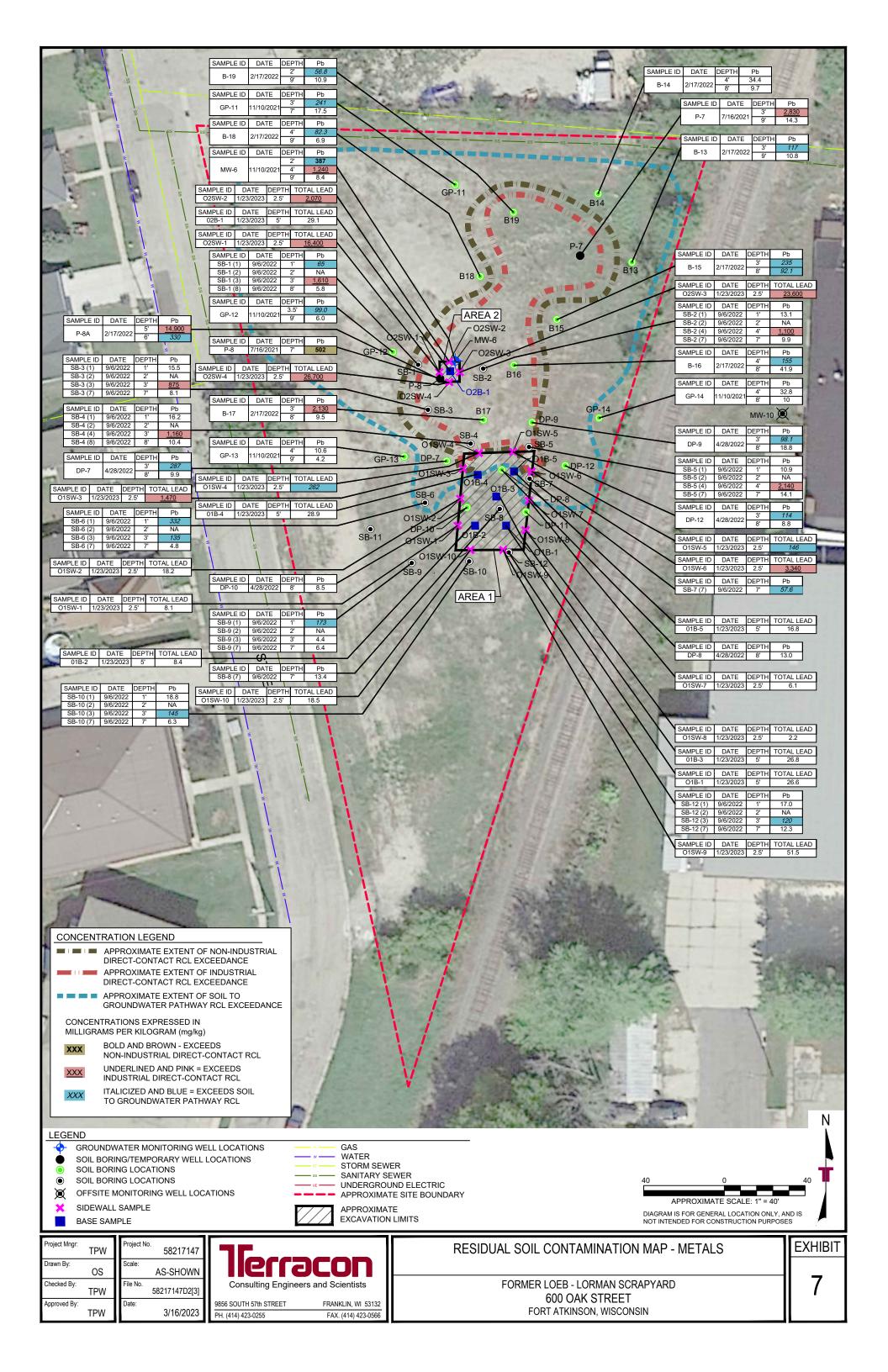


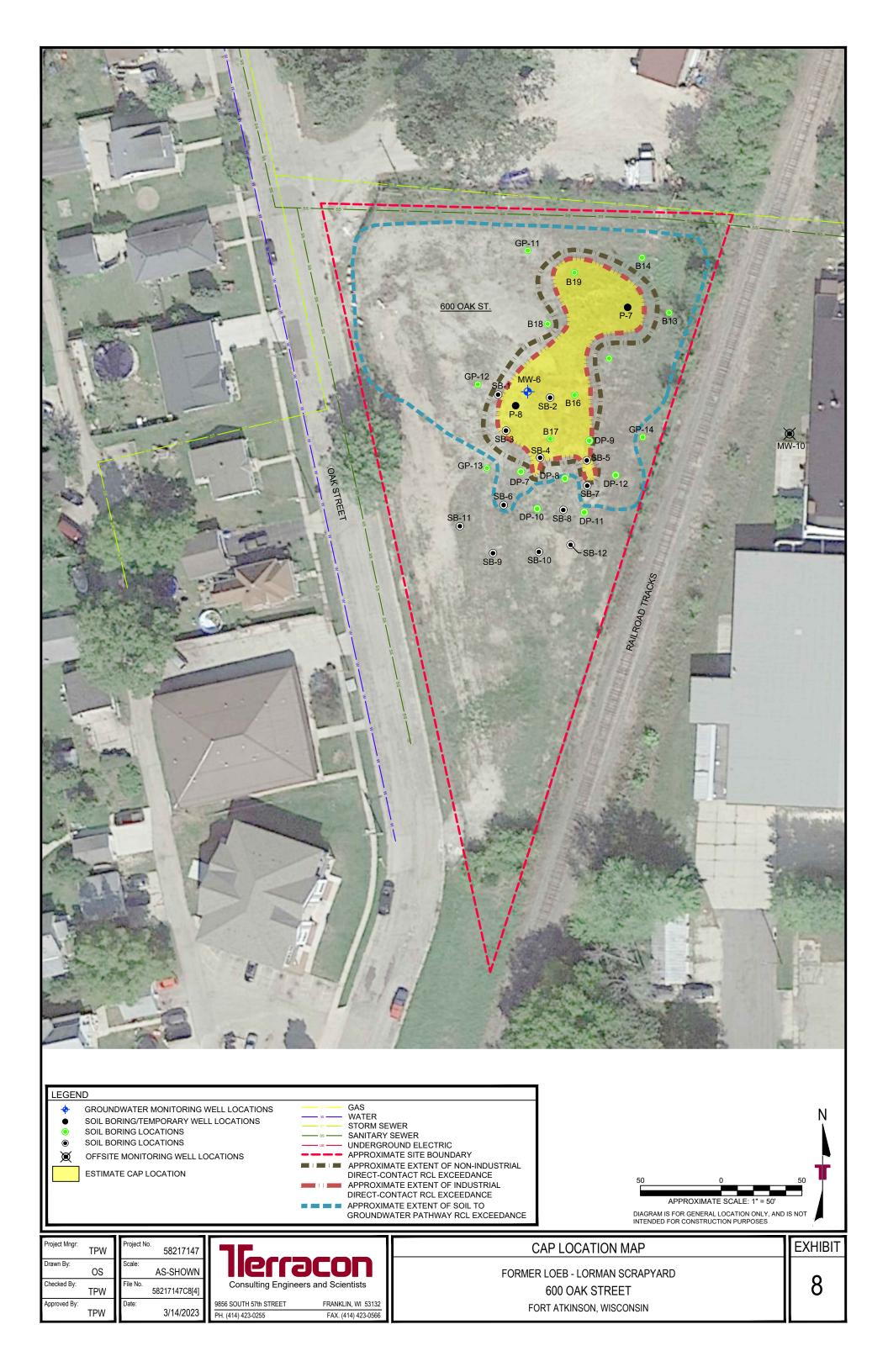
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LEGEND ◆ GROUNDWATER MONITORING WELL LOCATIONS ● SOIL BORING/TEMPORARY WELL LOCATIONS ● SOIL BORING LOCATIONS ● OFFSITE MONITORING WELL LOCATIONS	ng/kg) TPW Drawn By: OS Checked By: TPW Approved By: Drawn By: Date: Descellant Descella	DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NO INTENDED FOR CONSTRUCTION PURPOSES SOIL QUALITY MAP - METALS FORMER LOEB - LORMAN SCRAPYARD 600 OAK STREET FORT ATKINSON, WISCONSIN	<u>хнівіт</u> 5









Appendix B Tables

Table 1 Soil Analytical Test Results Summary for VOCs Detected Compounds Only Former Loeb-Lorman Scrapyard Fort Atkinson, Wisconsin Terracon Project No. 58217147 VOCs (ug/kg) 0 ъ ï 1,1,1-Tri Sample Ē Chlo Depth Sample ų ÷ Styl 5 Å Sample ID Date PID Fill/Native (feet) 1,600 108,000 145,000 370,000 NE 5,060 156,000 8,020 268,000 162,000 6,180 5,520 NE 33,000 818,000 NE Direct Contact Non-Industrial RCL NE 24 818,000NE2191,107.2140.21,3 Direct Contact Industrial RCL² 7,070 108,000 145,000 761,000 NE 22,200 2,340,000 35,400 268,000 162,000 1,150,000 24,100 NE NE 145,000 Soil to Groundwater Pathway RCL 51 NE 226.6 28 41.2 1,570 NE 658.2 NE 4.5 NF 220 26 600 OAK STREET P-7 (3') 7/16/2021 388 <17.8 3 <1 Fill <16.8 <32.4 <17.2 <8.5 <29.8 <18.1 <15.1 <16.8 <19.1 <21.5 <19.7 <22.1 <17.0 <18.1 <18.1 < P-7 (9') 9 7/16/2021 <16.2 <17.2 <1 <16.0 <30.8 <16.4 <28.4 <17.2 <14.4 <16.0 <20.5 <18.7 <21.0 <17.2 <26.1 <17.0 Native <8.1 <18.2 <5 P-8 (4') 4 7/16/2021 55.0 <34.1 <18.2 <31.4 <19.1 <15.9 31.5J <20.1 <22.6 <20.7 214J <17.9 <19.1 62.5J 221 <19.1 Fill <8.9 1 <6 P-8 (7') 7/16/2021 7 <16.6 <17.7 <16.5 <31.7 <16.9 <29.2 <17.7 <14.8 <16.5 <18.7 <21.1 <19.3 <21.6 <17.7 <26.9 <17.5 <1 Native <8.3 <5 MW-6 (2') 11/10/2021 33.7 30.6J 174 2 3 Fill 46.5J 28.5J <7.8 <27.6 <16.7 <14.0 58.0J 23.6J 25.4J 360 40.3J <16.7 236 <16.7 <5 MW-6 (4') 4 11/10/2021 3 Fill <18.5 <35.5 <18.9 <9.3 <32.7 <19.8 <16.6 <18.5 <20.9 <23.6 31.3J <24.2 <18.6 <19.8 <30.1 <19.5 <19.8 <6 MW-6 (9') 9 11/10/2021 <1 Native <14.7 <28.3 <15.1 <7.4 <26.1 <15.8 <13.2 <14.7 <16.7 <18.8 28.9J <19.3 <14.8 <15.8 <24.0 <15.6 <15.8 <5

Notes:

PID=Photoionization Detector

VOCs=Volatile organic compounds; analyzed by USEPA Method 8620b

Results expressed in micrograms per kilogram (ug/kg)

¹ Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ² Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ³ Protection of Groundwater RCLs (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ⁴ Protection of Groundwater RCLs (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ⁴ Protection of Groundwater RCLs (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December, 2018).

XX.XX Bold and brown = Exceeds Non-Industrial Direct Contact RCL XX.XX Underlined and pink = Exceeds Industrial Direct Contact RCL

XX.XX Italicized and blue = Exceeds Soil to Groundwater Pathway RCL

"J" = Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

"NE" = No Established Standard

1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m&p-Xylene	o-Xylene
4,000	1,300	1,230,000	219,000	182,000	67	260	,000
9,000	<u>8,410</u>	<u>1,230,000</u>	<u>219,000</u>	182,000	<u>2,080</u>	260	,000
9,000	-			182,000		260	-
	<u>8,410</u>	<u>1,230,000</u>	<u>219,000</u>	182,000	<u>2,080</u>	260	,000
9,000	<u>8,410</u>	<u>1,230,000</u>	<u>219,000</u>	182,000	<u>2,080</u>	260	,000
<u>9,000</u> 378.7	<u>8,410</u> 3.6	<u>1.230.000</u> NE	<u>219,000</u> 1,37	<u>182,000</u> 78.7	<u>2.080</u> 0.1	<u>260</u> 3,9	<u>,000</u> 960
<u>9,000</u> 378.7	8.410 3.6 <26.4	1.230.000 NE <20.5	<u>219,000</u> 1,37 <21.1	<u>182.000</u> 78.7 <22.8	<u>2.080</u> 0.1 <14.3	<u>260</u> 3,9 <29.8	,000 960 <21.2
<u>9.000</u> 378.7 58.3 55.5	8.410 3.6 <26.4 <25.2	1.230.000 NE <20.5 <19.5	<u>219.000</u> 1,37 <21.1 <20.1	<u>182.000</u> 78.7 <22.8 <21.7	2.080 0.1 <14.3 <13.6	<u>260</u> 3,9 <29.8 <28.4	<u>,000</u> 260 <21.2 <20.2
9,000 378.7 558.3 555.5 61.4	8.410 3.6 <26.4 <25.2 66.9J	1.230.000 NE <20.5 <19.5 <21.6	219.000 1,37 <21.1 <20.1 52.9J	182.000 '8.7 <22.8	2.080 0.1 <14.3 <13.6 <15.0	260 3,9 <29.8 <28.4 151	<u>,000</u> 660 <21.2 <20.2 71.7J
9.000 378.7 558.3 555.5 61.4 57.1	8.410 3.6 <26.4 <25.2 66.9J <25.9	1.230.000 NE <20.5 <19.5 <21.6 <20.1	219.000 1,37 <21.1 <20.1 52.9J <20.6	182.000 '8.7 <22.8	2.080 0.1 <14.3 <13.6 <15.0 <14.0	<u>260</u> 3,9 <29.8 <28.4 151 <29.2	,000 960 <21.2 <20.2 71.7J <20.8
9,000 378.7 558.3 555.5 61.4 557.1 53.8	8.410 3.6 <26.4 <25.2 66.9J <25.9 61.5J	1.230.000 NE <20.5 <19.5 <21.6 <20.1 <18.9	219.000 1,37 <21.1 <20.1 52.9J <20.6 160	182.000 78.7 <22.8 <21.7 <24.0 <22.3 58.2J	2.080 0.1 <14.3 <13.6 <15.0 <14.0 <13.2	260 3,9 <29.8 <28.4 151 <29.2 251	000 060 <21.2 <20.2 71.7J <20.8 141

Table 2 Soil Analytical Test Results Summary for DRO and PAHs

Former Loeb-Lorman Scrapyard

						PAHs (ug/kg)										Diesel Range Organio (mg/kg)							
Sample ID	Sample Depth (feet)	Sample Date	PID	Fill/Native	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	DRO
	Direct Co	ntact Non-Ind	ustrial RCL ¹		3,590,000	NE	17,900,000	1,140	115	1,150	17,900,000	11,500	115,000	115	2,390,000	2,390,000	1,150	17,600	239,000	5,520	NE	1,790,000	NE
	Direct (Contact Indus	trial RCL ²		45,200,000	NE	100,000,000	20,800	<u>2,110</u>	<u>21,100</u>	100,000,000	<u>211,000</u>	2,110,000	<u>2,110</u>	30,100,000	<u>30,100,000</u>	21,100	72,700	3,010,000	<u>24,100</u>	NE	22,600,000	NE
	Soil to Gro	oundwater Pa	thway RCL3		NE	NE	196,949.2	NE	470	478.1	196,949.2	NE	144.2	NE	88,877.8	14,829.9	NE	NE	NE	658	NE	54,545.5	NE
											600 O <i>l</i>	AK STREET						-					
P-7 (3')	3	7/16/2021	<1	Fill	<12.0	26.0J	45.5J	523	715	2,020	285	660	559	114	285	<11.1	338	17.9J	25.8J	32.3J	135	326	119
P-7 (9')	9	7/16/2021	<1	Native	<2.5	<2.5	<2.4	<2.5	<2.2	<2.7	<3.4	<2.5	<3.7	<2.7	<2.3	<2.3	<4.1	<2.9	<2.9	<1.9	<2.2	<2.9	<1.1
P-8 (4')	4	7/16/2021	1	Fill	96.2J	49.1J	167	388	362	646	121J	191	673	68.2J	618	91.5J	95.6J	415	569	521	1,050	672	420
P-8 (7')	1 _	7/16/2021		Native	<2.6	<2.5	<2.5	4.5J	3.2J	4.8J	<3.5	<2.5	7.7J	<2.8	5.3J	<2.4	<4.2	<2.9	<2.9	<1.9	4.6J	4.4J	189

PID=Photoionization Detector

PAHs=Polycyclic aromatic hydrocarbons; Analyzed by USEPA Method 8270E

DRO=Diesel Range Organics; Analzyed by Wisconsin Modified DRO method

PAH results expressed in micrograms per kilogram (ug/kg), DRO results expressed in milligrams per kilogram (mg/kg)

Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ² Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018). ³ Protection of Groundwater RCLs (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December, 2018). XX.XX Bold and brown = Exceeds Non-Industrial Direct Contact RCL

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"J" = Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

"NA" = Sample Not Analyzed for this Analyte

"NE" = No Established Standard

				Soil Ar		Table 3 Results Summ	ary for Metals	;				
					Fort Atki	-Lorman Scra nson, Wiscons roject No. 582	sin					
								Metals (m	g/kg)			
Sample ID	Sample Depth (feet)	Sample Date	PID	Fill/Native	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
C		on-Industrial RCL Industrial RCL ²	-		0.677 <u>3</u>	15,300 100,000	71.1 <u>985</u>	100,000 100,000	400 800	391 <u>5,840</u>	391 <u>5,840</u>	3.13 3.13
S		ter Pathway RCL	3		<u> </u>	164.8	0.752	360,000	27	0.52	0.8491	0.208
Stat	ewide Backgroui	nd Threshold Va	lue ⁴		8.3	364	1	44	52			
P-7 (3')	3	7/16/2021	<1	Fill	600 (8.2	DAK STREET 454	20.7	18.3	2,830	<2.7	1.4J	9.9
P-7 (9')	9	7/16/2021	<1	Native	3.6	64.3	0.23J	24.3	14.3	<1.4	<0.33	0.039J
P-8 (4')	4	7/16/2021	1	Fill	<u>27.6</u>	106	40.6	42.1	<u>6,100</u>	<7.9	19.7	1.0
P-8 (7')	7	7/16/2021	<1	Native Fill	2.0J NA	85.2 NA	4.5	28.2 NA	502 7 1 I	<1.6	<0.37 NA	0.078 NA
P-8A (1') P-8A (2')	2	2/17/2022 2/17/2022	<1 <1	Fill	NA	NA	NA NA	NA	7.1J 15.7	NA NA	NA	NA
P-8A (3')	3	2/17/2022	<1	Fill	NA	NA	NA	NA	<u>1,230</u>	NA	NA	NA
P-8A (4')	4	2/17/2022	<1	Fill	NA	NA	NA	NA	<u>2,940</u>	NA	NA	NA
P-8A (5')	5	2/17/2022 2/17/2022	<1 <1	Fill Native	NA NA	NA NA	NA NA	NA NA	<u>14,900</u> 220	NA NA	NA NA	NA NA
P-8A (6') GP-11 (3')	3	11/10/2022	<1	Fill	8.0	NA	NA	NA	330 241	NA	NA	0.066
GP-11 (7')	7	11/10/2021	<1	Native	7.0	NA	NA	NA	17.5	NA	NA	0.038J
GP-12 (3.5')	3.5	11/10/2021	2	Fill	5.7	NA	NA	NA	99.0	NA	NA	0.041J
GP-12 (9') GP-13 (4')	9	11/10/2021 11/10/2021	<1 <1	Native Fill	3.5 1.7J	NA NA	NA NA	NA NA	6.0 10.6	NA NA	NA NA	0.021J <0.010
GP-13 (9')	9	11/10/2021	<1	Native	2.1J	NA	NA	NA	4.2	NA	NA	<0.0098
GP-14 (4')	4	11/10/2021	<1	Native	3.3J	NA	NA	NA	32.8	NA	NA	0.042J
GP-14 (8')	8	11/10/2021	<1	Native	<1.7	NA	NA	NA	10	NA	NA	0.031J
MW-6 (2') MW-6 (4')	2 4	11/10/2021 11/10/2021	3	Fill	<u>10.1</u> 5.5	NA NA	NA NA	NA NA	387 <u>1,240</u>	NA NA	NA NA	0.49
MW-6 (9')	9	11/10/2021	<1	Native	2.8	NA	NA	NA	8.4	NA	NA	<0.22
B-13 (3')	3	2/17/2022	<1	Fill	2.9	NA	NA	NA	117	NA	NA	0.025J
B-13 (9')	9	2/17/2022	<1	Native	2.7J	NA	NA	NA	10.8	NA	NA	0.016J
B-14 (4') B-14 (8')	4	2/17/2022 2/17/2022	<1 <1	Fill Native	2.8J 8.1	NA NA	NA NA	NA NA	34.4 9.7	NA NA	NA NA	0.042 0.017J
B-15 (3')	3	2/17/2022	<1	Fill	5.3	NA	NA	NA	235	NA	NA	0.033J
B-15 (8')	8	2/17/2022	<1	Native	2.1J	NA	NA	NA	92.1	NA	NA	0.031J
B-16 (4')	4	2/17/2022	<1	Fill	9.4	NA	NA	NA	155	NA	NA	0.17
B-16 (8') B-17 (3')	8	2/17/2022 2/17/2022	<1 <1	Native Fill	<1.7 16.9	NA NA	NA NA	NA NA	41.9 2,130	NA NA	NA NA	0.068 0.89
B-17 (8')	8	2/17/2022	<1	Native	<1.6	NA	NA	NA	9.5	NA	NA	0.015J
B-18 (4')	4	2/17/2022	<1	Fill	6.3	NA	NA	NA	82.3	NA	NA	0.033J
B-18 (9')	9	2/17/2022	<1	Native	<3.0	NA	NA	NA	6.9	NA	NA	<0.010
B-19 (2') B-19 (9')	2	2/17/2022 2/17/2022	<1 <1	Fill Native	<u>21.0</u> 4.8	NA NA	NA NA	NA NA	56.8 10.9	NA NA	NA NA	0.038J 0.028J
DP-7(3)	3	4/28/2022	1	Fill	5.2	NA	NA	NA	287	NA	NA	0.17
DP-7(8)	8	4/28/2022	<1	Native	2.7J	NA	NA	NA	9.9	NA	NA	0.043
DP-8(3) DP-8(8)	3	4/28/2022 4/28/2022	<1 <1	Fill Native	<36.7 <1.7	NA NA	NA NA	NA NA	<u>10,900</u> 13.0	NA NA	NA NA	1.8 0.018J
DP-8(8) DP-9(3)	3	4/28/2022	<1	Fill	<1.7 <u>14.3</u>	NA	NA	NA	98.1	NA	NA	0.0185
DP-9(8)	8	4/28/2022	<1	Native	1.7J	NA	NA	NA	18.8	NA	NA	0.013J
DP-10(3)	3	4/28/2022	<1	Fill	<u>33.4</u>	NA	NA	NA	<u>3,460</u>	NA	NA	0.16
DP-10(7) DP-11(3)	8	4/28/2022 4/28/2022	<1 <1	Native Fill	2.4 <1.5	NA NA	NA NA	NA NA	8.5 2.7	NA NA	NA NA	0.024J <0.010
DP-11(3) DP-11(8)	8	4/28/2022	<1	Native	<1.5	NA	NA	NA	8.8	NA	NA	<0.010 0.016J
DP-12(3)	3	4/28/2022	<1	Fill	<u>18.0</u>	NA	NA	NA	114	NA	NA	0.097
DP-12(8)	8	4/28/2022	<1	Native	<1.7	NA	NA	NA	8.8	NA	NA	0.028J
SB-1 (1) SB-1 (2)	1	9/6/2022 9/6/2022	NA NA	Fill Fill	NA NA	NA NA	NA NA	NA NA	65 NA	NA NA	NA NA	NA NA
SB-1 (2)	3	9/6/2022	NA	Fill	NA	NA	NA	NA	<u>1,610</u>	NA	NA	NA
SB-1 (8)	8	9/6/2022	NA	Native	NA	NA	NA	NA	5.8	NA	NA	NA
SB-2 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	13.1	NA	NA	NA
SB-2 (2) SB-2 (4)	2 4	9/6/2022 9/6/2022	NA NA	Fill	NA NA	NA NA	NA NA	NA NA	NA <u>1,100</u>	NA NA	NA NA	NA NA
SB-2 (4) SB-2 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	9.9	NA	NA	NA
SB-3 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	15.5	NA	NA	NA
SB-3 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	NA
SB-3 (3) SB-3 (7)	3	9/6/2022 9/6/2022	NA NA	Fill Native	NA NA	NA NA	NA NA	NA NA	<u>875</u>	NA NA	NA NA	NA NA
SB-3 (7) SB-4 (1)	1	9/6/2022 9/6/2022	NA NA	Fill	NA	NA NA	NA NA	NA NA	8.1 16.2	NA NA	NA NA	NA NA
						1 · · · · · ·						

				Soil Ar		Table 3 Results Summ	ary for Metals	;				
					Fort Atki	o-Lorman Scra nson, Wiscons roject No. 582	sin					
						•	•	Metals (m	g/kg)			
Sample ID	Sample Depth (feet)	Sample Date	PID	Fill/Native	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	
	Direct Contact No	n-Industrial RCL	1	-	0.677	15,300	71.1	100,000	400	391	391	3
	Direct Contact	Industrial RCL ²			3	100,000	<u>985</u>	<u>100,000</u>	<u>800</u>	<u>5,840</u>	<u>5,840</u>	3
	Soil to Groundwat				0.584	164.8	0.752	360,000	27	0.52	0.8491	0.
	tewide Backgrour				8.3	364	1	44	52			
SB-4 (4)	4	9/6/2022	NA	Fill	NA	NA	NA	NA	<u>1,160</u>	NA	NA	
SB-4 (8)	8	9/6/2022	NA	Native	NA	NA	NA	NA	10.4	NA	NA	
SB-5 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	10.9	NA	NA	
SB-5 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-5 (4)	4	9/6/2022	NA	Fill	NA	NA	NA	NA	<u>2,140</u>	NA	NA	
SB-5 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	14.1	NA	NA	
SB-6 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	332	NA	NA	
SB-6 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	I
SB-6 (3)	3	9/6/2022	NA	Fill	NA	NA	NA	NA	135	NA	NA	
SB-6 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	4.8	NA	NA	
SB-7 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	14.4	NA	NA	
SB-7 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-7 (4)	4	9/6/2022	NA	Fill	NA	NA	NA	NA	<u>1,590</u>	NA	NA	
SB-7 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	57.6	NA	NA	
SB-8 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	30.7	NA	NA	
SB-8 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-8 (4)	4	9/6/2022	NA	Fill	NA	NA	NA	NA	<u>41,300</u>	NA	NA	1
SB-8 (7) SB-9 (1)	1	9/6/2022 9/6/2022	NA NA	Native Fill	NA NA	NA NA	NA NA	NA NA	13.4 173	NA NA	NA NA	
SB-9 (1) SB-9 (2)	2	9/6/2022	NA NA	Fill	NA	NA	NA	NA	173 NA	NA	NA NA	
SB-9 (2) SB-9 (3)	3	9/6/2022	NA	Fill	NA	NA	NA	NA	4.4	NA	NA	
SB-9 (3) SB-9 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	6.4	NA	NA	
SB-10 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	18.8	NA	NA	
SB-10 (1) SB-10 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-10 (2)	3	9/6/2022	NA	Fill	NA	NA	NA	NA	145	NA	NA	
SB-10 (3) SB-10 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	6.3	NA	NA	
SB-10 (7) SB-11 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-11 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-11 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	NA	NA	NA	
SB-12 (1)	1	9/6/2022	NA	Fill	NA	NA	NA	NA	17.0	NA	NA	
SB-12 (1) SB-12 (2)	2	9/6/2022	NA	Fill	NA	NA	NA	NA	NA	NA	NA	
SB-12 (2) SB-12 (3)	3	9/6/2022	NA	Fill	NA	NA	NA	NA	120	NA	NA	
SB-12 (3) SB-12 (7)	7	9/6/2022	NA	Native	NA	NA	NA	NA	12.3	NA	NA	1

Notes:

PID=Photoionization Detector Results expressed in milligrams per kilogram (mg/kg)

Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December, 2018 (with WDNR spreadsheet input parameters updated December 2018).

2 Industrial Residual Contaminant Levels (RCLs) for Direct Contact (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December 2018(with WDNR spreadsheet input parameters updated December 2018).

³Protection of Groundwater RCLs (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018).

⁴Wisconsin Department of Natural Resources Statewide Background Threshold Value, July 2015

XX.XX Bold and brown = Exceeds Non-Industrial Direct Contact RCL

Underlined and pink = Exceeds Industrial Direct Contact RCL Italicized and blue = Exceeds Soil to Groundwater Pathway RCL XX.XX XX.XX

XXXX Bold only = Exceeds 8TV J = Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

"NA" = Sample Not Analyzed for this Analyte

- = No Established Standard

			Fort Atkinsor	rman Scrapyard n, Wisconsin ct No. 58217147	
Sample ID	Sample Depth (feet)	Native or Fill	Sample Date	Total Lead (mg/kg)	Lead by TCLP (mg/L)
•			600 Oa	Street	
P-8A (1)	1	Fill	2/17/2022	7.1	
P-8A (2)	2	Fill	2/17/2022	15.7	
P-8A (3)	3	Fill	2/17/2022	<u>1,230</u>	8.0
P-8A (4)	4	Fill	2/17/2022	<u>2,940</u>	33.7
P-8A (5)	5	Fill	2/17/2022	<u>14,900</u>	84.5
P-8A (6)	6	Fill	2/17/2022	330	11.9
Direc	t Contact Indus	strial RCL ¹		400	
Direc	t Contact Indus	strial RCL ²		800	
	Groundwater Pa			27	
	CLP Regulatory				5.0
<u>otes:</u> CLP = Toxicity Cha	acteristics Lea	ching Proced			5.0 expressed in milligrams per liter

Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December, 2018 (with WDNR spreadsheet input parameters updated December 2018).

² Industrial Residual Contaminant Levels (RCLs) for Direct Contact (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December 2018(with WDNR spreadsheet input parameters updated December 2018).

³ Protection of Groundwater RCLs (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018).

⁴ TCLP Regulatory Level, Table 2, NR 661.24, Wisconsin Administrative Code

XX.XX	Underlined and brown = Exceeds Non-Industrial Direct Contact RCL
XX.XX	Bold and tan = Exceeds Industrial Direct Contact RCL
XX.XX	Italicized and blue = Exceeds Soil to Groundwater Pathway RCL
XX.XX	Bold and Pink = Exceeds TCLP Regulatory Level
	Dashed lines = No Standard

Table 5 Soil Analytical Test Results Summary for PCBs

1 0

					PCBs (ug/kg)										
Sample ID	Sample Depth (feet)	Sample Date	PID	Fill/Native	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1248 (Aroclor 1248)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)	PCB, Total			
	Direct Cor	ntact Non-Indu	ustrial RCL ¹		4,110	213	190	235	236	239	243				
	Direct C	Contact Indust	rial RCL ²		<u>28,000</u>	<u>883</u>	<u>792</u>	<u>972</u>	<u>975</u>	<u>988</u>	<u>1,000</u>				
	Soil to Gro	oundwater Pat	hway RCL ³		NE	9.4									
					600 C	AK STREET									
P-7 (3')	3	7/16/2021	<1	Fill	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9			
P-7 (9')	9	7/16/2021	<1	Native	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8	<17.8			
P-8 (4')	4	7/16/2021	1	Fill	<19.0	<19.0	<19.0	<19.0	<19.0	<19.0	<19.0	<19.0			
P-8 (7')	7	7/16/2021	<1	Native	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1			

Notes:

PID=Photoionization Detector

PCBs=Polychlorinated biphenyl; Analyzed by USEPA Method 8082

Results expressed in micrograms per kilogram (ug/kg)

¹ Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018).

² Industrial Residual Contaminant Levels (RCLs) for Direct Contact (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018).

³ Protection of Groundwater RCLs (December 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December, 2018).

XX.XX Bold and brown = Exceeds Non-Industrial Direct Contact RCL

XX.XX Underlined and pink = Exceeds Industrial Direct Contact RCL

XX.XX Italicized and blue = Exceeds Soil to Groundwater Pathway RCL

"J" = Estimated concentration at or above the limit of detection (LOD) and below the limit of quantitation (LOQ)

"NE" = No Established Standard

	Table	9 6								
	Sidewall and Base Sar	mple Results: Lead								
	Former Loeb-Lorr Fort Atkinson, Terracon Projec	Wisconsin								
			(mg/kg)							
Sample ID	Sample Depth (feet)	Sample Date	Total Lead							
	Direct Contact Industrial RCL	1	400							
	Direct Contact Industrial RCL ²									
Sc	Soil to Groundwater Pathway RCL ³									
	wide Background Threshold V		52							
	Area 1 - Sidew	all Samples								
O1SW-1	2.5	1/23/2023	8.1							
O1SW-2	2.5	1/23/2023	18.2							
O1SW-3	2.5	1/23/2023	<u>1,470</u>							
O1SW-4	2.5	1/23/2023	262							
O1SW-5	2.5	1/23/2023	146							
O1SW-6	2.5	1/23/2023	<u>3,340</u>							
O1SW-7	2.5	1/23/2023	6.1							
O1SW-8	2.5	1/23/2023	2.2							
O1SW-9	2.5	1/23/2023	51.5							
O1SW-10	2.5	1/23/2023	18.5							
	Area 1 - Base	•								
O1B-1	5	1/23/2023	26.6							
O1B-2	5	1/23/2023	8.4							
O1B-3	5	1/23/2023	26.8							
O1B-4	5	1/23/2023	28.9							
O1B-5	5	1/23/2023	16.8							
	Area 2 - Sidew	•								
O2SW-1	2.5	1/23/2023	<u>16,400</u>							
02SW-2	2.5	1/23/2023	<u>2,070</u>							
O2SW-3	2.5	1/23/2023	23,600							
O2SW-4	2.5 Area 2 - Base	1/23/2023	<u>26,700</u>							
000 4		•	00.4							
O2B-1	5	1/23/2023	29.1							

Notes:

Total Lead results expressed in milligrams per kilogram (mg/kg)

¹ Non-Industrial Residual Contaminant Levels (RCLs) for Direct Contact (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December, 2018 (with WDNR spreadsheet input parameters updated December 2018).

² Industrial Residual Contaminant Levels (RCLs) for Direct Contact (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated December 2018(with WDNR spreadsheet input parameters updated December 2018).

³ Protection of Groundwater RCLs (Dec 2018) per Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator PUB-RR-890, dated January 2014 (with WDNR spreadsheet input parameters updated December 2018).

⁴ Wisconsin Department of Natural Resources Statewide Background Threshold Value, July 2015 XX.XX Underlined and brown = Exceeds Non-Industrial Direct Contact RCL

XX.XX	Underlined and brown = Exceeds Non-Industrial Direct Contact RCL
<u>XX.XX</u>	Bold and tan = Exceeds Industrial Direct Contact RCL
XX.XX	Italicized and blue = Exceeds Soil to Groundwater Pathway RCL
XX.XX	Bold only = Exceeds BTV
	Dashed lines = No Standard

Table 7 Mass Removed Calculations Table

Former Loeb-Lorman Scrapyard Fort Atkinson, Wisconsin Terracon Project No. 58217147

			Contaminant Average Total Lead										
								Soil Mass	Concentration	Total Lead Contaminant	Total Lead Contaminant		
<u>Polygon</u>	<u>Length</u>	<u>Width</u>	<u>Area (ft2)</u>	<u>Depth (ft)</u>	Volume (ft3)	Cubic Yards	<u>Tons</u>	<u>(kg)</u>	<u>(mg/kg)</u>	<u>Mass (kg)</u>	<u>Mass (pounds)</u>		
									Area 1				
а	48	35	1680	3	5040	187	271	245545	11450.5	2812	6186		
		TOTALS:	1680		5040	187	271		11450.5		6186		
									Area 2				
а	10	10	100	3	300	11	16	14616	6100.0	89	196		
		TOTALS:	100		300	11	16		6100.0		196		
		TOTALS:	1780		5340	198	287		17551		6382		

287 Estimated Tonage Removed

<u>Source</u>

SB-8 (4'), DP-8 (3'), DP-10 (3'), DP-11(3'), SB-7 (4')

P-8 (4')

6,382 Overall Total Pounds of Lead Removed

Table 8 Mass Remaining Calculations Table

Former Loeb-Lorman Scrapyard Fort Atkinson, Wisconsin Terracon Project No. 58217147

									Average Total Lea			
								Soil Mass	Concentration	Total Lead Contaminant	Total Lead Contaminant	
<u>Polygon</u>	<u>Length</u>	<u>Width</u>	<u>Area (ft2)</u>	<u>Depth (ft)</u>	Volume (ft3)	Cubic Yards	<u>Tons</u>	<u>(kg)</u>	<u>(mg/kg)</u>	<u>Mass (kg)</u>	<u>Mass (pounds)</u>	<u>Source</u>
									d surrounding)			
а	30	10	300	3	900	33	48	43847	48.7	2	5	SB-10, SB-12, O1SW-9, O1SW-10
b	20	40	800	3	2400	89	129	116926	223.0	26	57	SB-6, SB-9, DP-7, O1SW-1 through O1SW-3
С	5	52	260	3	780	29	42	38001	1116.1	42	93	O1SW-6 through O1SW-8
d	80	20	1600	3	4800	178	258	233852	463.3	108	238	SB-3, SB-4, B-17,O1SW-4, O1SW-5
		TOTALS:	2960		8880	329	477		462.8		393.7	
								Area 2 (an	d surrounding)			
а	95	18	1710	4	6840	253.33	367.33	333239.29	4619.3	1539.33	3386.53	SB-3, DP-9, O2SW-4
b	35	20	700	2	1400	51.85	75.19	68206.87	4520.0	308.30	678.25	GP-12, SB-1,O2SW-1
С	20	20	400	4	1600	59.26	85.93	77950.71	4153.0	323.73	712.20	B-16, SB-2, O2SW-3
d	105	15	1575	2	3150	116.67	169.17	153465.46	909.0	139.50	306.90	MW-6, GP-15, B-15, O2SW-2
е	140	105	14700	2	29400	1088.89	1578.89	1432344.32	292.0	418.24	920.14	GP-11, B-19, B-14, P-7,B-13,B-18
	-	TOTALS:	3817.0	-	8478.0	314.0	455.3		2898.7		6004	

aminant	
nds <u>)</u>	

6,398 Overall Total Pounds of Lead Remaining



Appendix C Soil Boring Logs and Borehole Abandonment Forms

Route To:	Wa

Watershed/Wastewater

Waste Management
Other

														Pag		of	1	
Facilit	-			oeb-I o	rman Scrapya	ard	License/	Permit/	Monito	ring N	umber		Boring Number SB-1					
					hief (first, last) a		Date Dr	illing St	arted		Da	te Drilli	ng Cor	npleted	<u> </u>	Drilling Method		
TT	·						9/6/2022						0/6/2	022				
HOT WI Ur	izon ique W	ell No).	DNR	Well ID No.	Common Well Name	Final Sta			el	Surfac	e Elevat	9/6/2	022	B	Direct Push Borehole Diameter		
	-							Feet 1				Fee	t MS			2.0 inches		
Local		rigin	[] (e	estimated	: []) or Boi N,	La	at	0	,	"	Local C	drid Lo	_					
State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R								g	0	,	"		Feet				⊢ E Feet □ W	
Facilit					County		County Co		Civil T			Village						
	1		1	1	Jefferson		28	1	Fort A	Atkin	ison	1	C '1	D				
San	nple				G 11/1								Soil	Prope	erties		_	
	tt. & d (in	ints	Feet			lock Description eologic Origin For						ive					s	
ber Type	th Ai vere	Cot	h In			ch Major Unit		CS	hic	ram	Ð	press	ture	t g	icity (/ ment	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			5		U S O	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1	60 35		=	Fill,	Silty Sand, re	eddish brown, medi	ium	Fill	XXX									
	35		-1			led, medium dense, medium grained, w		1			0.01						*Sample	
			È.	grad	ed, medium c	lense, trace silt, mo	oist				0.01						Submitted	
			-2		ŕ			Fill			0.01							
			-3								0.09						*Sample	
			Ē,								0.09						Submitted	
			<u>–</u> 4	Silty	Clay, brown	, medium plastic, n	nedium	CL-M			0.07							
2	60		-5		, moist						0.01							
-	36		Ē	Clay	ey Silt, dark ium firm, mo	brown, low plastic,		ML			0.01							
			<u>–</u> 6			n, medium plastic,	/				0.01							
			-7	medi	ium firm, mo	ist					0.01							
			Ē	vei	ry firm			CL]								
											0.01						*Sample Submitted	
			-9								0.01							
			E-10															
			10	End	of Boring @	10'					0.01							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

0

Signature Firm Terracon Consultants, Inc. Tel: 414-423- 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Tel: 414-423-

Route To:	Wate

Watershed/Wastewater

Waste Management
Other

														je 1	of	1		
	y/Projec			1.1. 0		License/	Permit/	Monito	ring N	umber		Boring Number SB-2						
				eb-Lorman Scrapya		D (D		1			- D '11'	0						
Boring	g Drilleo	i By:	Name of	f crew chief (first, last) a	nd Firm	Date Dr	illing Si	arted		Da	te Drilli	ng Con	npleted		Drilling Method			
Ho	rizon					9/6/2022						9/6/2	022		Direct Push			
	nique W	ell No).	DNR Well ID No.	Common Well Name	Final Sta			el	Surfac						Borehole Diameter		
	-					Feet I	MSL			Fee	t MS	L		2.0 inches				
	Grid Or	igin	(es	timated: 🗌) or Bor			at	0	,	"	Local (drid Loo						
State				,	E S/C/N			0					□ N		🗌 E			
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Facilit	уШ			County Jefferson		County Co 28	bae	Fort A			village							
Sar	nple			Jenerson		20						Soil	Prope	rties				
	^			G - 11/P	le de Deservición							5011		ities		-		
	t. &	nts	feet		Rock Description						ive					ø		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		eologic Origin For		S	IC.	ma	A	Compressive Strength	nte	_	Plasticity Index		RQD/ Comments		
d T.	engt	MO	epth	Eac	ch Major Unit		SC	Graphic Log	Well Diagram	PID/FID	Compress Strength	Moisture Content	Liquid Limit	Plastic Index	200	D/QD/		
	<u>л й</u> 60	BI		E'11 C'14 C 1 4	1	1	D		≥ ∩		S S	ΣŬ	ΞΞ	Pl In	Р	<u> </u>		
1	33		-1-2		n, medium grained lense, trace gravel,		Fill											
			-1	e						0.01						*Sample		
			Ē	Fill, Silty Sand, b	lack, no trace of gra	avel										Submitted		
			-2							0.01								
			-3				Fill											
			E							0.10								
			-4							0.48						*Sample		
			Ē	Fill Clavey Silt of	gray, low plastic,me	dium				0.48						Submitted		
2	60		-5	firm, trace sand, n	noist	Juluin	Fill			0.02								
	39		Ē			1.		XXX										
			- 6	firm, trace sand, r	nedium plastic, me	dium	CL-M	<u>III</u>		0.01								
			E_7	mm, trace sand, n	noist			'HH	1									
			-7	Clavev Silt, grav.	low plastic, soft, tra	ace		HH		0.01						*Sample Submitted		
			-8	sand, wet	1 , ,					0.01						Suching		
			E				ML			0.01								
			E-9							0.01								
			-10															
			10	End of Boring @	10'					0.01								
								•			•							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 414- 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Tel: 414-	4-423-0255 4-423-0566
---	--------------------------

Route To:	Wa

Watershed/Wastewater

Waste Management
Other

														Pag		of	1	
	y/Proje			1 7 0		1	License	e/Permit/	Monito	ring Nı	umber		Boring	Numbe		2		
				beb-Lorman S			Data D	rilling S	tartad		Do	te Drilli	ng Cor	mlatad	SB		Drilling Method	
Doring	, Dima	I Dy.		r crew chier (ins	i, iasi) a	na i iiii	Date D	Date Drilling Started Date I					ng con	npieceu		Drining Wethod		
Ho	izon						9/6/2022						9/6/2	022		Direct Push		
WI Uı	nique W	ell No		DNR Well ID	No.	Common Well Name	Final S	tatic Wa		el	Surfac	e Elevat		_	Bo	Borehole Diameter		
								Feet]	MSL			Fee Local C	t MS			2.0	inches	
Local Grid Origin (estimated:) or Boring Location State Plane N, E S/C/N								.at	o	<u> </u>	"	Local C	iria Lo	cation				
1/4 of $1/4 of Section$, T N, R							Lo	ng	o	•	"		Feet]	⊢ E Feet □ W	
Facilit	y ID			County	/		County C		Civil T			Village						
		-	1	Jeffer	son		28		Fort 4	Atkin	son	1						
Sar	nple												Soil	Prope	erties			
	Length Att. & Recovered (in)	ıts	eet			lock Description						ve						
pe pe	ı Att ered	Blow Counts	Depth In Feet			eologic Origin For		s	2	8		Compressive Strength	t e		ity		RQD/ Comments	
Number and Type	ngth) M0	pth		Eac	ch Major Unit		SC	Graphic Log	Well Diagram	PID/FID	impi	Moisture Content	Liquid Limit	Plasticity Index	200	SD/	
	<u>م م</u> 60	Bl	Ď	E.11 0.14 0	1 /	1 1	11		Grap	Di K	Id	S C	Σŭ	ĒĒ	Pla In	Р	<u> </u>	
1	34		E			n, medium grained lense, moist	, well	Fill										
			<u>-1</u>	Fill, Sand, b	black,	medium grained, w	vell				0.01						*Sample	
			E_2	graded, me	dium d	lense, trace silt, mo	ist										Submitted	
								Fill			0.01							
			-3								0.04						*Sample	
			È,	Sandy Clav	. brow	n, medium plastic,	firm.				0.01						Submitted	
			-4	trace gravel			,				0.02							
			E_5															
2	60 46		Ē	reddish bi	rown, i	medium firm		CL			0.02							
			-6								0.01							
			F ,															
			-7	∖brown				/	╎	1	0.01						*Sample Submitted	
			E-8	Sandy Silt,	brown	, low plastic, soft,	wet				0.01						Submitted	
			E					ML			0.01							
			E-9								0.01							
			E-10															
			10	End of Bor	ing @	10'					0.01							
	I									I	1	1		1	I		L	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Terracon Consultants, Inc. 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110	Tel: 414-423-0255 Fax: 414-423-0566
Signature	Terracon Consultants, Inc.	Tel: 414-423-02

Route To:	Wa

Watershed/Wastewater

Waste Management
Other

													Pag	·	of	1		
	y/Proje 17147			beb-Lorman Scrapya	ard	License/	Permit/	Monito	ring Nı	umber		Boring Number SB-4						
Boring	g Drille	d By:	Name of	f crew chief (first, last) a	nd Firm	Date Dri	lling St	arted		Da	te Drilli	ng Con	npleted	50	Drilling Method			
Hor	rizon					9/6/2022						9/6/2022				Direct Push		
	ique W	ell No).	DNR Well ID No.	Common Well Name	Final Sta			el	Surfac	e Elevat		022	Bo		Diameter		
<u> </u>	<u>a : 1 a</u>						Feet M	MSL				t MS			2.0 inches			
Local State	Grid Oı Plane	rıgın		stimated: 🗌) or Bor N,	E S/C/N	La	.t	o	<u> </u>	"	Local C	frid Loo	ation			Ε		
	1/4	of	1	/4 of Section ,	T N, R	Long		°	'	"		Feet]	Feet W		
Facilit	y ID			County Jefferson		County Co 28	de	Civil T Fort			Village							
Sar	nple			Jenerson		20		FOIL				Soil	Prope	erties				
	·	0	t.	Soil/R	lock Description						0		<u>_</u>					
ຼ່ອ	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Ge	eologic Origin For						Compressive Strength	9		ý		ints		
Number and Type	ngth cove	ow C	pth I	Eac	ch Major Unit		SCS	Graphic Log	Well Diagram	PID/FID	mpre	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
	60 Fe	Ble	De	F'11 C'1 C C 1 C	1:		D	X Grap X Log	Well Diagr	IId	Str Str	CΫ́	Lii Lii	Pla Inc	Р2	CC RC		
1	33			\exists fill, Silly Sand, ta	n, medium grained, lense, moist	wen /	Fill											
			Ē	Fill, Sand, black,	medium grained, we		Fill			0.01						*Sample Submitted		
			-2	$_{\neg}$ moist	lense, trace metal de	bris,				0.01						Submitted		
			-3	Fill, Clayey Silt, b	prown, low plastic,	/												
				medium firm, trac	e metal debris, mois	st				0.05								
			-4				Fill			0.11						*Sample		
			5													Submitted		
2	60 35									0.03								
			6	Silty Clay, gray, n sand, firm, moist	nedium grained, trac	ce				0.01								
			E_7	sand, mm, moist			CL-MI			0.01						*0.1		
				Clayev Silt, gray,	low plastic, trace sa	nd.		<u> </u>	1	0.01						*Sample Submitted		
				soft, wet		,				0.01								
			-9				ML			0.01								
			-10							0.01								
			- 10	End of Boring @	10'					0.01								
																L		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 4 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Fax: 4	14-423-0255
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Route	To:	Wat

Watershed/Wastewater

Waste Management
Other

_																		ge 1	of	1		
	y/Proje					~				License	/Permit/	Monito	ring N	umber		Boring	Numbe		~			
						orman Sci				D / D	.111. 0	1			- D '11'	rilling Completed						
Boring	g Drilleo	1 By:	Nan	ne oi	crew	chief (first,	last) a	nd Firm		Date D	rilling S	tarted		Da	te Drilli	ng Con	npleted		Drilling Method			
Ho	rizon										9/6/	2022				9/6/2	022		Direct Push			
	nique W	ell No).		DNR	R Well ID N	0.	Common Well N	Name	Final S	tatic Wa		el	Surfac	e Elevat			Bo		Diameter		
											Feet 1	MSL				t MS			2.0	inches		
	Grid Oı	rigin		(es	timated			ing Location E S/C/N]	T	.at	0	,	"	Local C	Grid Lo						
State	Plane	. 6		1	/4 .60		<i>´</i>					•	,	"		E. d	□ N □ S			□ E Feet □ W		
Facilit	1/4 v ID	01		1/	4 01 5	County		T N, R		County C	ng lode	Civil T	own/C	tity/ or V	Village	reet				reet 🗆 w		
	<i>J</i>					Jefferso	on			28		Fort A										
Sar	nple					1										Soil	Prope	erties				
	n) &			tt.			Soil/R	ock Description														
o	Att. e ed (j	ounts		I Fee				ologic Origin For	r						ssive			>		ıts		
Number and Type	Length Att. & Recovered (in)	Blow Counts		Depth In Feet				h Major Unit			CS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	ii d	Plasticity Index	0	RQD/ Comments		
Nun [']	Leng	Blov		Depi							U S	Grap Log	Well	DID	Con	Moi	Liquid Limit	Plastic Index	P 200	Con		
1	60		-					n, medium gra	ained	, well	Fill											
	35		E	1				ense, moist			/											
			E		Fill,	, Sand, bl	ack, 1	nedium grain ense, moist	ed, w	rell	Fill			0.01						*Sample Submitted		
			E	2	grac	ued, medi	uma	ense, moist			1 111			0.01								
			E		Fill.	. Clavev S	Silt. b	rown, low pla	astic.					0.01								
			Ē	3	med	lium firm	, trac	e metal debris	s, moi	ist				0.07								
			E.	4							Fill											
			E											0.22						*Sample Submitted		
2	60		E	5										0.02								
-	50			_	Silt	v Clav, gr	av. n	nedium plastic	c. firn	n .		1		0.02								
			E	6	moi		5	1	,	,				0.01								
			E,	7																		
			E											0.01						*Sample Submitted		
			E	8							CL-M	H		0.01								
							0							0.01								
				9	tra	ace sand,	soft,	wet						0.01								
				10																		
					End	l of Borin	g @	10'						0.01								
																				L		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

4000 South Donneydynnia Avenue, Suite 100/Cudeby Wisconsin 52110	Tel: 414-423-0255 Fax: 414-423-0566
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Route To:	Wa

Watershed/Wastewater

Waste Management
Other

													Pag		of	1	
	y/Proje 17147			beb-Lorman Scrapy	ard	License/	Permit/	Monito	ring Nı	umber		Boring	Numbo	er SB	-6		
				f crew chief (first, last) a		Date Drilling Started Date D					te Drilling Completed					Drilling Method	
Hoi	izon						9/6/	2022				9/6/2	022		Direct Push		
WI Ur	ique W	ell No		DNR Well ID No.	Common Well Name	Final Sta			l	Surfac	e Elevat	ion		Bo	rehole	Diameter	
Local	Grid O	rigin	(es	stimated: 🗌) or Bor	ing Location	1	Feet I				Fee Local C	t MSI			2.0	inches	
State	Plane	-	_ `	N,	E S/C/N	La		<u> </u>	<u>'</u>				ΠN			Ε	
Facilit	1/4	of	1	/4 of Section , County	T N, R	Lon		Civil T			Village	Feet	S]	Feet 🗌 W	
Facint	уШ			Jefferson		28	Jue	Fort A			vinage						
Sar	nple											Soil	Prope	erties			
	li. s	ıts	eet		Rock Description						ve						
er ype	h Att ered	Cour	In F		eologic Origin For		s	.e	E H		th	nte	_	tity		nents	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Eau	ch Major Unit		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1	60 35		=		n, medium grained,	well		Ŵ									
	55		-1	graded, medium d	lense, moist		Fill			0.01						*Sample	
					medium grained, we											Submitted	
			Ē	graded, medium c moist	lense, trace metal de	ebris,	Fill			0.03							
			-3							0.06						*Sample Submitted	
			4 5	Silty Clay, gray, r firm, moist	nedium plastic, med	lium	CL-M			0.02							
2	60 43		6	Silty Sand, light b well graded, dens	rown, medium grain e, trace gravel, very	ned, moist				0.01							
			-7							0.01						*Sample	
			8				SM			0.01						Submitted	
			-9							0.01							
			-10	End of Boring @	10'					0.01							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 4 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Fax: 4

Route	To:	Wat

Watershed/Wastewater

Waste Management
Other

														ge 1	of	1	
	y/Proje					License/	Permit/	Monitor	ring N	umber		Boring	Numbe		Π		
				beb-Lorman Scrapy			11: 0						1 . 1	SB			
Boring	g Drilleo	i By: 1	Name of	f crew chief (first, last) a	nd Firm	Date Dri	lling St	arted		Dat	te Drilli	ng Con	npleted		Drilling Method		
Ho	rizon						9/6/	2022				9/6/2	022		Direct Push		
	nique W	ell No		DNR Well ID No.	Common Well Name								022	Bo	Borehole Diameter		
	1						Feet I					t MS	L			inches	
	Grid Oı	rigin	(es	stimated: 🗌) or Bo				0	,		Local C	brid Loo	cation				
State	Plane			· · · · · · · · · · · · · · · · · · ·	E S/C/N								ΠN			Ε	
	1/4	of	1	/4 of Section ,	T N, R	Long	g	0 			**11	Feet	S		-	Feet 🗌 W	
Facili	y ID			County		County Co 28	de	Civil To			/illage						
	1 .			Jefferson		28		Fort A	Atkin	son		0.1	D				
Sar	nple											5011	Prope	erties		-	
	Length Att. & Recovered (in)	ıts	eet		Rock Description						ve						
r pe	Length Att. & Recovered (in	Blow Counts	Depth In Feet		eologic Origin For		s	5	в		Compressive Strength	t t		ity		RQD/ Comments	
nbe I Ty	ngth) we	pth]	Ea	ch Major Unit		SC	Graphic Log	Well Diagram	PID/FID	mpr engt	Moisture Content	Liquid Limit	Plasticity Index	P 200	Q uu	
Number and Type	Leı Re	Blc	De				n s	Grap Log	Well Diagr	IId	Co. Str	Co Co Co	Lic	Pla Ind	P 2	Co. RQ	
1	60 34		E	Fill, Silty Sand, ta	n, medium grained	l, well											
	54		-1	graded, medium d	lense, moist		Fill			0.01						*0 1	
			E	Eill Sand black	mandinum amainad u					0.01						*Sample Submitted	
			-2	graded, medium d	medium grained, w	en	Fill			0.01							
			1 2 3 4 5 6 7 8		iense, moist		1.111			0.01							
			E-3	Fill, Sandy Silt, re	eddish brown, non j	plastic,				0.03							
			–4	trace metal debris	, soft, moist												
			= 4				Fill			0.08						*Sample	
			– 5													Submitted	
2	60 51		Ē	<u> </u>	1. 1	1.		XXX		0.01							
			-6	firm, trace sand, r	nedium plastic, med	lium		III		0.01							
			F		noist			M		0.01							
			-7				CL-MI	W		0.01						*Sample	
			Ē													Submitted	
			<u>-8</u>							0.01							
			E_9	Silty Sand, gray,	nedium grained, w	ell											
			L -	graded, loose, we	t		SM			0.01							
L	-		-10		1.01					0.01							
				End of Boring @	10'					0.01							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Tel: 414-423 Fax: 414-423

Route To:	Wat

Watershed/Wastewater

Waste Management
Other

													Pag		of	1		
	y/Proje			1.7.		License/I	Permit/	Monitor	ring N	umber		Boring	Numbe		0			
				beb-Lorman Scrapya f crew chief (first, last) and		Dete Dei	11:			D	4. D.:11:	Drilling Completed				Drilling Method		
Boring	gDriffe	і Бу: 1	Name o	r crew chier (first, last) al		Date Dri	ning St	arted		Da	te Driii	ng Con	npieted		Drining Method			
Hor	izon						9/6/	2022			9/6/2022				Direct Push			
	ique W	ell No		DNR Well ID No.	Common Well Name	Final Sta	tic Wat	er Leve	el	Surfac	e Elevat			Bo	rehole	Diameter		
							Feet N	MSL				t MSI			2.0	inches		
Local State	Grid Oı Dlana	igin			ing Location \Box E S/C/N	La	t	0	,	"	Local C	brid Loo				_		
State	1/4	of	1	/4 of Section ,	T N, R	Long		0	,	"		Feet			$\Box E$ Feet $\Box W$			
Facilit		01	1	County		County Co		Civil To	own/C	ity/ or `	Village	Teet						
	•			Jefferson		28		Fort A			e							
San	nple											Soil	Prope	rties				
	& in)	s	tt	Soil/R	ock Description						0							
e	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	And Ge	ologic Origin For						Compressive Strength	0		y		nts		
Typ	gth , over	Č ×	th Ir	Eac	h Major Unit		CS	phic	l 2ran	PID/FID	ngth	Moisture Content	ii d	ticit x	0	D/		
Number and Type	Len Rec	Blor	Dep				U S	Graphic Log	Well Diagram	DID	Compress Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
1	60		F	Silty Sand, tan, me	edium grained, well	1	Fill											
	36		E_1	graded, medium d														
			Ē	Fill, Sand, black, i graded, medium d	medium grained, we	ell				0.01						*Sample Submitted		
			-2		glass debris, trace si	ilt	Fill			0.02								
			Ē.															
			-3	Fill, Clayey Silt, b	lack, low plastic,					0.08								
			-4	medium firm, moi	st													
			Ē				Fill			0.12						*Sample Submitted		
2	60		-5							0.01								
-	47		Ē	Silty Clay, gray, n	nedium plastic, trac	e		ĬŴ										
			<u>–</u> 6	sand, firm, moist				M		0.01								
			-7				CL-MI											
			E					HH.		0.01						*Sample Submitted		
			-8					XX.		0.01						Suchinera		
			È,		n, medium plastic, 1	trace				0.01								
			<u>-9</u>	gravel, soft, wet			CL			0.01								
			-10															
			10	End of Boring @	10'					0.01								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 414 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Tel: 414	14-423-0255 14-423-0566
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Route To	<u>o:</u> Wa

Watershed/Wastewater

Waste Management
Other

														Pag		of	1
			t Nam		1 1 2	1	License/I	Permit/	Monito	ring Nı	umber		Boring	Numbe		0	
					beb-Lorman Scrapya		Date Dri	lling St	ortad		D	ta Drill:	Drilling Completed				ing Method
DOLI	Ig D	imea	Бу. 1	vame of	i crew chief (first, fast) a	na fiim	Date DI	inng Si	aneu		Da		ng Con	ipieteu	Drilling Method		
H¢	orizo	on						9/6/	2022				9/6/2	022			rect Push
WIU	Jniqu	ue W	ell No.		DNR Well ID No.	Common Well Name	Final Sta			el	Surfac	e Elevat			Bo		Diameter
Lass	1.0-	10-			timatadi 🔽) an Dan			Feet N	MSL				t MSI			2.0	inches
Loca State			Igin	∐ (es	timated: 🗌) or Bor N,	ing Location \Box E S/C/N	La	t	•	<u> </u>	"	Local C	ma Loo	ation			Ε
		1/4	of	1	/4 of Section ,	T N, R	Long	g	°	'	"		Feet]	Feet 🗌 W
Facil	ity II	D			County	(County Co		Civil T			Village					
					Jefferson	,	28		Fort 4	Atkin	son						
Sa	mp	le											Soil	Prope	rties		
	જ	ii) 3	ıts	eet		lock Description						ve					
n er	Length Att. &	Recovered (in)	Blow Counts	Depth In Feet		eologic Origin For		s	.0	8		Compressive Strength	it e		ity		RQD/ Comments
Number and Type	u - J	COV	o wo	spth	Eac	ch Major Unit		SC	Graphic Log	Well Diagram	PID/FID	mpi	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comm
ž Ę			Bl	Ď	D'11 O'11 O 1 /	/1 1'		D	Grap	D K	Id	St Cc	Σ̈́Ŭ	ĒĒ	Pl ² Inc	Р	ы К К К К
1		60 36		E	Fill, Silty Sand, ta	led, medium dense,	moist										
				-1	grunned, wen grud	ieu, meurum uense,	monst				0.01						*Sample
				-2				Fill									Submitted
											0.01						
				-3							0.01						*Sample
				E	Clavey Silt, brown	n, low plastic, medi	um				0.01						Submitted
				-4	firm, moist			ML			0.01						
				E_5													
2		60 52		Ē		, medium plastic, fii	m,				0.01						
				-6	trace gravel, mois	t				1	0.01						
								CL-MI		1							
				E' I						}	0.01						*Sample Submitted
				-8]	0.01						Submitted
				E	Silty Sand brown	, medium grained, v	vell]	0.01						
				-9	graded, medium d	lense, wet	wen	SM		:	0.01						
				-10	-												
				10	End of Boring @	10'					0.01						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 414- 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Tel: 414- Fax: 414-	-423-0255 -423-0566
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Route To:	Watershed/Wastewater	
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Remediation/Redevelopment

Waste Management
Other

													Pag		of	1	
	y/Proje			1.1.	1	License/	Permit	Monito	ring Nı	umber		Boring	Numbe		10		
				beb-Lorman Scrapy of crew chief (first, last)		Dete De					4. D.:11:	C	1.4.1		B-10 Drilling Method		
Boring	g Drilleo	і Ву: 1	Name o	of crew chief (first, last)	and Firm	Date Dr	lling S	larted		Da	te Driin	rilling Completed				ing Method	
Hoi	rizon						9/6/	2022				9/6/2022				irect Push	
WI Ur	ique W	ell No		DNR Well ID No.	Common Well Name	Final Sta	tic Wa	ter Leve	el	Surfac	e Elevat	tion		Bc		Diameter	
											t MSI			2.0	inches		
Local State	Grid Oı Dlana	rigin	[] (e	stimated:) or Bo N,	bring Location \Box E S/C/N	Local					Local C	irid Loo				_	
State	1/4	of	1	1/4 of Section ,	T N, R	$ \begin{array}{c c} Lat & \square & \square \\ Long & _ & _ & _ \\ Long & _ & _ & _ \\ \end{array} $								□ E Feet □ W			
Facilit		01	1	County	/	County Co		Civil T	own/C	ity/ or	Village	Tut					
				Jefferson		28		Fort A	Atkin	son	C C						
Sar	nple											Soil	Prope	erties			
	ii) &	s	GT	Soil/	Rock Description						0						
. o	Att. ed (ount	1 Fe	And C	eologic Origin For						ssiv	Ju		2 2		nts	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Ea	ich Major Unit		CS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	uid nit	Plasticity Index	200	RQD/ Comments	
Nur and	Len Rec	Blo	Dep				U S	Grap Log	Well Diagr	II	Cor	Cor	Liquid Limit	Plastic Index	P 2(RQ	
1	60 35		F	Fill, Silty Sand, t	an, medium grained	, well	Fill										
	35		E-1	graded, medium		/				0.01						*0 1	
			Ē	plastic, medium	blackish brown, low					0.01						*Sample Submitted	
			-2	plastic, mediani	inin, moist		Fill			0.02							
			-3														
			- 3							0.13						*Sample Submitted	
			-4	Fill, Clayey Silt, firm, moist	gray, low plastic, me	edium				0.01						Sublinued	
			E	mm, moist			Fill			0.01							
2	60		E-5							0.01							
	47		-6	Silty Clay, light l	prown, medium plas	tic,			1								
			E	firm, trace sand,	moist]	0.01							
			-7]	0.01						*Sample	
							CL-M]	0.01						Submitted	
			<u>-8</u>	Q					}	0.01							
			E-9	soft, wet]								
			F						1	0.01							
			-10	End of Boring (a	10'			<u> FXX</u>	1	0.01							
				End of Bornig (a)	, 10					0.01							
	1		1	1			1	1		1	1	1	I	1		<u> </u>	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm Terracon Consultants, Inc. Tel: 41 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110 Fax: 41	14-423-0255 14-423-0566
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Route To:	Wa

Watershed/Wastewater

Waste Management
Other

													Pag		of	1	
Facilit				1.1. 0	1	License/	Permit/	Monito	ring N	umber		Boring	Numbe	er			
				beb-Lorman Scrapya f crew chief (first, last) and		Date Dri	lling St	arted		Da	te Drilli	ng Con	npleted	56	B-11 Dri	Drilling Method	
Hor	izon						9/6/	2022				9/6/2022			E	Direct Push	
WI Un	ique W	ell No		DNR Well ID No.	Common Well Name		Final Static Water Level Surface Elevat						В		e Diameter		
												t MSI			2.0) inches	
Local State	Grid Oı	rigin			ing Location E S/C/N	La	nt	0	,	"	Local C	irid Loo				_	
	1/4	of	1	/4 of Section ,	T N, R	Lon	Long $__^{\circ}$ $__'$ $__"$ Feet \Box S						□ E Feet □ W				
Facilit	y ID			County		County Co	ode				Village						
	1.			Jefferson		28		Fort	Atkin	son		C . 1	D				
San	-												Prope			_	
	t. &	nts	feet		ock Description						ve						
er /pe	n At erec	Cou	In F		ologic Origin For		s	<u>ic</u> .	l u		th	nt e		ity		lents	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Eac	h Major Unit		SC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
	<u>مّ مّ</u> 60	BI	<u>Ď</u>	E:11 C:14- C 1 4-		1 11	<u> </u>			Id	δŬ	ΣŬ	ΕĒ	Pl In	Ь	<u> </u>	
1	35		E	Fill, Silty Sand, ta graded, medium d	n, medium gramec	i, well			∛								
				8			Fill		8	0.01						*Sample	
			E,													Submitted	
			-2	black, trace cind						0.01						*Sample Submitted	
			-3	Fill, Clayey Silt, g	rayish brown, low				\$	0.01						Submitted	
			-	plastic, medium fi	rm, moist				∛	0.01							
			-4				Fill			0.01							
			E_5						\$								
2	60 48		Ē	Sandy Silt, light b	rown, non plastic			<u> </u>	2	0.01							
	-10		-6	medium firm, moi						0.01							
			F							0.01							
			-7							0.01						*Sample	
			E 。				ML									Submitted	
			-8	trace gravel, sof	t, wet					0.01							
			-9							0.01							
L			-10	End of Boring @	10'				_	0.01							
I hereb	y certif	y that	te info	rmation on this form is tr	ue and correct to the be	est of my ki	nowled	ge.									

Signature	Firm Terracon Consultants, Inc. 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110	Tel: 414-423-0255 Fax: 414-423-0566

Route To:	Wat

Watershed/Wastewater

Waste Management
Other

														Pag		of	1	
	y/Proje			1.1. 0		1	License/	Permit/	Monitor	ring Nu	umber		Boring	Numbe		10		
				beb-Lorman Scra f crew chief (first, la			Date Dri	11: m ~ C4	autad		Da	te Drilli	na Can	latad		-12 Drilling Method		
Boring	g Drille	і Б у: 1	Name o	i crew chiel (first, la	st) a	na Firm	Date Dri	ning St	arted		Da	te Driii	ng Con	ipieted		Driii	ing Method	
Ho	izon							9/6/	2022				9/6/2	022		Direct Push		
WI U	nique W	ell No.		DNR Well ID No.		Common Well Name	Final Static Water Level Surface El					e Elevat	tion		Bc	rehole	Diameter	
								Feet MSL Feet MS								2.0	inches	
	Grid Oı Plane	rigin	[] (es	stimated: 🗌) or N		ing Location E S/C/N	La	Lat Local Grid Location								_		
State	1/4	of	1	./4 of Section ,	,	$\frac{1}{T} N, R$		$\begin{array}{c c} Lat & _ & _ \\ Long & _ & _ \\ \hline \end{array} \begin{array}{c} & _ \\ \end{array} \end{array} \begin{array}{c} & _ \\ \end{array} \end{array} \begin{array}{c} & _ \\ \end{array} \begin{array}{c} & _ \\ \end{array} \end{array} \begin{array}{c} & _ \\ \end{array} \begin{array}{c} & _ \\ \end{array} \end{array} $								⊢ E Feet □ W		
Facili		01	1	County		1 п, к	County Co		Civil To	own/C	ity/ or `	Village	Teet					
Jefferson							28		Fort A			0						
Sar	nple												Soil	Prope	erties			
	& (in)	10	بر ا	S	oil/R	ock Description						0						
e	Att ed (ount	ı Fee	An	d Ge	ologic Origin For				_		ssive	0		~		ots	
Typ	gth /	Blow Counts	Depth In Feet		Eac	h Major Unit		CS	phic	l gran	PID/FID	ngth	sture	ii d	ticit	9)/	
Number and Type	Length Att. & Recovered (in)	Blov	Dep					U S	Graphic Log	Well Diagram	Í Í	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1	60 34		-	Fill, Silty Sand	l, ta	n, medum grained	, well											
	34		E_1	graded, mediu	ense, moist		Fill											
			Ē	Eill Canal Isla					0.01						*Sample Submitted			
Fill, Sand, black, medium grained, w graded, medium dense, moist						/en				0.02								
			Ē.	brown, trace							0.02							
			-3					Fill			0.03						*Sample	
			E-4														Submitted	
				F'11 C1	4 1	1 1					0.01							
2	60		-5	Fill, Clayey Si medium firm	it, t trac	rown, low plastic, e wood debris, mo	ist	Fill			0.01							
-	46		Ē						XXX		0.01							
			<u>–</u> 6	Silty Clay, bro firm, moist	wn,	medium plastic, r	nedium				0.01							
			E_7	min, moist														
			È í								0.01						*Sample Submitted	
			-8					CL-MI			0.01						Suchingen	
				grayish brow	'n, t	race sand, soft, we	et				0.01							
			<u>-9</u>								0.01							
			-10															
			10	End of Boring	(a)	10'					0.01							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Terracon Consultants, Inc. 4900 South Pennsylvania Avenue, Suite 100/Cudahy, Wisconsin 53110	Tel: 414-423-0255 Fax: 414-423-0566
	Terracon Consultants, Inc.	Tel: 414-423-025

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to DN	R Bureau:							
Verification Only	of Fill and Seal	Drinkin	g Water		Watershed/W	/astewater	Remedia	ation/Redevelopment		
,		Waste	Managemei	nt 🗌	Other:					
1. Well Location Infor	mation			2. Facility	/ Owner Inf	formation				
County	WI Unique Well # of Removed Well	Hicap #		Facility Nam		0				
Jefferson				Former Loeb-Lorman Scrapyard						
Latitude / Longitude (see in	nstructions) Fo		od Code							
	N		GPS008 SCR002	License/Perr	nit/Monitoring	; #				
	W		OTH001							
1/4 / 1/4 1/4					Owner					
or Gov't Lot #										
Well Street Address		Present Well Owner City of Fort Atkinson								
600 Oak Street		ess of Preser								
Well City, Village or TownWell ZIP CodeCity of Fort Atkinson53538				-	lain Stree					
Subdivision Name Lot #				City of Prese	ent Owner		State	ZIP Code		
				Fort Atk			WI	53538		
Reason for Removal from Service WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No XN/A						
Soil boring	Soil boring					ved?	H.	Yes No N/A Yes No N/A		
3. Filled & Sealed Wel				Liner(s) re Liner(s) pe			H.	Yes No N/A Yes No N/A		
Monitoring Well		Original Construction Date (mm/dd/yyyy)			moved?		H.	Yes No N/A		
Water Well SB-1	09/06/20				it in place?		H.	Yes No N/A		
Borehole / Drillhole	If a Well Cons please attach	truction Report is a	available,	Was casir	ng cut off belo	w surface?	<u> </u>	Yes No N/A		
Construction Type:	Provide and a second se				g material rise		\mathbf{X}	Yes No N/A		
Drilled	Driven (Sandpoint)	Dug		Did material settle after 24 hours?						
Other (specify): Dire	ect push				, was hole ret	• •		Yes No XN/A		
Formation Type:						used, were they hyd n safe source?	Irated X	Yes No N/A		
Unconsolidated Form	ation I	Bedrock		Required Me	thod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.) Ca	sing Diameter (in.)			ctor Pipe-Gra	·	Pipe-Pump	ed		
10	N	A		Benton	ed & Poured nite Chips)	Other (Exp	olain):			
Lower Drillhole Diameter (i	n.) Ca	sing Depth (ft.)		Sealing Mate	erials		_			
2	N	A		Neat C	ement Grout		Concrete			
Was well annular space gro	outed?	s 🗙 No	Unknown		Cement (Cond	· · ·	Bentonite			
If yes, to what depth (feet)?		Water (feet)	1	For Monitorii	-	Monitoring Well Bord	<i>eholes Only</i> onite - Ceme			
NA	NA				ar Bentonite		onite - Cerrie			
5. Material Used to Fil						No. Yards, Sacks		Mix Ratio or		
				From (ft.)	To (ft.)	Volume (circle		Mud Weight		
<u>3/8" Bentonite</u>	chips			Surface	10	<1 bag				
6. Comments					1	1				

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License # Date of			Date of	Date of Filling & Sealing or Verification		n C	Date Received	Noted By	
Terracon Consultants, Inc			(mm/dd	/уууу)	09/06/2022				
Street or Route					elephone Number Comments			•	
9856 South 57th Street				(414) 423-0255					
City	State	ZIP Code		Sig	nature of reson Doing	g Wo	rk D	ate Signed	
Franklin	WI	53132		~	alan			9/14/2022	
				Ć			. 460,000		

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		F	coute t	o DNR Bureau:						
Verification Only	of Fill and Sea	al	DI	rinking Water		Watershed/W	Vastewater	Remedi	ation/Redevelopme	ent
,			W	aste Managemei	nt 🗌	Other:				
1. Well Location Infor	mation				2. Facility	/ Owner Inf	formation			
County	WI Unique Well # Removed Well	of H	cap #		Facility Nam		0			
Jefferson							nan Scrapyard			
Latitude / Longitude (see in	nstructions)	Format C	ode	Method Code	-Facility ID (FID or PWS)					
	N)	GPS008	License/Perr	nit/Monitoring	g #			
	W		M							
1/4 / 1/4 1/4					Original Well	Owner				
or Gov't Lot #										
Well Street Address					Present Well Owner City of Fort Atkinson					
600 Oak Street Well City, Village or Town Well ZIP Code						ess of Preser				
City of Fort Atkinson 53538					-	lain Stree				
Subdivision Name Lot #			.00	City of Prese	ent Owner		State	ZIP Code		
					Fort Atk			WI	53538	
Reason for Removal from Service WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed?						
Soil boring				Liner(s) re		ved?		= =		
3. Filled & Sealed Wel					Liner(s) re				Yes ∐No ⊠I Yes ∏No ⊠I	
Monitoring Well		Original Construction Date (mm/dd/yyyy)			Screen re				Yes No XI	
Water Well SB-2						it in place?			Yes No XI	
Borehole / Drillhole	If a Well C		n Repo	rt is available,	Was casir	ng cut off belo	w surface?		Yes 🗌 No 🕅 I	
Construction Type:	F					g material rise			= =	N/A
Drilled	Driven (Sandpoint)	Γ	Dug	I	Did material settle after 24 hours?					
Other (specify): Dire	ect push					, was hole ret			Yes 🗌 No 🔀 I	N/A
Formation Type:							used, were they hyon safe source?	drated X	Yes 🗌 No 🔲 I	N/A
Unconsolidated Form	ation	Bedroc	k		Required Me	thod of Placir	ng Sealing Material			
Total Well Depth From Gro	ound Surface (ft.)	Casing Di	ameter	(in.)		ctor Pipe-Gra		r Pipe-Pump	ed	
10		NA			Bento	ed & Poured nite Chips)	Other (Exp	plain):		
Lower Drillhole Diameter (i	n.)	Casing De	epth (ft.)	Sealing Mate	erials		_		
2		NA			Neat C	ement Grout		Concrete		
Was well annular space gro	outed?	Yes 🚺	No	Unknown		Cement (Cond		Bentonite		
If yes, to what depth (feet)?		h to Water			1	-	Monitoring Well Boi	-		
NA	NA		(1001)		Benton			onite - Ceme		
	I					ar Bentonite	No. Yards, Sacks	onite - Sand Sealant or	Mix Ratio or	
5. Material Used to Fil		e			From (ft.)	To (ft.)	Volume (circl		Mud Weight	
<u>3/8" Bentonite</u>	chips				Surface	10	<1 bag			
6. Comments					1	1	1			

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License #			Date of Filling & Sealing or Verification			Date Rec	ceived	Noted By	
Terracon Consultants, Inc				/уууу)	09/06/2022				
Street or Route					Telephone Number Comments			•	
9856 South 57th Street				(414) 423-0255					
City	state	ZIP Code		Sig	nature of reason Doing	Work	Da	ate Signed	
Franklin	NI	53132		~	alan -			9/14/2022	
				U					

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route	to DNR Bureau:							
Verification Only	of Fill and Seal	D	rinking Water		Watershed/W	/astewater	Remedia	ation/Redevelopment		
,		W	Vaste Managemei	nt 🗌	Other:					
1. Well Location Infor	mation			2. Facility	/ Owner Inf	ormation				
County	WI Unique Well # of Removed Well	Hicap #		Facility Nam	е					
Jefferson						an Scrapyard				
Latitude / Longitude (see in	nstructions) F	ormat Code	Method Code	-Facility ID (FID or PWS)						
	N		GPS008	License/Perr	nit/Monitoring	1#				
	w	DDM								
1/4 / 1/4 1/4					Owner					
or Gov't Lot #										
Well Street Address		Present Well Owner City of Fort Atkinson								
600 Oak Street		ess of Preser								
Well City, Village or TownWell ZIP CodeCity of Fort Atkinson53538				-	lain Stree					
Subdivision Name Lot #				City of Prese	ent Owner		State	ZIP Code		
				Fort Atk			WI	53538		
Reason for Removal from Service WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No XN/A						
Soil boring				Liner(s) re		/ed?	H.	Yes No N/A Yes No N/A		
3. Filled & Sealed Wel				Liner(s) re			H.	Yes No N/A Yes No N/A		
Monitoring Well		Original Construction Date (mm/dd/yyyy)			moved?		H.	Yes No N/A		
Water Well SB-3					t in place?		H.	Yes No N/A		
Borehole / Drillhole	If a Well Cor please attac	nstruction Repo	ort is available,	Was casir	ng cut off belo	w surface?	<u> </u>	Yes No N/A		
Construction Type:					g material rise		\mathbf{X}	Yes No N/A		
Drilled	Driven (Sandpoint)	🗌 Dug	g	Did material settle after 24 hours?						
Other (specify): Dire	ect push				was hole ret			Yes No N/A		
Formation Type:						used, were they hyd n safe source?	Irated X	Yes No N/A		
Unconsolidated Form	ation	Bedrock		Required Me	thod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.) C	asing Diameter	r (in.)		ctor Pipe-Gra	·	Pipe-Pump	ed		
10	Ν	JA		Bento	ed & Poured nite Chips)	Other (Exp	olain):			
Lower Drillhole Diameter (i	n.) C	asing Depth (ft	i.)	Sealing Mate						
2	1	A		Neat C	ement Grout		Concrete			
Was well annular space gro	outed?	es 🗙 No	Unknown		Cement (Conc		Bentonite			
If yes, to what depth (feet)?		o Water (feet)		1	-	Monitoring Well Bord	-			
NA	NA			Benton			onite - Ceme			
	L				ar Bentonite	No. Yards, Sacks	onite - Sand Sealant or	Mix Ratio or		
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circle		Mud Weight		
<u>3/8" Bentonite</u>	chips			Surface	10	<1 bag				
6. Comments				1	1	1				

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License # Date of			Date of	Date of Filling & Sealing or Verification		n C	Date Received	Noted By	
Terracon Consultants, Inc			(mm/dd	/уууу)	09/06/2022				
Street or Route					elephone Number Comments			•	
9856 South 57th Street				(414) 423-0255					
City	State	ZIP Code		Sig	nature of reson Doing	g Wo	rk D	ate Signed	
Franklin	WI	53132		~	alan			9/14/2022	
				Ć			. 460,000		

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route	to DNR Bureau:							
Verification Only	of Fill and Seal		rinking Water		Watershed/W	Vastewater	Remedia	ation/Redevelopment		
,		w	/aste Managemei	nt 🗌	Other:					
1. Well Location Infor	mation			2. Facility	/ Owner Inf	formation				
County	WI Unique Well # of Removed Well	Hicap #		Facility Nam	е					
Jefferson						nan Scrapyard				
Latitude / Longitude (see in	nstructions) F	ormat Code	Method Code	-Facility ID (FID or PWS)						
	N		GPS008	License/Perr	nit/Monitoring	a #				
	W									
1/4 / 1/4 1/4					Owner					
or Gov't Lot #										
Well Street Address		Present Well Owner City of Fort Atkinson								
600 Oak Street		ess of Preser								
Well City, Village or TownWell ZIP CodeCity of Fort Atkinson53538				-	lain Stree					
Subdivision Name Lot #				City of Prese	ent Owner		State	ZIP Code		
				Fort Atk			WI	53538		
Reason for Removal from Service WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No XN/A						
Soil boring				Liner(s) re		ved?	H.	Yes No N/A Yes No N/A		
3. Filled & Sealed Wel				Liner(s) re			H.	Yes No N/A Yes No N/A		
Monitoring Well		Original Construction Date (mm/dd/yyyy)			moved?		H.	Yes No N/A		
Water Well SB-4	09/06/20				it in place?		H.	Yes No N/A		
Borehole / Drillhole	If a Well Cor please attac	nstruction Repo	ort is available,	Was casir	ng cut off belo	w surface?		Yes No N/A		
Construction Type:	F				g material rise		\mathbf{X}	Yes No N/A		
Drilled	Driven (Sandpoint)	Dug	g	Did material settle after 24 hours?						
Other (specify): Dire	ect push				, was hole ret			Yes No N/A		
Formation Type:						used, were they hyc n safe source?	Trated X	Yes No N/A		
Unconsolidated Form	ation	Bedrock		Required Me	thod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.)	asing Diamete	r (in.)		ctor Pipe-Gra	·	Pipe-Pump	ed		
10	٩	١A		Bento	ed & Poured nite Chips)	Other (Exp	plain):			
Lower Drillhole Diameter (i	n.) C	asing Depth (ft)	Sealing Mate	erials		_			
2	1	NA		Neat C	ement Grout		Concrete			
Was well annular space gro	outed?	′es 🗙 No	Unknown		Cement (Cond		Bentonite			
If yes, to what depth (feet)?		o Water (feet)		For Monitorii	-	Monitoring Well Bor	<i>eholes Only</i> onite - Ceme			
NA	NA				ar Bentonite		onite - Cerrie			
	L					No. Yards, Sacks		Mix Ratio or		
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circle		Mud Weight		
3/8" Bentonite	cnips			Surface	10	<1 bag				
6. Comments				l	I	l				

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License #			Date of Filling & Sealing or Verification			tion	Date Received	Noted By	
Terracon Consultants, Inc			(mm/dd	/уууу)	09/06/2022				
Street or Route				Teleph	none Number		Comments		
9856 South 57th Street				(414) 423-0255					
City	state	ZIP Code		Sig	nature of reson Doi	ng W	/ork D	ate Signed	
Franklin	NI	53132		~	1land			9/14/2022	
				C					

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to DNR Bureau	:					
Verification Only	of Fill and Seal	Drinking Water		Watershed/W	/astewater	Remedia	tion/Redevelopment	
,		Waste Manageme	ent	Other:				
1. Well Location Infor	mation		2. Facility	/ Owner Inf	ormation			
County	WI Unique Well # of Removed Well	Hicap #	Facility Nam	е				
Jefferson					an Scrapyard			
Latitude / Longitude (see in	nstructions) For	rmat Code Method Code	-Facility ID (FID or PWS)					
	N	DD GPS008	License/Permit/Monitoring #					
	w							
1/4 / 1/4 1/4								
or Gov't Lot #		N W		10				
Well Street Address		Present Well Owner City of Fort Atkinson						
600 Oak Street			ress of Presen					
Well City, Village or Town City of Fort Atkins	-	lain Stree						
Subdivision Name	53538 Lot #	City of Prese	ent Owner		1	ZIP Code		
		Fort Atk			WI	53538		
Reason for Removal from S	4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No XN/A							
Soil boring	Liner(s) re		/ed?	H.	′es □No XN/A ′es □No XN/A			
3. Filled & Sealed Wel				erforated?			<pre>/es □ No ☑ N/A /es □ No ☑ N/A</pre>	
Monitoring Well		ruction Date (mm/dd/yyyy)	Screen re			H.	$\frac{1}{100} \times \frac{1}{100} \times \frac{1}$	
Water Well SB-5				ft in place?			′es ∏No XN/A	
Borehole / Drillhole	If a Well Cons please attach.	truction Report is available,	Was casir	ng cut off belo	w surface?	<u> </u>	/es 🗌 No 🕅 N/A	
Construction Type:				ig material rise		×Ν	′es □No □N/A	
Drilled	Driven (Sandpoint)	Dug	Did material settle after 24 hours?					
Other (specify): Dire	ect push		-	, was hole reto			′es 🗌 No 🔀 N/A	
Formation Type:					used, were they hydr n safe source?	rated X	′es 🗌 No 🗌 N/A	
Unconsolidated Form	ation E	Bedrock	Required Me	ethod of Placir	ng Sealing Material			
Total Well Depth From Gro	ound Surface (ft.) Cas	sing Diameter (in.)		ctor Pipe-Grav	·	Pipe-Pumpe	d	
10	N	A	Bento	ned & Poured nite Chips)	Other (Expl	ain):		
Lower Drillhole Diameter (i	n.) Cas	sing Depth (ft.)	Sealing Mate	erials				
2	N	A	Neat C	Cement Grout		Concrete		
Was well annular space gro	outed?	s 🗙 No 🗌 Unknown		Cement (Conc		Bentonite (
If yes, to what depth (feet)?		Water (feet)	For Monitori	•	Monitoring Well Bore	<i>holes Only:</i> nite - Cemei		
NA	NA			lar Bentonite		nite - Cernel		
					No. Yards, Sacks S		Mix Ratio or	
5. Material Used to Fil			From (ft.)	To (ft.)	Volume (circle		Mud Weight	
3/8" Bentonite	chips		Surface	10	<1 bag			
6. Comments			1					

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License # Date of			Date of	Date of Filling & Sealing or Verification		n C	Date Received	Noted By	
Terracon Consultants, Inc			(mm/dd	/уууу)	09/06/2022				
Street or Route					elephone Number Comments			•	
9856 South 57th Street				(414) 423-0255					
City	State	ZIP Code		Sig	nature of reson Doing	g Wo	rk D	ate Signed	
Franklin	WI	53132		~	alan			9/14/2022	
				Ć			. 460,56		

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route	to DNR Bureau:							
Verification Only	of Fill and Seal	D	rinking Water		Watershed/W	/astewater	Remedia	ation/Redevelopment		
,		W	/aste Managemei	nt 🗌	Other:					
1. Well Location Infor	mation			2. Facility	/ Owner Inf	ormation				
County	WI Unique Well # of Removed Well	Hicap #		Facility Nam		0				
Jefferson						an Scrapyard				
Latitude / Longitude (see in	structions) F	ormat Code	Method Code	-Facility ID (FID or PWS)						
	N		GPS008	License/Permit/Monitoring #						
	W	DDM								
1/4 / 1/4 1/4					Owner					
or Gov't Lot #										
Well Street Address		Present Well Owner City of Fort Atkinson								
600 Oak Street		ess of Preser								
Well City, Village or TownWell ZIP CodeCity of Fort Atkinson53538				-	lain Stree					
Subdivision Name Lot #				City of Prese	ent Owner		State	ZIP Code		
				Fort Atk			WI	53538		
Reason for Removal from Service WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material Pump and piping removed? Yes No XN/A						
Soil boring				Liner(s) re		/ed?	H.	Yes No N/A Yes No N/A		
3. Filled & Sealed Wel				Liner(s) re			H.	Yes No N/A Yes No N/A		
Monitoring Well		Original Construction Date (mm/dd/yyyy)			moved?		H.	Yes No N/A		
Water Well SB-6	09/06/20				t in place?		H.	Yes No N/A		
Borehole / Drillhole	If a Well Cor please attac	nstruction Repo	ort is available,	Was casir	ng cut off belo	w surface?		Yes No XN/A		
Construction Type:	F				g material rise		\mathbf{X}	Yes No N/A		
Drilled	Driven (Sandpoint)	Duç	g	Did material settle after 24 hours?						
Other (specify): Dire	ect push				was hole ret			Yes 🗌 No 🔀 N/A		
Formation Type:						used, were they hyd n safe source?	rated X	Yes No N/A		
Unconsolidated Form	ation	Bedrock		Required Me	thod of Placir	ng Sealing Material				
Total Well Depth From Gro	und Surface (ft.)	asing Diameter	r (in.)		ctor Pipe-Gra	·	Pipe-Pump	ed		
10	Ν	١A		Bento	ed & Poured nite Chips)	Other (Exp	lain):			
Lower Drillhole Diameter (i	n.) C	asing Depth (ft	.)	Sealing Mate			_			
2	1	NA		Neat C	ement Grout		Concrete			
Was well annular space gro	uted?	′es 🗙 No	Unknown		Cement (Conc		Bentonite			
If yes, to what depth (feet)?		o Water (feet)		1	-	Monitoring Well Bore	-			
NA	NA			Benton	ar Bentonite		nite - Ceme nite - Sand			
						No. Yards, Sacks		Mix Ratio or		
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circle		Mud Weight		
3/8" Bentonite	cnips			Surface	10	<1 bag				
6. Comments				 		l				

7. Supervision of Work							DNR Use Only		
Name of Person or Firm Doing Filling & Sealing License # Date of			Date of	Date of Filling & Sealing or Verification		n C	Date Received	Noted By	
Terracon Consultants, Inc			(mm/dd	/уууу)	09/06/2022				
Street or Route					elephone Number Comments			•	
9856 South 57th Street				(414) 423-0255					
City	State	ZIP Code		Sig	nature of reson Doing	g Wo	rk D	ate Signed	
Franklin	WI	53132		~	alan			9/14/2022	
				Ć			. 460,56		

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to DNR Bureau	:						
Verification Only	of Fill and Seal	Drinking Water		Watershed/W	/astewater	Remediat	ion/Redevelopment		
,		Waste Manageme	ent	Other:					
1. Well Location Infor	mation		2. Facility	/ Owner Inf	ormation				
County	WI Unique Well # of Removed Well	Hicap #	Facility Nam	е					
Jefferson			Former Loeb-Lorman Scrapyard						
Latitude / Longitude (see in	nstructions) Form	mat Code Method Code		–Facility ID (FID or PWS)					
	N [DD GPS008	License/Peri	mit/Monitoring	ı #				
	w		, , , , , , , , , , , , , , , , , , ,						
1/4 / 1/4 1/4	Section	Township Range E	Original Wel	l Owner					
or Gov't Lot #		N 🗆 W	Present Wel	0					
Well Street Address				Fort Atkins	son				
600 Oak Street				ress of Presen					
Well City, Village or Town City of Fort Atkins	on	Well ZIP Code 53538	-	lain Stree					
Subdivision Name		Lot #	City of Prese	ent Owner		State	ZIP Code		
			Fort Atk				53538		
Reason for Removal from S	Service WI Unique	Well # of Replacement Well			en, Casing & Seal				
Soil boring			Liner(s) re	d piping remov	ved?	H.,	es No N/A es No N/A		
3. Filled & Sealed Wel				erforated?		H.,	es No N/A es No N/A		
Monitoring Well		uction Date (mm/dd/yyyy)	Screen re			H.,	es No N/A		
Water Well SB-7	, 09/06/202		─ Casing left in place? ─ Yes □ No						
Borehole / Drillhole	If a Well Const please attach.	ruction Report is available,	Was casir	ng cut off belo	w surface?		es 🗌 No 🕅 N/A		
Construction Type:	P			ig material rise		X Y			
Drilled	Driven (Sandpoint)	Dug	Did mater	ial settle after	24 hours?	Y	es 🛛 No 🗌 N/A		
Other (specify): Dire	ect push		-	, was hole reto			es 🗌 No 🔀 N/A		
Formation Type:					used, were they hydra n safe source?	ated X	es No N/A		
Unconsolidated Form	ation 🗌 B	edrock	Required Me	ethod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.) Casi	ng Diameter (in.)		ctor Pipe-Grav	·	Pipe-Pumpe	d		
10	NA	١	Bento	ned & Poured nite Chips)	Other (Expla	ain):			
Lower Drillhole Diameter (i	n.) Casi	ng Depth (ft.)	Sealing Mate						
2	NA	A	Neat C	Cement Grout		Concrete			
Was well annular space gro	outed?	No Unknown		Cement (Conc		Bentonite C	hips		
If yes, to what depth (feet)?		Vater (feet)		•	Monitoring Well Bore	-	t Crout		
NA	NA		Bentor			nite - Cemen			
				ar Bentonite	No. Yards, Sacks S	hite - Sand S Sealant or	Mix Ratio or		
5. Material Used to Fil			From (ft.)	To (ft.)	Volume (circle		Mud Weight		
3/8" Bentonite	chips		Surface	10	<1 bag				
6. Comments				 					

7. Supervision of Work							DNR Us	e Only
Name of Person or Firm Doing Filling & Sealing	Licens	License # Date of			ate of Filling & Sealing or Verification		Date Received	Noted By
Terracon Consultants, Inc		(mm/dd/yyyy) 09/06/2022			09/06/2022			
Street or Route				Teleph	hone Number	(Comments	
9856 South 57th Street				(414) 423-0255				
City	State	ZIP Code		Sig	nature at increasion Doing	g Wo	ork D	ate Signed
Franklin	WI	53132		~	ales -			9/14/2022
				U	e ze			

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to DNR Bu	reau:						
Verification Only	of Fill and Seal	Drinking Wat	ter	Watershed/W	/astewater	Remediation/Redevelopment			
,		Waste Mana	gement	Other:					
1. Well Location Infor	mation		2. Facility	/ Owner Inf	ormation				
County	WI Unique Well # of Removed Well	Hicap #	Facility Nam		0				
Jefferson				Former Loeb-Lorman Scrapyard					
Latitude / Longitude (see in	nstructions) Fo	rmat Code Method Co	ode	-1D 01 F VV3)					
	N			mit/Monitoring	1#				
	W								
1/4 / 1/4 1/4	Section	Township Range	E Original We	ll Owner					
or Gov't Lot #		N E] W						
Well Street Address			Present We	Fort Atkin	son				
600 Oak Street				ress of Presen					
Well City, Village or Town City of Fort Atkins	on	Well ZIP Code 53538		/lain Stree					
Subdivision Name		Lot #	City of Pres	ent Owner		State ZIP Code			
			Fort Atk			WI 53538			
Reason for Removal from S	Service WI Unique	e Well # of Replacement			en, Casing & Seali				
Soil boring			Pump an Liner(s) r	d piping remov	/ed?	Yes No XN/A Yes No XN/A			
3. Filled & Sealed Wel				erforated?		∐Yes ∐No XN/A ∏Yes ∏No XN/A			
Monitoring Well		ruction Date (mm/dd/yyy	Screen re						
Water Well SB-8			Casing le	→ Casing left in place?					
Borehole / Drillhole	If a Well Cons please attach	struction Report is availal		ng cut off belo	w surface?	YesNo X/A			
Construction Type:	P	-		ng material rise		Yes No N/A			
Drilled	Driven (Sandpoint)	Dug	Did mate	rial settle after	24 hours?	Yes No N/A			
Other (specify): Dire	ect push		-	, was hole reto		Yes No XN/A			
Formation Type:					used, were they hydra n safe source?	ated Xes No N/A			
Unconsolidated Form	ation	Bedrock	Required M	ethod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.) Ca	sing Diameter (in.)		ictor Pipe-Grav	· 🖵	Pipe-Pumped			
10	N	A	Bento	ned & Poured onite Chips)	Other (Expla	ain):			
Lower Drillhole Diameter (i	n.) Ca	sing Depth (ft.)	Sealing Mat						
2	N	A	Neat 0	Cement Grout		Concrete			
Was well annular space gro	outed?	es 🗙 No 🗌 Unkr		Cement (Conc		Bentonite Chips			
If yes, to what depth (feet)?		Water (feet)	For Monitor	•	Monitoring Well Borel	•			
NA	NA		Bento			hite - Cement Grout			
				lar Bentonite	No. Yards, Sacks S	hite - Sand Slurry Bealant or Mix Ratio or			
5. Material Used to Fil			From (ft.)	To (ft.)	Volume (circle o				
<u>3/8" Bentonite</u>	chips		Surface	10	<1 bag				
6. Comments					 				

7. Supervision of Work					DNR Use Only			
Name of Person or Firm Doing Filling & Sealing License #			Date of Filling & Sealing or Verification			n Da	ate Received	Noted By
Terracon Consultants, Inc	ants, Inc (mm/dd/yyyy) 09/			09/06/2022				
Street or Route				Teleph	none Number	Co	omments	•
9856 South 57th Street				(414) 423-0255				
City	state	ZIP Code		Sig	nature of reason Doing	Worl	k D	ate Signed
Franklin	NI	53132		~	alan -			9/14/2022
				U				

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to	DNR Bureau:							
Verification Only	of Fill and Seal	Drii	nking Water		Watershed/W	/astewater	Remedia	ation/Redevelopment		
,		🗌 Wa	ste Managemer	nt 🗌	Other:					
1. Well Location Infor	mation			2. Facility	/ Owner Inf	ormation				
County	WI Unique Well # of Removed Well	Hicap #		Facility Nam		0				
Jefferson				Former Loeb-Lorman Scrapyard						
Latitude / Longitude (see in	nstructions) Fo	ormat Code	Aethod Code	–Facility ID (FID or PWS)						
	N		GPS008	License/Perr	nit/Monitoring	ı <i>#</i>				
	W	DDM								
1/4 / 1/4 1/4	Section	Township F	Range 🗌 E	Original Well	Owner					
or Gov't Lot #		Ν	W	Present Well	0					
Well Street Address					ort Atkin	son				
600 Oak Street			D Code		ess of Preser					
Well City, Village or Town City of Fort Atkins	on	5353	P Code	-	lain Stree					
Subdivision Name		Lot #		City of Prese	ent Owner		State	ZIP Code		
				Fort Atk			WI	53538		
Reason for Removal from S	Service WI Uniqu	e Well # of Repl	acement Well			en, Casing & Sea				
Soil boring	-			Pump and Liner(s) re		/ed?	H.	Yes No N/A Yes No N/A		
3. Filled & Sealed Wel				Liner(s) re			H.	Yes No N/A Yes No N/A		
Monitoring Well		truction Date (m	im/dd/yyyy)	Screen removed?						
Water Well SB-S				→ Casing left in place? Yes VA						
Borehole / Drillhole	If a Well Con please attach	struction Report	is available,	Was casir	g cut off belo	w surface?	`	Yes No N/A		
Construction Type:	picace and of				g material rise		Ň,	Yes No N/A		
Drilled	Driven (Sandpoint)	Dug		Did materi	al settle after	24 hours?	Ū,	Yes 🛛 No 🗌 N/A		
Other (specify): Dire	ect push				was hole rete			Yes 🗌 No 🗙 N/A		
Formation Type:						used, were they hyd n safe source?	rated X	Yes No N/A		
Unconsolidated Form	ation	Bedrock		Required Me	thod of Placir	ng Sealing Material				
Total Well Depth From Gro	ound Surface (ft.) Ca	asing Diameter (in.)		ctor Pipe-Gra	·	Pipe-Pump	ed		
10	N	IA		Benton	ed & Poured nite Chips)	Other (Exp	lain):			
Lower Drillhole Diameter (i	n.) Ca	asing Depth (ft.)		Sealing Mate						
2	N	IA		Neat C	ement Grout		Concrete			
Was well annular space gro	outed?	es 🗙 No	Unknown		Cement (Conc		Bentonite			
If yes, to what depth (feet)?		o Water (feet)		1	•	Monitoring Well Bore	-			
NA	NA			Benton			nite - Ceme			
					ar Bentonite	No. Yards, Sacks	nite - Sand Sealant or	Mix Ratio or		
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circle		Mud Weight		
3/8" Bentonite	cnips			Surface	10	<1 bag				
6. Comments				l 		l				

7. Supervision of Work					DNR Use Only			
Name of Person or Firm Doing Filling & Sealing License #			Date of Filling & Sealing or Verification			n Da	ate Received	Noted By
Terracon Consultants, Inc	ants, Inc (mm/dd/yyyy) 09/			09/06/2022				
Street or Route				Teleph	none Number	Co	omments	•
9856 South 57th Street				(414) 423-0255				
City	state	ZIP Code		Sig	nature of reason Doing	Worl	k D	ate Signed
Franklin	NI	53132		~	alan -			9/14/2022
				U				

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to	DNR Bureau:						
Verification Only	of Fill and Seal	Drii	nking Water		Watershed/W	/astewater	Remedia	ation/Redevelopment	
,		🗌 Wa	ste Managemer	nt 🗌	Other:				
1. Well Location Infor	mation			2. Facility	/ Owner Inf	ormation			
County	WI Unique Well # of Removed Well	Hicap #		Facility Name					
Jefferson				Former Loeb-Lorman Scrapyard					
Latitude / Longitude (see in	nstructions) For	mat Code	Method Code		ID 01 F W3)				
	N		GPS008	License/Perr	nit/Monitoring	1#			
	W								
1/4 / 1/4 1/4	Section	Township F	Range 🗌 E	Original Well	Owner				
or Gov't Lot #		Ν	W	Present Well	0				
Well Street Address					ort Atkin	son			
600 Oak Street	D Code		ess of Preser						
Well City, Village or Town City of Fort Atkins	on	5353	P Code	-	lain Stree				
Subdivision Name		Lot #		City of Prese	ent Owner		State	ZIP Code	
				Fort Atk			WI	53538	
Reason for Removal from	Service WI Unique	Well # of Repl	acement Well			en, Casing & Sea			
Soil boring				Pump and Liner(s) re		/ed?	H.	Yes No N/A Yes No N/A	
3. Filled & Sealed Wel				Liner(s) re			H.	Yes No N/A Yes No N/A	
Monitoring Well	Original Constr		im/dd/yyyy)	Screen re			H.	Yes No N/A	
Water Well SB-1	09/06/20			- Casing left in place? ☐ Yes ☐ No 🕅 N/A					
Borehole / Drillhole	If a Well Const please attach.	truction Report	is available,	Was casir	g cut off belo	w surface?	 `	Yes No XN/A	
Construction Type:	1			Did sealin	g material rise	e to surface?	Ň,	Yes No N/A	
Drilled	Driven (Sandpoint)	Dug		Did materi	al settle after	24 hours?	Ŭ,	Yes No N/A	
Other (specify): Dire	ect push				was hole ret			Yes No N/A	
Formation Type:						used, were they hyd n safe source?	rated X	Yes No N/A	
Unconsolidated Form	ation 🗌 E	edrock		Required Me	thod of Placir	ng Sealing Material			
Total Well Depth From Gro	ound Surface (ft.) Cas	ing Diameter (in.)		ctor Pipe-Gra	·	Pipe-Pump	ed	
10	N	4		Benton	ed & Poured nite Chips)	Other (Exp	lain):		
Lower Drillhole Diameter (i	n.) Cas	ing Depth (ft.)		Sealing Mate	erials		_		
2	N	Ą		Neat C	ement Grout		Concrete		
Was well annular space gro	outed?	s 🗙 No	Unknown		Cement (Conc	· ·	Bentonite		
If yes, to what depth (feet)?	, L	Water (feet)		For Monitorii	•	Monitoring Well Bore	eholes Only nite - Ceme		
NA	NA				ar Bentonite		nite - Cerne		
						No. Yards, Sacks S		Mix Ratio or	
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circle		Mud Weight	
3/8" Bentonite	cnips			Surface	10	<1 bag			
6. Comments				I		l			

7. Supervision of Work							DNR Us	e Only
Name of Person or Firm Doing Filling & Sealing	Licens	License # Date of			ate of Filling & Sealing or Verification		Date Received	Noted By
Terracon Consultants, Inc		(mm/dd/yyyy) 09/06/2022			09/06/2022			
Street or Route				Teleph	hone Number	(Comments	
9856 South 57th Street				(414) 423-0255				
City	State	ZIP Code		Sig	nature at increasion Doing	g Wo	ork D	ate Signed
Franklin	WI	53132		~	ales -			9/14/2022
				U	e ze			

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

		Route to DNR Bureau	:							
Verification Only	of Fill and Seal	Drinking Water		Watershed/W	Vastewater	Remedia	ation/Redevelopment			
,		Waste Managem	ent	Other:						
1. Well Location Infor	mation		2. Facility	/ Owner Inf	formation					
County	WI Unique Well # of Removed Well	Hicap #	Facility Nam	e						
Jefferson				Former Loeb-Lorman Scrapyard						
Latitude / Longitude (see in	nstructions) Forma	at Code Method Code								
	N	DD GPS008	License/Per	mit/Monitoring	g #					
	w 🗆									
1/4 / 1/4 1/4	Section To	ownship Range E	Original Wel	l Owner						
or Gov't Lot #		N 🗆 🛚	/ Present Wel	0						
Well Street Address				Fort Atkin	son					
600 Oak Street Well City, Village or Town		Well ZIP Code		ress of Preser						
City of Fort Atkins	on	53538	-	lain Stree						
Subdivision Name		Lot #	City of Prese				ZIP Code			
			Fort Atk			WI	53538			
Reason for Removal from	Service WI Unique W	ell # of Replacement Well			en, Casing & Sea					
Soil boring			Liner(s) re	d piping removed?	ved?	H.	<pre>/es □ No X N/A /es □ No X N/A</pre>			
3. Filled & Sealed Wel			()	erforated?		H.	res ∏No ⊠N/A			
Monitoring Well		tion Date (mm/dd/yyyy)	Screen re			H.	′es ∏No ⊠N/A			
Water Well SB-1	1 09/06/202		_ Casing left in place? ☐ Yes ☐ No 🕅 N//							
Borehole / Drillhole	If a Well Constru- please attach.	ction Report is available,	Was casi	ng cut off belo	ow surface?	<u></u> Г Ү	/es No N/A			
Construction Type:			Did sealir	ng material rise	e to surface?	Υ	∕es □No □N/A			
Drilled [Driven (Sandpoint)	Dug	Did mater	ial settle after	r 24 hours?	Γ Y	′es ⊠No □N/A			
Other (specify): Dire	ect push		-	, was hole ret			∕es □No ⊠N/A			
Formation Type:					used, were they hydr n safe source?	rated 🛛 Y	∕es □No □N/A			
Unconsolidated Form	ation Bec	Irock	Required Me	ethod of Placir	ng Sealing Material					
Total Well Depth From Gro	ound Surface (ft.) Casing	g Diameter (in.)		ctor Pipe-Gra	· 🗀	Pipe-Pumpe	эd			
10	NA		Bento	ned & Poured inite Chips)	Other (Expl	lain):				
Lower Drillhole Diameter (i	n.) Casing	g Depth (ft.)	Sealing Mat	erials						
2	NA			Cement Grout		Concrete				
Was well annular space gro	outed?	No Unknow		Cement (Cond		Bentonite (
If yes, to what depth (feet)?	Pepth to Wa		Bentor	•	Monitoring Well Bore	nite - Ceme				
NA	NA	()		lar Bentonite		nite - Sand S				
5. Material Used to Fil			From (ft.)		No. Yards, Sacks S	Sealant or	Mix Ratio or			
				To (ft.) 10	Volume (circle	one)	Mud Weight			
<u>3/8" Bentonite</u>	Chilps		Surface		<1 bag					
6. Comments			1	1	1					

7. Supervision of Work							DNR Us	e Only
Name of Person or Firm Doing Filling & Sealing	Licens	License # Date of			ate of Filling & Sealing or Verification		Date Received	Noted By
Terracon Consultants, Inc		(mm/dd/yyyy) 09/06/2022			09/06/2022			
Street or Route				Teleph	hone Number	(Comments	
9856 South 57th Street				(414) 423-0255				
City	State	ZIP Code		Sig	nature at increasion Doing	g Wo	ork D	ate Signed
Franklin	WI	53132		~	ales -			9/14/2022
				U	e ze			

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report Form 3300-005 (R 4/2015) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

		Route to DNR I	Bureau:					
Verification Only	of Fill and Seal	Drinking V	Vater		Watershed/W	/astewater	Remedi	ation/Redevelopment
,		Waste Ma	nagemer	nt 🗌	Other:			
1. Well Location Infor	mation			2. Facility	/ Owner Inf	ormation		
County	WI Unique Well # of Removed Well	Hicap #		Facility Name	е			
Jefferson				Former L Facility ID (F		an Scrapyard		
Latitude / Longitude (see in	nstructions) Fo	rmat Code Method			ID 01 P WS)			
	N		PS008 CR002	License/Perr	nit/Monitoring	1#		
	W		TH001		-			
1/4 / 1/4 1/4	Section	Township Range	E	Original Well	Owner			
or Gov't Lot #		N	W	Deserved	0			
Well Street Address				Present Well	owner Fort Atkin:	son		
600 Oak Street			_		ess of Preser			
Well City, Village or Town City of Fort Atkins	on	Well ZIP Code 53538	e	-	lain Stree			
Subdivision Name		Lot #		City of Prese	ent Owner		State	ZIP Code
				Fort Atk			WI	53538
Reason for Removal from	Service WI Unique	Well # of Replaceme	nt Well			en, Casing & Sea		
Soil boring			-	Pump and Liner(s) re	l piping remov	ved?		Yes No N/A Yes No N/A
3. Filled & Sealed Wel)	Liner(s) re				Yes No N/A Yes No N/A
Monitoring Well		ruction Date (mm/dd/y	/ууу)	Screen re				Yes No N/A
Water Well SB-1	2 09/06/2				t in place?			Yes No N/A
Borehole / Drillhole	If a Well Cons please attach.	truction Report is avai	ilable,	Was casir	ng cut off belo	w surface?		Yes No XN/A
Construction Type:	P				g material rise			Yes No N/A
Drilled	Driven (Sandpoint)	Dug		Did materi	ial settle after	24 hours?		Yes No N/A
Other (specify): Dire	ect push				was hole ret			Yes No N/A
Formation Type:						used, were they hyon n safe source?	drated X	Yes No N/A
Unconsolidated Form	ation 🗌 E	Bedrock		Required Me	thod of Placir	ng Sealing Material		
Total Well Depth From Gro	ound Surface (ft.) Cas	sing Diameter (in.)			ctor Pipe-Gra	·	r Pipe-Pump	ed
10	N	Ą		Benton	ed & Poured nite Chips)	Other (Exp	plain):	
Lower Drillhole Diameter (i	n.) Cas	sing Depth (ft.)		Sealing Mate	erials		_	
2	N	A		Neat C	ement Grout		Concrete	
Was well annular space gro	outed?	s 🗙 No 🗌 Ui	nknown		Cement (Cond	·	Bentonite	
If yes, to what depth (feet)?		Water (feet)		<i>For Monitorii</i>	-	Monitoring Well Bor	<i>reholes Only</i> onite - Ceme	
NA	NA				ar Bentonite		onite - Cerrie	
						No. Yards, Sacks		Mix Ratio or
5. Material Used to Fil				From (ft.)	To (ft.)	Volume (circl		Mud Weight
<u>3/8" Bentonite</u>	chips			Surface	10	<1 bag		
6. Comments				1	1	1		

7. Supervision of Work							DNR Us	e Only
Name of Person or Firm Doing Filling & Sealing	Licens	se #	Date of	Filling	& Sealing or Verification	n C	Date Received	Noted By
Terracon Consultants, Inc		(mm/dd/yyyy) 09/06/2022						
Street or Route				Teleph	hone Number	C	Comments	•
9856 South 57th Street				(414	4)423-0255			
City	State	ZIP Code		Sig	nature of reson Doing	g Wo	rk D	ate Signed
Franklin	WI	53132		~	alan			9/14/2022
				Ć			. 460,56	



Appendix D Photographs Interim Action Photographic Log Former Loeb-Lorman Scrapyard
Fort Atkinson, Wisconsin Terracon Project No. 58217147 Date Photos Taken: January 2023





Photo #1 Photograph of Blastox stabilization agent used within excavation Areas 1 and 2.



Photo #2 Photograph of soil stabilization of excavation Area 1 facing northeast.



Photo #3 Photograph of soil stabilization of excavation Aera 1 facing southwest.



Photo #5 Photograph of soil stabilization of excavation Area 1 facing west.



Photo #4 Photograph of soil stabilization of excavation Area 1 facing northwest.



Photo #6 Photograph of soil stabilization of excavation Area 1 facing east.

Interim Action Photographic Log Former Loeb-Lorman Scrapyard
Fort Atkinson, Wisconsin Terracon Project No. 58217147 Date Photos Taken: January 2023

Ferracon



Photo #7 Photograph of soil stabilization of excavation Area 1.



Photo #9 Photograph of soil excavation and disposal of Aera 2.



Photo #11 Photograph of backfilled soil excavation Area 1.



Photo #8 Photograph of soil excavation and disposal of Area 1.



Photo #10 Photograph of soil excavation and disposal of Area 1 facing northeast.



Photo #12 Photograph of backfilled soil excavation Area 1 and 2.



Appendix E Laboratory Analytical Reports and Chain of Custody Forms



September 27, 2022

Tim Welch Terracon, Inc. - Franklin 9856 South 57th Street Franklin, WI 53132

RE: Project: 58217147/LOEB-LORMAN SCRAPYARD Pace Project No.: 40250983

Dear Tim Welch:

Enclosed are the analytical results for sample(s) received by the laboratory on September 07, 2022. 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,

Day Milenty

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

Enclosures

cc: Ryan Johnson, Terracon, Inc. - Franklin





CERTIFICATIONS

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

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



SAMPLE SUMMARY

Date Received

09/07/22 08:10

09/07/22 08:10

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

 Lab ID
 Sample ID
 Matrix
 Date Collected

 40250983001
 SB-1(1)
 Solid
 09/06/22 10:45

 40250983002
 SB-1(3)
 Solid
 09/06/22 10:50

 40250983003
 SB-1(8)
 Solid
 09/06/22 10:55

 40250983004
 SB-2(1)
 Solid
 09/06/22 11:05

 40250983005
 SB-2(4)
 Solid
 09/06/22 11:10

 40250983006
 SB-2(7)
 Solid
 09/06/22 11:15

40250983003	SB-1(8)	Solid	09/06/22 10:55	09/07/22 08:10
40250983004	SB-2(1)	Solid	09/06/22 11:05	09/07/22 08:10
40250983005	SB-2(4)	Solid	09/06/22 11:10	09/07/22 08:10
40250983006	SB-2(7)	Solid	09/06/22 11:15	09/07/22 08:10
40250983007	SB-3(1)	Solid	09/06/22 11:25	09/07/22 08:10
40250983008	SB-3(3)	Solid	09/06/22 11:30	09/07/22 08:10
40250983009	SB-3(7)	Solid	09/06/22 11:35	09/07/22 08:10
40250983010	SB-4(1)	Solid	09/06/22 11:45	09/07/22 08:10
40250983011	SB-4(4)	Solid	09/06/22 11:50	09/07/22 08:10
40250983012	SB-4(8)	Solid	09/06/22 11:55	09/07/22 08:10
40250983013	SB-5(1)	Solid	09/06/22 12:00	09/07/22 08:10
40250983014	SB-5(4)	Solid	09/06/22 12:05	09/07/22 08:10
40250983015	SB-5(7)	Solid	09/06/22 12:10	09/07/22 08:10
40250983016	SB-6(1)	Solid	09/06/22 14:00	09/07/22 08:10
40250983017	SB-6(3)	Solid	09/06/22 14:05	09/07/22 08:10
40250983018	SB-6(7)	Solid	09/06/22 14:10	09/07/22 08:10
40250983019	SB-7(1)	Solid	09/06/22 12:15	09/07/22 08:10
40250983020	SB-7(4)	Solid	09/06/22 12:20	09/07/22 08:10
40250983021	SB-7(7)	Solid	09/06/22 00:00	09/07/22 08:10
40250983022	SB-8(1)	Solid	09/06/22 00:00	09/07/22 08:10
40250983023	SB-8(4)	Solid	09/06/22 00:00	09/07/22 08:10
40250983024	SB-8(7)	Solid	09/06/22 00:00	09/07/22 08:10
40250983025	SB-9(1)	Solid	09/06/22 00:00	09/07/22 08:10
40250983026	SB-9(3)	Solid	09/06/22 00:00	09/07/22 08:10
40250983027	SB-9(7)	Solid	09/06/22 00:00	09/07/22 08:10
40250983028	SB-10(1)	Solid	09/06/22 00:00	09/07/22 08:10
40250983029	SB-10(3)	Solid	09/06/22 00:00	09/07/22 08:10
40250983030	SB-10(7)	Solid	09/06/22 00:00	09/07/22 08:10
40250983031	SB-11(1)	Solid	09/06/22 13:45	09/07/22 08:10
40250983032	SB-11(2)	Solid	09/06/22 13:50	09/07/22 08:10
40250983033	SB-11(7)	Solid	09/06/22 13:55	09/07/22 08:10
40250983034	SB-12(1)	Solid	09/06/22 13:00	09/07/22 08:10
40250983035	SB-12(3)	Solid	09/06/22 13:05	09/07/22 08:10
40250983036	SB-12(7)	Solid	09/06/22 13:10	09/07/22 08:10



SAMPLE ANALYTE COUNT

Project:58217147/LOEB-LORMAN SCRAPYARDPace Project No.:40250983

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40250983001	SB-1(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	GNS	1	PASI-G
40250983002	SB-1(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983003	SB-1(8)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983004	SB-2(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	GNS	1	PASI-G
40250983005	SB-2(4)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983006	SB-2(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983007	SB-3(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983008	SB-3(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983009	SB-3(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983010	SB-4(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983011	SB-4(4)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983012	SB-4(8)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983013	SB-5(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983014	SB-5(4)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983015	SB-5(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983016	SB-6(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983017	SB-6(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983018	SB-6(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983019	SB-7(1)	EPA 6010D	SIS	1	PASI-G



SAMPLE ANALYTE COUNT

Project:58217147/LOEB-LORMAN SCRAPYARDPace Project No.:40250983

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	MRP	1	PASI-G
40250983020	SB-7(4)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983021	SB-7(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983022	SB-8(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983023	SB-8(4)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983024	SB-8(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983025	SB-9(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983026	SB-9(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983027	SB-9(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983028	SB-10(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983029	SB-10(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983030	SB-10(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40250983034	SB-12(1)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983035	SB-12(3)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MRP	1	PASI-G
40250983036	SB-12(7)	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	GNS	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 4025098

o.: 40250983

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40250983001	 SB-1(1)				·	
EPA 6010D ASTM D2974-87	Lead Percent Moisture	65.0 4.1	mg/kg %	4.1 0.10	09/23/22 12:36 09/22/22 13:29	
40250983002	SB-1(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	1610 18.1	mg/kg %	121 0.10	09/09/22 12:40 09/12/22 11:23	P6
40250983003	SB-1(8)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	5.8 10.4	mg/kg %	2.2 0.10	09/08/22 17:06 09/12/22 11:23	
40250983004	SB-2(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	13.1 3.7	mg/kg %	4.1 0.10	09/23/22 12:39 09/22/22 13:29	
40250983005	SB-2(4)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	1100 20.9	mg/kg %	12.5 0.10	09/09/22 12:50 09/12/22 11:23	
40250983006	SB-2(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	9.9 17.0	mg/kg %	2.4 0.10	09/08/22 17:14 09/12/22 11:23	
40250983007	SB-3(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	15.5 2.7	mg/kg %	3.8 0.10	09/23/22 12:41 09/20/22 16:38	
40250983008	SB-3(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	875 17.3	mg/kg %	4.6 0.10	09/09/22 12:53 09/12/22 11:23	
40250983009	SB-3(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	8.1 15.8	mg/kg %	2.3 0.10	09/08/22 17:18 09/12/22 11:23	
40250983010	SB-4(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	16.2 3.3	mg/kg %	4.1 0.10	09/23/22 12:44 09/20/22 16:38	
40250983011	SB-4(4)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	1160 16.5	mg/kg %	2.2 0.10	09/08/22 17:26 09/12/22 11:23	
40250983012	SB-4(8)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	10.4 15.4	mg/kg %	2.3 0.10	09/08/22 17:28 09/12/22 11:23	
40250983013	SB-5(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	10.9 3.1	mg/kg %		09/23/22 12:47 09/20/22 16:38	



SUMMARY OF DETECTION

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 4025098

40250983

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40250983014	SB-5(4)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	2140 23.5	mg/kg %	12.7 0.10	09/09/22 12:55 09/12/22 11:23	
40250983015	SB-5(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	14.1 18.1	mg/kg %	2.4 0.10	09/08/22 17:33 09/12/22 11:23	
40250983016	SB-6(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	332 1.5	mg/kg %	9.4 0.10		
40250983017	SB-6(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	135 11.9	mg/kg %	2.3 0.10	09/08/22 17:35 09/12/22 11:23	
40250983018	SB-6(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	4.8 9.1	mg/kg %	2.2 0.10	09/13/22 14:28 09/12/22 11:23	
40250983019	SB-7(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	14.4 1.9	mg/kg %	3.8 0.10	09/23/22 12:52 09/20/22 16:39	
40250983020	SB-7(4)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	1590 9.9	mg/kg %	2.2 0.10	09/08/22 17:40 09/12/22 11:23	
40250983021	SB-7(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	57.6 16.1	mg/kg %	2.3 0.10		
40250983022	SB-8(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	30.7 1.2	mg/kg %	4.0 0.10	09/23/22 12:54 09/20/22 16:39	
40250983023	SB-8(4)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	41300 26.0	mg/kg %	25.4 0.10		
40250983024	SB-8(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	13.4 18.7	mg/kg %		09/08/22 17:48 09/12/22 11:23	
40250983025	SB-9(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	173 3.9	mg/kg %	2.0 0.10	09/23/22 09:07 09/20/22 16:39	
40250983026	SB-9(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	4.4 15.5	mg/kg %		09/08/22 17:55 09/12/22 11:23	



SUMMARY OF DETECTION

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40250983027	SB-9(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	6.4 14.6	mg/kg %	2.2 0.10	09/08/22 17:58 09/12/22 11:23	
40250983028	SB-10(1)	1.10	,0	0.10	00,12,22 11.20	
EPA 6010D ASTM D2974-87	Lead Percent Moisture	18.8 2.3	mg/kg %	4.1 0.10	09/23/22 13:02 09/20/22 16:39	
40250983029	SB-10(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	145 15.9	mg/kg %	2.3 0.10	09/08/22 18:00 09/12/22 11:23	
40250983030	SB-10(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	6.3 12.0	mg/kg %	2.2 0.10	09/08/22 18:03 09/12/22 11:23	
40250983034	SB-12(1)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	17.0 2.4	mg/kg %	4.0 0.10	09/23/22 13:04 09/20/22 16:39	
40250983035	SB-12(3)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	120 20.1	mg/kg %	2.4 0.10	09/23/22 09:15 09/20/22 16:39	
40250983036	SB-12(7)					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	12.3 14.2	mg/kg %	2.3 0.10	09/23/22 09:17 09/22/22 12:01	



PROJECT NARRATIVE

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Method: EPA 6010D

Description:6010D MET ICPClient:Terracon, Inc. - FranklinDate:September 27, 2022

General Information:

33 samples were analyzed for EPA 6010D 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 3050B 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:

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



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-1(1)	Lab ID:	40250983001	Collected	I: 09/06/22	2 10:45	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry we	ight" basis and are	adjusted for	r percent mo	isture, saı	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA			hod: E	PA 3050B			
Lead	65.0	mg/kg	4.1	1.2	2	09/21/22 07:15	09/23/22 12:36	7439-92-1	
Percent Moisture		Method: ASTI ytical Services		1					
Percent Moisture	4.1	%	0.10	0.10	1		09/22/22 13:29		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-1(3)	Lab ID:	40250983002	Collected	I: 09/06/22	2 10:50	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight	" basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			hod: E	PA 3050B			
Lead	1610	mg/kg	121	36.3	50	09/08/22 06:53	09/09/22 12:40	7439-92-1	P6
Percent Moisture	,	Method: ASTM /tical Services		1					
Percent Moisture	18.1	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-1(8)	Lab ID: 4	40250983003	B Collected	d: 09/06/22	2 10:55	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	r percent mo	oisture, sai	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,		6010D Prep s - Green Bay		thod: E	PA 3050B			
Lead	5.8	mg/kg	2.2	0.65	1	09/08/22 06:53	09/08/22 17:06	7439-92-1	
Percent Moisture	Analytical M	/lethod: AST	M D2974-87						
	Pace Analy	tical Services	s - Green Bay	/					
Percent Moisture	10.4	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-2(1)	Lab ID:	4025098300	4 Collected	I: 09/06/22	2 11:05	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry we	ight" basis and ar	e adjusted fo	r percent mo	isture, sai	nple s	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP			. 6010D Prepa s - Green Bay		hod: E	PA 3050B			
Lead	13.1	mg/kg	4.1	1.2	2	09/21/22 07:15	09/23/22 12:39	7439-92-1	
Percent Moisture	,	Method: AST lytical Service	M D2974-87 s - Green Bay	1					
Percent Moisture	3.7	%	0.10	0.10	1		09/22/22 13:29		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-2(4)	Lab ID:	40250983005	Collected	: 09/06/22	11:10	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent moi	isture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical I	Method: EPA 6	010D Prepa	aration Met	hod: El	PA 3050B			
	Pace Analy	tical Services	- Green Bay						
Lead	1100	mg/kg	12.5	3.7	5	09/08/22 06:53	09/09/22 12:50	7439-92-1	
Percent Moisture	Analytical I	Method: ASTM	D2974-87						
	Pace Analy	tical Services	- Green Bay						
Percent Moisture	20.9	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-2(7)	Lab ID:	40250983006	Collecte	d: 09/06/22	2 11:15	Received: 09/	/07/22 08:10 M	atrix: Solid	
Results reported on a "dry w	eight" basis and are	e adjusted for	percent mo	oisture, sai	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 lytical Services			hod: E	PA 3050B			
Lead	9.9	mg/kg	2.4	0.72	1	09/08/22 06:53	09/08/22 17:14	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	1 D2974-87						
	Pace Anal	ytical Services	- Green Ba	y					
Percent Moisture	17.0	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-3(1)	Lab ID:	40250983007	Collected	: 09/06/22	11:25	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent mo	isture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6			hod: E	PA 3050B			
	Pace Analy	tical Services/	- Green Bay						
Lead	15.5	mg/kg	3.8	1.2	2	09/21/22 07:15	09/23/22 12:41	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
	Pace Analy	tical Services	- Green Bay						
Percent Moisture	2.7	%	0.10	0.10	1		09/20/22 16:38		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-3(3)	Lab ID:	40250983008	Collected	: 09/06/22	11:30	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	' basis and are	adjusted for	percent mo	isture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			nod: El	PA 3050B			
Lead	875	mg/kg	4.6	1.4	2	09/08/22 06:53	09/09/22 12:53	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	17.3	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-3(7)	Lab ID:	40250983009	Collected	: 09/06/22	11:35	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent mo	isture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6			nod: El	PA 3050B			
	Pace Analy	tical Services	- Green Bay						
Lead	8.1	mg/kg	2.3	0.69	1	09/08/22 06:53	09/08/22 17:18	7439-92-1	
Percent Moisture	Analytical I	Method: ASTM	D2974-87						
	Pace Analy	tical Services	- Green Bay						
Percent Moisture	15.8	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-4(1)	Lab ID: 4	0250983010	Collected	I: 09/06/22	2 11:45	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	adjusted for p	percent mo	isture, san	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		lethod: EPA 60 tical Services ·			hod: E	PA 3050B			
Lead	16.2	mg/kg	4.1	1.2	2	09/21/22 07:15	09/23/22 12:44	7439-92-1	
Percent Moisture	,	lethod: ASTM tical Services ·		,					
Percent Moisture	3.3	%	0.10	0.10	1		09/20/22 16:38		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-4(4)	Lab ID:	40250983011	Collected:	09/06/22	2 11:50	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry we	ight" basis and are	adjusted for	percent moi	sture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6			hod: El	PA 3050B			
	Pace Analy	tical Services	- Green Bay						
Lead	1160	mg/kg	2.2	0.66	1	09/08/22 06:53	09/08/22 17:26	7439-92-1	
Percent Moisture	Analytical I	Method: ASTM	1 D2974-87						
	Pace Analy	tical Services	- Green Bay						
Percent Moisture	16.5	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-4(8)	Lab ID:	40250983012	Collected	d: 09/06/22	2 11:55	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry w	eight" basis and are	adjusted for	percent mo	oisture, sai	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	-	Method: EPA 6 ytical Services			thod: E	PA 3050B			
Lead	10.4	mg/kg	2.3	0.70	1	09/08/22 06:53	09/08/22 17:28	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		y					
Percent Moisture	15.4	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-5(1)	Lab ID:	40250983013	Collected	: 09/06/22	2 12:00	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry weig	ght" basis and are	adjusted for	percent mo	isture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			hod: El	PA 3050B			
Lead	10.9	mg/kg	4.0	1.2	2	09/21/22 07:15	09/23/22 12:47	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	3.1	%	0.10	0.10	1		09/20/22 16:38		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-5(4)	Lab ID:	40250983014	Collected	09/06/22	2 12:05	Received: 09/	07/22 08:10 M	atrix: Solid	
Results reported on a "dry wei	ght" basis and are	adjusted for	percent moi	isture, sai	mple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA	6010D Prepa	ration Me	thod: El	PA 3050B			
	Pace Anal	ytical Services	- Green Bay						
Lead	2140	mg/kg	12.7	3.8	5	09/08/22 06:53	09/09/22 12:55	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	1 D2974-87						
	Pace Anal	vtical Services	- Green Bay						
Percent Moisture	23.5	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-5(7)	Lab ID:	40250983015	Collected	: 09/06/22	12:10	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent mo	isture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 /tical Services			hod: Ef	PA 3050B			
Lead	14.1	mg/kg	2.4	0.71	1	09/08/22 06:53	09/08/22 17:33	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	18.1	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-6(1)	Lab ID: 4	0250983016	Collected	: 09/06/22	14:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weigh	ht" basis and are	adjusted for p	percent mo	isture, san	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	lethod: EPA 6			nod: El	PA 3050B			
Lead	332	mg/kg	9.4	2.8	5	09/21/22 07:15	09/26/22 15:46	7439-92-1	
Percent Moisture	,	lethod: ASTM tical Services							
Percent Moisture	1.5	%	0.10	0.10	1		09/20/22 16:38		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-6(3)	Lab ID:	40250983017	Collected	I: 09/06/22	2 14:05	Received: 09/	07/22 08:10 Ma	atrix: Solid			
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.											
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay										
Lead	135	mg/kg	2.3	0.67	1	09/08/22 06:53	09/08/22 17:35	7439-92-1			
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay										
Percent Moisture	11.9	%	0.10	0.10	1		09/12/22 11:23				



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-6(7)	Lab ID:	40250983018	Collected	: 09/06/22	2 14:10	Received: 09/	07/22 08:10 Ma	atrix: Solid			
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.											
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay										
Lead	4.8	mg/kg	2.2	0.65	1	09/08/22 06:53	09/13/22 14:28	7439-92-1			
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay										
Percent Moisture	9.1	%	0.10	0.10	1		09/12/22 11:23				



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-7(1)	Lab ID: 4	40250983019	Collected	: 09/06/22	12:15	Received: 09/	07/22 08:10 Ma	atrix: Solid		
Results reported on a "dry weig	ht" basis and are	adjusted for p	percent mo	isture, san	nple si	ize and any diluti	ons.			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	14.4	mg/kg	3.8	1.1	2	09/21/22 07:15	09/23/22 12:52	7439-92-1		
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	1.9	%	0.10	0.10	1		09/20/22 16:39			



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-7(4)	Lab ID:	40250983020	Collecte	d: 09/06/22	2 12:20	Received: 09/	07/22 08:10 M	atrix: Solid			
Results reported on a "dry we	eight" basis and are	adjusted for	percent mo	oisture, sai	nple si	ize and any diluti	ons.				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
6010D MET ICP	,	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	1590	mg/kg	2.2	0.65	1	09/08/22 06:53	09/08/22 17:40	7439-92-1			
Percent Moisture	Analytical	Method: ASTM	D2974-87								
	Pace Anal	vtical Services	- Green Ba	У							
Percent Moisture	9.9	%	0.10	0.10	1		09/12/22 11:23				



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-7(7)	Lab ID:	40250983021	Collected	d: 09/06/22	2 00:00	Received: 09/	07/22 08:10 M	atrix: Solid			
Results reported on a "dry w	eight" basis and are	e adjusted for	percent mo	oisture, sar	nple si	ize and any diluti	ons.				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
6010D MET ICP	,	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay									
Lead	57.6	mg/kg	2.3	0.69	1	09/08/22 06:53	09/08/22 17:43	7439-92-1			
Percent Moisture	,	Analytical Method: ASTM D2974-87 Pace Analytical Services - Green Bay									
Percent Moisture	16.1	%	0.10	0.10	1		09/12/22 11:23				



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-8(1)	Lab ID:	40250983022	Collected	: 09/06/22	2 00:00	Received: 09/	07/22 08:10 N	latrix: Solid			
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.											
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B										
	Pace Anal	tical Services	- Green Bay								
Lead	30.7	mg/kg	4.0	1.2	2	09/21/22 07:15	09/23/22 12:54	7439-92-1			
Percent Moisture	Analytical	Method: ASTM	D2974-87								
	Pace Analytical Services - Green Bay										
Percent Moisture	1.2	%	0.10	0.10	1		09/20/22 16:39)			



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-8(4)	Lab ID:	40250983023	Collected	: 09/06/22	2 00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight	" basis and are	adjusted for	percent moi	isture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA 6	010D Prepa	aration Met	hod: El	PA 3050B			
	Pace Anal	ytical Services	- Green Bay						
Lead	41300	mg/kg	25.4	7.6	10	09/08/22 06:53	09/09/22 12:57	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
	Pace Anal	ytical Services	- Green Bay						
Percent Moisture	26.0	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-8(7)	Lab ID: 4	10250983024	Collected	: 09/06/22	2 00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	percent mo	isture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	/lethod: EPA (tical Services			hod: El	PA 3050B			
Lead	13.4	mg/kg	2.3	0.68	1	09/08/22 06:53	09/08/22 17:48	7439-92-1	
Percent Moisture	Analytical N	lethod: ASTN	/I D2974-87						
	Pace Analy	tical Services	s - Green Bay	,					
Percent Moisture	18.7	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-9(1)	Lab ID:	40250983025	Collected	1: 09/06/22	2 00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weigh	nt" basis and are	adjusted for	percent mo	oisture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	173	mg/kg	2.0	0.59	1	09/21/22 07:15	09/23/22 09:07	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		/					
Percent Moisture	3.9	%	0.10	0.10	1		09/20/22 16:39		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-9(3)	Lab ID: 4	10250983026	Collected	I: 09/06/22	2 00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	r percent mo	isture, sar	nple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,		6010D Prepa s - Green Bay		hod: El	PA 3050B			
Lead	4.4	mg/kg	2.3	0.70	1	09/08/22 06:53	09/08/22 17:55	7439-92-1	
Percent Moisture	Analytical M	lethod: AST	M D2974-87						
	Pace Analy	tical Services	s - Green Bay	/					
Percent Moisture	15.5	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-9(7)	Lab ID:	40250983027	Collected	: 09/06/22	2 00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight	t" basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			hod: El	PA 3050B			
Lead	6.4	mg/kg	2.2	0.65	1	09/08/22 06:53	09/08/22 17:58	7439-92-1	
Percent Moisture	,	Method: ASTN /tical Services							
Percent Moisture	14.6	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-10(1)	Lab ID:	40250983028	Collected:	09/06/22	00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent moi	sture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			nod: El	PA 3050B			
Lead	18.8	mg/kg	4.1	1.2	2	09/21/22 07:15	09/23/22 13:02	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	2.3	%	0.10	0.10	1		09/20/22 16:39		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-10(3)	Lab ID:	40250983029	Collected	: 09/06/22	00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent moi	isture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 /tical Services	•		hod: El	PA 3050B			
Lead	145	mg/kg	2.3	0.70	1	09/08/22 06:53	09/08/22 18:00	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	15.9	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-10(7)	Lab ID:	40250983030	Collected	: 09/06/22	00:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent moi	isture, san	nple si	ze and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 /tical Services	•		hod: El	PA 3050B			
Lead	6.3	mg/kg	2.2	0.66	1	09/08/22 06:53	09/08/22 18:03	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	12.0	%	0.10	0.10	1		09/12/22 11:23		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-12(1)	Lab ID:	40250983034	Collected:	09/06/22	13:00	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent moi	sture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 /tical Services			hod: El	PA 3050B			
Lead	17.0	mg/kg	4.0	1.2	2	09/21/22 07:15	09/23/22 13:04	7439-92-1	
Percent Moisture	,	Method: ASTM /tical Services							
Percent Moisture	2.4	%	0.10	0.10	1		09/20/22 16:39		



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-12(3) Lab ID: 40250983035 Collected: 09/06/22 13:05 Received: 09/07/22 08:10 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. Qual 6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Green Bay Lead 120 mg/kg 2.4 0.73 1 09/21/22 07:15 09/23/22 09:15 7439-92-1 Analytical Method: ASTM D2974-87 **Percent Moisture** Pace Analytical Services - Green Bay Percent Moisture 20.1 % 0.10 0.10 1 09/20/22 16:39



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Sample: SB-12(7)	Lab ID:	40250983036	Collected	I: 09/06/22	2 13:10	Received: 09/	07/22 08:10 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	r percent mo	isture, saı	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA	6010D Prepa	aration Met	hod: E	PA 3050B			
	Pace Anal	vtical Services	s - Green Bay	/					
Lead	12.3	mg/kg	2.3	0.68	1	09/21/22 07:15	09/23/22 09:17	7439-92-1	
Percent Moisture	Analytical	Method: ASTN	M D2974-87						
	Pace Analy	vtical Services	s - Green Bay	/					
Percent Moisture	14.2	%	0.10	0.10	1		09/22/22 12:01		



Project:	58217147/LOEB	LORMAN SCRAPY	'ARD									
Pace Project No.:	40250983											
QC Batch:	425390		Analy	sis Metho	d:	EPA 6010D						
QC Batch Method:	EPA 3050B		Analy	sis Descri	ption:	6010D MET						
			Labo	ratory:		Pace Analyt	ical Service	es - Green	Bay			
Associated Lab San	4025098	3002, 40250983003 3012, 40250983014 3023, 40250983024	, 4025098	3015, 402	50983017,	402509830	18, 402509	83020, 40		,		
METHOD BLANK:	2449555			Matrix: So	olid							
Associated Lab San	4025098	3002, 40250983003 3012, 40250983014 3023, 40250983024	, 4025098	3015, 402	50983017,	402509830	18, 402509	83020, 40		,		
			Blar	nk	Reporting							
Paran	neter	Units	Res	ult	Limit	Anal	/zed	Qualifie	rs			
Lead		mg/kg		<0.60	2	.0 09/08/2	2 16:47					
LABORATORY CON	NTROL SAMPLE:	2449556										
			Spike	LC	S	LCS	% Re	ec				
Paran	neter	Units	Conc.	Res	sult	% Rec	Limi	ts	Qualifiers			
Lead		mg/kg	2	5	26.9	10	7 8	30-120				
MATRIX SPIKE & M	IATRIX SPIKE DU	PLICATE: 24495	57		244955	8						
			MS	MSD								
Parameter	. Unit	40250983002	Spike Conc.	Spike Conc.	MS Booult	MSD Booult	MS % Rec	MSD % Rec	% Rec	RPD	Max RPD	Quel
					Result	Result			Limits			Qual
Lead	mg/ł	kg 1610	30.4	30.4	836	827	-2530	-2560) 75-125	1	20	P6

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.



Project:		LORMAN SCRAP	YARD									
Pace Project No.:	40250983											
QC Batch:	426533		Analy	ysis Metho	d:	EPA 6010D						
QC Batch Method:	EPA 3050B		Analy	ysis Descri	ption:	6010D MET						
			Labo	ratory:		Pace Analyt	ical Servic	es - Green	Bay			
Associated Lab Sam		3001, 4025098300 3022, 4025098302		,	,		,	,	250983019),		
METHOD BLANK:	2455795			Matrix: S	olid							
Associated Lab Sam	•	3001, 4025098300 3022, 4025098302		,	,		,	,	250983019),		
			Blar	nk	Reporting							
Param	neter	Units	Res	ult	Limit	Analy	/zed	Qualifier	S			
Lead		mg/kg		<0.60	2	.0 09/23/22	2 08:17					
LABORATORY CON	NTROL SAMPLE:	2455796										
			Spike	LC	S	LCS	% R	ec				
Param	neter	Units	Conc.	Re	sult	% Rec	Limi	its (Qualifiers			
Lead		mg/kg	2	25	26.3	105	5 6	80-120				
MATRIX SPIKE & M	IATRIX SPIKE DU	PLICATE: 2455	797		2455798	8						
			MS	MSD								
Parameter	· Unit:	40251265001 s Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
, arameter	0	. looun										

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.



Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No .:	40250983
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QC Batch:	425681	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Sam	40250983012, 4025098301	4, 40250983015, 40250983017	6, 40250983008, 40250983009, 40250983011, 7, 40250983018, 40250983020, 40250983021, 7, 40250983029, 40250983030

SAMPLE DUPLICATE: 2451548						
		40250983018	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	9.1	9.3	2	10	

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.



Project:	58217147/LOEB-LORMAN SCRAPYARD
Pace Project No .:	40250983

QC Batch:	426496	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Sam	ples: 40250983007, 40250983010 40250983028, 40250983034		16, 40250983019, 40250983022, 40250983025,
SAMPLE DUPLICAT	E: 2455707		

		40251659001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	6.8	6.8	0	10	

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.



Project: Pace Project No.:	58217147/LOEB-LOF 40250983	RMAN SCRAF	YARD							
QC Batch:	426689		Analysis Meth	od:	ASTM D2974-	-87				
QC Batch Method:	ASTM D2974-87		Analysis Desc	ription:	Dry Weight/Pe	ercent N	/loisture			
			Laboratory:		Pace Analytica	al Servi	ces - Gre	en Ba	у	
Associated Lab Sar	mples: 4025098303	6								
SAMPLE DUPLICA	TE: 2457007									
			40251727001	Dup			Max			
Parar	meter	Units	Result	Result	RPD		RPD		Qualifiers	
Percent Moisture		%	3.6		3.7	5		10		

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.



Project: Pace Project No.:	58217147/LOEB-LO 40250983	RMAN SCRAPY	ARD						
QC Batch:	426706		Analysis Meth	nod:	ASTM D2974	-87			
QC Batch Method:	ASTM D2974-87		Analysis Desc Laboratory:	cription:	Dry Weight/Po Pace Analytic			en Bav	
Associated Lab Sa	mples: 4025098300	1, 40250983004							
SAMPLE DUPLICA	TE: 2457079								
Para	meter	Units	40251830001 Result	Dup Result	RPD		Max RPD	Qualifiers	
Percent Moisture		%	4.1		4.1	0		10	

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: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

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

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Analytical QC Batch Method QC Batch Lab ID Sample ID **Analytical Method** Batch 40250983001 EPA 3050B 426533 EPA 6010D 426611 SB-1(1) EPA 6010D 40250983002 SB-1(3) EPA 3050B 425390 425477 40250983003 EPA 3050B 425390 EPA 6010D SB-1(8) 425477 40250983004 SB-2(1) EPA 3050B 426533 EPA 6010D 426611 425390 40250983005 SB-2(4) EPA 3050B EPA 6010D 425477 40250983006 SB-2(7) EPA 3050B 425390 EPA 6010D 425477 40250983007 SB-3(1) EPA 3050B 426533 EPA 6010D 426611 40250983008 SB-3(3) EPA 3050B 425390 EPA 6010D 425477 40250983009 SB-3(7) EPA 3050B 425390 EPA 6010D 425477 40250983010 SB-4(1) EPA 3050B 426533 EPA 6010D 426611 40250983011 SB-4(4) EPA 3050B 425390 EPA 6010D 425477 40250983012 SB-4(8) EPA 3050B 425390 EPA 6010D 425477 40250983013 SB-5(1) EPA 3050B 426533 EPA 6010D 426611 40250983014 SB-5(4) EPA 3050B 425390 EPA 6010D 425477 40250983015 SB-5(7) EPA 3050B 425390 EPA 6010D 425477 40250983016 SB-6(1) EPA 3050B 426533 EPA 6010D 426611 40250983017 SB-6(3) EPA 3050B 425390 EPA 6010D 425477 40250983018 SB-6(7) EPA 3050B 425390 EPA 6010D 425477 40250983019 SB-7(1) EPA 3050B 426533 EPA 6010D 426611 40250983020 SB-7(4) EPA 3050B 425390 EPA 6010D 425477 40250983021 SB-7(7) EPA 3050B 425390 EPA 6010D 425477 40250983022 SB-8(1) EPA 3050B 426533 EPA 6010D 426611 40250983023 SB-8(4) EPA 3050B 425390 EPA 6010D 425477 40250983024 EPA 3050B 425390 EPA 6010D 425477 SB-8(7) 40250983025 EPA 3050B 426533 EPA 6010D 426611 SB-9(1) 40250983026 SB-9(3) EPA 3050B 425390 EPA 6010D 425477 40250983027 EPA 3050B 425390 EPA 6010D SB-9(7) 425477 40250983028 SB-10(1) EPA 3050B 426533 EPA 6010D 426611 40250983029 EPA 3050B 425390 EPA 6010D 425477 SB-10(3) 40250983030 SB-10(7) EPA 3050B 425390 EPA 6010D 425477 40250983034 SB-12(1) EPA 3050B 426533 EPA 6010D 426611 40250983035 SB-12(3) EPA 3050B 426533 EPA 6010D 426611 40250983036 SB-12(7) EPA 3050B 426533 EPA 6010D 426611 40250983001 426706 SB-1(1) ASTM D2974-87 40250983002 SB-1(3) ASTM D2974-87 425681 40250983003 SB-1(8) ASTM D2974-87 425681 SB-2(1) 40250983004 ASTM D2974-87 426706



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58217147/LOEB-LORMAN SCRAPYARD

Pace Project No.: 40250983

Analytical QC Batch Lab ID Sample ID **QC Batch Method Analytical Method** Batch 40250983005 SB-2(4) ASTM D2974-87 425681 40250983006 SB-2(7) ASTM D2974-87 425681 40250983007 SB-3(1) ASTM D2974-87 426496 40250983008 425681 SB-3(3) ASTM D2974-87 40250983009 SB-3(7) ASTM D2974-87 425681 40250983010 SB-4(1) 426496 ASTM D2974-87 40250983011 SB-4(4) ASTM D2974-87 425681 40250983012 SB-4(8) ASTM D2974-87 425681 40250983013 426496 SB-5(1) ASTM D2974-87 40250983014 SB-5(4) ASTM D2974-87 425681 40250983015 SB-5(7) ASTM D2974-87 425681 426496 40250983016 SB-6(1) ASTM D2974-87 ASTM D2974-87 40250983017 SB-6(3) 425681 40250983018 SB-6(7) ASTM D2974-87 425681 40250983019 SB-7(1) ASTM D2974-87 426496 40250983020 SB-7(4) ASTM D2974-87 425681 40250983021 SB-7(7) ASTM D2974-87 425681 40250983022 ASTM D2974-87 426496 SB-8(1) 40250983023 SB-8(4) ASTM D2974-87 425681 40250983024 425681 SB-8(7) ASTM D2974-87 40250983025 SB-9(1) 426496 ASTM D2974-87 SB-9(3) 40250983026 ASTM D2974-87 425681 40250983027 SB-9(7) ASTM D2974-87 425681 40250983028 SB-10(1) ASTM D2974-87 426496 40250983029 SB-10(3) ASTM D2974-87 425681 40250983030 SB-10(7) ASTM D2974-87 425681 40250983034 SB-12(1) ASTM D2974-87 426496 40250983035 426496 SB-12(3) ASTM D2974-87 426689 40250983036 SB-12(7) ASTM D2974-87

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ору То:	44		Site Collec	ction Info/A	Address:								(8) sodium th (U) Unpreser				bic acid, (B) ammonium sulfate, -		
ustomer Project Name/Number			State:	County/Ci	ity: Tir	me Zone Co	llected	—-[-			 	Analys	ies		<u> </u>	Lab Profile,	e/Line:		
(X)	100-		1.] PT [] MT] ЕТ								aller 24			
	Site/Facility ID)#:			· ·	ice Monitori	÷									Custody	Ay Seals Present/Intact Y N NA Ay Signatures Present Y N NA		
nail: V					[]Yes	[] No	۱ <u> </u>									Bottles	ctor Signature Present Y N NA es Intact Y N NA		
	Purchase Orde Quote #:	er #:			DW PWS I DW Locati						84					Correct	t Bottles Y N NA tient Volume Y N NA		
	Turnaround D	ate Require	ed:			tion Code: tely Packed (on lce:			10		n dez Nacional Para de la Nacional				Samples	es Received on Ice Y N NA Headspace Acceptable Y N NA		
Ann 1		Lie nequil			[]Yes	[]No										USDA Re	Regulated soils Y N NA		
mple Disposal:	Rush:				Field Filter	ered (if appli	licable):					Į				Residua	al Chlorine Present Y N NA		
Dispose as appropriate [] Return Archive:	[]Sa []2Day [•	[]Next Da []4 Dav	•	[]Yes	[]No	1		-	-		\$					PH Acceptable Y N NA		
Archive: Hold:		[] 3 Day Expedite Cha		- I P D BY	Analysis: _	·		_		ূপ	1-9	-				pH Stri Sulfide	rips: Present Y N NA		
Matrix Codes (Insert in Matrix box										Ž	<u>_</u>	13				Lead A	eptate Strips:		
Product (P), Soil/Solid (SL), Oil (OL)	.), Wipe (WP),				s), Vapor (V),	, Other (OT	- -		•	$\sqrt{ }$							SE ONLY:		
ustomer Sample ID	. Matrix *	Comp / Grab		ted (or site Start) Time	Compo Date	osite End	Res Cl	# of Ctns		V	×	4				Lab Sa	ample # / Comments:		
B-7(7)	52	6	Date 96/22			- me	<u>+</u> `	┞═╾╋					- 2000 800-1 - 2000 800-1 - 2000 800-1			021			
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5B-9(3)		++-		+	+	+	<u>† </u>	t f	9800 m	रि	17		12000			02			
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SB-IDC3	└── <u></u>	++	++-	1	+	+	<u>+</u> `	├		2	-tre-					02			
CALOUT	5	+±	+1	<u> </u>		+	+	├ ── <u></u>		źt						02			
SB-(0 stomer Remarks / Special Condition	ions / Possible I	Hazarde	Type of Ice	। २ Used:	Wet E	J Blue Dr	iry Noi	re Tr	and the second s	SHORT	HOLDS P	RESENT	(<72 hours)	′ <u>⊥</u> ۱: ۲ ۲	N N/4		Lab Sample Temperature Info:		
openar conulti			A CONTRACTOR	Aaterial Use		- f			1.55.62		acking #:		1 <u>- 1</u>	0.000			Temp Blank Received: YNNA		
						1)				10544		28	3287	'54			Therm ID#: Cooler 1 Temp Upon Receipt:oC		
			Radeber	sample(-)	screeped (<	500 cmm'	v ••	NIA		1. S	es receive	ed via:			7		Cooler 1 Therp Corr. Factor:oC		
		· · ·	CONTRACTOR DE	a contractor a		Eller and States a	ka Sand Gibber da i	and Claiman					Client Co			Courier	Cooler 1 Corrected Temp:oC Commonts:		
inquished by/Company: (Signatur	re)		e/Time: Z		Received b	oy/Compan	y: (Signatı	ure)		Da	ate/Time:	•	- Share as a sec		LAB USE		Comments,		
may			bizz			. ·							1000 01	le #: tnum:					
linquished by/Company: (Signatur	re)	Dat	e/Time:		Received b	by/Company		ıre)		Da	ate/Time:	· · · · · ·	1986	num: nplate:			Trip Blank Received: Y N NA		
LJ LOONSTILS		9	hhr Or		LVV	Van					ippe 1		Preic	ogin:			HCL MeOH TSP Other		
linquished by/Company: (Signatur	re)		e/Time:		Received b	by/Company		ıre)			ate/Time:		PM:				Non Conformance(s): Page: Page 5		
				1	1								PB:				YES / NO of:		

Pace Analytical*	CHAIN	OF-CU	STODY /	Analyti	cal Req	uest Do	cume	ent	LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here									
	Chain-o	of-Custody	is a LEGAL (T - Complet	e all releve	nt fields										400-50-00	
impany:			Billing Info	rmation:								A	LL SI	HADED	AREAS	are for LA	AB USE ONLY	
ddress:		001		10	2						Contai	ner Pr	eservat	ive Type **	e Millionera I	Lab Proje	ct Manager:	
eport To:	$\supset H$	╢╂	Email To:	_02					** Pi	reservat	ve Types:	(1) nitr	ic acid, (2) sulfuric a	cid, (3) hydrod	chloric acid, (4)	sodium hydroxide, (5) zinc acetate,	
ру То:			Site Collec	tion/Info/A	Address:										sulfate, (9) h d, (0) Other		rbic acid, (B) ammonium sulfate,	
stomer Project Name/Number:	-A	<u> </u>	-	County/Ci		ne Zone Co	llected						nalyses			Lab Profil		
	IVU	YL] PT [] MI		[] ET									ample Receipt Checklist: dy Seals Present/Intact Y N/NA	
	Ste/Facility ID	(#/				e Monitor	ing?					23				Custo	dy Signatures Present YN NA	
nail:	V Durations Orali	u.			[] Yes	[]No										Bottle	ctor Signature Present Y N NA es Intact Y N NA	
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llected By (signature):	Turnaround D	ate Requir	ed:		Immediat	ely Packed	on Ice:				<	R				VOA -	es Received on Zce Y N NA Headspace Acceptable Y N NA	
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mple Disportal:] Dispose as appropriate [] Return	Rush: []Sa	me Day	[] Next Da	¥γ	Field Filte	red (if appli No					_	カ		interna 1990 - Santa Santa Santa Manakat Ma		Cl St	ual Chlorine Present Y N NA rips:	
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ustomer Sample ID	Matrix *	Comp /	Collect		Compo	site End	Res	# of	5	\square	ر	X					ample # / Comments:	
ustomer sample ib	Watny	Grab	Date Date	ite Start) Time	Date	Time	CI	Ctns				4						
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SB-12(7)	1	4	d	1310						ス		X				<u>ଁ</u> () (3φ	
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ustomer Remarks / Special Condition	ons / Possible I	Hazards:	1. 400 100 100 100 100 100	and the second		Blue Di	<u>v</u> .N	one		11:10	-37653-110-51-51-51-51		ENT (<	72 hours):	YNN	N/A	Lab Sample Temperature Info: Temp Blank Received: YNNA	
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· · · · · · · · · · · · · · · · · · ·		· · · ·	Radchem :	sample(s) s	screened (<	500 cpm):	N Y	N NA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EDEX	はねずろがやび		ent Cou	irier Pac	e Courier	Cooler 1 Corrected Temp:oC	
linquished by/Company: (Signatur	re)	Date	e/Time: /	020	Received b	y/Company	y: (Signa	ture)			Date/Tim	ie:			MTJL LAB U	SE ONLY	Comments:	
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elinquished by/Company: (Signatur	pany: (Signature) Date/Time: Received by/Company: (Signature				ture)	ure) Date/Time: Template: Trip Blank Received: Y					Trip Blank Received: Y N NA							
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DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form Effective Date: 8/16/2022

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				Glass						Plast	ic		Vials			[Jars		Genera				Vials (>6mm) *	H ≤2	Act pH ≥9	H≥12	1 ≤2	after adjusted	Volume				
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	voA Vials	H2SO4 pH ≤2	NaOH+Zn Act pH	NaOH pH ≥12	HNO3 pH	pH after a	(mL)
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) : Yes No , *If yes look in headspace column

BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres	
BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres	
BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres	
BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres	
BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate	
BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag	
				GN 1		
				GN 2		
	BP3U BP3B BP3N BP3S	BP1U1 liter plastic unpresBP3U250 mL plastic unpresBP3B250 mL plastic NaOHBP3N250 mL plastic HNO3BP3S250 mL plastic H2SO4BP2Z500 mL plastic NaOH + Zn	BP3U250 mL plastic unpresDG9TBP3B250 mL plastic NaOHVG9UBP3N250 mL plastic HNO3VG9HBP3S250 mL plastic H2SO4VG9M	BP3U250 mL plastic unpresDG9T40 mL amber Na ThioBP3B250 mL plastic NaOHVG9U40 mL clear vial unpresBP3N250 mL plastic HNO3VG9H40 mL clear vial HCLBP3S250 mL plastic H2SO4VG9M40 mL clear vial MeOH	BP3U250 mL plastic unpresDG9T40 mL amber Na ThioJG9UBP3B250 mL plastic NaOHVG9U40 mL clear vial unpresWGFUBP3N250 mL plastic HNO3VG9H40 mL clear vial HCLWPFUBP3S250 mL plastic H2SO4VG9M40 mL clear vial MeOHSP5TBP2Z500 mL plastic NaOH + ZnVG9D40 mL clear vial DIZPLCGN 1	BP3U250 mL plastic unpresDG9T40 mL amber Na ThioJG9U9 oz amber jar unpresBP3B250 mL plastic NaOHVG9U40 mL clear vial unpresWGFU4 oz clear jar unpresBP3N250 mL plastic HNO3VG9H40 mL clear vial HCLWPFU4 oz plastic jar unpresBP3S250 mL plastic H2SO4VG9M40 mL clear vial MeOHSP5T120 mL plastic Na ThiosulfateBP2Z500 mL plastic NaOH + ZnVG9D40 mL clear vial DIZPLCziploc bagGN 1

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form Effective Date: 8/16/2022

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	D	n	L	Glass ගු		S	n	, D	L	Plast 0						Vi	als			[j	ars			Gen	eral ~]	/OA Vials (>6mm) *	H2SO4 pH ≤2	laOH+Zn Act pH ≥9	VaOH pH ≥12	HNO3 pH ≤2	oH after adjusted	Volume (mL)
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	U U	GN	V A V	H2SO	NaOH	NaOF	NNO	pH afi	
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Sample Condition Upon Receipt Form (SCUR)

Project #:
Client Name: <u>Tervullan</u> WO#: 40250983
Courier: CS Logistics Fed Ex Speedee UPS Waltco
Client Pace Other:
Tracking #:
Custody Seal on Cooler/Box Present: Fyes no Seals intact yes no
Custody Seal on Samples Present: 🔲 yes 🖅 no Seals intact: 🛄 yes 🚝 no
Packing Material: Bubble Wrap Bubble Bags Other
Thermometer Used SR - 120 Type of Ice: Wet Blue Dry None Meltwater Only Person examining contents:
Cooler Temperature Uncorr: () /Corr: ()
Temp Blank Present: Ves no Biological Tissue is Frozen: yes no Date: 1122 /Initials
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice. Labeled By Initials:
Chain of Custody Present: Pres Ino Ino Ino
Chain of Custody Filled Out:
Chain of Custody Relinquished:
Sampler Name & Signature on COC:
Samples Arrived within Hold Time:
- DI VOA Samples frozen upon receipt
Short Hold Time Analysis (<72hr):
Rush Turn Around Time Requested: 🛛 Yes ENo 7.
Sufficient Volume: 8.
For Analysis: EYes INO MS/MSD: IYes INO - HNA
Correct Containers Used: -Erres DNo 9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace
Containers Intact:
Filtered volume received for Dissolved tests Pres No TN/A 11.
Sample Labels match COC: DYes Dro DN/A 12. NO date or time mH9/7/22
-Includes date/time/ID/Analysis Matrix: 5
Trip Blank Present: Image: Present:
Trip Blank Custody Seals Present
Pace Trip Blank Lot # (if purchased):
Client Notification/ Resolution: If checked, see attached form for additional comments Date/Time: Comments/ Resolution:

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

Page<u>3</u> of 3



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

November 17, 2022

Lucas Chabela Terracon, Inc. - Franklin 9856 South 57th Street Franklin, WI 53132

RE: Project: 58217147 FMR LOEBS LORMAN Pace Project No.: 40254495

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2022. 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,

Day Milery

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

Enclosures





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

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 South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A



SAMPLE SUMMARY

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40254495001	OAK PROFILE	Solid	11/09/22 13:00	11/10/22 08:15



SAMPLE ANALYTE COUNT

 Project:
 58217147 FMR LOEBS LORMAN

 Pace Project No.:
 40254495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory	
40254495001	OAK PROFILE	EPA 8082A	BLM	10	PASI-G	
		EPA 6010D	SIS	7	PASI-G	
		EPA 6010D	SIS	1	PASI-G	
		EPA 7471	AJT	1	PASI-G	
		EPA 8270E by SIM	RJN	20	PASI-G	
		EPA 8260	ALD	64	PASI-G	
		ASTM D2974-87	MJV	1	PASI-G	

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Lab Sample ID Client Sample ID Method Parameters Qualifiers Result Units Report Limit Analyzed 40254495001 **OAK PROFILE** EPA 6010D Arsenic 6.0 mg/kg 2.7 11/15/22 19:59 EPA 6010D Barium 38.4 mg/kg 0.54 11/15/22 19:59 EPA 6010D Cadmium 1.3 mg/kg 0.54 11/15/22 19:59 EPA 6010D Chromium 19.2 mg/kg 1.1 11/15/22 19:59 EPA 6010D Lead 76.9 mg/kg 2.2 11/15/22 19:59 0.10 11/16/22 09:44 EPA 7471 Mercury mg/kg 0.036 EPA 8270E by SIM Acenaphthene 28.0J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Acenaphthylene 15.4J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Anthracene 86.4J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Benzo(a)anthracene 218 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Benzo(a)pyrene 104J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Benzo(b)fluoranthene 151 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Benzo(g,h,i)perylene 89.4J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Benzo(k)fluoranthene 40.3J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Chrysene 284 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Dibenz(a,h)anthracene 32.8J 109 11/11/22 17:19 ug/kg EPA 8270E by SIM Fluoranthene 522 109 11/11/22 17:19 ug/kg EPA 8270E by SIM Fluorene 21.2J ug/kg 109 11/11/22 17:19 EPA 8270E by SIM 50.9J Indeno(1,2,3-cd)pyrene ug/kg 109 11/11/22 17:19 EPA 8270E by SIM 109 11/11/22 17:19 1-Methylnaphthalene 134 ug/kg EPA 8270E by SIM 2-Methylnaphthalene 281 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Naphthalene 266 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Phenanthrene 889 ug/kg 109 11/11/22 17:19 EPA 8270E by SIM Pyrene 370 109 11/11/22 17:19 ug/kg EPA 8260 33.7J 11/11/22 16:05 Naphthalene ug/kg 325 EPA 8260 Tetrachloroethene 44.4J ug/kg 65.1 11/11/22 16:05 EPA 8260 Toluene 66.0 ug/kg 65.1 11/11/22 16:05 EPA 8260 1,2,4-Trimethylbenzene 27.5J 65.1 11/11/22 16:05 ug/kg EPA 8260 m&p-Xylene 39.3J 130 11/11/22 16:05 ug/kg EPA 8260 o-Xylene 19.6J ug/kg 65.1 11/11/22 16:05 ASTM D2974-87 Percent Moisture 13.1 % 0.10 11/10/22 15:41



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method:EPA 8082ADescription:8082A GCS PCBClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was analyzed for EPA 8082A 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 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 431241

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 - OAK PROFILE (Lab ID: 40254495001)
 - PCB-1016 (Aroclor 1016)



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method: EPA 6010D

Description:6010D MET ICPClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was analyzed for EPA 6010D 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 3050B 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.

QC Batch: 431335

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40254437003

- M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
 - MS (Lab ID: 2484292)
 - Selenium
 - MSD (Lab ID: 2484293)
 - Selenium

Additional Comments:



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method:EPA 6010DDescription:6010D MET ICP, TCLPClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was analyzed for EPA 6010D 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 3015A 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:



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method:EPA 7471Description:7471 MercuryClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was analyzed for EPA 7471 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 7471 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:



PROJECT NARRATIVE

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method: EPA 8270E by SIM

Description:8270E MSSV PAH by SIMClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was analyzed for EPA 8270E by SIM 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 3546 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:



PROJECT NARRATIVE

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Method: EPA 8260

Description:8260 MSV Med Level Normal ListClient:Terracon, Inc. - FranklinDate:November 17, 2022

General Information:

1 sample was 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.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B 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.



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Sample: OAK PROFILE	Lab ID: 40254495001	Collected: 11/09/22 13:00	Received: 11/10/22 08:15	Matrix: Solid
Results reported on a "dry weight" b	asis and are adjusted for p	ercent moisture, sample siz	e and any dilutions.	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA	8082A Prep	aration Met	hod: E	PA 3541			
	Pace Ana	lytical Service	es - Green Ba	у					
PCB-1016 (Aroclor 1016)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	12674-11-2	D3
PCB-1221 (Aroclor 1221)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	11104-28-2	
PCB-1232 (Aroclor 1232)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	11141-16-5	
PCB-1242 (Aroclor 1242)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	53469-21-9	
PCB-1248 (Aroclor 1248)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	12672-29-6	
PCB-1254 (Aroclor 1254)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	11097-69-1	
PCB-1260 (Aroclor 1260)	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	11096-82-5	
PCB, Total	<175	ug/kg	574	175	10	11/11/22 09:07	11/15/22 05:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	74	%	50-99		10	11/11/22 09:07	11/15/22 05:58		
Decachlorobiphenyl (S)	70	%	38-95		10	11/11/22 09:07	11/15/22 05:58	2051-24-3	
6010D MET ICP	Analytical	Method: EPA	6010D Prep	aration Met	hod: E	PA 3050B			
			es - Green Ba						
Arsenic	6.0	mg/kg	2.7	1.6	1	11/14/22 07:47	11/15/22 19:59	7440-38-2	
Barium	38.4	mg/kg	0.54	0.16	1	11/14/22 07:47	11/15/22 19:59		
Cadmium	1.3	mg/kg	0.54	0.10	1	11/14/22 07:47	11/15/22 19:59		
Chromium	19.2	mg/kg	1.1	0.30	1	11/14/22 07:47	11/15/22 19:59		
Lead	76.9	mg/kg	2.2	0.65	1	11/14/22 07:47	11/15/22 19:59		
Selenium	<1.4	mg/kg	4.4	1.4	1		11/15/22 19:59		
Silver	<0.33	mg/kg	1.1	0.33	1		11/15/22 19:59		
	Analytical			anation Mat					
6010D MET ICP, TCLP	•		6010D Prep			PA 3015A			
			: EPA 1311; 1		25				
	Pace Ana	lytical Service	es - Green Ba	У					
Lead	<0.0059	mg/L	0.020	0.0059	1	11/15/22 11:13	11/15/22 20:42	7439-92-1	
7471 Mercury	Analytical	Method: EPA	7471 Prepa	ration Metho	od: EP	A 7471			
-	Pace Ana	lytical Service	es - Green Ba	у					
Mercury	0.10	mg/kg	0.036	0.010	1	11/15/22 07:05	11/16/22 09:44	7439-97-6	
8270E MSSV PAH by SIM	Analytical	Method: EPA	8270E by SI	M Prenarat	ion Me	ethod: EPA 3546			
	-		es - Green Ba						
Acenaphthene	28.0J	ug/kg	109	14.2	4	11/11/22 07:59	11/11/22 17:19	83-32-9	
Acenaphthylene	15.4J	ug/kg	109	13.8	4	11/11/22 07:59	11/11/22 17:19	208-96-8	
Anthracene	86.4J	ug/kg	109	13.6	4	11/11/22 07:59	11/11/22 17:19	120-12-7	
Benzo(a)anthracene	218	ug/kg	109	14.1	4	11/11/22 07:59	11/11/22 17:19	56-55-3	
Benzo(a)pyrene	104J	ug/kg	109	12.4	4	11/11/22 07:59	11/11/22 17:19	50-32-8	
Benzo(b)fluoranthene	151	ug/kg	109	15.2	4	11/11/22 07:59	11/11/22 17:19	205-99-2	
Benzo(g,h,i)perylene	89.4J	ug/kg	109	19.2	4	11/11/22 07:59	11/11/22 17:19		
Benzo(k)fluoranthene	40.3J	ug/kg	109	14.0	4	11/11/22 07:59	11/11/22 17:19		
Chrysene	284	ug/kg	109	20.6	4	11/11/22 07:59	11/11/22 17:19		
Dibenz(a,h)anthracene	32.8J	ug/kg	109	15.1	4	11/11/22 07:59	11/11/22 17:19		
Fluoranthene	522	ug/kg	109	12.9	4	11/11/22 07:59	11/11/22 17:19	206-44-0	

REPORT OF LABORATORY ANALYSIS



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Sample: OAK PROFILE	Lab ID: 40254495001	Collected: 11/09/22 13:00	Received: 11/10/22 08:15	Matrix: Solid
Results reported on a "dry weight" ba	asis and are adjusted for p	ercent moisture, sample siz	e and any dilutions.	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV PAH by SIM	Analytical	Method: EPA	8270E by SI	M Prepara	tion Me	ethod: EPA 3546			
-	Pace Anal	ytical Service	es - Green Bay	/					
Fluorene	21.2J	ug/kg	109	13.1	4	11/11/22 07:59	11/11/22 17:19	86-73-7	
Indeno(1,2,3-cd)pyrene	50.9J	ug/kg	109	22.8	4	11/11/22 07:59	11/11/22 17:19		
1-Methylnaphthalene	134	ug/kg	109	16.0	4	11/11/22 07:59	11/11/22 17:19		
2-Methylnaphthalene	281	ug/kg	109	16.0	4	11/11/22 07:59	11/11/22 17:19		
Naphthalene	266	ug/kg	109	10.7	4	11/11/22 07:59	11/11/22 17:19	91-20-3	
Phenanthrene	889	ug/kg	109	12.5	4	11/11/22 07:59	11/11/22 17:19	85-01-8	
Pyrene	370	ug/kg	109	16.1	4	11/11/22 07:59	11/11/22 17:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%	41-98		4	11/11/22 07:59	11/11/22 17:19	321-60-8	
Terphenyl-d14 (S)	78	%	37-106		4	11/11/22 07:59	11/11/22 17:19	1718-51-0	
8260 MSV Med Level Normal List	Analytical	Method: EPA	8260 Prepar	ation Meth	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay	/					
Benzene	<15.5	ug/kg	26.0	15.5	1	11/11/22 07:30	11/11/22 16:05	71-43-2	
Bromobenzene	<25.4	ug/kg	65.1	25.4	1	11/11/22 07:30	11/11/22 16:05	108-86-1	
Bromochloromethane	<17.8	ug/kg	65.1	17.8	1	11/11/22 07:30	11/11/22 16:05	74-97-5	
Bromodichloromethane	<15.5	ug/kg	65.1	15.5	1	11/11/22 07:30	11/11/22 16:05	75-27-4	
Bromoform	<286	ug/kg	325	286	1	11/11/22 07:30	11/11/22 16:05	75-25-2	
Bromomethane	<91.3	ug/kg	325	91.3	1	11/11/22 07:30	11/11/22 16:05	74-83-9	
n-Butylbenzene	<29.8	ug/kg	65.1	29.8	1	11/11/22 07:30	11/11/22 16:05	104-51-8	
sec-Butylbenzene	<15.9	ug/kg	65.1	15.9	1	11/11/22 07:30	11/11/22 16:05	135-98-8	
tert-Butylbenzene	<20.4	ug/kg	65.1	20.4	1	11/11/22 07:30	11/11/22 16:05	98-06-6	
Carbon tetrachloride	<14.3	ug/kg	65.1	14.3	1	11/11/22 07:30	11/11/22 16:05	56-23-5	
Chlorobenzene	<7.8	ug/kg	65.1	7.8	1	11/11/22 07:30	11/11/22 16:05	108-90-7	
Chloroethane	<27.5	ug/kg	325	27.5	1	11/11/22 07:30	11/11/22 16:05	75-00-3	
Chloroform	<46.6	ug/kg	325	46.6	1	11/11/22 07:30	11/11/22 16:05	67-66-3	
Chloromethane	<24.7	ug/kg	65.1	24.7	1	11/11/22 07:30	11/11/22 16:05	74-87-3	
2-Chlorotoluene	<21.1	ug/kg	65.1	21.1	1	11/11/22 07:30	11/11/22 16:05		
4-Chlorotoluene	<24.7	ug/kg	65.1	24.7	1	11/11/22 07:30	11/11/22 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	<50.5	ug/kg	325	50.5	1	11/11/22 07:30	11/11/22 16:05	96-12-8	
Dibromochloromethane	<223	ug/kg	325	223	1	11/11/22 07:30	11/11/22 16:05	124-48-1	
1,2-Dibromoethane (EDB)	<17.8	ug/kg	65.1	17.8	1	11/11/22 07:30	11/11/22 16:05	106-93-4	
Dibromomethane	<19.3	ug/kg	65.1	19.3	1	11/11/22 07:30	11/11/22 16:05	74-95-3	
1,2-Dichlorobenzene	<20.2	ug/kg	65.1	20.2	1	11/11/22 07:30	11/11/22 16:05		
1,3-Dichlorobenzene	<17.8	ug/kg	65.1	17.8	1	11/11/22 07:30	11/11/22 16:05		
1,4-Dichlorobenzene	<17.8	ug/kg	65.1	17.8	1	11/11/22 07:30	11/11/22 16:05		
Dichlorodifluoromethane	<28.0	ug/kg	65.1	28.0	1	11/11/22 07:30	11/11/22 16:05		
1,1-Dichloroethane	<16.7	ug/kg	65.1	16.7	1	11/11/22 07:30	11/11/22 16:05		
1,2-Dichloroethane	<15.0	ug/kg	65.1	15.0	1	11/11/22 07:30	11/11/22 16:05		
1,1-Dichloroethene	<21.6	ug/kg	65.1	21.6	1	11/11/22 07:30	11/11/22 16:05		
cis-1,2-Dichloroethene	<13.9	ug/kg	65.1	13.9	1	11/11/22 07:30	11/11/22 16:05		
trans-1,2-Dichloroethene	<14.1	ug/kg	65.1	14.1	1	11/11/22 07:30	11/11/22 16:05		
1,2-Dichloropropane	<15.5	ug/kg	65.1	15.5	1	11/11/22 07:30	11/11/22 16:05		
1,3-Dichloropropane	<14.2	ug/kg	65.1	14.2	1	11/11/22 07:30	11/11/22 16:05	142-28-9	



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

Sample: OAK PROFILE	Lab ID: 40254495001	Collected: 11/09/22 13:00	Received: 11/10/22 08:15	Matrix: Solid
Results reported on a "dry weight" ba	asis and are adjusted for p	ercent moisture, sample siz	e and any dilutions.	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical	Method: EPA	A 8260 Prepara	ation Metho	od: EP	A 5035/5030B			
	Pace Anal	ytical Service	es - Green Bay						
2,2-Dichloropropane	<17.6	ug/kg	65.1	17.6	1	11/11/22 07:30	11/11/22 16:05	594-20-7	
1,1-Dichloropropene	<21.1	ug/kg	65.1	21.1	1	11/11/22 07:30	11/11/22 16:05	563-58-6	
cis-1,3-Dichloropropene	<43.0	ug/kg	325	43.0	1	11/11/22 07:30	11/11/22 16:05	10061-01-5	
trans-1,3-Dichloropropene	<186	ug/kg	325	186	1	11/11/22 07:30	11/11/22 16:05	10061-02-6	
Diisopropyl ether	<16.1	ug/kg	65.1	16.1	1	11/11/22 07:30	11/11/22 16:05	108-20-3	
Ethylbenzene	<15.5	ug/kg	65.1	15.5	1	11/11/22 07:30	11/11/22 16:05	100-41-4	
Hexachloro-1,3-butadiene	<129	ug/kg	325	129	1	11/11/22 07:30	11/11/22 16:05	87-68-3	
Isopropylbenzene (Cumene)	<17.6	ug/kg	65.1	17.6	1	11/11/22 07:30	11/11/22 16:05	98-82-8	
p-lsopropyltoluene	<19.8	ug/kg	65.1	19.8	1	11/11/22 07:30	11/11/22 16:05		
Methylene Chloride	<18.1	ug/kg	65.1	18.1	1	11/11/22 07:30	11/11/22 16:05	75-09-2	
Methyl-tert-butyl ether	<19.1	ug/kg	65.1	19.1	1	11/11/22 07:30	11/11/22 16:05	1634-04-4	
Naphthalene	33.7J	ug/kg	325	20.3	1	11/11/22 07:30	11/11/22 16:05	91-20-3	
n-Propylbenzene	<15.6	ug/kg	65.1	15.6	1	11/11/22 07:30	11/11/22 16:05	103-65-1	
Styrene	<16.7	ug/kg	65.1	16.7	1	11/11/22 07:30	11/11/22 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	<15.6	ug/kg	65.1	15.6	1	11/11/22 07:30	11/11/22 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	<23.6	ug/kg	65.1	23.6	1	11/11/22 07:30	11/11/22 16:05	79-34-5	
Tetrachloroethene	44.4J	ug/kg	65.1	25.3	1	11/11/22 07:30	11/11/22 16:05	127-18-4	
Toluene	66.0	ug/kg	65.1	16.4	1	11/11/22 07:30	11/11/22 16:05	108-88-3	
1,2,3-Trichlorobenzene	<72.5	ug/kg	325	72.5	1	11/11/22 07:30	11/11/22 16:05	87-61-6	
1,2,4-Trichlorobenzene	<53.6	ug/kg	325	53.6	1	11/11/22 07:30	11/11/22 16:05	120-82-1	
1,1,1-Trichloroethane	<16.7	ug/kg	65.1	16.7	1	11/11/22 07:30	11/11/22 16:05	71-55-6	
1,1,2-Trichloroethane	<23.7	ug/kg	65.1	23.7	1	11/11/22 07:30	11/11/22 16:05	79-00-5	
Trichloroethene	<24.3	ug/kg	65.1	24.3	1	11/11/22 07:30	11/11/22 16:05	79-01-6	
Trichlorofluoromethane	<18.9	ug/kg	65.1	18.9	1	11/11/22 07:30	11/11/22 16:05	75-69-4	
1,2,3-Trichloropropane	<31.6	ug/kg	65.1	31.6	1	11/11/22 07:30	11/11/22 16:05	96-18-4	
1,2,4-Trimethylbenzene	27.5J	ug/kg	65.1	19.4	1	11/11/22 07:30	11/11/22 16:05	95-63-6	
1,3,5-Trimethylbenzene	<21.0	ug/kg	65.1	21.0	1	11/11/22 07:30	11/11/22 16:05	108-67-8	
Vinyl chloride	<13.1	ug/kg	65.1	13.1	1	11/11/22 07:30	11/11/22 16:05	75-01-4	
m&p-Xylene	39.3J	ug/kg	130	27.5	1	11/11/22 07:30	11/11/22 16:05	179601-23-1	
o-Xylene	19.6J	ug/kg	65.1	19.5	1	11/11/22 07:30	11/11/22 16:05	95-47-6	
Surrogates									
Toluene-d8 (S)	116	%	69-153		1	11/11/22 07:30	11/11/22 16:05		
4-Bromofluorobenzene (S)	118	%	68-156		1	11/11/22 07:30		460-00-4	
1,2-Dichlorobenzene-d4 (S)	118	%	71-161		1	11/11/22 07:30	11/11/22 16:05	2199-69-1	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
	Pace Anal	ytical Service	es - Green Bay						
Percent Moisture	13.1	%	0.10	0.10	1		11/10/22 15:41		

REPORT OF LABORATORY ANALYSIS



Project: Pace Project No.:	58217147 FMR 40254495	LOEBS LORMAN										
QC Batch:	431480		Anal	ysis Metho	od: I	EPA 7471						
QC Batch Method:	EPA 7471		Anal	ysis Descr	iption:	7471 Mercu	iry					
			Labo	oratory:		Pace Analy	ical Servic	es - Green	Bay			
Associated Lab Sar	mples: 4025449	95001		-		-			-			
METHOD BLANK:	2484866			Matrix: S	olid							
Associated Lab Sar	mples: 4025449	5001										
			Bla	nk	Reporting							
Parar	meter	Units	Res	ult	Limit	Anal	yzed	Qualifier	s			
Mercury		mg/kg		<0.010	0.03	5 11/16/2	2 08:44					
LABORATORY CO	NTROL SAMPLE:	2484867										
-			Spike		CS	LCS	% R		o ""			
Parai	neter	Units	Conc.	Re	sult	% Rec	Limi	ts	Qualifiers	_		
Mercury		mg/kg	0.8	33	0.85	10	2 8	85-115				
		JPLICATE: 2484	868		2484869)						
MATRIX SPIKE & M			140	MSD								
MATRIX SPIKE & M			MS	NIGD								
MATRIX SPIKE & N		40254623002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
MATRIX SPIKE & N Paramete				-	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual

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.



EPA 6010D

6010D MET

Pace Analytical Services - Green Bay

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.:	40254495
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METHOD BLANK: 2484290

QC Batch:	431335

QC Batch Method:	EPA 3050B

Associated Lab Samples: 40254495001

Matrix: Solid

Laboratory:

Analysis Method:

Analysis Description:

Associated Lab Samples: 40254495001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	11/15/22 19:02	
Barium	mg/kg	<0.15	0.50	11/15/22 19:02	
Cadmium	mg/kg	<0.13	0.50	11/15/22 19:02	
Chromium	mg/kg	<0.28	1.0	11/15/22 19:02	
Lead	mg/kg	<0.60	2.0	11/15/22 19:02	
Selenium	mg/kg	<1.3	4.0	11/15/22 19:02	
Silver	mg/kg	<0.31	1.0	11/15/22 19:02	

LABORATORY CONTROL SAMPLE: 2484291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	23.8	95	80-120	
Barium	mg/kg	25	24.2	97	80-120	
Cadmium	mg/kg	25	24.8	99	80-120	
Chromium	mg/kg	25	24.5	98	80-120	
Lead	mg/kg	25	25.4	102	80-120	
Selenium	mg/kg	25	24.7	99	80-120	
Silver	mg/kg	12.5	12.8	102	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 2484	292		2484293							
			MS	MSD								
	4	0254437003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	mg/kg	<17.2	58.9	59.1	58.0	55.7	97	93	75-125	4	20	
Barium	mg/kg	123	58.9	59.1	184	179	104	95	75-125	3	20	
Cadmium	mg/kg	<1.6	58.9	59.1	57.4	56.3	97	95	75-125	2	20	
Chromium	mg/kg	22.7	58.9	59.1	82.4	81.1	101	99	75-125	2	20	
Lead	mg/kg	17.6J	58.9	59.1	72.4	70.9	93	90	75-125	2	20	
Selenium	mg/kg	<15.4	58.9	59.1	42.7J	40.2J	72	68	75-125		20	M0
Silver	mg/kg	<3.6	29.3	29.6	28.3	27.9	92	90	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS



Project: 58217147 FMR LOEE	S LORMAN					
Pace Project No.: 40254495						
QC Batch: 431529		Analysis Me	thod:	EPA 6010D		
QC Batch Method: EPA 3015A		Analysis De		6010D MET TCL	P	
		Laboratory:		Pace Analytical S	Services - Gree	en Bay
Associated Lab Samples: 40254495001						
METHOD BLANK: 2485060		Matrix	Water			
Associated Lab Samples: 40254495001						
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifi	ers
Lead	mg/L	<0.0059	0.02	0 11/15/22 20:7	12	
METHOD BLANK: 2484558		Matrix	Solid			
Associated Lab Samples: 40254495001						
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifi	ers
Lead	mg/L	<0.0059	0.02	0 11/15/22 21:2	28	
METHOD BLANK: 2484559		Matrix	Solid			
Associated Lab Samples: 40254495001						
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifi	ers
Lead	mg/L	<0.0059	0.02	0 11/15/22 20:5	52	
METHOD BLANK: 2484560		Matrix	Solid			
Associated Lab Samples: 40254495001						
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifi	ers
Lead	mg/L	<0.0059	0.02	0 11/15/22 21:4	43	
METHOD BLANK: 2484561		Matrix	Solid			
Associated Lab Samples: 40254495001						
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifi	ers
Lead	mg/L	<0.0059	0.02	0 11/15/22 21:	54	
LABORATORY CONTROL SAMPLE: 24	85061					
_		Spike	LCS	LCS	% Rec	0
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Lead	mg/L	0.28	0.29	104	80-120	

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



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

MATRIX SPIKE SAMPLE:	2	485062	4005	1428001	Calka	MC		MC	% Rec			
Parameter		Units		esult	Spike Conc.	MS Result	9	MS 6 Rec	% Rec		Qualif	ers
Lead		mg/L		<0.0059	0.28	(0.29	105	75-125			
MATRIX SPIKE SAMPLE:	E SAMPLE: 2485063											
Parameter		Units	Result		Spike MS Conc. Result 0.28 0.29		o	MS % Rec	% Rec Limits 75-125		Qualif	ore
Lead		mg/L						102 -			Qualii	
		-										
MATRIX SPIKE & MATRIX SF	PIKE DUPLI			MSD	2485065							
MATRIX SPIKE & MATRIX SF			064 MS Spike	MSD Spike	2485065 MS	MSD	MS	MSD	% Rec		Max	
MATRIX SPIKE & MATRIX SF		CATE: 2485	MS				MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		CATE: 2485 40254594001	MS Spike	Spike	MS	MSD	-	% Rec		RPD 1	RPD	Qual
Parameter	Units mg/L	CATE: 2485 40254594001 Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits		RPD	Qual
Parameter Lead	Units mg/L	CATE: 2485 40254594001 Result 0.0068J	MS Spike Conc. 0.28	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	1	RPD	Qual
Parameter Lead	Units mg/L	CATE: 2485 40254594001 Result 0.0068J	MS Spike Conc. 0.28 40254	Spike Conc. 0.28	MS Result 0.28	MSD Result 0.28	% Rec 99	% Rec 98	Limits 75-125	1 ;	RPD	

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.



Project: 58217147 FMR LOE Pace Project No.: 40254495	EBS LORMAN				
QC Batch: 431231		Analysis Meth	nod: EF	PA 8260	
QC Batch Method: EPA 5035/5030B		Analysis Des	cription: 82	60 MSV Med Level	Normal List
		Laboratory:	•	ace Analytical Servi	
Associated Lab Samples: 4025449500)1	Laboratory.	16	de Analytical Servi	Ces - Oreen Day
METHOD BLANK: 2483168		Matrix:	Solid		
Associated Lab Samples: 4025449500	01				
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
		<12.0	50.0	11/11/22 11:50	
1,1,1,2-Tetrachloroethane	ug/kg ug/kg	<12.0 <12.8	50.0 50.0	11/11/22 11:50	
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	00	<12.8 <18.1	50.0 50.0	11/11/22 11:50	
1,1,2-Trichloroethane	ug/kg ug/kg	<18.2	50.0	11/11/22 11:50	
1,1-Dichloroethane	ug/kg ug/kg	<18.2	50.0	11/11/22 11:50	
1,1-Dichloroethene	ug/kg ug/kg	<12.8	50.0	11/11/22 11:50	
1,1-Dichloropropene	ug/kg	<16.2	50.0	11/11/22 11:50	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	11/11/22 11:50	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	11/11/22 11:50	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	11/11/22 11:50	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	11/11/22 11:50	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	11/11/22 11:50	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	11/11/22 11:50	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	11/11/22 11:50	
1,2-Dichloroethane	ug/kg	<11.5	50.0	11/11/22 11:50	
1,2-Dichloropropane	ug/kg	<11.9	50.0	11/11/22 11:50	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	11/11/22 11:50	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	11/11/22 11:50	
1,3-Dichloropropane	ug/kg	<10.9	50.0	11/11/22 11:50	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	11/11/22 11:50	
2,2-Dichloropropane	ug/kg	<13.5	50.0	11/11/22 11:50	
2-Chlorotoluene	ug/kg	<16.2	50.0	11/11/22 11:50	
4-Chlorotoluene	ug/kg	<19.0	50.0	11/11/22 11:50	
Benzene	ug/kg	<11.9	20.0	11/11/22 11:50	
Bromobenzene	ug/kg	<19.5	50.0	11/11/22 11:50	
Bromochloromethane	ug/kg	<13.7	50.0	11/11/22 11:50	
Bromodichloromethane	ug/kg	<11.9	50.0	11/11/22 11:50	
	//		050	44/44/00 44 50	

<220

<70.1

<11.0

<6.0

<21.1

<35.8

<19.0

<10.7

<33.0

<171

<14.8

<21.5

<12.4

250 11/11/22 11:50

50.0 11/11/22 11:50

250 11/11/22 11:50250 11/11/22 11:50

50.0 11/11/22 11:50

50.0 11/11/22 11:50

250 11/11/22 11:50

250 11/11/22 11:50

50.0 11/11/22 11:50

50.0 11/11/22 11:50

50.0 11/11/22 11:50

11/11/22 11:50

11/11/22 11:50

250

50.0

ug/kg

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

Bromoform

Bromomethane

Chlorobenzene

Chloromethane

Dibromomethane

Diisopropyl ether

Chloroethane

Chloroform

Carbon tetrachloride

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dibromochloromethane

Dichlorodifluoromethane



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

METHOD BLANK: 2483168		Matrix:	Solid		
Associated Lab Samples: 40254495001					
Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	11/11/22 11:50	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	11/11/22 11:50	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	11/11/22 11:50	
m&p-Xylene	ug/kg	<21.1	100	11/11/22 11:50	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	11/11/22 11:50	
Methylene Chloride	ug/kg	<13.9	50.0	11/11/22 11:50	
n-Butylbenzene	ug/kg	<22.9	50.0	11/11/22 11:50	
n-Propylbenzene	ug/kg	<12.0	50.0	11/11/22 11:50	
Naphthalene	ug/kg	<15.6	250	11/11/22 11:50	
o-Xylene	ug/kg	<15.0	50.0	11/11/22 11:50	
p-Isopropyltoluene	ug/kg	<15.2	50.0	11/11/22 11:50	
sec-Butylbenzene	ug/kg	<12.2	50.0	11/11/22 11:50	
Styrene	ug/kg	<12.8	50.0	11/11/22 11:50	
tert-Butylbenzene	ug/kg	<15.7	50.0	11/11/22 11:50	
Tetrachloroethene	ug/kg	<19.4	50.0	11/11/22 11:50	
Toluene	ug/kg	<12.6	50.0	11/11/22 11:50	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	11/11/22 11:50	
trans-1,3-Dichloropropene	ug/kg	<143	250	11/11/22 11:50	
Trichloroethene	ug/kg	<18.7	50.0	11/11/22 11:50	
Trichlorofluoromethane	ug/kg	<14.5	50.0	11/11/22 11:50	
Vinyl chloride	ug/kg	<10.1	50.0	11/11/22 11:50	
1,2-Dichlorobenzene-d4 (S)	%	106	71-161	11/11/22 11:50	
4-Bromofluorobenzene (S)	%	106	68-156	11/11/22 11:50	
Toluene-d8 (S)	%	95	69-153	11/11/22 11:50	

LABORATORY CONTROL SAMPLE: 2483169

	2400100	0 1	1.00	1.00	04 B	
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2490	100	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2730	109	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2390	96	70-130	
1,1-Dichloroethane	ug/kg	2500	2690	107	70-130	
1,1-Dichloroethene	ug/kg	2500	2770	111	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2740	110	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2780	111	70-130	
I,2-Dibromoethane (EDB)	ug/kg	2500	2470	99	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2590	104	70-130	
1,2-Dichloroethane	ug/kg	2500	2470	99	70-130	
1,2-Dichloropropane	ug/kg	2500	2670	107	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2640	106	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
Benzene	ug/kg	2500	2470	99	70-130	
Bromodichloromethane	ug/kg	2500	2580	103	70-130	
Bromoform	ug/kg	2500	2470	99	60-130	

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REPORT OF LABORATORY ANALYSIS



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

LABORATORY CONTROL SAMPLE: 2483169

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Bromomethane	ug/kg	2500	2400	96	45-153	
Carbon tetrachloride	ug/kg	2500	2630	105	70-130	
Chlorobenzene	ug/kg	2500	2510	100	70-130	
Chloroethane	ug/kg	2500	3000	120	55-160	
Chloroform	ug/kg	2500	2460	98	80-120	
Chloromethane	ug/kg	2500	2080	83	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2570	103	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2480	99	70-130	
Dibromochloromethane	ug/kg	2500	2500	100	70-130	
Dichlorodifluoromethane	ug/kg	2500	1190	47	16-83	
Ethylbenzene	ug/kg	2500	2620	105	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2680	107	70-130	
m&p-Xylene	ug/kg	5000	5400	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2680	107	65-130	
Methylene Chloride	ug/kg	2500	2670	107	70-130	
o-Xylene	ug/kg	2500	2710	108	70-130	
Styrene	ug/kg	2500	2690	108	70-130	
Tetrachloroethene	ug/kg	2500	2730	109	70-130	
Toluene	ug/kg	2500	2500	100	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2620	105	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2560	103	70-130	
Trichloroethene	ug/kg	2500	2480	99	70-130	
Trichlorofluoromethane	ug/kg	2500	2840	113	70-130	
Vinyl chloride	ug/kg	2500	2480	99	59-114	
1,2-Dichlorobenzene-d4 (S)	%			105	71-161	
4-Bromofluorobenzene (S)	%			111	68-156	
Toluene-d8 (S)	%			97	69-153	

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.



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.:	40254495
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QC Batch: 431241		Analysis Meth	nod: EF	PA 8082A	
QC Batch Method: EPA 3541		Analysis Deso	cription: 80	82 GCS PCB	
		Laboratory:	Pa	ace Analytical Servi	ces - Green Bay
Associated Lab Samples: 402544	95001				
METHOD BLANK: 2483215		Matrix:	Solid		
Associated Lab Samples: 402544	95001				
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	11/15/22 04:31	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	11/15/22 04:31	
Decachlorobiphenyl (S)	%	84	38-95	11/15/22 04:31	
Tetrachloro-m-xylene (S)	%	85	50-99	11/15/22 04:31	

LABORATORY CONTROL SAMPLE:	2483216					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	414	83	71-104	
Decachlorobiphenyl (S)	%			83	38-95	
Tetrachloro-m-xylene (S)	%			84	50-99	

MATRIX SPIKE & MATRIX SI	PIKE DUPLIC	CATE: 2483	217		2483218							
	4	0254488001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	
PCB-1221 (Aroclor 1221)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	
PCB-1232 (Aroclor 1232)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	
PCB-1242 (Aroclor 1242)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	
PCB-1248 (Aroclor 1248)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	
PCB-1254 (Aroclor 1254)	ug/kg	<0.018 mg/kg			<18.2	<18.2					20	

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REPORT OF LABORATORY ANALYSIS



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

MATRIX SPIKE & MATRIX SP		CATE: 2483	217		2483218							
	4	0254488001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
PCB-1260 (Aroclor 1260)	ug/kg	0.025J mg/kg	600	597	456	450	72	71	42-109	1	20	
Decachlorobiphenyl (S) Tetrachloro-m-xylene (S)	% %						72 77	75 78	38-95 50-99			

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REPORT OF LABORATORY ANALYSIS



58217147 FMR LOEBS LORMAN Project:

Fluorene

Naphthalene

Indeno(1,2,3-cd)pyrene

Pace Project No.: 40254495									
QC Batch: 431222		Analysis Meth	nod: E	PA 8270E by SIM					
QC Batch Method: EPA 3546		Analysis Des	cription: 8	3270E/3546 MSSV P	AH by SIM				
		Laboratory:	F	Pace Analytical Services - Green Bay					
Associated Lab Samples: 40254495001				,					
METHOD BLANK: 2483131		Matrix:	Solid						
Associated Lab Samples: 40254495001									
		Blank	Reporting						
Parameter	Units	Result	Limit	Analyzed	Qualifiers				
1-Methylnaphthalene	ug/kg	<2.4	16.7	7 11/11/22 10:44					
2-Methylnaphthalene	ug/kg	<2.4	16.7	7 11/11/22 10:44					
Acenaphthene	ug/kg	<2.2	16.7	7 11/11/22 10:44					
Acenaphthylene	ug/kg	<2.1	16.7	7 11/11/22 10:44					
Anthracene	ug/kg	<2.1	16.7	7 11/11/22 10:44					
Benzo(a)anthracene	ug/kg	<2.2	16.7	7 11/11/22 10:44					
Benzo(a)pyrene	ug/kg	<1.9	16.7	7 11/11/22 10:44					
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	7 11/11/22 10:44					
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	7 11/11/22 10:44					
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	7 11/11/22 10:44					
Chrysene	ug/kg	<3.2	16.7	7 11/11/22 10:44					
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	7 11/11/22 10:44					
Fluoranthene	ug/kg	<2.0	16.7	7 11/11/22 10:44					

<2.0

<3.5

<1.6

16.7 11/11/22 10:44

16.7 11/11/22 10:44

16.7 11/11/22 10:44

Phenanthrene	ug/kg	<1.9	16.7	11/11/22 10:44
Pyrene	ug/kg	<2.5	16.7	11/11/22 10:44
2-Fluorobiphenyl (S)	%	94	41-98	11/11/22 10:44
Terphenyl-d14 (S)	%	101	37-106	11/11/22 10:44

ug/kg ug/kg

ug/kg

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-Methylnaphthalene	ug/kg	333	257	77	64-110	
2-Methylnaphthalene	ug/kg	333	263	79	60-110	
Acenaphthene	ug/kg	333	269	81	69-120	
Acenaphthylene	ug/kg	333	285	86	63-120	
Anthracene	ug/kg	333	274	82	71-112	
Benzo(a)anthracene	ug/kg	333	283	85	62-120	
Benzo(a)pyrene	ug/kg	333	280	84	71-111	
Benzo(b)fluoranthene	ug/kg	333	274	82	59-112	
Benzo(g,h,i)perylene	ug/kg	333	300	90	64-115	
Benzo(k)fluoranthene	ug/kg	333	259	78	72-117	
Chrysene	ug/kg	333	303	91	75-120	
Dibenz(a,h)anthracene	ug/kg	333	303	91	67-114	
luoranthene	ug/kg	333	315	94	70-110	
luorene	ug/kg	333	301	90	64-104	
ndeno(1,2,3-cd)pyrene	ug/kg	333	286	86	71-114	

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REPORT OF LABORATORY ANALYSIS



Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

LABORATORY CONTROL SAMPLE: 2483132

Parameter Units Conc. Result % Rec Limits Qualifie	ualifiers
laphthalene ug/kg 333 272 82 62-120	
henanthrene ug/kg 333 260 78 59-106	
lyrene ug/kg 333 259 78 69-120	
-Fluorobiphenyl (S) % 93 41-98	
erphenyl-d14 (S) % 92 37-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2483133 2483134												
			MS	MSD								
	4	0254178001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/kg	<2.6	350	350	215	258	62	74	51-110	18	34	
2-Methylnaphthalene	ug/kg	<2.6	350	350	228	267	65	76	45-110	16	29	
Acenaphthene	ug/kg	<2.3	350	350	244	297	70	85	52-120	20	26	
Acenaphthylene	ug/kg	<2.2	350	350	255	301	73	86	46-120	17	22	
Anthracene	ug/kg	<2.2	350	350	245	294	70	84	50-112	18	25	
Benzo(a)anthracene	ug/kg	<2.3	350	350	259	307	74	88	41-120	17	37	
Benzo(a)pyrene	ug/kg	<2.0	350	350	256	306	73	87	44-114	18	33	
Benzo(b)fluoranthene	ug/kg	<2.4	350	350	232	278	66	79	41-112	18	43	
Benzo(g,h,i)perylene	ug/kg	<3.1	350	350	256	305	73	87	40-115	18	36	
Benzo(k)fluoranthene	ug/kg	<2.2	350	350	250	333	71	95	56-117	29	30	
Chrysene	ug/kg	<3.3	350	350	257	305	73	87	45-120	17	28	
Dibenz(a,h)anthracene	ug/kg	<2.4	350	350	259	317	74	91	44-114	20	33	
Fluoranthene	ug/kg	<2.1	350	350	295	348	84	99	55-110	17	43	
Fluorene	ug/kg	<2.1	350	350	267	312	76	89	47-104	15	27	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.6	350	350	259	315	74	90	45-114	19	33	
Naphthalene	ug/kg	<1.7	350	350	252	296	72	85	47-120	16	26	
Phenanthrene	ug/kg	<2.0	350	350	237	281	68	80	38-106	17	24	
Pyrene	ug/kg	<2.6	350	350	227	271	65	77	51-120	18	41	
2-Fluorobiphenyl (S)	%						80	90	41-98			
Terphenyl-d14 (S)	%						77	92	37-106			

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Project: Pace Project No.:	58217147 FMR LOEB 40254495	S LORMAN							
QC Batch:	431182		Analysis Meth	iod:	ASTM D2974-	87			
QC Batch Method:	ASTM D2974-87		Analysis Desc Laboratory:	cription:	Dry Weight/Pe Pace Analytica			n Bav	
Associated Lab Sa	mples: 40254495001				1 acc / 11a. j 100			,	
SAMPLE DUPLICA	ATE: 2482978								
Para	meter	Units	40254522010 Result	Dup Result	RPD		Max RPD	Qualifiers	
Percent Moisture		%	25.4	2	3.7	7	1	0	

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QUALIFIERS

Project: 58217147 FMR LOEBS LORMAN

Pace Project No.: 40254495

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

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 58217147 FMR LOEBS LORMAN

 Pace Project No.:
 40254495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40254495001	OAK PROFILE	EPA 3541	431241	EPA 8082A	431274
40254495001	OAK PROFILE	EPA 3050B	431335	EPA 6010D	431416
40254495001	OAK PROFILE	EPA 3015A	431529	EPA 6010D	431572
40254495001	OAK PROFILE	EPA 7471	431480	EPA 7471	431555
40254495001	OAK PROFILE	EPA 3546	431222	EPA 8270E by SIM	431255
40254495001	OAK PROFILE	EPA 5035/5030B	431231	EPA 8260	431238
40254495001	OAK PROFILE	ASTM D2974-87	431182		

Relinquished by/Company: (Signature) Date, ////////////////////////////////////	·	Customer Remarks / Special Conditions / Possible Hazards:		Clar Profile S G	Product (P), Soil/ Soild (SL), Ull (UL), Wipe (WP), Air (AK), Iissue (TS), Bioassay (B), Vapor (V), Other (U1) Customer Sample ID Matrix * Comp / Collected (or Composite End Customer Sample ID Matrix * Grab Composite Start) Composite End Date Time Date Time	Sample Dispose as appropriate [] Return [] Same Day [] Next Day [] Yes [] No McDispose as appropriate [] Return [] Same Day [] Next Day [] Yes [] No [] Jarchive: [] Z Day [] 3 Day [] 4 Day [] Same Day [] Yes [] No [] Jarchive: [] Pes [] No [] Pes [] No [] No [] Hold: [] Analysis: [] Analysis: [] Hold: [] Analysis: [] Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),	ti MCICL ature): UKUCL		Ľ	Chappe	Aralian	Pace Analytical CHAIN-OF-CUS
Date/Time: Received by/Company: (Signature)	Used: (s) screeped (<500 cpm): Y	Type of Ice Used: Wet Blue Dry None			Sue (1S), Bioassay (B), Vapor (V), Other (U1) Collected (or Composite Start) Date Time Date Time	[] Next Day [] Yes [] No [] 4 Day [] 5 Day [] Yes [] No arges Apply) Analysis:	(ATSD)	Compliance Monitoring? [] Yes [] No	State: County/City: Time Zone Collected: W1 / FH AHCINSU [] PT [] MT N CT [] ET	Site Collection Info/Address:		CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields Billing Information:
Date/Time: MTJL LAB USE ONLY Date/Time: Table #: Date/Time: Acctnum: Date/Time: Prelogin: Date/Time: Prelogin: Date/Time: PK:	2763998 via: 'S Client Courier Pa	SHORT HOLDS PRESENT (<72 hours): Y N N/A		X X X X W	PAH PCB PCC FCC	P Lea	04 - C	Custody Collect		** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (8) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other	Container Preservative Type ** Lab Project Manager:	LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-In Number Here
Comments: Trip Blank Rudwed: Y N NA HCL MeOH TSP Other Non Conformance(s): Page: 1 VES / NO of: 1	Temp Blank Received Y N NA Therm ID#:OC Cooler 1 Temp Upon ReceiptOC Cooler 1 Therm Corr. Factor:OC Cooler 1 Corrected Textor:OC	Lab Sample Temperature Info:	0	0	de Mar: Ingle # // Comments:	cl strips: Sample pH Acceptible Y N NA pH Strips: Sulfide predent Y N NA Sulfide predent Y N NA Lead Accepted Strips:		res Present Y N ture Present Y N Y N	Custody Seals Present/Intact Y N No.	sodium hydroxide, (5) zinc acetate, -rbic acid, (8) ammonium sulfate, 	TOR LAB USE UNLY Lab Project Manager:	st Pace Workorder Number or e

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form Effective Date: 8/16/2022

BP3S

250 mL plastic H2SO4

BP2Z 500 mL plastic NaOH + Zn

Client Name: Terror The Checked and noted below: Sample Preservation Receipt Form 4495																																	
All co	ontaine	rs need	ing pre	eservat	ion ha	ave be	erf ch				below: paper:		□Ye	S	□No)	b Std	4					sted):						tial wh mplete			Date/ Time:	
Pace	AG1U	BG1U	Gla:		AG2S	BG3U	10		Plast		35	2Z	VG9C	9Т	Vi: N6	als H69A	VG9M	9D	FU		ars MGFU	WPFU	51	Gen O	-	2	/OA Vials (>6mm) *	12SO4 pH ≤2	laOH+Zn Act pH ≥9	VaOH pH ≥12	HNO3 pH ≤2	after adjusted	Volume (mL)
Lab #	AG AG	6 6 7 7 7 7 7	AG4S	0 V	_Q ₽	BG	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	5	DG9T	VG9U	5		VG9D	JGFU	JG9U	Ň	WP	SP5T	ZPLC	0 S	N U U	VOA	H2S	NaOF	NaO	HNC	рНа	
001			1814 AND 1714 AND ADD	10.004 (N 2.1024 (N 10.0044) * 1.104	d size i ministra presidente de												2		Ì		,	Ì											2.5/5
002	\mathbf{X}																0.000															(Cale)	2.5/5
003	106100001 917				iet sakelind				1 (1.11) 1 (1.11)		ti halatatati da					E BERNER HERED	E PRESENTATION					elles des tessos						61478746548576		SIMULT	CHANNESS WEEK		2.5/5
004											114.4		4,9234	to itely in								-low	400		dia i	dei 1		a de a di	1.540		in the second second	hi (sta	2.5/5
005			atore de la la	angi sheratariya			00.7920				8 98.409999	Cististatoria	r en same		ALC: UNK			in the second	olegia figura		後的運動						SMOOTIN		11 (J.S. & J.				2.5/5
006				8.943										朝鮮	的感觉										197 a. 199	8. S. S.			221				2.5/5
007		inter al dei			R datai			80.8.30		Alen-														20.000	issisata na d			n ka si		IN DRIVE			2.5/5
008									100				ille and a	. b k k		DECLA							PLATE AND										2.5/5
009 010										9. a. a.		di statione	Dis and												1.	205 100 00	de conte	ana n		Walada			2.5/5
010							i	1.11														H tella									. internet		2.5/5
012			a h			htis	22	1. 19 10	a di di di														In the base	289.8								and a second	2.5/5
013							. Sloei Hit	di shekhi						tive States	MARK.								de persez		habababas	ne kontra				alabatas.			2.5/5
014				K la la															X	i.e.a	. Idi d												2.5/5
015			unt had es											CORE CREATE				di sandi san		\sim								in lines					2.5/5
016													dig- e		北南南市	4.84						E & #	15-04 APA	23.544	i Sissi				1. Carl		0.036		2.5/5
017									T SRUDDERCON																1202000-200						let if his die	1-00-02-02-0	2.5/5
018					(K	(USPA			100								334					1 June 1		V					4.11				2.5/5
019											an ann an Nacad Bill	CONTRACTOR A CONTRACTOR		CAN DE LA CANADA							ERK NEO'REVIEW	AND ANALY IN				NEW OWNER!							2.5/5
020				i King			karat 2					a a a a																			ang at a		2.5/5
Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : Yes No + 1 yes look in headspace column																																	
AG1U	1 liter	amber	glass			BF	P1U	1 lite	r plas	tic un	pres				V	39C	40 m	L clea	r asc	orbic	w/ HC		JG	FU	4 oz	ambe	r iar u	npres				1	
BG1U	1 liter	clear g	lass				P 3U				unpres	S				39T		L amb							9 oz		•						
AG1H					~		P3B				NaOH					39U		L clea			es			FU		clearj						l	
AG4S		L ambo	•	s H2S	04		P3N				HNO3				l ve	39H		L clea		HCL			WF	PFU	4 oz	plastic	c jar u	npres				1	

Page <u>1</u> of <u>2</u>

AG5U 100 mL amber glass unpres AG2S 500 mL amber glass H2SO4

BG3U 250 mL clear glass unpres

40 mL clear vial DI

40 mL clear vial MeOH

SP5T

ZPLC

GN 1

GN 2

ziploc bag

120 mL plastic Na Thiosulfate

VG9M

VG9D

Sample Condition Upon Receipt Form (SCUR)

			Project #:
Client Name: Terralun			WO# : 40254495
Courier: CS Logistics Fed Ex Speedee		s 🗖 W	
Client Pace Other:			
Tracking #:			40254495
Custody Seal on Cooler/Box Present: Pyes		ls intact:	yes no
Custody Seal on Samples Present: 🚺 yes En			yes - To
Packing Material: Bubble Wrap Bubble Thermometer Used SR - 120	-		Blue Dry None Meltwater Only
Cooler Temperature Uncorr: //Corr: /	Type of Ico	wei	Person examining contents:
Temp Blank Present: ves fro	Biol	 ogical ٦	Fissue is Frozen: ☐ yes ☐ no Date: 1022/Initials: mt
Temp should be above freezing to 6°C.			(4)
Biota Samples may be received at ≤ 0°C if shipped on Dry	/		Labeled By Initials:
Chain of Custody Present:	Yes 🗆 No	DN/A	1.
Chain of Custody Filled Out:		□N/A	2. phoneff mH 1110122
Chain of Custody Relinquished:	Yes 🗆 No	D □N/A	3.
Sampler Name & Signature on COC:	Yes 🗆 No	> □N/A	4
Samples Arrived within Hold Time:	Yes 🗆 No)	5.
- DI VOA Samples frozen upon receipt	□Yes □No)	Date/Time:
Short Hold Time Analysis (<72hr):)	6.
Rush Turn Around Time Requested:		5	7.
Sufficient Volume:			8.
For Analysis: Pres INo MS/MSD:		- T N/A	
Correct Containers Used:	BYes □No)	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace			
Containers Intact:	Hes DNC)	10.
Filtered volume received for Dissolved tests	□Yes □No		11.
Sample Labels match COC:	PYes DNO		12.
-Includes date/time/ID/Analysis Matrix:	<u> </u>	<u> </u>	
Trip Blank Present:	□Yes □No	- ⊡№ /A	13.
Trip Blank Custody Seals Present	□Yes □No		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution:			If checked, see attached form for additional comments
Person Contacted:		Date/	
Comments/ Resolution:			

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login Page_2 of 2



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

January 13, 2023

Lucas Chabela Terracon, Inc. - Franklin 4900 S Pennsylvania Ave Ste100 Cudahy, WI 53110

RE: Project: 58217147 FORT ATKINSON Pace Project No.: 40256877

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2023. 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,

Day Milenty

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

Enclosures





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

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 South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A



SAMPLE SUMMARY

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40256877001	OT1-1	Solid	01/10/23 12:05	01/11/23 08:10
40256877002	OT2-1	Solid	01/10/23 12:10	01/11/23 08:10
40256877003	NOT NEEDED	Solid	01/10/23 12:10	01/11/23 08:10



SAMPLE ANALYTE COUNT

 Project:
 58217147 FORT ATKINSON

 Pace Project No.:
 40256877

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40256877001	OT1-1	EPA 6010D	SIS	1	PASI-G
		EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	NMK	1	PASI-G
40256877002	OT2-1	EPA 6010D	SIS	1	PASI-G
		EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	NMK	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40256877001	OT1-1					
EPA 6010D	Lead	496	mg/kg	48.3	01/13/23 12:53	P6,R1
EPA 6010D	Lead	0.19	mg/L	0.020	01/12/23 16:31	
ASTM D2974-87	Percent Moisture	17.1	%	0.10	01/11/23 15:21	
40256877002	OT2-1					
EPA 6010D	Lead	8430	mg/kg	11.6	01/13/23 13:01	
EPA 6010D	Lead	1.8	mg/L	0.020	01/12/23 16:37	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	01/11/23 15:21	



PROJECT NARRATIVE

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

Method: EPA 6010D

Description:6010D MET ICPClient:Terracon, Inc. - FranklinDate:January 13, 2023

General Information:

2 samples were analyzed for EPA 6010D 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 3050B 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.

QC Batch: 435549

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40256877001

R1: RPD value was outside control limits.

• MS (Lab ID: 2505531) • Lead • MSD (Lab ID: 2505532) • Lead

Additional Comments:



PROJECT NARRATIVE

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

Method:EPA 6010DDescription:6010D MET ICP, TCLPClient:Terracon, Inc. - FranklinDate:January 13, 2023

General Information:

2 samples were analyzed for EPA 6010D 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 3015A 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:

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



Project: 58217147 FORT ATKINSON 40256877

Pace Project No.:

Sample: OT1-1	Lab ID:	40256877001	Collected	d: 01/10/23	3 12:05	Received: 01/	/11/23 08:10 Ma	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	e adjusted for	percent mo	oisture, sar	nple s	ize and any dilut	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA	6010D Prep	aration Met	hod: E	PA 3050B			
	Pace Anal	ytical Services	- Green Bay	y					
Lead	496	mg/kg	48.3	14.5	20	01/12/23 06:49	01/13/23 12:53	7439-92-1	P6,R1
6010D MET ICP, TCLP	Analytical	Method: EPA	6010D Prep	aration Met	hod: E	PA 3015A			
	Leachate	Method/Date:	EPA 1311; 0 [.]	1/11/23 13:	57				
	Pace Anal	ytical Services	- Green Bay	y					
Lead	0.19	mg/L	0.020	0.0059	1	01/12/23 11:11	01/12/23 16:31	7439-92-1	
Percent Moisture	Analytical	Method: ASTN	1 D2974-87						
	Pace Anal	ytical Services	- Green Bay	y					
Percent Moisture	17.1	%	0.10	0.10	1		01/11/23 15:21		



Project: 58217147 FORT ATKINSON 40256877

Pace Project No.:

Sample: OT2-1	Lab ID:	4025687700	2 Collected	l: 01/10/23	3 12:10	Received: 01/	/11/23 08:10 Ma	atrix: Solid	
Results reported on a "dry weig	ght" basis and are	e adjusted fo	or percent mo	isture, sar	nple s	ize and any dilut	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA	6010D Prepa	aration Met	hod: E	PA 3050B			
	Pace Anal	ytical Service	es - Green Bay	/					
Lead	8430	mg/kg	11.6	3.5	5	01/12/23 06:49	01/13/23 13:01	7439-92-1	
6010D MET ICP, TCLP	Analytical	Method: EPA	6010D Prepa	aration Met	hod: E	PA 3015A			
	Leachate	Method/Date	: EPA 1311; 01	/11/23 13:	57				
	Pace Anal	ytical Service	es - Green Bay	/					
Lead	1.8	mg/L	0.020	0.0059	1	01/12/23 11:11	01/12/23 16:37	7439-92-1	
Percent Moisture	Analytical	Method: AST	M D2974-87						
	Pace Anal	ytical Service	es - Green Bay	/					
Percent Moisture	14.0	%	0.10	0.10	1		01/11/23 15:21		



Project: 582171	47 FORT ATH	KINSON										
Pace Project No.: 402568	77											
QC Batch: 43554	9		Anal	sis Metho	d:	EPA 6010D						
QC Batch Method: EPA 3	050B		Anal	ysis Descri	ption:	6010D MET						
			Labo	ratory:		Pace Analyt	ical Service	es - Green	Bay			
Associated Lab Samples:	4025687700	1, 4025687700	2									
METHOD BLANK: 250552	9			Matrix: So	olid							
Associated Lab Samples:	4025687700	1, 4025687700	2									
			Blai	nk	Reporting							
Parameter		Units	Res	ult	Limit	Analy	/zed	Qualifiers	3			
Lead		mg/kg		<0.60	2	.0 01/13/2	3 12:49					
LABORATORY CONTROL S	SAMPLE: 2	505530										
			Spike	LC	S	LCS	% Re	ec				
Parameter		Units	Conc.	Res	sult	% Rec	Limi	ts (Qualifiers			
Lead		mg/kg	2	25	26.2	10	5 8	30-120		_		
MATRIX SPIKE & MATRIX S		CATE: 2505	531		250553	2						
			MS	MSD								
	4	40256877001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Lead	mg/kg	496	29.9	29.9	1280	632	2630	454	75-125	68	20	P6,R1

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.



Project:	58217 [.]	147 FORT A	TKINSON										
Pace Project No.:	402568	877											
QC Batch:	4355	96		Anal	ysis Metho	od: E	PA 6010D						
QC Batch Method:	1: 435596 1: 435596 1: EPA 3015A 1: EPA 3015A			ysis Desci		010D MET							
					pratory:				/ices - Greer	n Bay			
Associated Lab Sar	nples:	402568770	001, 4025687700										
METHOD BLANK:	250574	45			Matrix: V	Vater							
Associated Lab Sar	nples:	402568770	001, 4025687700	2									
				Bla		Reporting							
Parar	neter		Units	Res	ult	Limit	Anal	yzed	Qualifie	rs			
Lead			mg/L	<	0.0059	0.020	01/12/2	3 15:51					
METHOD BLANK:	250464	40			Matrix: S	Solid							
Associated Lab Sar	nples:	402568770	001, 4025687700	2									
				Bla	nk	Reporting							
Parar	neter		Units	Res	ult	Limit	Anal	yzed	Qualifie	rs			
Lead			mg/L	<	0.0059	0.020	01/12/2	3 16:25					
METHOD BLANK:	250524	41			Matrix: S	Solid							
Associated Lab Sar	nples:	402568770	001, 4025687700	2									
				Bla	nk	Reporting							
Parar	neter		Units	Res	ult	Limit	Anal	yzed	Qualifie	rs			
Lead			mg/L	<	0.0059	0.020	01/12/2	3 16:40					
METHOD BLANK:	250537	73			Matrix: S	Solid							
Associated Lab Sar	nples:	402568770	001, 4025687700	2									
				Bla	nk	Reporting							
Parar	neter		Units	Res	ult	Limit	Anal	yzed	Qualifie	rs			
Lead			mg/L	<	0.0059	0.020	01/12/2	3 16:44					
LABORATORY CO	NTROL	SAMPLE:	2505746										
				Spike	L	CS	LCS	%	Rec				
Parar	neter		Units	Conc.	Re	esult	% Rec	Li	mits	Qualifiers			
Lead			mg/L	0.2	28	0.28	10	1	80-120		_		
MATRIX SPIKE & N	IATRIX	SPIKE DUP	LICATE: 2505	747		2505748							
				MS	MSD								
Paramete	r	Units	40256731010 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead		mg/L		0.28	0.28	0.36	0.32	10	06 93	3 75-125	11	20	
Lead		mg/L	0.061J	0.28	0.28	0.36	0.32	10	93	3 75-125	11	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



Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

MATRIX SPIKE SAMPLE:	2505749						
		40256857001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	mg/L	<0.020	0.28	0.29	102	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.



Project: 58217147 FC	ORT ATKINSON						
Pace Project No.: 40256877							
QC Batch: 435534		Analysis Meth	iod:	ASTM D2974-87			
QC Batch Method: ASTM D297	74-87	Analysis Desc	ription:	Dry Weight/Perc	ent Moisture		
		Laboratory:		Pace Analytical S	Services - Gre	en Bay	
Associated Lab Samples: 4025	6877001, 4025687700	2		-		-	
SAMPLE DUPLICATE: 2505418	3						
		40256879001	Dup		Max		
Parameter	Units	Result	Result	RPD	RPD	Qualifiers	

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.



QUALIFIERS

Project: 58217147 FORT ATKINSON

Pace Project No.: 40256877

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

- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:58217147 FORT ATKINSONPace Project No.:40256877

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40256877001	OT1-1	EPA 3050B	435549	EPA 6010D	435616
40256877002	OT2-1	EPA 3050B	435549	EPA 6010D	435616
40256877001	OT1-1	EPA 3015A	435596	EPA 6010D	435621
40256877002	OT2-1	EPA 3015A	435596	EPA 6010D	435621
40256877001	OT1-1	ASTM D2974-87	435534		
40256877002	OT2-1	ASTM D2974-87	435534		

Pace Analytical* CHAIN-OF-CUSTODY Analytical Request Document Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields								LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here										
	Chain-c	of-Custody			IT - Complet	e all releve	nt fields		1									40256877
Company: Terra Con			Billing Info	T												REAS	are for LAE	BUSE ONLY
Address: 9156 5. 57	# 51. Fr.	nkim	41	[2]	laun				Ы	η	Cont	tainer P	reserva	ative Typ	e **		Lab Project	Manager:
Report To: LUCE> Ch	akela		Email To:	Luca.	, Cha	helen												dium hydroxide, (5) zinc acetate, c acid, (B) ammonium sulfate,
Сору То:			Site Collec	tion Info//	Address:	207 -1	Sont	HEN	10			oxide, ([D) TSP, (U) Unpres				
Customer Project Name/Number:	$\overline{\boldsymbol{\gamma}}$		State:	County/C	ity: Tir	ne Zone Co	llected:		-	Т		<u> </u>	Analyse	25			Lab Profile/ Lab Sam	Line: ple Receipt Checklist:
<u> </u>	T Site/Facility ID	#.	W] PT [] M1		[][]		2								Seals Present/Intact Y N NA Signatures Present Y N NA
Email:	sheyr denity ib	π.			[] Yes	[] No	-			2	ς					L.	Collect	or Signature Present M N NA Intact
Collected By (print). Lucap Chaple	Purchase Orde Quote #:	r#:			DW PWS I DW Locat				0								Correct Suffici	Bottles N NA ent Volume
Collected By signature):	Turnaround Da	ate Require	ed:			ely Packed			で	2						, af	«Samples VOA - H	Received on ICE) Y N NA eadspace Acceptable Y N NA culated Solar Y N NA
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[] Dispose as appropriate [] Return [] Archive:	[]Sau [X]2Day [[] Next Day		[]Yes	[] No											Cl Stri Sample	ph Acceptable Y N NA
[] Hold	(E	xpedite Cha	rges Apply)		Analysis:					1	·* ·		n f	25				Present Y N NA
* Matrix Codes (Insert in Matrix bo Product (P), Soil/Solid (SL), Oil (O		Air (AR), Ti	ssue (TS), B	ioassay (B)					F	010			e e	,1		, .	LAB USE	
Customer Sample ID	Matrix *	Comp / Grab		ted (or site Start) Time	Compo Date	site End Time	Res Cl	# of Ctns				5	ð "	د ب		' 10°	Lab Sam	ple # / Comments:
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Customer Remarks / Special Condit	ions / Possible I	lazards." `				Blue 🗸 "Di	ry 185 No	one	·	SH	ORT HOL	DS PRE	ESENT (<72 hour	's): →Y	'N'	N/A / (),	Lab Sample Temperature Info:
		, • •	Packing N	laterial Use		• •	 N	20.		Lat) Trackin	ו פ #: גייג'	2	7.82	278	39.	α, i i i	Temp Blank Received: Y N NA Therm ID#:Ooler 1 Temp pon Receipt:OC
			Radchem	sample(s)	screened (<	500 cpm):	Y N	i na	<u>م</u>	~ Sar	nples red FEDEX			ient.	Courier	Pa	ce Courier	Cooler 1 Therm Corr. Factor:OC
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Relinquished by/Company: (Signati	ure)	Date	e/Time:		Received b	y/Company	y: (Signat	(urg)			Date/T			PN ₽№	:		5 frag 1	Non Conformance(s): Page: 16 of 18 YES / NO of:

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form Effective Date: 8/16/2022

Client Name: All containers needing preservation have been checked and noted below Lab Lot# of pH paper: Lab Lot# of pH paper: La																																		
				Glass	s]				Lot# (Plast		baper [.]				Via		b Std i	#ID of	prese		ars		isted)	Gen	eral		(>6mm) *	pH ≤2	nplete 67 Hd 57	≥12	52	Idjusted emit	Volume
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	voA Vials	H2SO4 p	NaOH+Zn	NaOH pH	HNO3 PH	pH after adjusted	(mL)
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AG1U BG1U AG1H	1 lite	er cle	ar gla	SS	ICL		В	P3U	1 lite 250 250	mL pl	astic ı	unpre				DC	39C 39T 39U		nL am	ar asc ber N ar vial	a Thio	c		Je		4 oz 9 oz 4 oz	ambe	r jar u	inpres					

AG4S 125 mL amber glass H2SO4

AG5U 100 mL amber glass unpres AG2S 500 mL amber glass H2SO4

BG3U 250 mL clear glass unpres

BP3N

BP3S

BP2Z

250 mL plastic HNO3

250 mL plastic H2SO4 500 mL plastic NaOH + Zn 40 mL clear vial HCL

40 mL clear vial DI

40 mL clear vial MeOH

WPFU

SP5T

ZPLC

GN 1

GN 2

4 oz plastic jar unpres

ziploc bag

120 mL plastic Na Thiosulfate

VG9H

VG9M

VG9D

Page <u>1</u> of <u>2</u>

Sample Condition Upon Receipt Form (SCUR)
Client Name: Terra con W0#:40256877 Courier: CS Logistics Fed Ex Speedee UPS Waltco Client Pace Other: UPS Waltco
Tracking #: 40256877 Custody Seal on Cooler/Box Present: yes intact: Yes intact: yes intact:
Custody Seal on Samples Present: yes I no Seals intact: yes I no
Packing Material: Bubble Wrap D Bubble Bags D None D Other
Thermometer Used SR - // Type of Ice Wat Blue Dry None Meltwater Only
Cooler Temperature Uncorr 1.5 /Corr:
Temp Blank Present: yes no Biological Tissue is Frozen: yes no Date: //nitials.
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:
Chain of Custody Filled Out:
Chain of Custody Relinquished:
Sampler Name & Signature on COC:
Samples Arrived within Hold Time:
- DI VOA Samples frozen upon receipt
Short Hold Time Analysis (<72hr): □Yes ØNo 6.
Rush Turn Around Time Requested:
Sufficient Volume: For Analysis: Aver IN MS/MSD: Dyes INO DN/A B. DO/ approx 1669 002 approx 1393 (2303 need
Correct Containers Used: Dives DNo 9. por highested analysis (-11-2)
Correct Type Pace Green Bay Pace IR, Non-Pace
Containers Intact: ØYes DNo 10.
Filtered volume received for Dissolved tests
Sample Labels match COC:
-Includes date/time/ID/Analysis Matrix:
Trip Blank Present:
Trip Blank Custody Seals Present
Pace Trip Blank Lot # (if purchased):
Client Notification/ Resolution: If checked, see attached form for additional comments Dete/Time: Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login $Page \underbrace{2}_{Of} of \underbrace{2}_{Of} o$



February 02, 2023

Lucas Chabela Terracon, Inc. - Milwaukee 4900 S Pennsylvania Ave Ste100 Cudahy, WI 53110

RE: Project: 58217147 LORMAN ST FT ATKINSON Pace Project No.: 40257481

Dear Lucas Chabela:

Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2023. 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,

Day Milenty

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

Enclosures





CERTIFICATIONS

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

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 South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A



SAMPLE SUMMARY

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40257481001	01SW-1	Solid	01/23/23 09:37	01/25/23 08:00
40257481002	01SW-2	Solid	01/23/23 09:40	01/25/23 08:00
40257481003	01SW-3	Solid	01/23/23 09:42	01/25/23 08:00
40257481004	01SW-4	Solid	01/23/23 09:44	01/25/23 08:00
40257481005	01SW-5	Solid	01/23/23 09:46	01/25/23 08:00
40257481006	01SW-6	Solid	01/23/23 09:48	01/25/23 08:00
40257481007	01SW-8	Solid	01/23/23 09:51	01/25/23 08:00
40257481008	01SW-9	Solid	01/23/23 09:53	01/25/23 08:00
40257481009	01SW-10	Solid	01/23/23 09:55	01/25/23 08:00
40257481010	01B-1	Solid	01/23/23 10:00	01/25/23 08:00
40257481011	01B-2	Solid	01/23/23 10:03	01/25/23 08:00
40257481012	01B-3	Solid	01/23/23 10:07	01/25/23 08:00
40257481013	01B-4	Solid	01/23/23 10:05	01/25/23 08:00
40257481014	01B-5	Solid	01/23/23 10:02	01/25/23 08:00
40257481015	02SW-1	Solid	01/23/23 10:10	01/25/23 08:00
40257481016	02SW-2	Solid	01/23/23 10:12	01/25/23 08:00
40257481017	02SW-3	Solid	01/23/23 10:14	01/25/23 08:00
40257481018	02SW-4	Solid	01/23/23 10:16	01/25/23 08:00
40257481019	02B-1	Solid	01/23/23 10:18	01/25/23 08:00
40257481020	01SW-7	Solid	01/23/23 09:49	01/25/23 08:00



SAMPLE ANALYTE COUNT

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.:	40257481
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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40257481001	01SW-1	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481002	01SW-2	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481003	01SW-3	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481004	01SW-4	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481005	01SW-5	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481006	01SW-6	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481007	01SW-8	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481008	01SW-9	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481009	01SW-10	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481010	01B-1	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481011	01B-2	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481012	01B-3	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481013	01B-4	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481014	01B-5	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481015	02SW-1	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481016	02SW-2	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481017	02SW-3	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481018	02SW-4	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40257481019	02B-1	EPA 6010D	SIS	1	PASI-G



SAMPLE ANALYTE COUNT

Project:58217147 LORMAN ST FT ATKINSONPace Project No.:40257481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	MYH	1	PASI-G
40257481020	01SW-7	EPA 6010D	SIS	1	PASI-G
		ASTM D2974-87	MYH	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay



SUMMARY OF DETECTION

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Lab Sample ID Client Sample ID Method Parameters Result Units Report Limit Analyzed Qualifiers 40257481001 01SW-1 EPA 6010D Lead 8.1 mg/kg 2.4 01/26/23 17:31 ASTM D2974-87 Percent Moisture 16.4 % 0.10 01/26/23 14:30 40257481002 01SW-2 EPA 6010D Lead 18.2 mg/kg 2.5 01/26/23 17:39 ASTM D2974-87 Percent Moisture 23.5 % 0.10 01/26/23 14:30 40257481003 01SW-3 EPA 6010D Lead 1470 mg/kg 5.0 01/27/23 14:09 ASTM D2974-87 Percent Moisture 24.1 01/26/23 14:30 % 0.10 01SW-4 40257481004 EPA 6010D Lead 262 mg/kg 2.5 01/26/23 17:45 ASTM D2974-87 Percent Moisture 25.4 % 0.10 01/26/23 14:30 01SW-5 40257481005 EPA 6010D Lead 146 mg/kg 2.4 01/26/23 17:50 ASTM D2974-87 Percent Moisture 16.3 01/26/23 14:30 % 0.10 40257481006 01SW-6 EPA 6010D Lead 3340 mg/kg 12.8 01/27/23 14:11 ASTM D2974-87 Percent Moisture 25.3 % 01/26/23 14:30 0.10 40257481007 01SW-8 EPA 6010D Lead 2.2 mg/kg 2.1 01/26/23 17:54 ASTM D2974-87 Percent Moisture 5.1 0.10 01/26/23 14:44 % 01SW-9 40257481008 EPA 6010D Lead 51.5 mg/kg 2.6 01/26/23 17:56 ASTM D2974-87 Percent Moisture 27.1 01/26/23 14:44 % 0.10 01SW-10 40257481009 EPA 6010D Lead 18.5 mg/kg 2.4 01/26/23 17:58 ASTM D2974-87 Percent Moisture 17.1 % 0.10 01/26/23 14:44 40257481010 01B-1 EPA 6010D Lead 26.6 mg/kg 2.3 01/26/23 18:00 ASTM D2974-87 Percent Moisture 18.1 % 0.10 01/26/23 14:44 40257481011 01B-2 EPA 6010D 8.4 2.3 01/26/23 18:02 Lead mg/kg ASTM D2974-87 Percent Moisture 13.1 % 0.10 01/26/23 14:44 40257481012 01B-3 26.8 EPA 6010D Lead mg/kg 2.7 01/26/23 18:04 ASTM D2974-87 Percent Moisture 27.8 01/26/23 14:45 % 0.10 40257481013 01B-4 EPA 6010D Lead 28.9 mg/kg 2.4 01/26/23 18:06 ASTM D2974-87 Percent Moisture 01/26/23 14:45 17.5 % 0.10



SUMMARY OF DETECTION

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40257481014	01B-5					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	16.8 20.8	mg/kg %	5.0 0.10	01/30/23 17:41 01/26/23 14:45	
40257481015	02SW-1					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	16400 34.2	mg/kg %	604 0.10	02/01/23 15:55 01/26/23 14:45	P6,R1
40257481016	02SW-2					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	2070 36.1	mg/kg %	3.0 0.10	01/26/23 18:15 01/26/23 14:45	
40257481017	02SW-3					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	23600 25.5	mg/kg %	25.6 0.10	01/30/23 14:56 01/26/23 14:45	
40257481018	02SW-4					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	26700 20.0	mg/kg %	23.7 0.10	01/27/23 14:13 01/26/23 14:45	
40257481019	02B-1					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	29.1 32.1	mg/kg %	2.8 0.10	01/26/23 18:21 01/26/23 14:45	
40257481020	01SW-7					
EPA 6010D ASTM D2974-87	Lead Percent Moisture	6.1 9.8	mg/kg %	2.2 0.10	01/26/23 18:23 01/26/23 14:45	



PROJECT NARRATIVE

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Method:EPA 6010DDescription:6010D MET ICP

Client:Terracon, Inc. - FranklinDate:February 02, 2023

General Information:

20 samples were analyzed for EPA 6010D 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 3050B 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.

QC Batch: 436883

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40257481015

R1: RPD value was outside control limits.

MS (Lab ID: 2511962)
 Lead
 MSD (Lab ID: 2511963)
 Lead

• Lea

Additional Comments:

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



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-1	Lab ID: 4	0257481001	Collected	01/23/23	09:37	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry wei	ight" basis and are a	adjusted for	percent moi	sture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical M	ethod: EPA 6	6010D Prepa	ration Met	hod: E	PA 3050B			
	Pace Analyt	ical Services	- Green Bay						
Lead	8.1	mg/kg	2.4	0.72	1	01/26/23 07:25	01/26/23 17:31	7439-92-1	
Percent Moisture	Analytical M	ethod: ASTN	1 D2974-87						
	Pace Analyt	ical Services	- Green Bay						
Percent Moisture	16.4	%	0.10	0.10	1		01/26/23 14:30		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-2	Lab ID: 4	0257481002	2 Collected	01/23/23	09:40	Received: 01/	25/23 08:00 Ma	atrix: Solid					
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.													
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual				
6010D MET ICP	Analytical M	lethod: EPA	6010D Prepa	ration Met	hod: E	PA 3050B							
	Pace Analyt	ical Services	s - Green Bay										
Lead	18.2	mg/kg	2.5	0.75	1	01/26/23 07:25	01/26/23 17:39	7439-92-1					
Percent Moisture	Analytical M	lethod: AST	N D2974-87										
	Pace Analyt	ical Services	s - Green Bay										
Percent Moisture	23.5	%	0.10	0.10	1		01/26/23 14:30						



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-3	Lab ID:	40257481003	Collected:	01/23/23	8 09:42	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry wei	ight" basis and are	e adjusted for	percent moi	sture, sar	nple s	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 ytical Services			hod: E	PA 3050B			
Lead	1470	mg/kg	5.0	1.5	2	01/26/23 07:25	01/27/23 14:09	7439-92-1	
Percent Moisture	,	Method: ASTN ytical Services							
Percent Moisture	24.1	%	0.10	0.10	1		01/26/23 14:30		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-4	Lab ID: 402	57481004	Collected:	01/23/23	09:44	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are adj	usted for per	cent mois	sture, san	nple si	ze and any diluti	ons.		
Parameters	Results U	Inits L	0Q	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Meth Pace Analytica		•	ation Meth	nod: EF	PA 3050B			
Lead	,	ig/kg	2.5	0.75	1	01/26/23 07:25	01/26/23 17:45	7439-92-1	
Percent Moisture	Analytical Meth	nod: ASTM D2	974-87						
	Pace Analytica	l Services - G	reen Bay						
Percent Moisture	25.4	%	0.10	0.10	1		01/26/23 14:30		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-5	Lab ID:	40257481005	Collected	: 01/23/23	3 09:46	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry weight	" basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 ytical Services			hod: E	PA 3050B			
Lead	146	mg/kg	2.4	0.71	1	01/26/23 07:25	01/26/23 17:50	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services							
Percent Moisture	16.3	%	0.10	0.10	1		01/26/23 14:30		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-6	Lab ID:	40257481006	Collected:	01/23/23	09:48	Received: 01/	25/23 08:00 M	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	adjusted for	percent moi	sture, san	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	3340	mg/kg	12.8	3.8	5	01/26/23 07:25	01/27/23 14:11	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services							
Percent Moisture	25.3	%	0.10	0.10	1		01/26/23 14:30		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-8	Lab ID: 4	10257481007	Collected:	01/23/23	09:51	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	r percent moi	sture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical M	lethod: EPA	6010D Prepa	ration Met	hod: E	PA 3050B			
	Pace Analy	tical Services	s - Green Bay						
Lead	2.2	mg/kg	2.1	0.62	1	01/26/23 07:25	01/26/23 17:54	7439-92-1	
Percent Moisture	Analytical M	lethod: AST	N D2974-87						
	Pace Analy	tical Services	s - Green Bay						
Percent Moisture	5.1	%	0.10	0.10	1		01/26/23 14:44		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-9	Lab ID:	40257481008	Collected	I: 01/23/23	3 09:53	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	adjusted for	percent mo	isture, sai	nple s	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services			hod: E	PA 3050B			
Lead	51.5	mg/kg	2.6	0.78	1	01/26/23 07:25	01/26/23 17:56	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		/					
Percent Moisture	27.1	%	0.10	0.10	1		01/26/23 14:44		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-10	Lab ID:	40257481009	Collected	l: 01/23/23	8 09:55	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry weight"	basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6			hod: E	PA 3050B			
	Pace Analy	tical Services	- Green bay						
Lead	18.5	mg/kg	2.4	0.72	1	01/26/23 07:25	01/26/23 17:58	7439-92-1	
Percent Moisture	Analytical I	Method: ASTM	D2974-87						
	Pace Analy	tical Services	- Green Bay	<i>,</i>					
Percent Moisture	17.1	%	0.10	0.10	1		01/26/23 14:44		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01B-1	Lab ID: 4	40257481010	Collected	: 01/23/23	3 10:00	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	percent mo	isture, sar	nple s	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical M	Method: EPA 6	6010D Prepa	aration Met	hod: E	PA 3050B			
	Pace Analy	tical Services	- Green Bay						
Lead	26.6	mg/kg	2.3	0.69	1	01/26/23 07:25	01/26/23 18:00	7439-92-1	
Percent Moisture	Analytical M	Method: ASTM	1 D2974-87						
	Pace Analy	tical Services	- Green Bay						
Percent Moisture	18.1	%	0.10	0.10	1		01/26/23 14:44		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01B-2	Lab ID:	40257481011	Collected	: 01/23/23	3 10:03	B Received: 01/	25/23 08:00 M	atrix: Solid	
Results reported on a "dry we	eight" basis and are	e adjusted for	percent mo	isture, sar	nple s	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 ytical Services			hod: E	PA 3050B			
Lead	8.4	mg/kg	2.3	0.67	1	01/26/23 07:25	01/26/23 18:02	7439-92-1	
Percent Moisture	,	Method: ASTN ytical Services		,					
Percent Moisture	13.1	%	0.10	0.10	1		01/26/23 14:44		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01B-3	Lab ID:	40257481012	Collected	: 01/23/23	10:07	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA 6	010D Prepa	aration Met	hod: E	PA 3050B			
	Pace Analy	ytical Services	- Green Bay						
Lead	26.8	mg/kg	2.7	0.82	1	01/26/23 07:25	01/26/23 18:04	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
	Pace Analy	ytical Services	- Green Bay						
Percent Moisture	27.8	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01B-4	Lab ID:	40257481013	Collected	: 01/23/23	3 10:05	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	28.9	mg/kg	2.4	0.72	1	01/26/23 07:25	01/26/23 18:06	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		,					
Percent Moisture	17.5	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01B-5	Lab ID:	40257481014	Collected	: 01/23/23	3 10:02	Received: 01/	/25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for	percent mo	isture, sar	nple s	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	16.8	mg/kg	5.0	1.5	2	01/27/23 09:40	01/30/23 17:41	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		,					
Percent Moisture	20.8	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 02SW-1	Lab ID: 4	0257481015	Collected	: 01/23/2	3 10:10	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	adjusted for _l	percent mo	isture, sa	mple si	ze and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	lethod: EPA 6			thod: E	PA 3050B			
Lead	16400	mg/kg	604	181	200	02/01/23 05:50	02/01/23 15:55	7439-92-1	P6,R1
Percent Moisture	,	lethod: ASTM							
Percent Moisture	34.2	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 02SW-2	Lab ID:	40257481016	Collected	: 01/23/23	3 10:12	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry weig	ht" basis and are	adjusted for	percent mo	isture, saı	nple si	ize and any dilut	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	2070	mg/kg	3.0	0.90	1	01/26/23 07:25	01/26/23 18:15	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services		,					
Percent Moisture	36.1	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 02SW-3	Lab ID:	40257481017	Collected:	01/23/23	8 10:14	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	eight" basis and are	e adjusted for	percent moi	isture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical	Method: EPA 6	010D Prepa	ration Met	hod: E	PA 3050B			
	Pace Anal	ytical Services	- Green Bay						
Lead	23600	mg/kg	25.6	7.7	10	01/26/23 07:25	01/30/23 14:56	7439-92-1	
Percent Moisture	Analytical	Method: ASTM	D2974-87						
	Pace Anal	ytical Services	- Green Bay						
Percent Moisture	25.5	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 02SW-4	Lab ID:	40257481018	Collected	: 01/23/23	3 10:16	Received: 01/	25/23 08:00 M	atrix: Solid	
Results reported on a "dry we	ight" basis and are	e adjusted for	percent moi	isture, sar	nple si	ize and any diluti	ions.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Method: EPA 6 ytical Services	•		hod: E	PA 3050B			
Lead	26700	mg/kg	23.7	7.1	10	01/26/23 07:25	01/27/23 14:13	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services							
Percent Moisture	20.0	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 02B-1	Lab ID:	40257481019	Collected	: 01/23/23	8 10:18	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry wei	ight" basis and are	adjusted for	percent mo	isture, sar	nple si	ize and any diluti	ons.		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	,	Method: EPA 6 vtical Services			hod: El	PA 3050B			
Lead	29.1	mg/kg	2.8	0.84	1	01/26/23 07:25	01/26/23 18:21	7439-92-1	
Percent Moisture	,	Method: ASTM ytical Services							
Percent Moisture	32.1	%	0.10	0.10	1		01/26/23 14:45		



Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Sample: 01SW-7	Lab ID: 402	57481020	Collected	01/23/23	09:49	Received: 01/	25/23 08:00 Ma	atrix: Solid	
Results reported on a "dry we	ight" basis and are ad	justed for p	ercent moi	sture, sar	nple si	ze and any diluti	ons.		
Parameters	Results L	Jnits		LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Met			ration Met	nod: El	PA 3050B			
	Pace Analytica	al Services -	Green Bay						
Lead	6.1 m	ng/kg	2.2	0.66	1	01/26/23 07:25	01/26/23 18:23	7439-92-1	
Percent Moisture	Analytical Met	hod: ASTM E	02974-87						
	Pace Analytica	al Services -	Green Bay						
Percent Moisture	9.8	%	0.10	0.10	1		01/26/23 14:45		



Project:	58217147 LORM	AN ST FT ATKINS	NC									
Pace Project No .:	40257481											
QC Batch:	436529		Analy	sis Method	d:	EPA 6010D						
QC Batch Method:	EPA 3050B		Analy	/sis Descrip	otion:	6010D MET						
			Labo	ratory:		Pace Analyt	ical Service	es - Green	Bay			
Associated Lab San	4025748	1001, 4025748100 1008, 4025748100 1017, 4025748101	9, 4025748	1010, 402	57481011,		,	,		,		
METHOD BLANK:	2510543			Matrix: So	olid							
Associated Lab San	4025748	1001, 4025748100 1008, 4025748100 1017, 4025748101	9, 4025748	1010, 402	57481011,		,	,		,		
			Blar	nk l	Reporting							
Paran	neter	Units	Res	ult	Limit	Analy	/zed	Qualifier	S			
Lead		mg/kg	_	<0.60	2	.0 01/26/23	3 17:27					
LABORATORY CON	NTROL SAMPLE:	2510544										
			Spike	LC	S	LCS	% Re	ес				
Paran	neter	Units	Conc.	Res	ult	% Rec	Limi	ts	Qualifiers			
Lead		mg/kg	2	5	25.9	104	4 8	30-120				
MATRIX SPIKE & M	IATRIX SPIKE DU	PLICATE: 2510	545		2510546	6						
			MS	MSD								
Parameter	. Unit	40257481001 s Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead		a 8.1	29.9	29.8	38.4		101		75-125		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.



-]	58217147 LORMA 40257481	N ST FT ATKINS	ON									
QC Batch:	436657		Analy	ysis Metho	od:	EPA 6010D						
QC Batch Method:	EPA 3050B		Analy	ysis Descr	iption:	6010D MET						
			Labo	oratory:		Pace Analyt	ical Servic	es - Green	Bay			
Associated Lab Sam	ples: 402574810)14										
METHOD BLANK:	2511022			Matrix: S	olid							
Associated Lab Sam	ples: 402574810	014, 4025748101	5									
			Blai	nk	Reporting							
Parame	eter	Units	Res	ult	Limit	Anal	yzed	Qualifier	S			
Lead		mg/kg		<0.60	2	2.0 01/30/2	3 17:18					
LABORATORY CON	TROL SAMPLE:	2511023										
			Spike	LC	CS	LCS	% R	ec				
Parame	eter	Units	Conc.	Re	sult	% Rec	Lim	its	Qualifiers			
Lead		mg/kg	2	25	26.5	10	6	80-120				
MATRIX SPIKE & MA		LICATE: 2511	724		251102	5						
WATKIN OF INE & WIA	ATRIA SPIRE DUPI	LICATE. 25TH	MS	MSD	231102	5						
		40257481014	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Lead	mg/kg	16.8	31.6	31.6	50.0	45.5	105	91	75-125	10	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.



Project: Pace Project No.:	58217147 LORMA 40257481	N ST FT ATKINS	ON									
QC Batch:	436883		Anal	ysis Metho	od:	EPA 6010D						
QC Batch Method:	EPA 3050B			, ysis Descı		6010D MET						
				oratory:	•	Pace Analyt	ical Service	es - Green	Bay			
Associated Lab Sar	nples: 402574810	015		,		,			,			
METHOD BLANK:	2511960			Matrix: S	olid							
Associated Lab Sar	nples: 40257481	015										
			Bla	nk	Reporting							
Paran	neter	Units	Res	ult	Limit	Analy	/zed	Qualifiers	6			
Lead		mg/kg		<0.60	2	.0 02/01/2	3 14:26					
LABORATORY CO	NTROL SAMPLE:	2511961										
			Spike	L	CS	LCS	% Re	ec				
Paran	neter	Units	Conc.	Re	sult	% Rec	Limit	ts (Qualifiers			
Lead		mg/kg	2	25	26.4	10	6 8	80-120		_		
MATRIX SPIKE & M	ATRIX SPIKE DUP	LICATE: 2511	962		2511963	3						
			MS	MSD	2011000							
		40257481015	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	· Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Lead	mg/kg	16400	38	38	9700	14800	-17600	-4060	75-125	42	20	P6,R1

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.



Project: Pace Project No.:	58217147 LORMAN 40257481	N ST FT ATKINSO	Ν						
QC Batch:	436590		Analysis Meth	od:	ASTM D2974-8	37			
QC Batch Method:	ASTM D2974-87		Analysis Desc	ription:	Dry Weight/Per	cent Moist	ure		
			Laboratory:		Pace Analytica	Services	- Green B	ay	
Associated Lab Sar	nples: 402574810	01, 40257481002	, 40257481003, 40	257481004,	40257481005,	40257481	006		
SAMPLE DUPLICA	TE: 2510805								
			40257473035	Dup		N	lax		
Parar	neter	Units	Result	Result	RPD	R	PD	Qualifiers	
Percent Moisture		%	22.5	21	.2	6	10		

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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Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.:	40257481
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QC Batch:	436596	Analysis Method:	ASTM D2974-87				
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture				
		Laboratory:	Pace Analytical Services - Green Bay				
Associated Lab Sam			0, 40257481011, 40257481012, 40257481013, 7, 40257481018, 40257481019, 40257481020				
SAMPLE DUPLICATE: 2510806							

		40257490002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	16.9	17.1	1	10	

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.



QUALIFIERS

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

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

- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58217147 LORMAN ST FT ATKINSON

Pace Project No.: 40257481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40257481001	01SW-1	EPA 3050B	436529	EPA 6010D	436605
40257481002	01SW-2	EPA 3050B	436529	EPA 6010D	436605
40257481003	01SW-3	EPA 3050B	436529	EPA 6010D	436605
40257481004	01SW-4	EPA 3050B	436529	EPA 6010D	436605
40257481005	01SW-5	EPA 3050B	436529	EPA 6010D	436605
40257481006	01SW-6	EPA 3050B	436529	EPA 6010D	436605
40257481007	01SW-8	EPA 3050B	436529	EPA 6010D	436605
40257481008	01SW-9	EPA 3050B	436529	EPA 6010D	436605
40257481009	01SW-10	EPA 3050B	436529	EPA 6010D	436605
40257481010	01B-1	EPA 3050B	436529	EPA 6010D	436605
40257481011	01B-2	EPA 3050B	436529	EPA 6010D	436605
40257481012	01B-3	EPA 3050B	436529	EPA 6010D	436605
40257481013	01B-4	EPA 3050B	436529	EPA 6010D	436605
40257481014	01B-5	EPA 3050B	436657	EPA 6010D	436807
40257481015	02SW-1	EPA 3050B	436883	EPA 6010D	436979
40257481016	02SW-2	EPA 3050B	436529	EPA 6010D	436605
0257481017	02SW-3	EPA 3050B	436529	EPA 6010D	436605
0257481018	02SW-4	EPA 3050B	436529	EPA 6010D	436605
40257481019	02B-1	EPA 3050B	436529	EPA 6010D	436605
40257481020	01SW-7	EPA 3050B	436529	EPA 6010D	436605
40257481001	01SW-1	ASTM D2974-87	436590		
40257481002	01SW-2	ASTM D2974-87	436590		
40257481003	01SW-3	ASTM D2974-87	436590		
10257481004	01SW-4	ASTM D2974-87	436590		
40257481005	01SW-5	ASTM D2974-87	436590		
40257481006	01SW-6	ASTM D2974-87	436590		
10257481007	01SW-8	ASTM D2974-87	436596		
0257481008	01SW-9	ASTM D2974-87	436596		
40257481009	01SW-10	ASTM D2974-87	436596		
0257481010	01B-1	ASTM D2974-87	436596		
0257481011	01B-2	ASTM D2974-87	436596		
0257481012	01B-3	ASTM D2974-87	436596		
0257481013	01B-4	ASTM D2974-87	436596		
0257481014	01B-5	ASTM D2974-87	436596		
40257481015	02SW-1	ASTM D2974-87	436596		
40257481016	02SW-2	ASTM D2974-87	436596		
40257481017	02SW-3	ASTM D2974-87	436596		
40257481018	02SW-4	ASTM D2974-87	436596		
40257481019	02B-1	ASTM D2974-87	436596		
40257481020	01SW-7	ASTM D2974-87	436596		

CHAIN-OF-CUSTODY Analytical Request Document Interview Processing
Pace Analytical Comparison Comparis
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Address: MOUSS. funnyluom fur umen fur
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Customer Project Name/Number: State: County/City: Time Zone Collected: Sample Receipt Checklist: Clip Collected By (print) Ste/Facility ID #: Compliance Monitoring? Custody Seals Present Y N NA Collected By (print) Purchase Order #: DW PWS ID #: DW PWS ID #: Custody Signature Present Y N NA Collected By (signature): Turnaround Date Required: Immediately Packade on Ice: Y NA Collected By (signature): Turnaround Date Required: Immediately Packade on Ice: Y N NA Sample Disposal: Rush: Field Filtered (if applicable): Y N NA Sample Disposal: I 2 Day [] 3 Day [] 4 Day [] 5 Day Field Filtered (if applicable): Y N NA Customer Sample ID Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Soild (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT) Packade Access apply Packade Tripe Access apply Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Soild (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT) Packade Access apple Pickade Tripe Access apple Pickade Tripe Access apple Pickade Tripe Access aple Pickad
Still 44.2 W(/ []PT[]MT[]CT[]FT Phone: Compliance Monitoring? Compliance Monitoring? Email: Luch Stie/Facility ID #: Compliance Monitoring? Collected By (print): Purchase Order #: DW PWS ID #: Collected By (print): Lucch Mute #: DW Location Code: NA Collected By (signature): Turnaround Date Required: Immediately Packed on Ice: NA Sample Disposal: [] Yes [] No Analysis: NA [] Jack [] 2Day [] 3Day [] 4Day [] 5 Day [] Yes [] No Analysis: * Matrix * Composite End Composite End Collected (or Composite End Collected (or Composite End TN NA Sample Disposal: [] Archve: [] 2Day [] 3Day [] 4Day [] 5 Day Analysis: Sample Sin Holding Gripticale): Y N NA [] Hold: [] Dispose as appropriate [] Return [] Sames Day [] Next Day [] Yes [] No Analysis: Sample Sin Holding Gripticale): Y N NA [] Hold: [] Dispose as appropriate [] Return [] Sames Day [] Next Day [] Yes [] No Analysis: Sample Sin Holding Gripticale): <td< td=""></td<>
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Customer Sample ID Matrix * Comp / Grab Collected (or Composite Start) Composite End Date Res Cl # of Ctms T T Lab Comments : 0 1 5 W - 1 5 Grad 1-23-23 § 17 - - I 1 - - CDI 0 1 5 W - 2 1 940 - - 1 1 - - CDI
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015W-2 948 11 1 000
015m-8 951 11 W7
0j sw q $0s q$ $0s q$ $0s q$ $0s q$ $0s q$
01 sw to $1 \frac{1}{2} \frac{1}{3} 1$
OLB-L OLB-L OLD Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours):
Packing Material Used: Jab Tracking #
2824334 Therm ID#:
Badchern mole(c) screened (<500 cpm); V N NA Samples received via: Cooler 1 Therm Corr. FactorOC
Relinquished by/Company: (Signature) Date/Time: MTJL LAB USE ONLY Comments:
Terracia
Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Template: Trip BlankReceived: Y N NA
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Relinquished by/Company: (Signature) Date/Time: PM: Non Conformance(s): Page 36 of 39 VES / NO of:

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CHAIN-OF-CUSTODY Analytical Request Document										nt	LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here 402-5748/													
Pace Analytical*	Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields																							
Company: Billing Information:															ALL	SH	ADE	D AI	REAS	are	e for LA	B USE ONLY		
Address:						12	-				U		Cont	tainer	Preser	rvativ	е Туре	**			Lab Projec	t Manager:		
Report To:		76	F	E	Email To:																	odium hydroxide, (5) zinc acetate, iic acid, (B) ammonium sulfate,		
Copy To: Site Collection Info					tion Info/#	Address:					mmon	um hydr	oxide,	(D) TSP Analy		Inprese	rved, (0) Othe	r	Lab Profile	/line: "			
Customer Project Name/Number:				9	State: /	ate: County/City: Time Zone Collected: / []PT[]MT[]CT[]ET															Lab Sa	mple Receipt Checklist:		
Phone: Email:	Site/Fa	acılıty ID	#:				Compliane	Compliance Monitoring? [] Yes [] No													Custod Collec	y Signatures Present Y N NA tor Signature Present Y N NA s Intact Y N NA		
Collected By (print):	Purcha Quote	ase Orde #:	r #•		DW PWS ID #: DW Location Code:															Suffic	t Bottles Y N NA ient Volume N NA s Received on Ice Y N NA			
Collected By (signature):	Collected By (signature): Turnaround Date Required:						Immediately Packed on Ice: [] Yes [] No														VOA - USDA R	Headspace Acceptable Y N NA egulated Soils Y N NA s in Holding Time Y N NA		
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[] Hold (Expedite Charges Apply) * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (1	ewater (W	W),												Sulfid	e Present Y N NA cetaro Firips:			
Product (P), Soil/Solid (SL), Oil (O			lir (AR),	Tiss	ue (TS), B	ioassay (B))		-										LAB US	FONLY mple # Comments:		
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018-2	5	5	CMB						$\left[\right]$	C						*				011				
018-3						1007				1	1								P.		On	€ λ., .		
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0152-7			has					ļ			1										020			
Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: W Packing Material Used: Radchem sample(s) scree								Blue Dr	ry No	ne			RT HOL Trackin				100115			N/A		Lab Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: Cooler 1 Temp Upon Receipt:OC		
							screened (<	500 epm):	Y N	NA	N	Sam	nples received via: FEDEX UPS Client				t C	ourier	Pa	ice Co	ourier	Cooler 1 Therm Corr. Factor:oC Cooler 1 Corrected Temp:oC		
Relinquisher by/Company: (Signatu	•			•	Time: -24	1530	Received b	y/Company	y: (Signati	ure)			Date/T	ime:			Tab	MTJ le #;	L LAB I	JSE O	NLY	Comments:		
Relinquished by/Company: (Signatu			D	ate/	Time:	-	Received b	y/Company	y: (Sıgnatı	ure)			Date/T	ime:				num: plate:				Trip Blank Deceiver: Y N NA		
CSLOgistus				Istis USID MAIN								hsh		180)		ogin:				HCL MeOH TSP Other			
Relinquished by Company: (Signature)				ate/	Time:		Received b	y/Company	y: (Signati	ure)		Date/Time:							PM: Nor Conformance(s): Page 3 YES / NO of:					

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form Effective Date: 8/16/2022

C All co	Client Name: <u>Tey MUM</u> Il containers needing preservation have been checked and noted below. Lab Lot# of pH paper. Sample Preservation Receipt Form Project # UYes DNo Lab Std #ID of preservation (if pH adjusted):															tial wh		Date/ Time:																
	Glass					Plastic					Vials			Jars			General			(>6mm) *	152	Act pH ≥9	≥12	23	after adjusted	Volume								
Pace .ab #	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2	VOA Vials	H2SO4 pH <2	NaOH+Zn Act pH	NaOH pH ≥12	HNO3 pH ≤2	pH after a	(mL)
01																																		2.5/5
02				125					1.84		5.3	15%	100					4	13	1971.	5.5		1			1.28		- CEST					计读题	2.5/5
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BG1U 1 liter clear glass B						B	P3U	250	1 liter plastic unpres 250 mL plastic unpres					DO	VG9C 40 mL clear ascorbic w/ HCl DG9T 40 mL amber Na Thio							JGFU 4 oz amber jar un JG9U 9 oz amber jar un												

AG1H 1 liter amber glass HCL 40 mL clear vial unpres BP3B 250 mL plastic NaOH VG9U 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 AG5U 100 mL amber glass unpres 250 mL plastic H2SO4 120 mL plastic Na Thiosulfate BP3S VG9M 40 mL clear vial MeOH SP5T AG2S 500 mL amber glass H2SO4 BP2Z 500 mL plastic NaOH + Zn VG9D 40 mL clear vial DI ZPLC ziploc bag BG3U 250 mL clear glass unpres GN 1 GN 2

Page <u>1</u> of <u>2</u>

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Sample Condition Upon Receipt Form (SCUR)

				Project #:
Client Name: TEVYILLIN		WO#:40257481		
Courier: CS Logistics Fed Ex Speedee	ΠU			
🗋 Client 🔄 Pace Other:				
Tracking #:		40257481		
Custody Seal on Cooler/Box Present: Fyes	no S	🖵 yes 🔲 no		
Custody Seal on Samples Present: 🔲 yes 🗖 no	S	🗌 yes 🔄 no		
Packing Material: D Bubble Wrap D Bubble	-			
	ype of	Ice:	Wet	Blue Dry None Meltwater Only Person examining contents:
Cooler Temperature Uncorr 4.0 /Corr 1.0				
Temp Blank Present: 🔲 yes 🖵 no	В	iolo	gical T	Tissue is Frozen: ☐ yes ☐ no Date: 12513 /Initials: 10
Temp should be above freezing to 6°C. Biota Samples may be received at \leq 0°C if shipped on Dry Ic	e.			Labeled By Initials:
Chain of Custody Present:	Mes []No	□n/a	1.
Chain of Custody Filled Out:	Tes 🗆]No	□n/a	2.
Chain of Custody Relinquished:	Nes 🗆]No	□n/a	3.
Sampler Name & Signature on COC:	¶res □]No	□n/a	4.
Samples Arrived within Hold Time:	Pres []No		5.
- DI VOA Samples frozen upon receipt]Yes []No		Date/Time ⁻
Short Hold Time Analysis (<72hr):]Yes	178		6.
Rush Turn Around Time Requested:]Yes Z	ΙNο		7.
Sufficient Volume:				8.
For Analysis: Pyes DNo MS/MSD: D	Yes 🗲	INo	□n/a	
Correct Containers Used:	IYes 🗆]No		9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace				
Containers Intact:	Hes []No		10.
Filtered volume received for Dissolved tests]Yes []No .		11.
Sample Labels match COC:]Yes	INo	□n/a	12.019 has IDOF 02BH matched by
-Includes date/time/ID/Analysis Matrix:	<u> </u>			date and time mH 1/25/23
Trip Blank Present:]Yes 🗆]No 🔎	EN/A	13.
Trip Blank Custody Seals Present]Yes 🗆]No		
Pace Trip Blank Lot # (if purchased):				
Client Notification/ Resolution:			р	If checked, see attached form for additional comments
Person Contacted: Comments/ Resolution:			Date/	I me:

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

Page 2 of 2



Appendix F Waste Disposal Documentation Waste Disposal Documentation

Date	Profile #	Manifest/Additional Documents	Tic	ket#	Material	Facility	Carrier	Vehicle	Tons/Tonnes	Material
1/23/2023	138450WI		0	647608	Dredged Sediment and Soil	WI Deer Track Park LF	DUMP	5205	15.55	
1/23/2023	138450WI		0	647610	Dredged Sediment and Soil	WI Deer Track Park LF	DUMP	5216	15.42	
1/23/2023	138450WI		0	647611	Dredged Sediment and Soil	WI Deer Track Park LF		711	13.54	
1/23/2023	138450WI		0	647615	Dredged Sediment and Soil	WI Deer Track Park LF		11	13.28	
1/23/2023	138450WI		0	647616	Dredged Sediment and Soil	WI Deer Track Park LF	DUMP QUADS	96	15.52	
1/23/2023	138450WI		0	647617	Dredged Sediment and Soil	WI Deer Track Park LF		1209	13.35	
1/23/2023	138450WI		0	647618	Dredged Sediment and Soil	WI Deer Track Park LF		1208	14.11	
1/23/2023	138450WI		0	647621	Dredged Sediment and Soil	WI Deer Track Park LF		1216	15.46	
1/23/2023	138450WI		0	647628	Dredged Sediment and Soil	WI Deer Track Park LF	HOWARD TRUCKING	16073	16.64	
1/23/2023	138450WI		0	647624	Dredged Sediment and Soil	WI Deer Track Park LF		28	14.45	
1/23/2023	138450WI		0	647630	Dredged Sediment and Soil	WI Deer Track Park LF		73	16.99	
1/23/2023	138450WI		0	647635	Dredged Sediment and Soil	WI Deer Track Park LF	DUMP	5216	17.99	
1/23/2023	138450WI		0	647637	Dredged Sediment and Soil	WI Deer Track Park LF	DUMP	5205	17.34	
1/23/2023	138450WI		0	647640	Dredged Sediment and Soil	WI Deer Track Park LF		711	24.04	
1/23/2023	138450WI		0	647641	Dredged Sediment and Soil	WI Deer Track Park LF	R R WALTON	31	15.86	
1/23/2023	138450WI		0	647636	Dredged Sediment and Soil	WI Deer Track Park LF		700	14.04	
1/23/2023	138450WI		0	647653	Dredged Sediment and Soil	WI Deer Track Park LF		10	13.21	
1/23/2023	138450WI		0	647643	Dredged Sediment and Soil	WI Deer Track Park LF		11	19.04	

Total Tonnage

19.04 TON

285.83