Interim Action Completion Report

Former Jorgensen Forge Property
8531 E. Marginal Way S.
Tukwila, WA 98108

Prepared For:

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May 4, 2026

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List of Acronyms and Abbreviations

DH Environmental	DH Environmental, Inc.
IACR	Interim Action Completion Report
Star Forge	Star Forge, LLC
Property	Former Jorgensen Forge Facility located at 8531 East Marginal Way South, in Tukwila, Washington
AO	Agreed Order
Star Forge AO	Agreed Order No. DE 21034
Ecology	Washington State Department of Ecology
MTCA	Washington State Model Toxics Control Act
WAC	Washington Administrative Code
LDW	Lower Duwamish Waterway
EMJ	Earle M. Jorgensen Co.
JFC	Jorgensen Forge Corporation
EMJ AO	Agreed Order No. DE 14143
RI	Remedial Investigation
UST	Underground Storage Tank
DWMU	Dangerous Waste Management Unit
IAWP	Interim Action Work Plan
lbs	pounds
TCLP	Toxicity Characteristic Leaching Potential
LNAPL	Light Non-Aqueous Phase Liquid
DRO	diesel-range organics
CDF	controlled density fill
PCUL	preliminary cleanup level
CGI	Construction Group International
AFFF	Aqueous Film Forming Foam
HOT	Heating Oil Tank
PCBs	polychlorinated biphenyls
PQL	Practical Quantitation Limit
mg/kg	milligram per kilogram
AST	aboveground storage tank
ERTS	Environmental Report Tracking System
CFR	code of federal regulations
EPA	Environmental Protection Agency
TSCA	Toxic Substances Control Act
ISGP	Industrial Stormwater General Permit
IDP	Inadvertent Discovery Plan

Section 1: INTRODUCTION

DH Environmental, Inc. (DH Environmental) has prepared this Interim Action Completion Report (IACR) on behalf of Star Forge, LLC (Star Forge), the current owner of the former Jorgensen Forge Facility located at 8531 East Marginal Way South, in Tukwila, Washington (herein referred to as the Property) (Figure 1).

This report has been prepared in accordance with Agreed Order (AO) No. DE 21034 (Star Forge AO), entered into by Star Forge and the Washington State Department of Ecology (Ecology), pursuant to the Washington State Model Toxics Control Act (MTCA) and Cleanup Regulation established in Chapter 173-340 of the Washington Administrative Code (WAC).

1.1 SITE DESCRIPTION

The former Jorgensen Forge Property consists of approximately 21.6 acres located in an industrial area along the east bank of the Lower Duwamish Waterway (LDW). The Property is bordered to the north by Boeing Plant 2, and to the south by the Boeing Isaacson property. It is bordered to the west by the LDW, and to the east by East Marginal Way South and the King County Regional Airport.

The Property was used from 1942-1965 for fabrication of structural steel, tractor, and road equipment, including forging and heat-treating operations conducted for the U.S. Navy. It was owned and operated by Earle M. Jorgensen Co. (EMJ) from 1965 until 1992, when it was purchased by Jorgensen Forge Corporation (JFC). JFC manufactured specialized large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. JFC also processed nickel, titanium, and specialized alloys.

Historical industrial use of the Property has contaminated soil and groundwater, including in the vicinity of the USTs described in this report. Star Forge bought the Property out of bankruptcy in November 2016. As part of the bankruptcy proceeding, the bankruptcy court approved a settlement agreement pursuant to which EMJ was required to enter into an agreed order with Ecology to investigate and remediate contaminated soils and groundwater at the Property and any locations where hazardous substances released on the Property have come to be located (the Site). In fulfillment of that requirement, EMJ entered into Agreed Order No. DE 14143 (EMJ AO) with Ecology in 2017. At the time this document was originally submitted to Ecology, EMJ was conducting a Remedial Investigation (RI) of the Site. A draft version of this report and site assessment data were provided to EMJ and Ecology for reference in the RI.

1.2 INTERIM ACTION SCOPE

As required by Section VII.A of the Star Forge AO, the Interim Action included three specific tasks which are described in the following sections. This work was all conducted in conjunction with demolition of the facility structures and subsequent restoration of the Property.

1.2.1 Underground Storage Tank System Permanent Closure by Removal and Site Assessment Sampling

The Property had two Underground Storage Tank (UST) vaults, located in two separate concrete structures (North Tank Vault and South Tank Vault), with a total of 18 UST systems as defined in WAC 173-360A-0150(77). The North Tank Vault included 10 USTs designated as UST-26 through UST-35, and the South Tank Vault included 8 USTs designated as UST-15 through UST-22. All liquids were removed from the USTs in 2020, and all associated media was sampled and designated for disposal. However, at the request of Ecology, the decommissioning of the USTs could not be conducted until an Interim Action Work Plan and AO were approved. In addition, the City of Tukwila also required a demolition permit as structural decommissioning was required for removal. The USTs were all licensed with Ecology and covered under appropriate financial assurance mechanisms until final decommissioning and closure was completed. In accordance with the requirements of the Star Forge AO and WAC 173-360A, a Permanent Closure Report was submitted to Ecology under separate cover in May 2024 (DH Environmental, 2024). The UST Decommissioning and Site Assessment Report is included as Appendix A to this IACR.

1.2.2 Clean Closure of Dangerous Waste Management Units

DH Environmental prepared and submitted an interim Dangerous Waste Clean Closure Report to Ecology for the purpose of documenting the Clean Closure of Dangerous Waste Management Units (DWMUs) at the Property (DH Environmental, 2020a; 2020b, and 2020c) in accordance with WAC 173-303-610(2) and (5). The Clean Closure Report documented removal of Dangerous Waste from the Property and provided updated records of Dangerous Waste Designations of debris, slag, and the concrete and asphalt slabs in each DWMU. The interim Dangerous Waste Clean Closure Report included documentation of all Clean Closure work that could be conducted without obtaining a demolition permit which was ultimately tied to the Interim Action Work Plan (IAWP) and Star Forge AO. After Star Forge acquired all permits and IAWP approvals, the remaining Clean Closure work specified in the IAWP resumed in 2023 in conjunction with demolition of the Property structures. The remaining Clean Closure tasks included demolition of three DWMUs, removal of the underlying slabs, confirmation sampling of the underlying soil, and minor excavation below one of the units to achieve MTCA Method A cleanup standards.

The Final Clean Closure Report was delivered to Ecology under separate cover in May 2024. This report is included as Appendix B to this IACR.

1.2.3 Limited Exposed Soil Removal

Certain areas within the main buildings had exposed soil at grade (i.e. no stockpiles). Star Forge believed that this material was "track-in" from the former forging operations at the Property, or imported aggregate for base course, and/or paver base for equipment pads, walkways, or other in-plant facilities. Prior to demolition in 2019 and 2020, Star Forge, through its contractor Clean Harbors, removed and disposed of approximately 2,500,000-pounds (lbs) of "area wide dust". The area wide dust "passed" toxicity characteristic leaching potential (TCLP) for RCRA 8 metals. However, the elevated total metals concentration caused the area-wide dust to "book designate" as a Toxic Criteria Dangerous Waste and was assigned Washington State Dangerous Waste number WT02. A fish bioassay was not conducted to refute the book designation by Clean Harbors. Therefore, the WT02 designation was assumed and approximately 2,500,000 lbs of the area wide dust was removed and disposed of as Washington State Toxic Criteria WT02 waste during 2019 and early 2020.

Although most of the area wide dust was removed from inside the buildings prior to demolition, residual dust did remain on some surfaces. Therefore, in June 2020, DH Environmental conducted an area wide statistical analysis of the dust, fine particles, and exposed soil to designate the remaining material so that it could be properly managed during the forthcoming demolition of the structures. Exposed soil, along with area-wide residual dust, was designated as non-dangerous waste if disposal was required (DH Environmental, 2020a). Exposed soil and dust were indistinguishable at the ground surface where pavement was not present or unknown to be present.

During planning for demolition and site stabilization, and at the request of Ecology, exposed soil was identified for potential removal to facilitate surface preparation for the application of asphalt pavement. If required, any soil removal was limited to less than 100 cubic yards, and removal would require consultation with Ecology among other requirements. The areas of unpaved surfaces were mapped by Sound Earth Strategies in 2020 and represented approximately 14,000 square feet within the main building. During demolition, these areas of exposed soil were covered with geomembrane liners to prevent stormwater from contacting the areas of exposed soil.

Through the demolition process, no exposed soil inside the buildings required removal as part of the Interim Action or site demolition work. Because the area wide dust was designated as non-Dangerous Waste, further removal from surfaces was not required and any remaining residual dust was disposed of with the general demolition debris as it was either adhered to structural surfaces or swept up and disposed of during general stormwater BMP maintenance.

Clean fill was imported across the footprint of the former Forge Shop and Melt Shop to restore the grade and achieve proper drainage.

Individual cases of soil removal outside of the building footprints were required for other tasks and are described in Section 4. No exposed soil inside the buildings required removal and off-site disposal, which was a communicated potential outcome.

Section 2: UNDERGROUND STORAGE TANK DECOMMISSIONING AND SITE ASSESSMENT

The purpose of a UST site assessment is to determine if there has been a release of a regulated substance from a UST system. Confirmed and suspected releases have been reported from both former UST vaults as early as 1990 when Dames & Moore first identified elevated levels of petroleum in soil west of the former Aluminum Heat Treat Building and South Tank Vault. Later findings by SEACOR in 1991 supported this when they reported that three USTs in the North Tank Vault failed tightness testing. An additional investigation conducted in 1991 by SEACOR also identified light non-aqueous phase liquid (LNAPL) west of the former South Tank Vault. LNAPL was again identified west of the former North Tank Vault in 1995, along with high concentrations of diesel-range organics (DRO) in soil west of the former South Tank Vault. More recent investigations by Shannon & Wilson also identified likely releases from both former UST vaults, including the presence of a significant LNAPL plume on groundwater west of the South Tank Vault. As described in the Underground Storage Tank Decommissioning and Site Assessment Report, multiple investigations conducted over a 30-year period have identified likely releases from the former North and South Tank vaults at the Site. The site assessment activities described in the UST Decommissioning and Site Assessment Report were conducted pursuant to the Star Forge AO following UST decommissioning by removal. In accordance with the requirements of WAC 173-360A-0730(8)(g)(iii), the results of the site assessment concluded there has been a release of a regulated substance from both the former North and South UST systems at the former Jorgensen Forge Site. The Star Forge AO and IAWP did not require Star Forge to remediate the known subsurface releases, as EMJ is responsible pursuant to the bankruptcy court settlement agreement and the EMJ AO for investigation and remediation of all legacy contamination on the Site.

We recommend the Site Assessment data be considered by Ecology and EMJ during the remedial investigation and final cleanup of the Site. The UST decommissioning and site assessment activities were reported to Ecology under separate cover in May 2024. The Underground Storage Tank Decommissioning and Site Assessment Report is included in Appendix A of this IACR. Financial assurance for the USTs was terminated upon authorization from the Ecology UST program in June 2024 and all 18 tanks have been listed as removed in Ecology's database.

Section 3: CLEAN CLOSURE OF DANGEROUS WASTE MANAGEMENT UNITS

DH Environmental was contracted by Star Forge to assist with facilitation and documentation of Dangerous Waste Clean Closure for the former Jorgensen Forge Facility. From 2020 – 2024, DH Environmental supported Star Forge with facility cleanouts from shops and work areas, DWMU designation and evaluation, DWMU cleaning and confirmation sampling, and overall documentation of Clean Closure activities occurring concurrently with demolition operations. As of May 10th, 2024, Star Forge has completed the required Clean Closure requirements under the Dangerous Waste Regulations (WAC 173-303-200(h)) and in accordance with the Star Forge AO. The 2023 Dangerous Waste Annual Report has been updated to include notification of closure of the three DWMUs described in in the Final Clean Closure Report and is included in Attachment 4 of the report.

The Final Clean Closure Report was delivered to Ecology under separate cover in May 2024. The report is included as Appendix B to this IACR.

Section 4: ADDITIONAL TASKS ASSOCIATED WITH DEMOLITION AND FACILITY CLOSURE

4.1 IMPORT FILL

The facility had multiple subsurface features, including a basement under the main office building, two UST excavations, and multiple equipment vaults. Concurrent with demolition, and with the exception of filling the -2 level of the 5,000 Ton Press Pit with control density fill (CDF) as described in Section 4.2, and the engineered pit covers addressed in Section 4.3, all subsurface features and excavation areas were filled with compacted fill material as specified by a licensed professional engineer and approved by Ecology and the City of Tukwila. All imported crushed rock was sampled in accordance with the Fill Material Sampling Work Plan (SoundEarth, 2020) which was included in the Demolition Plan and referenced in the IAWP.

A total of approximately 29,600 tons of 1-¼ minus crushed rock was imported to the property to fill UST excavations, basement structures, equipment vaults, and other subsurface features. All imported rock was sampled prior to import. The import fill samples were analyzed for chemicals of concern identified in Column B of the Washington State Department of Ecology's Lower Duwamish Waterway Preliminary Cleanup Levels (PCULs) Workbook, Soil Summary page, dated April 5, 2019. The sampling results were compared to the values for the "Most Stringent Soil PCUL Saturated Zone Non-potable GW". A total of 47 soil samples were collected from the fill source facility, ICON Materials, located at 4040 Kersey Way SE, in Auburn, Washington. All sample results confirmed the import fill met the approved specifications. The import fill analytical results summary table, laboratory analytical reports, and the import fill weight summary table are included in Appendix C.

4.2 5,000-TON PRESS PIT

In November 2023, after dewatering of the 5,000-ton press vault located in the Forge Shop area, Star Forge's contractor, Construction Group International (CGI) encountered two levels of subsurface "rooms" adjacent to the press pit that extended approximately 36-feet below ground surface (-1 and -2 levels). The subsurface characteristics of these levels were unknown because they were under water at the start of demolition. The source of the water was likely due to groundwater infiltration after power was cut off from the building and the pumps that had historically kept water out of these rooms ceased to operate in 2019. After evaluating the structural and safety risks of demolishing the floors of each level in order to apply crushed rock as fill, CGI requested to use CDF to fill the void spaces in the -2 level instead of crushed rock because the CDF would be less intrusive, more effective, and safer to apply. The floors were constructed of thick concrete slabs and beams, with primary and secondary reinforcements consisting of rebar up to 2-inches in diameter. The floors/ceilings would have required removal in order to fill and compact the voids with crushed rock. Demolition of these floors would have presented a risk of collapse of the vault sidewalls.

After requesting this IAWP and permit deviation from Ecology and the City of Tukwila, both parties approved use of CDF instead of crushed rock in this application. The CDF was applied to the subsurface rooms from 11/27/2023 - 11/28/2023. Approximately 612 cubic yards of CDF was pumped into the -2 level to bring it up to grade with the floor of the -1 level. The 5,000-ton press pit was still filled with crush rock, along with the -1 floor of the adjacent subsurface structure. Only the bottom, -2 level, of the adjacent rooms was filled with CDF.

The control density fill specifications are included in Appendix C.

4.3 ENGINEERED PIT COVERS

Most of the subsurface vaults/pits at the facility were filled with crushed rock or CDF/crushed rock during the facility demolition process as described in the Demolition Plan and IAWP. However, due to concerns about future access to four former process vaults where Aqueous Film Forming Foam (AFFF) may have been used at the facility, Star Forge met with, and discussed with Ecology an option to install engineered covers over these subsurface features. Star Forge agreed to install water-tight structural covers over four subsurface features at the property. The covers were designed by a licensed structural engineer and were installed over the following subsurface features formerly containing AFFF fire suppression systems, as described in the Ecology-approved, PFAS Investigation Work Plan (Shannon & Wilson, 2022b) prepared pursuant to the EMJ AO:

- 660-ton press control room
- 1,250-ton press control room
- 2,500-ton press control room
- Quench tank vault

These covers are meant to satisfy the City of Tukwila municipal code in the same manner as filling the pits with crushed rock, while also meeting the requirements of WAC 173-340-430(3)(b), a MTCA regulation that states: “If the cleanup action is not known, the interim action shall not foreclose reasonable alternatives for the cleanup action. This is not meant to preclude the destruction or removal of hazardous substances”.

The engineered pit covers have the following features:

- The covers are set on curbs surrounding the entire pit to prevent stormwater run-on/runoff.
- The covers have a waterproof membrane that will prevent direct rain from entering the pits.
- The covers are structurally designed for operational loading (snow loads, wind, personnel, and light equipment).

The pit cover approach was suggested by and was approved by Ecology as detailed in the Section 6 of the IAWP. The engineered pit cover design package was reviewed by Ecology and approved by the City of Tukwila as part of the permitting process for demolition. Photos of the completed and currently installed pit covers are provided in Appendix D – Photo Log of Current Site Conditions.

4.4 HEATING OIL TANK REMOVALS

Two heating oil tanks (HOTs) were removed from the property during the course of demolition and site restoration. The first was a small HOT located west of the former Administrative Building. This HOT was previously identified by Shannon & Wilson as "UST-6", with a capacity of 600-gallons. The HOT was removed by CGI as part of the demolition of the adjacent Administrative Building in January 2024. The HOT was empty at the time of removal, and there was no visual or olfactory evidence of contamination in soil adjacent to or beneath the former HOT.

The second HOT was discovered on February 22, 2024, in an area formerly used for office space north of the former forge shop. This tank was full of red dyed diesel fuel (heating oil) at the time of discovery. The heating oil was sampled and submitted for analysis of hydrocarbon identification by Method NWTPH-HCID, and polychlorinated biphenyls (PCBs) by EPA Method 8082. The HCID results confirmed the fuel was diesel fuel, and PCBs were not reported in the sample at a concentration greater than the laboratory practical quantitation limit (PQL) of 1 milligram per kilogram (mg/kg). DH Environmental communicated the discovery of the tank to Ecology at the time of discovery, and the tank was pumped out and triple rinsed on February 28, 2024. The product and rinsate were transported for offsite disposal to Marine Vacuum Service on the same day. The laboratory analytical report for the heating oil, the disposal records, and a location map for the HOT are included in Appendix E. CGI removed the tank on February 28, 2024. The tank appeared to be in good condition at the time of removal and no breaches, holes or piercings were observed. No visual or olfactory evidence of contamination was observed in the soil adjacent to or beneath the HOT during removal.

4.5 ABOVE GROUND TANKS REMOVALS

Several above ground storage tanks or hydraulic oil equipment reservoirs were removed from the facility during demolition activities. The first was a 6,000-gallon former hydraulic oil tank located adjacent to the North UST vault. This tank was identified by Shannon & Wilson as "AST-6". The aboveground storage tank (AST) was empty and was removed for offsite disposal at the same time as the USTs.

The second AST was an 11,000-gallon former lathe cutting oil tank. This tank was located in a subsurface vault in the drive lane between the former Lathe Shop and Administrative Building. This tank was identified by Shannon & Wilson as "UST-1", however, it is important to note the tank was not a UST. Rather it was an AST, located in a subsurface vault, and subject to visual inspection. These details were communicated with Ecology on several occasions, including via letter to Mr. Drew Imke, a Senior UST Inspector for Ecology, in March 2020 (Marten Law, 2020). This AST was removed on October 11, 2023, after it had been pumped out and triple rinsed by Marine Vacuum Service.

In addition to the two ASTs described above, two hydraulic oil equipment reservoirs were also removed from equipment formerly located in the Arc Furnace Pit. These equipment reservoirs were identified by Shannon & Wilson as "UST-42" and "UST-43". It is important to note they were

not USTs. Rather, they were reservoirs attached to operating equipment. The equipment and attached reservoirs were removed in October 2023 as part of the demolition and filling of the former Arc Furnace pit.

4.6 TRANSFORMER PCB SPILL CLEANUP

On September 16, 2020, personnel from DH Environmental discovered evidence of vandalism and theft from the facility, including damage to two large transformers in the former powerhouse structure (apparently resulting from an attempt by trespassers to scavenge metal). The damage to one of the transformers, designated TC-24, resulted in a small spill of transformer oil. Transformer TC-24 was located on the east half of the second floor of the former Powerhouse structure. It was estimated that approximately 3- to 5-gallons of transformer oil were spilled from transformer TC-24. PCBs were reported in a sample of the transformer oil at a concentration of 1,400 mg/kg. Assuming the maximum volume of 5-gallons was released, the total mass of PCBs from the spill was 0.05 pounds.

The spill occurred indoors inside the TC-24 transformer room. Some of the transformer oil dripped down through a hatch on the second floor and onto the first-floor slab directly beneath the TC-24 transformer room. No storm drains, sanitary sewers, or soil were impacted by the release. The spill only impacted the east half of the central powerhouse structure, on the first and second floors.

DH Environmental conducted an initial response on September 17th, 2020, and removed and disposed of all free liquid transformer oil and impacted debris that was removable. Due to the physical location of the transformers and the condition of the building in which they were located, the final cleanup actions had to be conducted concurrent with building demolition. As such, final cleanup was written into the facility Demolition Plan and IAWP. Initial notifications to Ecology were made at the time of the incident (Environmental Report Tracking System [ERTS] # 700704).

The final cleanup and disposal of the impacted media, as well as the transformers, was conducted in December 2023 as a Performance Based Cleanup in accordance with chapter 40 code of federal regulations (CFR) § 761.61(b). A Performance Based Disposal Report was delivered to the Environmental Protection Agency (EPA) Region 10 and Ecology on May 30th, 2024 (DH Environmental, 2024c). The report is included in Appendix F of this IACR.

4.7 POWERHOUSE VAULT DISCOVERY, EXCAVATION, AND BACKFILLING

A previously unknown subsurface vault was discovered during demolition activities west of the former Powerhouse structure on December 15, 2023. This vault was located west of the Powerhouse, between the Powerhouse and Lime Storage Hopper, and was subsequently referred to as the “Powerhouse Vault”. The discovery of the Powerhouse Vault was not related to the demolition of the Powerhouse structure itself, or the transformer cleanup described in Section 4.6.

The Powerhouse vault was located beneath an above ground concrete structure, which was sitting on a steel plate, supported by a steel I-beam. During demolition and cleanup of that area, the

equipment operator removed the steel plate and I-beam, exposing the vault underneath. The vault had concrete sidewalls and a concrete bottom and was partially filled with soil and water. An initial waste characterization soil sample was collected from the exposed soil at the west end of the vault and the results indicated the soil contained PCBs at a concentration of 50 mg/kg. A copy of lab report 2312-224 is included in Appendix G. The discovery of the Powerhouse Vault was communicated with Ecology following receipt of the analytical results. Water from the vault was removed by DH Environmental using a vacuum truck and temporarily stored in a frac tank on site. CGI removed all soil from the vault and shipped it for offsite disposal to Chemical Waste Management of Arlington, Oregon, a permitted Subtitle C / Toxics Substances Control Act (TSCA) landfill. Approximately 211.35-tons of soil were disposed of in accordance with the requirements of 40 CFR 761. Disposal records are included in Appendix G.

During excavation of the portion of the vault that extends towards the south, the soil type abruptly changed to a dense gravel material, and the vault appeared to end. As such, a new waste characterization soil sample was collected for PCB analysis, and PCBs were reported at a concentration of 0.14 mg/kg (lab report 2312-300, sample ID 'W. Pwrhouse Vault Soil-2'). Given the low concentration of PCBs at the south end of the vault, no further excavation was conducted, and the vault was backfilled with crushed rock as specified in the demolition plan for other subsurface features at the facility.

4.8 LIME HOPPER RELEASE INCIDENT

On 11/22/2023, an elevated (approximately 25-foot high) lime storage hopper located on the southwest side of the main structure was breached by Star Forge's demolition contractor while cutting into the structure for demolition. The breach resulted in an estimated 500-lbs of lime falling from the vessel onto the ground. No injuries or exposures were reported because of this release and no lime was released into the LDW. However, due to the lime designating as Dangerous Waste, the Washington State Emergency Management Division (1-800-258-5990) was notified in addition to the National Response Center (1-800-424-8802). Beau Johnson, the Ecology Site Manager, was also notified, in addition to the Boeing Environmental Health and Safety manager for the property to the south. The incident was assigned ERTS number 726905. Cleanup of the dispersed lime as well as removal of the existing lime in the storage hopper was completed on December 7, 2023. Further details about the release and cleanup are included in the Final Clean Closure Report included in Appendix B.

4.9 STORMWATER MANAGEMENT

Stormwater from the site drains to the LDW. All stormwater was managed under the requirements of Washington State Industrial Stormwater General Permit (ISGP) WAR003231, Administrative Orders 18074 and 18170, and King County Discharge Authorization # 1122-01 & 02. The Administrative Order required all stormwater to be treated on the site and retained until data is received confirming that the treated batch is in compliance with indicator levels and benchmarks included in the permit and Administrative Orders. Based on hydrology modeling, site rainfall history, and historic site data, Star Forge determined the required storage capacity to maintain an

appropriate volume in storage tanks to collect and retain treated stormwater while awaiting analytical results to determine if stormwater met the applicable water quality parameters.

4.9.1 Stormwater Treatment

The onsite stormwater treatment system included settling tanks, sand filters, enhanced chitosan treatment, and final polishing with a granular activated carbon/proprietary metals treatment media. Monitoring of water quality was conducted per batch of stormwater treated to verify compliance with discharge limits/indicator levels and to monitor treatment media effectiveness and prevent breakthrough prior to media replacement. 104 batches of stormwater were sampled since April 2020, and all batches met the discharge requirements of the ISGP, Administrative Orders and King County discharge authorization. The goal was to discharge all water to the LDW, however due to delays in receiving laboratory results for approval to discharge to LDW, approximately 8.6 million gallons were discharged to King County under discharge authorization 1122-01 and 02.

4.9.2 Post Demolition Stormwater Conveyance System Cleaning

Upon completion of all demolition activities and site paving, the stormwater conveyance system was cleaned as required by the City of Tukwila Demolition Permit and the ISGP. On March 25, 2024, the system cleaning was completed. The system was cleaned via jet rodding and pressure washing to the extent possible utilizing industry standard equipment. All conveyance system cleanout waste was collected, designated, and disposed offsite at properly permitted disposal facilities.

4.9.3 Stormwater Conveyance System Engineering Assessment

As required by the City of Tukwila demolition permit, a third-party engineer from PACLAND performed a site visit on March 15, 2024, to evaluate the condition of the existing site after demolition of buildings and stabilization of the disturbed areas, which consisted of paving/grading operations to direct stormwater runoff to existing storm drainage infrastructure. The evaluation concluded that the storm drainage system is functioning properly. The Engineer Certification Letter is included in Appendix H.

4.9.4 ISGP Termination

Because demolition has been completed and no industrial operations are active at the site, a Notice of Termination of the ISGP was filed by Star Forge and was received on June 10th, 2024. However, due to documented contamination in soil and groundwater at the site, a new Administrative Order (Docket # 22970) was issued on July 25th, 2024, that requires Star Forge to continue treating stormwater at the site to ensure discharges from the site meet Washington State Water Quality Standards. However, batch testing is no longer required as the treatment system has sufficiently demonstrated that the treated discharge meets all indicator levels. Administrative Docket Order # 22970 is included as Appendix I for reference.

4.10 CULTURAL RESOURCE MONITORING

In accordance with the IAWP and State Environmental Policy Act requirements, the demolition and Interim Action work required a Cultural Resources Inadvertent Discovery Plan (IDP) which required archeological monitoring during all ground disturbing activities. Archaeological monitoring pursuant to the IDP was provided by Stell Environmental Enterprises. No significant archaeological resources were discovered during any excavations requiring monitoring during demolition of the Property Structures, or completion of the IAWP. The final Cultural Resources Monitoring Report prepared by Stell Environmental Enterprises is included in Appendix J.

Section 5: CONCLUSIONS

Star Forge has completed all Interim Action work specified in Agreed Order No. DE 21034, and in accordance with the associated IAWP. The Permanent Closure requirements of the UST Systems have been met along with completion of the Clean Closure of the DWMU's. The Permanent Closure UST Site Assessment was prepared and submitted to Ecology in accordance with WAC 173-360A-0810(3) and WAC 173-360A-0730 and Ecology determined that the UST Systems were permanently closed by removal. A Final Dangerous Waste Clean Closure Report was prepared and submitted to Ecology to demonstrate compliance with WAC 173-303-200(h) and WAC 173-303-610 (2) and (5). No significant deviations from IAWP were required other than approved use of control density fill in the 5,000-ton press vault. All notable and/or unanticipated tasks associated with demolition and facility closure outside of the IAWP scope were disclosed to and coordinated with Ecology as well as all appropriate regulatory agencies in concurrence with demolition and property restoration.

Section 6: REFERENCES

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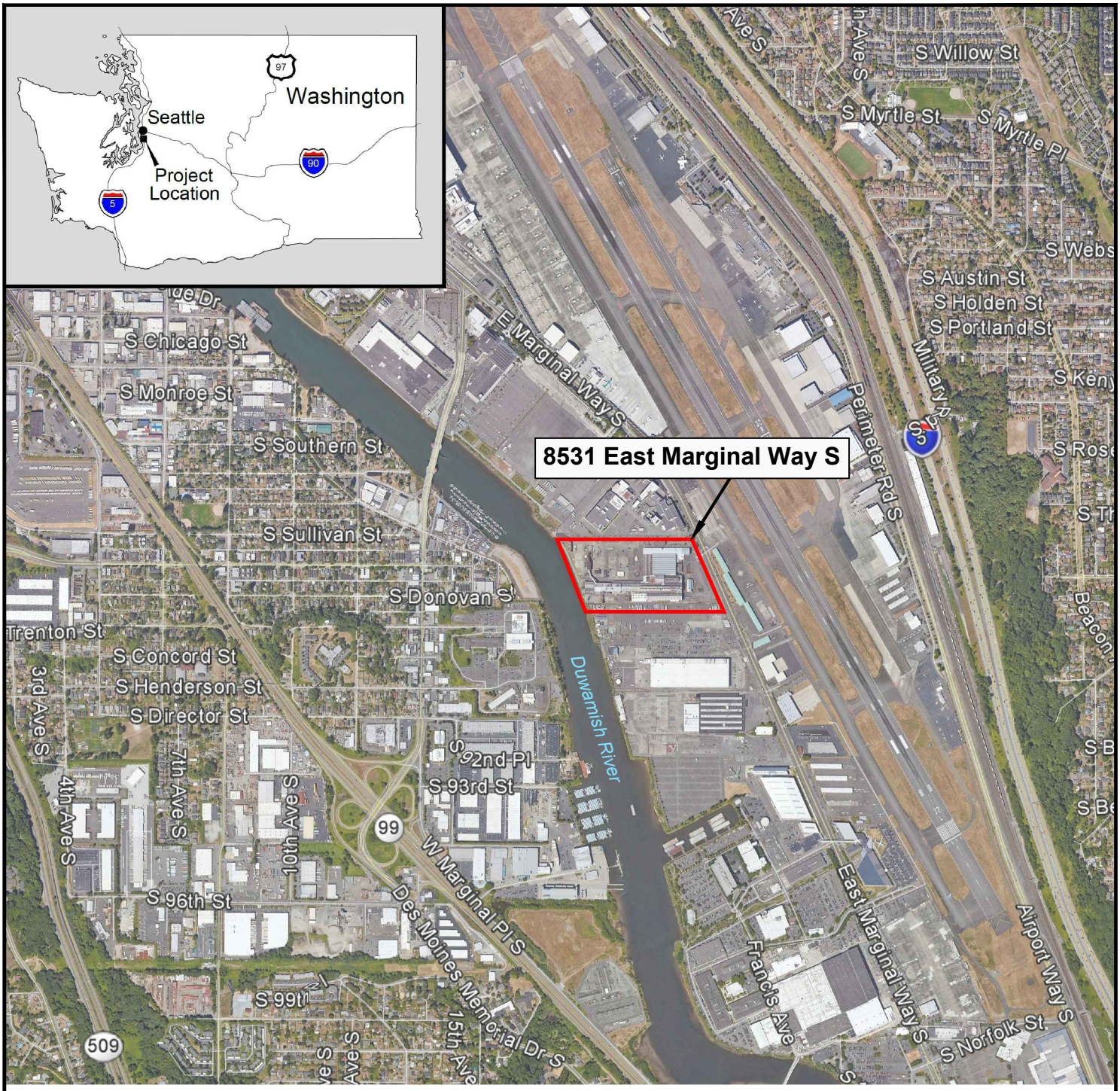
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Legend

Former Jorgensen Forge Property

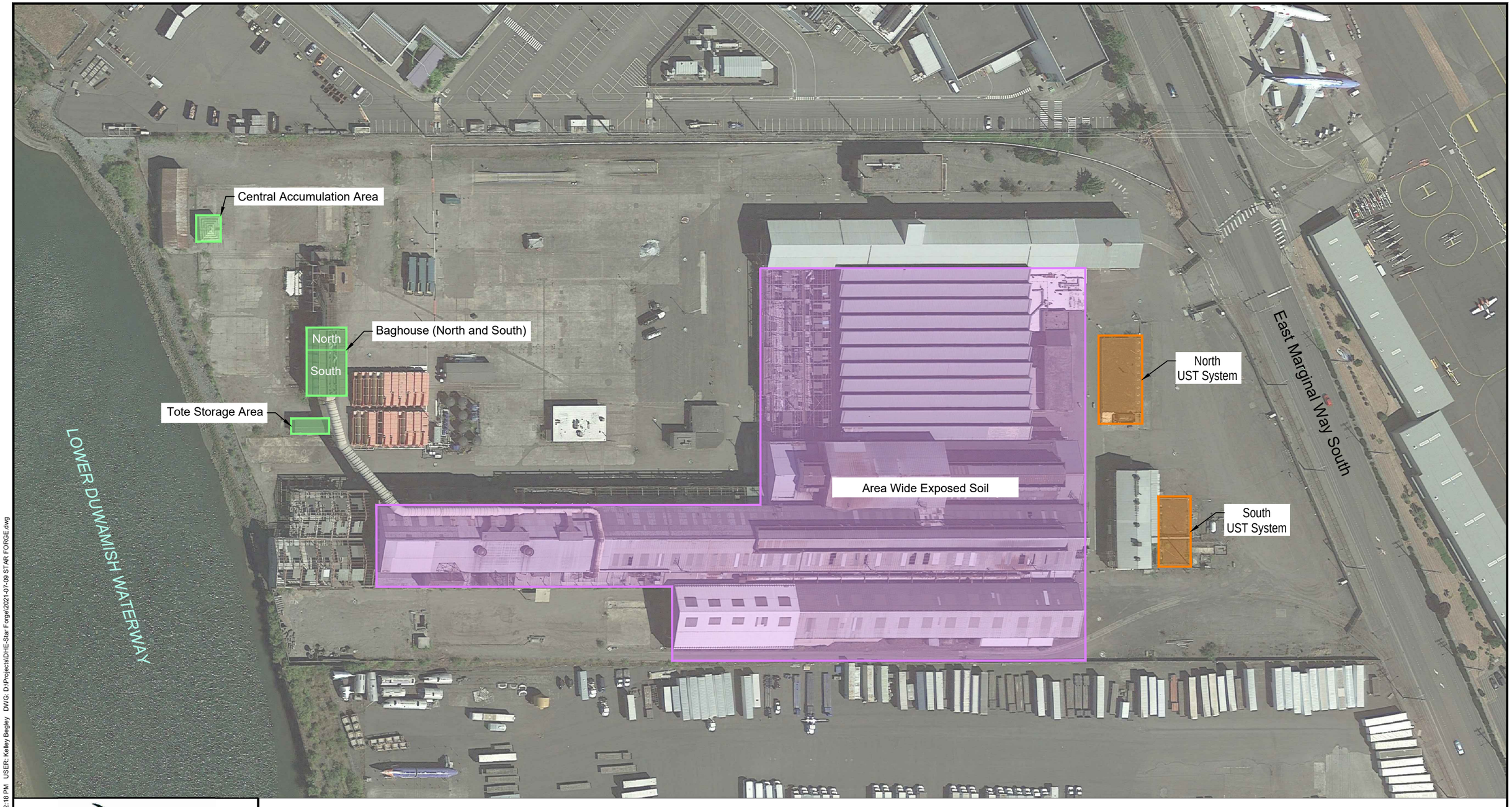
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Background Images Source: Google Earth Pro 5/26/2018

DH Environmental Inc

Vicinity Map

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	02-05-2024	Figure 1



Interim Action Work Areas

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, WA, 98108	07/12/2021	Figure 2

Legend

- Former Dangerous Waste Management Units
- Underground Storage Tank Systems
- Area Wide Interior Soil and Dust

Note:

1. Aerial Photography Source: Google Earth Pro, 08/14/2020.

N

0 60 120

Scale in Feet

PLOT TIME: 7/12/2021 2:19 PM MOD TIME: 7/12/2021 2:18 PM USER: Kelley Begley DWG: D:\Projects\DHE-Star Forge\2021-07-09 STAR FORGE.dwg

Appendix A

UST Decommissioning and Site Assessment Report

Underground Storage Tank Decommissioning and Site Assessment Report

Former Jorgensen Forge Property
8531 E. Marginal Way S.
Tukwila, WA 98108

Prepared For:

Star Forge, LLC

Prepared By:

DH Environmental, Inc.
1011 SW Klickitat Way
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Seattle, Washington

May 8, 2024

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Section 1: INTRODUCTION

DH Environmental, Inc. (DH Environmental) has prepared this Underground Storage Tank (UST) decommissioning and site assessment report on behalf of Star Forge, LLC (Star Forge), the current owner of the former Jorgensen Forge Facility located at 8531 East Marginal Way South, in Tukwila, Washington (herein referred to as the Property) (Figure 1).

This report has been prepared in accordance with Agreed Order No. DE 21034, entered into by Star Forge and the Washington State Department of Ecology (Ecology), pursuant to the Washington State Model Toxics Control Act (MTCA) and Cleanup Regulation established in Chapter 173-340 of the Washington Administrative Code (WAC).

1.1 SITE DESCRIPTION

The former Jorgensen Forge Property consists of approximately 21.6 acres located in an industrial area along the east bank of the Lower Duwamish Waterway (LDW). The Property is bordered to the north by Boeing Plant 2, and to the south by the Boeing Isaacson property. It is bordered to the west by the LDW, and to the east by East Marginal Way South and the King County Regional Airport.

The Property was used from 1942-1965 for fabrication of structural steel, tractor, and road equipment, including forging and heat-treating operations conducted for the U.S. Navy. It was owned and operated by Earle M. Jorgensen Co. (EMJ) from 1965 until 1992, when it was purchased by Jorgensen Forge Corporation (JFC). JFC manufactured specialized large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. JFC also processed nickel, titanium, and specialized alloys.

Historical industrial use of the Property has contaminated soil and groundwater, including in the vicinity of the USTs described in this report. Star Forge bought the Property out of bankruptcy in November 2016. As part of the bankruptcy proceeding, the bankruptcy court approved a settlement agreement pursuant to which EMJ was required to enter into an agreed order with Ecology to investigate and remediate contaminated soils and groundwater at the Property and any locations where hazardous substances released on the Property have come to be located (the Site). In fulfillment of that requirement, EMJ entered into Agreed Order No. DE 14143 with Ecology in 2017. At this time, EMJ is conducting a Remedial Investigation (RI) of the Site. This report and site assessment data will be provided to EMJ and Ecology for reference in the RI.

1.2 UNDERGROUND STORAGE TANK SYSTEMS

At the time Star Forge and Ecology entered into Agreed Order No. DE 21034, the Property had 18 remaining USTs located in two separate concrete vaults. The tanks were emptied of liquids, licensed with Ecology, and covered under financial assurance mechanisms. The USTs were

associated with Ecology UST identification number 6163 and were grouped into a North Tank Vault (UST-26 through -35) and a South Tank Vault (UST-15 through -22), as shown in Figures 2 through 4.

To be consistent with previous naming conventions, the names of all tanks referenced in this report follow the naming convention presented by Shannon & Wilson in 2019 (Shannon & Wilson, 2019). A copy of Shannon and Wilson's 2019 figure and naming convention is provided for reference in Appendix A.

The USTs in each tank-bed were buried below grade but within concrete vault structures that extended above grade. Both tank nests were constructed within the basement of former buildings. Once the former buildings were demolished, the voids around the tanks were filled with sand and slag that was available from forging operations on-site. The North Tank Vault included a concrete base that was approximately 5-feet below the surrounding grade. The concrete walls of the South Tank Vault extended slightly deeper and did not contain a concrete bottom.

DH Environmental collected samples from the tank contents and surrounding fill-slag for waste designation purposes in 2020. The contents of the USTs and surrounding fill material was designated as non-hazardous waste (DH Environmental, 2020; DH Environmental, 2020b; DH Environmental 2020c).

1.3 LOCAL GEOLOGY AND HYDROGEOLOGY

The Property is located within the Duwamish/Cedar River valley, part of the Puget Lowland, a regional low-lying trough between the Cascade Range to the east and the Olympic Mountains to the west. The Puget Lowland has largely been filled with sediment deposits left behind by glaciers that advanced and retreated multiple times through the Puget Lowland within the last 2 million years. Sediment within the Duwamish Valley primarily consists of sand and silt which has washed down from Mt. Rainier. This material is often interbedded with layers of silt, clay, and organic soils from localized deposits associated with lakes and ponds that formed along the river valley, or mudflats that formed along Puget Sound. Fill materials were also placed throughout the River Valley since the early 20th century, including in portions of the Property when the Duwamish Waterway was straightened, dredged, and historical channels and embayments were filled.

Shallow subsurface soils at the Property generally consist of a mixture of sand, silty sand, and gravel, to depths up to 24 feet below grade. Fill materials tend to be thickest at the western end of the property along the LDW (Shannon & Wilson, 2022). Soils below the North Tank Vault primarily consisted of brown to gray, fine to medium sand with trace gravel. Shallow soils at the South Tank Vault were similar, while soils below the base of the excavation contained higher amounts of silt and organics, and appeared to be native soils.

Groundwater in the vicinity of the tank vaults, as measured in nearby monitoring wells MW-11, MW-14, and MW-15, has ranged from approximately 10.5- to 12-feet below grade (Shannon & Wilson, 2022). Groundwater flow at the Property generally moves west, but varies depending on the season and proximity to the LDW (Shannon & Wilson, 2022). Groundwater was not encountered during the UST decommissioning activities.

Section 2: UNDERGROUND STORAGE TANK DECOMMISSIONING

This section describes the UST decommissioning activities for the 18 USTs on the Property. The tanks and piping inside the concrete vaults were decommissioned and removed between August 9 and August 17, 2023. The piping outside of the North Tank Vault was removed on August 21 and October 11, 2023. The piping outside of the South Tank Vault was removed on October 11 and 12, 2023.

UST decommissioning activities were overseen by Mr. Brad Reilly with ECI Environmental Services (ECI), under subcontract to the demolition contractor for the project, Construction Group International, of Woodinville, Washington (CGI). Mr. Reilly is certified by the International Code Council for UST Decommissioning. A DH Environmental licensed hydrogeologist was also on site to observe the decommissioning and to perform site assessment activities.

2.1 PRELIMINARY ACTIVITIES

2.1.1 Ecology 30-day Notice

Prior to decommissioning the USTs, Star Forge submitted a 30-Day Notice of Intent to Decommission USTs form to Ecology, as required by WAC 173-360A-0810. A copy of the 30-Day Notice is included in Appendix B.

2.1.2 City of Tukwila Fire Department Permit

The City of Tukwila requires a permit for the permanent closure of USTs. Prior to decommissioning the USTs, Star Forge obtained a Fire Permit for Tank Removal from the City of Tukwila. A copy of Fire Permit F23-0135 is included in Appendix C.

2.1.3 Underground Storage Tank Cleaning

Prior to removal of the USTs, the tanks were cleaned and triple-rinsed by Marine Vacuum Services of Seattle, Washington (MarVac). Rinse certificates are provided in Appendix D.

2.2 UNDERGROUND STORAGE TANK REMOVAL

CGI removed the USTs in both tank vaults between August 9 and August 18, 2023. Once the tanks had been cleaned, the above-ground concrete vault structure and fill materials overlying the tanks were removed. Three USTs in the North Tank Vault, UST-26, -28, and -31, were previously filled with sand. The top of these three tanks were cut open and the sand was removed with an excavator. Residual sand was removed by tilting the tanks on end and dumping the loose sand out. Once the sand had been removed, the empty tanks were removed in the

same manner as the others, by lifting the tanks out of the ground using an excavator. Once removed from the ground, the tanks were scraped and brushed clean to remove any loose soil or debris prior to transport. They were then loaded onto trucks and shipped for recycling as described in Section 2.3. Removal and disposal of the concrete vault structures and backfill materials are also described in Section 2.3.

USTs -26 through -35, in the North Tank Vault, generally appeared in good condition at the time of removal. They were well protected with numerous sacrificial anodes surrounding each tank. The paint on the tank walls was still intact, and no holes or areas of significant corrosion were visible.

USTs -15 through -22, in the South Tank Vault, generally appeared in much worse condition than the tanks from the North Tank Vault. No sacrificial anodes were present on the South Tanks, and significant corrosion and pitting was visible on each tank. In some instances, corrosion holes were visible completely through the tank walls.

Photos of the tank removal work are included in a photo log in Appendix E. Decomissioning certificates are included in Appendix F.

Piping within the concrete vaults of each tank area was removed concurrently with the tanks. The piping was disconnected at each tank prior to the tanks being removed. ECI had a vacuum trailer on site for all piping removal work in the event liquids were present in the piping. No liquids were observed in any of the piping during removal. Removal of the product piping outside of the concrete vaults is described in Sections 2.2.1 and 2.2.2. Site assessment sampling activities are described in Section 3.

2.2.1 Piping Removal – North Tanks

At the North Tank Vault, a 4-inch diameter product pipe extended from the southeast corner of the concrete vault, due south towards the Aluminum Heat Treat Building (Aluminum Building), as shown on Figure 3. This is consistent with as-built drawings for the North Tank Vault. The pipe was exposed and removed on August 21, 2023. The pipe appeared to be a single length pipe without couplers. The pipe ran underneath the north foundation wall of the Aluminum Building where it was cut flush with the foundation wall. No liquids were observed in the pipe when it was cut. Soil from the piping trench was temporarily stockpiled for offsite disposal.

On October 11, 2023, after the Aluminum Building had been demolished, the remaining section of piping was removed. The piping was discovered to have been previously cut and capped approximately 1-foot north of the northern foundation wall of the Aluminum Building. The pipe was bent to form a 90-degree elbow and it had been cut and capped just past the elbow. Based on an interview with a former employee, this pipe had been removed to make room for the installation of the Aluminum Heat Treat Furnace Pit in the mid-1970s. At that time the building

use transitioned from the Powerhouse into use as the Aluminum Heat Treat Building. The product pipe is shown in Photo 7 in the Photo Log in Appendix E.

Soil generated during removal of the last segment of piping was added to the temporary soil stockpile, where it was covered until the product piping had been removed from the South Tank Vault. Disposal of the soil is described in Section 2.3.

2.2.2 Piping Removal – South Tanks

At the South Tank Vault, a single 2-inch diameter product pipe was observed to extend from inside the tank vault, west beneath the Aluminum Building. After the Aluminum Building had been demolished, the piping beneath the slab was exposed and removed on October 11 and 12, 2023. The product piping alignment is shown in Figure 4, and it appears to have been installed so that it was routed around the former Aluminum Heat Treat Furnace Pit.

Consistent with historical drawings of the area, a second pipe, believed to be a fuel return line, was visible in the same trench as the product pipe. A third pipe, believed to be a steam line, was also present. The second and third pipes appeared to have been previously cut approximately 15-feet south of where the first pipe entered the tank vault. A small electrical conduit was also present in the same trench, and all three pipes and the electrical conduit ran west underneath the former Aluminum Building. At the west edge of the Aluminum Building, the piping turned and ran north approximately 15-feet, where it entered a utilidor. The utilidor continued approximately 25-feet north, where it turned and ran west underneath the former drive lane between the main shop building and the aluminum building.

The top of the utilidor was constructed with a concrete slab approximately 12-inches thick. The portion of the slab underneath the drive lane was also covered with a layer of asphalt paving. The concrete lid was broken apart using a hydraulic hammer to expose the product piping in the utilidor. Once exposed, the product lines from the tank vault were observed to enter the utilidor where at least some of them appeared to have been cut and capped. Other lines of unknown purpose were also present in the utilidor, including portions of lines that had been cut or broken at some point prior to the utilidor being exposed. Most of the lines in the utilidor were not labeled, or the labeling was not legible. Some of the lines were still present where the utilidor entered the main shop building, and labeling on the shop ends of the pipes indicated at least two pipes labeled as “fuel oil”, one pipe labeled as “fuel oil return”, one pipe labeled “propane”, and another pipe labeled “compressed air”. More pipe segments were visible in the utilidor than were visible inside the shop building, and the original purpose or contents of these lines are unknown. Photos of the piping removal, including piping in the utilidor, are included in the Photo Log in Appendix E.

CGI cut the rebar from the top of the utilidor to allow access to the underlying piping. ECI had a vacuum trailer on site for the piping removal work in the event liquids were present in the piping. The piping was lifted out of the utilidor using an excavator to slope the piping away from portions that had to be cut with a demolition saw. No liquids were observed in any of the piping

during removal. After the rebar and piping had been cut and removed, the utilidor was emptied of debris in preparation for sampling and backfill.

Rainwater was observed to have accumulated in the utilidor prior to breaking open the concrete lid. The water was confirmed during an inspection of the utilidor by CGI on October 10, 2023, prior to demolition of the utilidor top. Additional rainwater may have also entered during rain events on October 11, 2023, when 0.39 inches of precipitation fell (NOAA, 2024). A slight sheen was present on the water along with a petroleum type odor. A sample of the water was collected using a disposable bailer on October 12, 2023, for waste designation purposes, and the water was removed from the utilidor by ECI using a vacuum trailer. Approximately 275-gallons of water was removed and temporarily stored in a Department of Transportation (DOT) rated shipping tote. Once the water had been removed, CGI crews removed the remaining pieces of concrete debris in preparation for soil sampling and backfilling.

Prior to the utilidor being backfilled, a soil sample was collected beneath the utilidor on October 13, 2023 as part of site assessment activities, as described in Section 3.2. Disposal of the soil, concrete and water generated during piping removal activities are described in Section 2.3

2.3 WASTE DISPOSAL

2.3.1 Underground Storage Tank and Product Piping Disposal

Each of the 18 USTs were loaded onto trucks for transportation to a metal recycling facility. Product piping was combined with rebar from the concrete vault structure and other recyclable materials generated from demolition activities. All scrap metal from the project was disposed of to Sutter Metals in Tacoma, Washington, or Seattle Iron and Metals Corporation, in Seattle, Washington.

2.3.2 Concrete and Soil Disposal

On August 14, 2023, the concrete vault structures were sampled for waste designation purposes. Sampling was conducted to confirm that petroleum or metals that may have leached into the concrete would not designate as hazardous or dangerous waste. The concrete was determined to be non-hazardous waste suitable for disposal to a subtitle D landfill. A copy of the waste designation package is included in Appendix G.

The backfill material consisting of slag, sand, and gravel surrounding the tanks was previously sampled and designated as non-hazardous waste (DH Environmental, 2020). As a result, no further sampling was conducted of the tank backfill, and it was loaded into trucks for offsite disposal. Because the South Tank Vault did not contain a concrete bottom, backfill materials were removed to the depth of the base of the tanks, approximately 8-feet below grade.

Once the tank backfill materials were removed, the concrete vault structures were also removed.

The concrete from the vault structures was processed within the footprint of the respective excavation areas to remove rebar and facilitate loading onto trucks. The rebar was segregated for recycling and the concrete was loaded into trucks for offsite disposal.

Soil and concrete generated during the product piping removal was temporarily stockpiled until all piping removal activities were complete. The soil was sampled for waste designation purposes and determined to be non-hazardous waste, suitable for disposal to a subtitle D landfill. A copy of the piping soil designation package is included in Appendix H.

A total of 4,082.59-tons of soil and concrete were transported for disposal to Roosevelt Regional Landfill, in Roosevelt, Washington. The Roosevelt Landfill is a permitted Subtitle D Landfill operated by Republic Services. A copy of the soil and concrete disposal records is included in Appendix I.

2.3.3 Water Disposal

Analytical results for the tote of water pumped from the South Tank Vault piping utilidor resulted in a waste designation determination that the water was non-hazardous waste. A copy of the waste designation package is included in Appendix J. The water was temporarily stored in a DOT-rated 275-gallon shipping tote until it was pumped out via vacuum truck by DH Environmental on December 4, 2023. Due to the small volume of water, it was combined with water generated during cleaning of several subsurface vaults on the property, unrelated to the UST decommissioning activities. This water was temporarily stored in a 20,000-gallon frac tank, before being disposed of to MarVac in Seattle, Washington in December 2023.

2.4 BACKFILL AND RESTORATION

Following the collection of site assessment samples, described in Section 3, the North and South Tank Vault excavations were backfilled between September 6 and 15, 2023. The base and sidewalls of the excavation were lined with plastic sheeting prior to backfilling. The backfill was placed in lifts and compacted to 95% compaction. Compaction testing was conducted by Krazan and Associates under subcontract to CGI.

Backfill of the product piping trenches and piping utilidor was conducted on October 13, 2023.

Backfill material consisted of 1-1/4” crushed rock sourced from the ICON Materials quarry in Auburn, Washington. Prior to being imported into the Site, all import backfill was tested at the quarry to confirm it met backfill requirements, as specified in the Interim Action Work Plan. Analytical results for the import backfill are reported under separate cover as part of the Interim Action Completion Report.

Paving of the excavation areas and piping trenches was conducted as part of final site restoration in March, 2024.

Section 3: SITE ASSESSMENT SAMPLING

Following removal of the USTs and product piping, site assessment soil samples were collected as described in the following sections. Sample locations are shown in Figures 3 and 4. All confirmation soil samples from the UST vaults were collected from the excavator bucket, with care taken to ensure the sample was not collected from soil in direct contact with the bucket. All soil samples were collected in general accordance with the Ecology-approved Interim Action Work Plan (IAWP; DH Environmental, 2023). Groundwater was not encountered during the tank removal or site assessment sampling activities.

3.1 NORTH TANK VAULT

Site assessment soil samples from the North Tank Vault and associated product piping were collected between August 21 – 30, 2023. Soil samples were collected from the base and sidewalls of the excavation following removal of the concrete vault surrounding the former USTs.

Soil samples from the base of the excavation were collected from an approximate depth of 6.5-feet below grade. This depth was approximately 0.5-feet below the base of the former concrete slab, at the interface with native soil. Soil samples from the sidewall of the excavation were collected from an approximate depth of 5-feet below grade, near the base of the sidewall.

A total of 27 soil samples were collected from the base and sidewalls of the North Tank Vault, including one duplicate sample. A total of three soil samples were collected beneath the piping run from the North Tank Vault. Piping samples were collected by hand, directly from the base of the piping trench following removal of the piping.

The majority of soil samples from the base of the North Tank Vault excavation were collected along the east side of the excavation, beneath the former fill ports of the tanks where releases were most likely to have occurred. One bottom sample, NT-SS-35, beneath the former tank UST-35, was moved to sample soil where a former sump was observed in the concrete vault. This sump was believed to be a feature associated with the former basement structure of the building that the tanks were installed in following building demolition.

Sidewall samples from the North Tank Vault were generally distributed equally around the perimeter of the excavation. Sidewall samples NT-SS-13, NT-SS-14, NT-SS-17, and NT-SS-18, were adjusted to focus on areas where staining was observed. Sidewall sample NT-SS-14 and bottom sample NT-SS-31 were collected near the former fill port for the USTs.

3.2 SOUTH TANK VAULT

Prior to collecting site assessment samples in the South Tank Vault, two test pits were advanced at the north and south ends of the South Tank Vault to investigate for the presence of a concrete

slab. Each test pit was advanced to a depth of 4-feet below the base of the tanks. The test pits confirmed that concrete was not present, which is consistent with as-built records for the South Tank Vault.

Site assessment soil samples from the South Tank Vault and associated product piping were collected between August 22 and October 13, 2023. Soil samples were collected from the base and sidewalls of the excavation following removal of the concrete vault surrounding the former USTs.

Soil samples from the base of the excavation were collected from an approximate depth of 8.5-feet below grade. This depth was approximately 0.5-feet below the base of the former tanks, at the interface with native soil. Soil samples from the sidewall of the excavation were collected from an approximate depth of 6.5-feet below grade, near the base of the sidewall.

A total of 23 soil samples were collected from the base and sidewalls of the South Tank Vault, including one duplicate sample. A total of three soil samples were collected beneath the piping run from the South Tank Vault. Piping samples ST-piping-SS-21 and ST-piping-SS-22 were collected by hand, directly from the base of the piping trench following removal of the piping. Piping sample ST-piping-SS-20 was collected from an excavator bucket, from a depth of 6.5-feet below grade, beneath a utilidor.

All of the soil samples from the base of the South Tank Vault excavation were collected along the west side of the excavation, beneath the former fill ports of the tanks where releases were most likely to have occurred. Sidewall samples from the South Tank Vault were generally distributed equally around the perimeter of the excavation. Sidewall sample ST-SS-15 was collected from stained soil near the former fill port for the USTs.

3.3 SAMPLE LOCATIONS

Site assessment soil sampling locations are shown on Figures 3 and 4. Sample locations were recorded using a mapping grade GPS unit capable of sub-meter accuracy (Trimble GeoXH or Trimble DA2). Where it was not safe to enter an excavation, the sample locations were recorded by surveying the corresponding northing or easting that lined up with each sample.

3.4 SITE ASSESSMENT ANALYTICAL RESULTS

All Site Assessment soil samples were analyzed for diesel-range organics (DRO) by Method NWTPH-Dx and gasoline-range organics (GRO) by Method NWTPH-Gx.

In accordance with the IAWP, and in consultation with Ecology, multiple soil samples were selected for follow-up analysis for the following compounds:

- 1-2, dibromoethane (EDB), 1-2, Dichloroethane (EDC), methyl tertiary-butyl ether (MTBE), benzene, toluene, ethylbenzene and xylenes (BTEX) and halogenated VOCs (HVOCs) by EPA Method 8260D,
- Polychlorinated biphenyls (PCBs) by EPA Method 8082, and,
- Carcinogenic Polyaromatic Hydrocarbons (cPAHs) and naphthalenes by EPA Method 8270E/Selected Ion Monitoring (SIM);
- Total RCRA 8 metals plus copper, nickel, and zinc, by EPA Methods 6010D (arsenic, barium, cadmium, chromium, lead, selenium, and silver) and 7471B (mercury).

The samples selected for follow-up analysis were chosen in consultation with Ecology, following review of the initial DRO and GRO data. Of the 15 samples selected for follow-up analysis, MTBE, EDB, EDC, and benzene were not reported in any of the soil samples at a concentration greater than or equal to the practical quantitation limit (PQL). Mercury, selenium and silver were also not reported in any of the soil samples at a concentration greater than or equal to the PQL. PCBs were reported in four samples at a concentration greater than or equal to the PQL, all at a total concentration of less than 1 milligram per kilogram (mg/kg). Naphthalene was reported in most follow-up samples at low concentrations, with the highest concentration reported at 2.9 mg/kg. A discussion of the results for select compounds is described in Sections 3.4.1 through 3.4.5.

The analytical results for DRO, GRO, Toluene, Ethylbenzene, and Xylenes, cPAHs, total metals, and PCBs are summarized in Tables 1 through 6. In each table, a compound was only listed if it was reported in at least one sample at a concentration greater than or equal to the PQL. A copy of the laboratory analytical reports is included in Appendix K.

3.4.1 Diesel- and Gasoline-Range Hydrocarbons

GRO and DRO were reported in soil samples from both the North and South Tank Vaults at elevated concentration.

GRO was reported at a maximum concentration of 480 mg/kg in the North Tank Vault, in sample NT-SS-17-5.0, which was collected along the south sidewall of the excavation. The highest concentration of DRO in the North Tank Vault was reported in the same sample at a concentration of 225,000 mg/kg.

GRO was reported at a maximum concentration of 1,300 mg/kg in the South Tank Vault, in sample ST-SS-8-8.5, which was collected from the base of the excavation at the south end. The highest concentration of DRO in the South Tank Vault was reported at a concentration of 18,000 mg/kg in sample ST-SS-17-6.5, located along the middle of the west sidewall of the excavation. The results for DRO and GRO for the North and South Tank vaults are summarized in Tables 1 and 2, respectively.

3.4.2 Toluene, Ethylbenzene, and Xylenes

Benzene was not reported in any of the site assessment samples at a concentration greater than the PQL. Toluene, ethylbenzene, and xylenes were reported at low concentrations in several samples. The results for Toluene, Ethylbenzene, and Xylenes are summarized in Table 3.

3.4.3 cPAHs

Each of the seven cPAH compounds was reported in one or more of the soil samples selected for follow-up analysis. Soil sample ST-piping-SS-22 contained the highest toxic equivalent concentration (TEC) of benzo(a)pyrene at 0.830 mg/kg. The results for cPAHs are summarized in Table 4.

3.4.4 Metals

Cadmium was only reported in one sample at a concentration greater than the PQL, sample ST-piping-SS-20-6.5, at a concentration of 0.85 mg/kg. This sample was collected beneath the product piping utilidor between the former Aluminum Building and the main shop building.

Arsenic was reported in three samples at a concentration greater than the PQL. The highest concentration of arsenic was reported in sample NT-SS-31-6.5, which was collected from the base of the North Tank Vault, near the midpoint along the east side, at a concentration of 39 mg/kg.

Nickel was elevated in one sample, NT-piping-SS-24, at a concentration of 910 mg/kg. This sample was collected beneath the northernmost product piping sample from the North Tank Vault. The results for total metals are summarized in Table 5.

3.4.5 PCBs

PCBs were reported in four of the follow-up soil samples at a concentration greater than the PQL. The highest concentration was reported in sample NT-piping-SS-24-2.0 at a concentration of 0.52 mg/kg. The results for PCBs are summarized in Table 6.

Section 4: CONCLUSIONS

The purpose of a UST site assessment is to determine if there has been a release of a regulated substance from a UST system. Confirmed and suspected releases have been reported from both former UST vaults as early as 1990 when Dames & Moore first identified elevated levels of petroleum in soil west of the former Aluminum Heat Treat Building (Dames & Moore, 1990). Later findings by SEACOR in 1991 supported this when they reported that three USTs in the North Tank Vault failed tightness testing. An additional investigation conducted in 1991 by SEACOR also identified light non-aqueous phase liquid (LNAPL) west of the former South Tank Vault (SEACOR, 1993 and 1993b). LNAPL was again identified west of the former North Tank Vault in 1995, along with high concentrations of DRO in soil west of the former South Tank Vault (Dames & Moore, 1999). More recent investigations by Shannon & Wilson also identified likely releases from both former UST vaults, including the presence of a significant LNAPL plume on groundwater west of the South Tank Vault (Shannon & Wilson, 2020).

As described above, multiple investigations conducted over a 30-year period have identified likely releases from the former North and South Tank vaults at the Jorgensen Site. The site assessment activities described in this report were conducted pursuant to Agreed Order No. DE 21034 following UST decommissioning by removal. In accordance with the requirements of WAC 173-360A-0730(8)(g)(iii), the results of this site assessment conclude there has been a release of a regulated substance from both the former North and South UST systems at the former Jorgensen Forge Site.

We recommend this information be considered by Ecology and EMJ during the remedial investigation and final cleanup of the Site.

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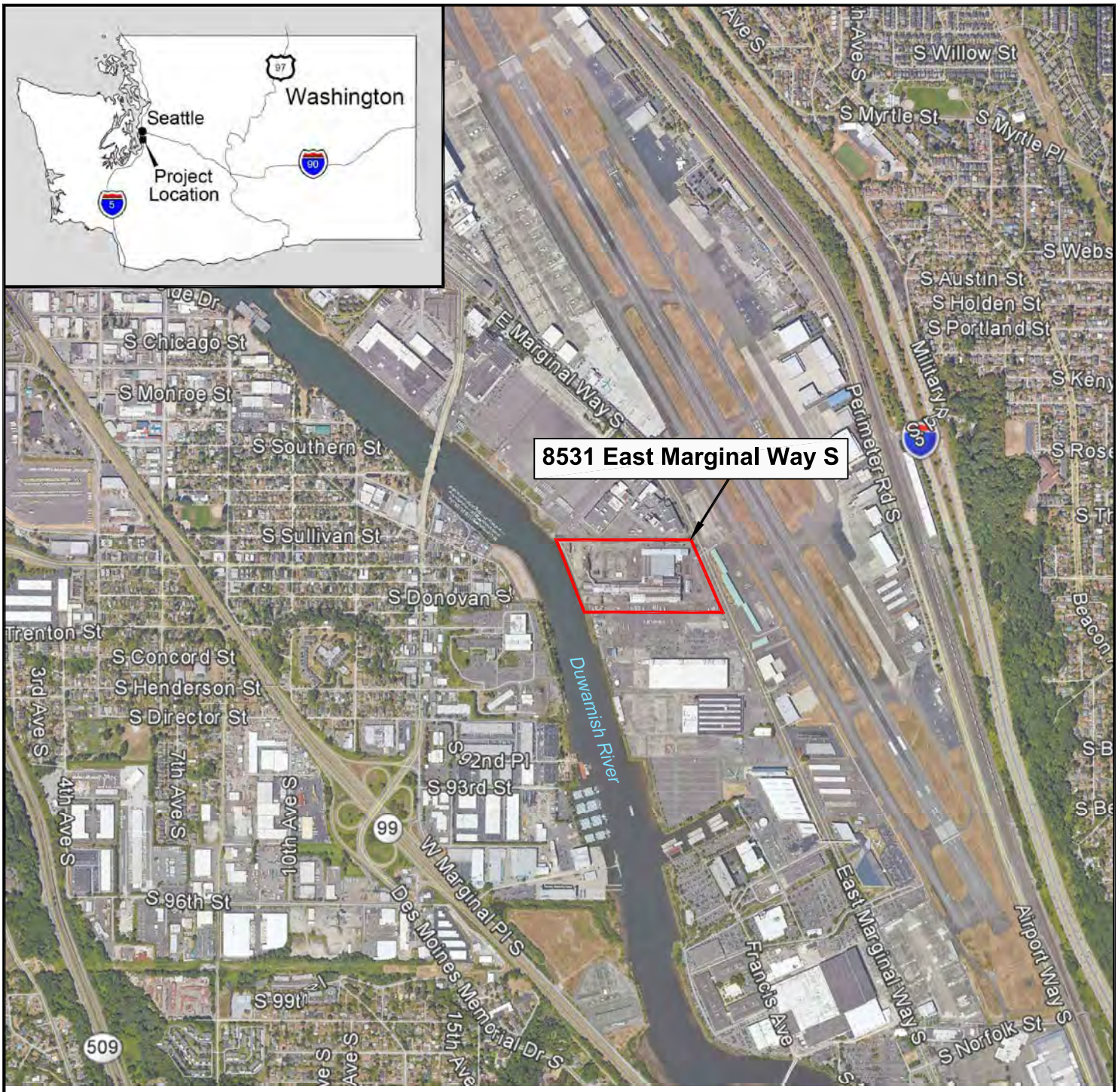
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Legend

Former Jorgensen Forge Property

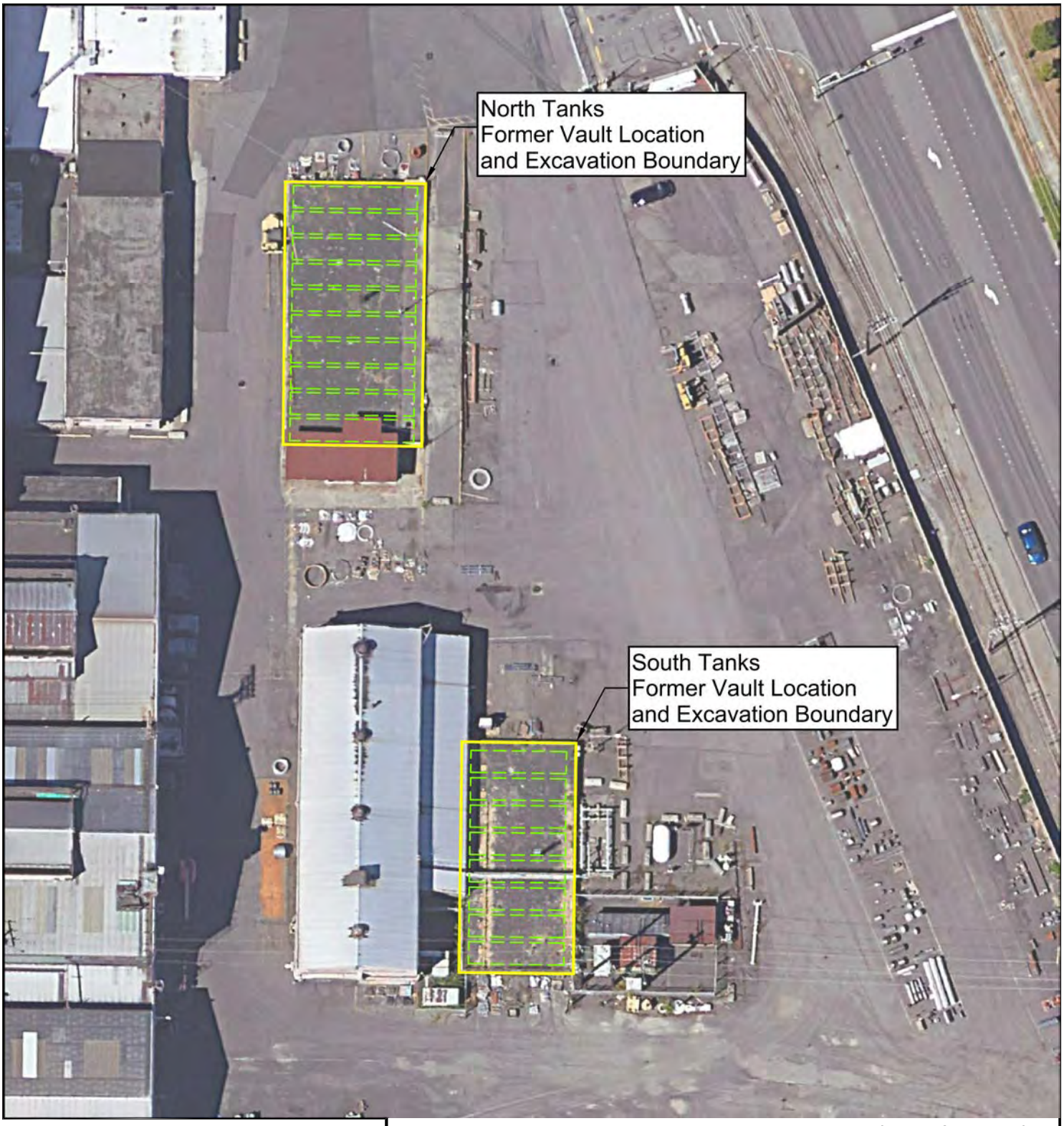
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Background Images Source: Google Earth Pro 5/26/2018

DH Environmental Inc

Vicinity Map

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	02-05-2024	Figure 1



DH Environmental Inc

North & South Tank Vault Location Map

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	02-05-2024	Figure 2

0 25 50

Scale in Feet

Legend

Former Underground Storage Tank Location

N

Background Images Source: Google Earth Pro 5/26/2018



DH Environmental Inc

North Tanks
Sample Location Map

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	01-26-2024	Figure 3

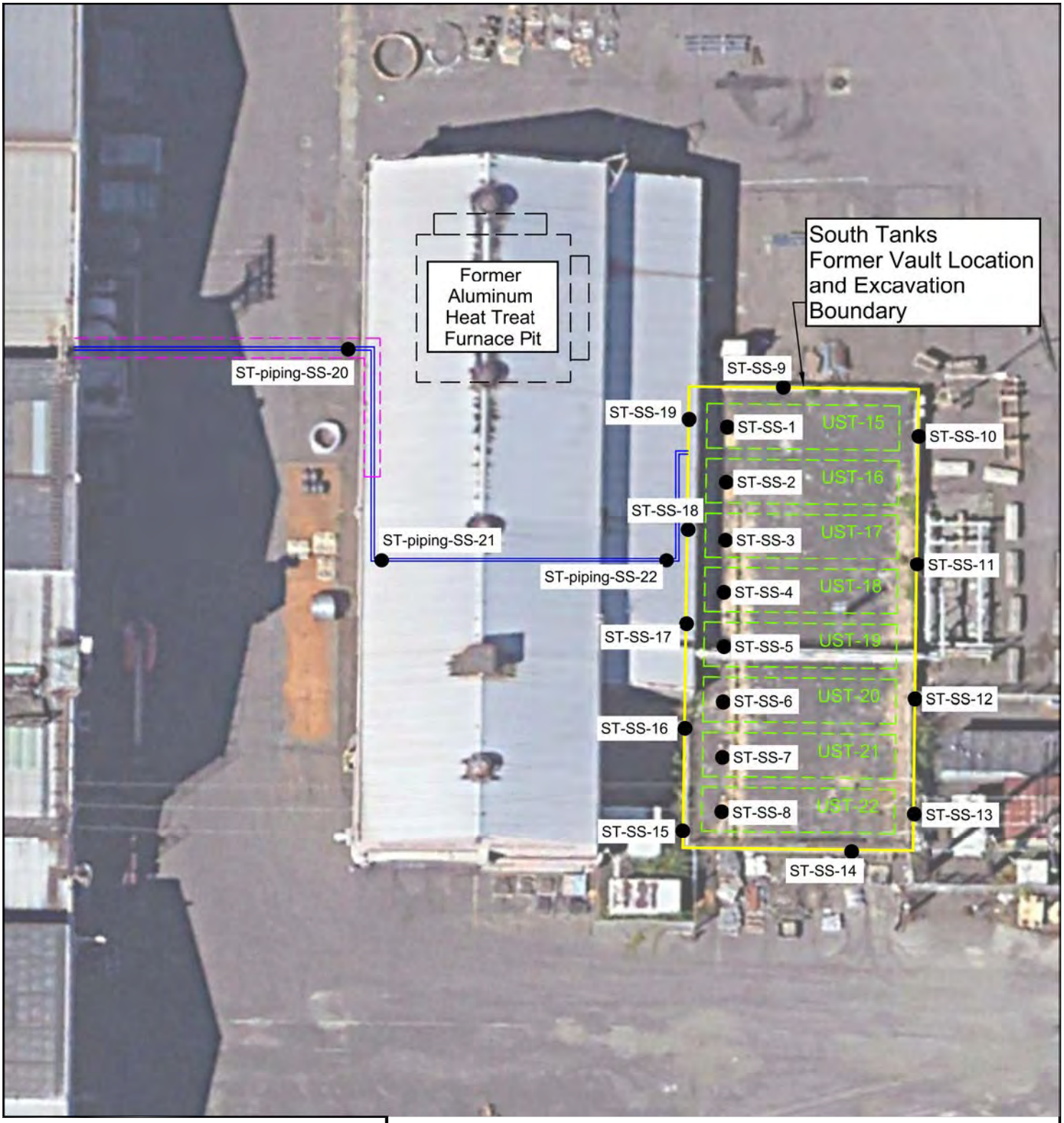
Legend

- Soil Sample Location and Designation
- Former Underground Storage Tank Location and Designation
- Former Product Piping Location

0 25
Scale in Feet

N

Background Images Source: Google Earth Pro 5/26/2018



DH Environmental Inc

South Tanks Sample Location Map

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	02-05-2024	Figure 4

Legend

- Soil Sample Location and Designation
- Former Underground Storage Tank Location and Designation
- Former Utilidor
- Former Product Piping

0 25
Scale in Feet

N

Background Images Source: Google Earth Pro 5/26/2018

Table 1
Analytical Results Summary Table - GRO & DRO
UST Site Assessment Soil Samples - North Tank Vault
Former Jorgensen Forge Facility
Tukwila, Washington

all values reported in units of mg/kg

Lab Report	Sample Date	Sample Location	Sample ID	GRO	DRO
2308-250	8/22/2023	North Tank Bottom	NT-SS-29-6.5-082223	4.9 U	57 U
			NT-SS-30-6.5-082223	5.8 U	58 U
			NT-SS-31-6.5-082223	80	32,000
			NT-SS-32-6.5-082223	5.3 U	60 U
			NT-SS-33-6.5-082223	5.7 U	61 U
			NT-SS-34-6.5-082223	280	10,800
			NT-SS-35-6.5-082224	6.5	6,600
			NT-SS-Dup-1-082223	6.5	14,000
2308-357	8/30/2023		NT-SS-28-6.5-083023	5.3 U	58 U
			NT-SS-27-6.5-083023	7.7 U	120
			NT-SS-26-6.5-083023	4.9 U	56
2308-315	8/28/2023	North Tank Sidewalls	NT-SS-17-5.0-082823	480	225,000
			NT-SS-18-5.0-082823	180	23,500
			NT-SS-19-5.0-082824	6.2 U	66 U
			NT-SS-16-5.0-082825	6.0 U	60 U
			NT-SS-15-5.0-082826	110	1,120
2308-357	8/30/2023		NT-SS-20-5.0-083023	5.2 U	96
			NT-SS-21-5.0-083023	5.1 U	59 U
			NT-SS-22-5.0-083024	5.3 U	59 U
			NT-SS-23-5.0-083024	6.2 U	65 U
			NT-SS-14-5.0-083025	450	37,900
			NT-SS-13-5.0-083025	100	51,900
			NT-SS-12-5.0-083026	5.6 U	56 U
			NT-SS-11-5.0-083026	7.2 U	69 U
2308-250	8/21/2023	North Tank Piping	NT-piping-SS-24-2.0-082123	6.4 U	8,900
			NT-piping-SS-25-2.0-082123	5.2 U	399
			NT-piping-SS-26-2.0-082123	4.8 U	120

Notes:

1. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory practical quantitation limit (PQL)
2. DRO concentrations include the sum of diesel-range and lube oil-range hydrocarbons. If neither diesel-range or lube oil-range hydrocarbons were reported in a sample at a concentration greater than the PQL, the greatest PQL value is listed with a "U" flag
3. Samples analyzed by Onsite Environmental, Inc., of Redmond Washington

Abbreviations

GRO = Gasoline-range organics
DRO = diesel-range organics
mg/kg = milligrams per kilogram

Analytical Methods

GRO by Method NWTPH-Gx
DRO by Method NWTPH-Dx

Table 2

Analytical Results Summary Table - GRO & DRO

UST Site Assessment Soil Samples - South Tank Vault

Former Jorgensen Forge Facility

Tukwila, Washington

all values reported in units of mg/kg

Lab Report	Sample Date	Sample Location	Sample ID	GRO	DRO
2308-250	8/22/2023	South Tank Bottom	ST-SS-8-8.5-082223	1,300	5,300
			ST-SS-7-8.5-082223	5.7 U	3,400
			ST-SS-6-8.5-082223	5.6 U	57
			ST-SS-1-8.5-082223	6.7 U	67 U
			ST-SS-2-8.5-082223	7.3 U	149
			ST-SS-Dup-2-082223	6.4 U	58
2308-357	8/30/2023		ST-SS-3-8.5-083023	56 U	330
			ST-SS-4-8.5-083023	5.8 U	130
			ST-SS-5-8.5-083023	120 U	430
		South Tank Sidewalls	ST-SS-15-6.5-083023	280 U	15,000
			ST-SS-16-6.5-083023	230 U	6,000
			ST-SS-17-6.5-083023	170 U	18,000
			ST-SS-18-6.5-083023	78 U	2,900
			ST-SS-19-6.5-083023	4.7 U	56 U
			ST-SS-9-6.5-083023	5.7 U	66 U
			ST-SS-10-6.5-083023	7.1 U	73 U
			ST-SS-11-6.5-083023	7.1 U	38
			ST-SS-12-6.5-083023	6.6 U	63 U
			ST-SS-13-6.5-083023	8.6 U	80 U
			ST-SS-14-6.5-083023	6.8 U	69 U
2310-177	10/13/2023	South Tank Piping	ST-piping-SS-20-6.5	220	4,260
			ST-piping-SS-21-2.0	4.8 U	380
			ST-piping-SS-22-2.0	4.0 U	190

Notes:

1. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory practical quantitation limit (PQL)
2. DRO concentrations include the sum of diesel-range and lube oil-range hydrocarbons. If neither diesel-range or lube oil-range hydrocarbons were reported in a sample at a concentration greater than the PQL, the greatest PQL value is listed with a "U" flag
3. Samples analyzed by Onsite Environmental, Inc., of Redmond Washington

Abbreviations

GRO = Gasoline-range organics

DRO = diesel-range organics

mg/kg = milligrams per kilogram

Analytical Methods

GRO by Method NWTPH-Gx

DRO by Method NWTPH-Dx

Table 3
Analytical Results Summary Table - Toluene, Ethylbenzene, & Xylenes
UST Site Assessment Soil Samples
Former Jorgensen Forge Facility
Tukwila, Washington

all values reported in units of mg/kg

Location	Sample ID	Toluene	Ethylbenzene	Xylenes
North Tank Bottom	NT-SS-31-6.5-082223	0.0041 U	0.00082 U	0.0084
	NT-SS-34-6.5-082223	0.26 U	0.051 U	0.20
	NT-SS-35-6.5-082224	0.0044 U	0.0021	0.057
	T-SS-Dup-1-082223	0.0048 U	0.0012	0.028
North Tank Sidewalls	NT-SS-17-5.0-082823	0.25 U	0.065	0.54
	NT-SS-18-5.0-082823	0.0047 U	0.15	0.39 J
	NT-SS-13-5.0-083025	0.0046 U	0.00092 U	0.0163
North Tank Piping	NT-piping-SS-24-2.0-082123	0.0058 U	0.0012 U	0.0023 U
South Tank Bottom	ST-SS-8-8.5-082223	0.33	0.80	6.5
	ST-SS-7-8.5-082223	0.0047 U	0.00094 U	0.0096
South Tank Sidewalls	ST-SS-15-6.5-083023	0.21 U	0.085	0.73
	ST-SS-17-6.5-083023	0.22 U	0.044 U	0.087 U
South Tank Piping	ST-piping-SS-20-6.5	0.40	0.46	3.0
	ST-piping-SS-21-2.0	0.0041 U	0.00082 U	0.0012
	ST-piping-SS-22-2.0	0.0037 U	0.00074 U	0.0015 U

Notes

1. Analytes are only shown if they were reported in at least one soil sample at a concentration greater than or equal to the laboratory practical quantitation limit (PQL).
2. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory PQL.
3. "J" denotes the reported concentration is an estimate
4. Xylenes concentrations include the sum of m,p-xylene and o-xylene. If neither compound was reported in a sample at a concentration greater than the PQL, the greatest PQL value is listed with a "U" flag.

Abbreviations

mg/kg = milligrams per kilogram

Analytical Methods

VOCs by EPA Method 8260D

Samples analyzed by Onsite Environmental, Inc., of Redmond Washington

Table 4
Analytical Results Summary Table - cPAHs
UST Site Assessment Soil Samples
Former Jorgensen Forge Facility
Tukwila, Washington

all values reported in units of mg/kg

Sample ID	Benzo[a]anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(j,k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	TEC
TEF	0.1	0.01	0.1	0.1	1	0.1	0.1	
NT-SS-31-6.5-082223	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	--
NT-SS-34-6.5-082223	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	--
NT-SS-35-6.5-082224	0.0078 U	0.0098	0.0097 U	0.0078 U	0.010 U	0.0088 U	0.0078 U	--
T-SS-Dup-1-082223	0.036	0.052	0.093 U	0.015 U	0.10 U	0.026 U	0.015 U	0.004
NT-SS-17-5.0-082823	0.026	0.072	0.041 U	0.020 U	0.033 U	0.031 U	0.036 U	0.003
NT-SS-18-5.0-082823	0.0028	0.0062	0.0045 U	0.0021 U	0.013 U	0.0054 U	0.0022 U	0.000
NT-SS-13-5.0-083025	0.13	0.15	0.097	0.036 U	0.14	0.080	0.036 U	0.172
NT-piping-SS-24-2.0-082123	0.033 UJ	0.038 J	0.056 J	0.062 J	0.033 UJ	0.033 UJ	0.033 UJ	0.012
ST-SS-8-8.5-082223	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	--
ST-SS-7-8.5-082223	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	--
ST-SS-15-6.5-083023	0.035 U	0.16	0.035 U	0.035 U	0.042	0.035 U	0.035 U	0.044
ST-SS-17-6.5-083023	0.13	0.38	0.046	0.035 U	0.074	0.035 U	0.035 U	0.095
ST-piping-SS-20-6.5	0.030 U	0.071	0.045	0.030 U	0.034	0.030 U	0.030 U	0.039
ST-piping-SS-21-2.0	0.11	0.13	0.18	0.056	0.13	0.16	0.031	0.185
ST-piping-SS-22-2.0	0.57	0.59	0.68	0.23	0.63	0.37	0.088	0.830

Notes

1. Analytes are only shown if they were reported in at least one soil sample at a concentration greater than or equal to the laboratory practical quantitation limit (PQL).
2. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory PQL.
3. "J" denotes the reported concentration is an estimate
4. "--" indicates a TEC value was not calculated, because none of the individual cPAH compounds were reported at a concentration greater than or equal to the PQL.

Abbreviations

cPAHs = Carcinogenic Polyaromatic Hydrocarbons
mg/kg = milligrams per kilogram
TEF = Toxic Equivalent Factor, (WAC 173-340-708
TEC = Toxic Equivalent Concentration of benzo(a)pyrene

Analytical Methods

cPAHs by EPA 8270E/SIM
Analyzed at Onsite Environmental, Redmond, Washington

Table 5
Analytical Results Summary Table - Total Metals
UST Site Assessment Soil Samples
Former Jorgensen Forge Facility
Tukwila, Washington

all values reported in units of mg/kg

	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Zinc
NT-SS-31-6.5	39	26	0.58 U	7.2	17	5.8 U	12	19
NT-SS-34-6.5	12 U	24	0.60 U	7.0	11	6.0 U	8.1	21
NT-SS-35-6.5	12 U	27	0.59 U	8.7	12	5.9 U	8.4	25
T-SS-Dup-1	12 U	24	0.59 U	7.8	11	5.9 U	7.7	22
NT-SS-17-5.0	12 U	34	0.59 U	9.3	20	12	18	59
NT-SS-18-5.0	12 U	28	0.62 U	7.7	17	6.2 U	9.4	20
NT-SS-13-5.0	11 U	27	0.54 U	7.9	21	5.4 U	11	23
NT-piping-SS-24-2.0	27	65	0.61 U	100	150	140	910	190
ST-SS-8-8.5	13 U	28	0.63 U	7.9	10	6.3 U	7.6	23
ST-SS-7-8.5	12 U	23	0.62 U	7.7	8.1	6.2 U	6.5	19
ST-SS-15-6.5	11 U	21	0.53 U	7.1	7.8	11	7.5	20
ST-SS-17-6.5	11 U	25	0.53 U	8.3	8.1	5.3 U	8.0	22
ST-piping-SS-20-6.5	31	82	0.85	25	67	49	94	280
ST-piping-SS-21-2.0	11 U	41	0.55 U	55	56	18	64	44
ST-piping-SS-22-2.0	11 U	33	0.55 U	20	30	18	58	43

Notes

1. Analytes are only shown if they were reported in at least one soil sample at a concentration greater than or equal to the laboratory practical quantitation limit (PQL).
2. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory PQL.

Abbreviations

mg/kg = milligrams per kilogram

Analytical Methods

arsenic, barium, cadmium, chromium, lead, selenium, and silver by EPA Method 6010D

mercury by EPA Method 7471B

Analyzed at Onsite Environmental, Redmond, Washington

Table 6
Analytical Results Summary Table - PCBs
UST Site Assessment Soil Samples
Former Jorgensen Forge Facility
Tukwila, Washington

all values reported in units of mg/kg

Sample Name	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Total PCBs
NT-SS-31-6.5	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	--
NT-SS-34-6.5	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	--
NT-SS-35-6.5	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	--
T-SS-Dup-1	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	--
NT-SS-17-5.0	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.16	0.11	0.059 U	0.059 U	0.27
NT-SS-18-5.0	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.084	0.062 U	0.062 U	0.062 U	0.084
NT-SS-13-5.0	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.13	0.054 U	0.054 U	0.068	0.20
NT-piping-SS-24-2.0	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.29	0.23	0.061 U	0.061 U	0.52
ST-SS-8-8.5	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	--
ST-SS-7-8.5	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U	--
ST-SS-15-6.5	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	--
ST-SS-17-6.5	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	--
ST-piping-SS-20-6.5	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	--
ST-piping-SS-21-2.0	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	--
ST-piping-SS-22-2.0	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	0.055 U	--

Notes

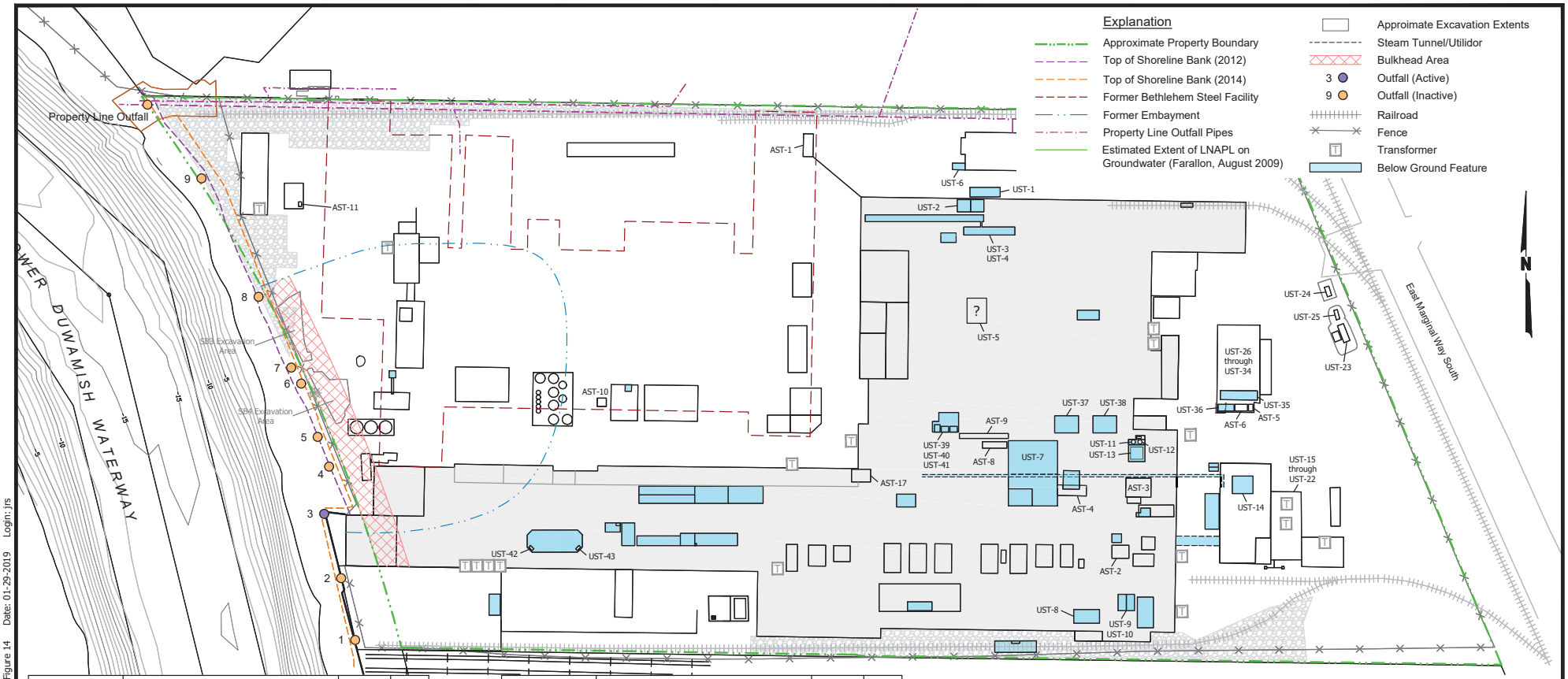
1. Analytes are only shown if they were reported in at least one soil sample at a concentration greater than or equal to the laboratory practical quantitation limit (PQL).
2. "U" denotes analyte not reported at a concentration greater than or equal to the given laboratory PQL.
3. "--" indicates none of the individual PCB aroclors were reported at a concentration greater than or equal to the PQL.

Abbreviations

PCB = polychlorinated biphenyl
UST = Underground Storage Tank
mg/kg = milligrams per kilogram

Analytical Methods

PCBs by EPA Method 8082
Analyzed at Onsite Environmental, Redmond, Washington



Tank ID	Description	Containment	Capacity (Gallons)
UST-1	Hollowbore 59/60 Lathes Cutting Oil Holding Tank	V	11,000
UST-2	Hollowbore 59/60 Horizontal Lathes Intermediate Cutting Oil Tank	V	240
UST-3	Hollowbore 58 Horizontal Lathe Clean Cutting Oil Tank	V	5,500
UST-4	Hollowbore 58 Horizontal Lathe Dirty Cutting Oil Tank	V	5,000
UST-5	Tacchi Cutting Oil Tank	V	2,500
UST-6	Office Building Heating Oil UST	G	600
UST-7	5,000-Ton Press Hydraulic Oil Tank	V	4,000
UST-8	Ring Expander Hydraulic Oil Tank	V	300
UST-9	Ring Mill Coolant Tank	V	500
UST-10	Ring Mill Coolant Tank	V	500
UST-11	Quench Tank 5 (Q5)	V	-
UST-12	Quench Tank 6 (Q6)	V	5,000
UST-13	Quench Tank 7 (Q7)	V	-
UST-14	Quench Tank 8 (Q8)	V	-
UST-15 through UST-22	Decommissioned Diesel Storage Area Tanks (8 tanks)	V	96,000
UST-23	Former Regulated Gasoline UST	G	8,000
UST-24	Former Unregulated UST	G	2,000
UST-25	Former Unregulated UST	G	1,000
UST-26 through UST-35	Decommissioned Oil Storage Area Tanks (10 tanks)	V	150,000
UST-36	Waste Oil Tank	V	2,000
UST-37	West Craven Lathe Hydraulic Oil Tank	V	30
UST-38	East Craven Lathe Hydraulic Oil Tank	V	100
UST-39	Quench Tank 1 (Q1)	V	13,000
UST-40	Quench Tank 2 (Q2)	V	13,000
UST-41	Quench Tank 3 (Q3)	V	-
UST-42 and UST-43	Arc Furnace Hydraulic Oil Tank	V	500
UST-43	Arc Furnace Hydraulic Oil Tank	V	500
AST-1	Former Cutting Oil Supply Tank	C	4,000
AST-2	660-Ton Press Hydraulic Oil Tank	C	700
AST-3	1,250-Ton Press Hydraulic Oil Tank	C	1,000
AST-4	L and F Press Hydraulic Oil Tank	C	700
AST-5	Used Oil Centrifuge	C	1,200
AST-6	Clean Hydraulic Oil Tank	C	6,000
AST-7	2,500 Ton Press Hydraulic Oil Tank	C	1,500
AST-8	Quench Tank 4 (Q4)	C	-
AST-9	Quench Tank 9 (Q9)	C	-
AST-10	Former Gasoline AST	C	300
AST-11	Diesel Fuel Tank	C	300

ABBREVIATIONS

AST = Aboveground Storage Tank
UST = Underground Storage Tank
V = Within Vault
C = Within Containment
G = Directly within Soil
- = Unknown

DRAFT

NOTE

Figure adapted from client file, *141500101002_1-8.dwg*, prepared by PES Environmental, Inc. dated July 2017, and *01012802-006.dwg*, prepared by Achor Environmental, LLC and Farallon Consulting. Property Boundary from client file, *11078 Topo E-MAIL.dwg*, prepared by Anchor QEA, LLC., Dated Jan 24, 2012.

0 120 240
Scale in Feet

Jorgensen Forge Facility
8531 East Marginal Way S
Tukwila, Washington

ASTs AND USTs

January 2019 21-1-12596-010

SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 14

Filename: J:\211\12596\010\21-1-12596-010 ASTs and USTs.dwg Layout: Figure 14 Date: 01-29-2019 Login: jrs

NWRO

UST ID #: 6163

County: King

RECEIVED
Date
JUN 01 2023

Washington State Department of Ecology
Toxics Cleanup Program

DEPARTMENT OF ECOLOGY
State of Washington

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANK SYSTEMS

This form provides Ecology 30-days' advanced notice for projects, as required by Chapter 173-360A WAC. Instructions are on the back page.

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Change-in-Service

I. SITE INFORMATION		II. OWNER/OPERATOR INFORMATION	
Tag or UBI # (if applicable):	604 027 650	Owner/Operator Name:	Star Forge
UST ID # (if applicable):	6163	Business Name:	Star Forge
Site Name:	Former Jorgensen Forge	Mailing Address:	8531 E. Marginal Way S.
Site Address:	8531 E. Marginal Way S.	City:	Tukwila State: WA Zip: 98108
City:	Tukwila, WA	Phone:	Wayne Turk; 206-255-8177
Phone:	Wayne Turk 206-255-8177	Email:	wturk@jorgensenforge.com

III. CERTIFIED SERVICE PROVIDER(S)

Check the appropriate boxes. If more than one service provider is required for this project, fill out both sections.

Note: Individuals performing UST services MUST be ICC-certified or have passed another qualifying exam approved by the Department of Ecology.

1) ☐ Installer ☒ Decommissioner ☐ Site Assessor

Company Name:	Construction Group International	Certification Type:	UST Decommissioner
Service Provider Name:	Brad Reilly	Cert. No.: 8289423	Exp. Date: 3/4/2024
Provider Phone:	425-487-2618	Provider Email:	markm@cgius.net

2) ☐ Installer ☐ Decommissioner ☒ Site Assessor (Mark Marcell, CGI Project Mgr)

Company Name:	DH Environmental, Inc.	Certification Type:	WA State Site Assessor
Service Provider Name:	Nathan Moxley	Cert. No.: WA LHG 3024	Exp. Date: 6/7/2024
Provider Phone:	509-332-9281	Provider Email:	nathan.moxley@dhenviro.com

IV. TANK AND/OR PIPING INFORMATION

TANK ID	TANK CAPACITY	SUBSTANCE STORED	PIPING INSTALLATION OR REPLACEMENT ONLY (Y/N)	DATE PROJECT IS EXPECTED TO BEGIN	COMMENTS
					18 USTs identified on pg 3-6 of attached UST Addendum form. Tanks are empty, and work is approved by Ecology Agreed Order No. DE 21034. Expected start date pending permits from City of Tukwila. Start date will be confirmed 3-days before starting as required by WAC 173-360A-0810(1), and we will keep your office apprised of any scheduling updates.

30-DAY NOTICE

FOR UNDERGROUND STORAGE TANK SYSTEMS

GENERAL INSTRUCTIONS

Under WAC 173-360A-0300, 173-360A-0810 and 173-360A-0820, owners and/or operators are required to notify the Department of Ecology (Ecology) **at least 30 days prior** to beginning underground storage tank (UST) and/or piping installation, decommissioning, or change-in-service projects by mailing this notice to the address below. A separate form must be used for each project type (e.g. install, removal). Once this form is received by Ecology, it is date-stamped and returned to the owner/operator listed on the form. Installation and decommissioning projects cannot begin within the first 30 days after the date stamped on this form unless the wait-period has been waived by a regional Ecology UST inspector. If a project cannot meet the deadlines described below, an additional 30-Day Notice may be required.

Department of Ecology
Underground Storage Tank Section
PO Box 47655
Olympia, WA 98504-7655

SITE AND OWNER/OPERATOR INFORMATION

Fill in the site/owner information completely. The contact person listed on this form must confirm the exact date an installation or decommissioning project will begin by contacting the regional UST inspector **at least 3 business days** before proceeding.

INSTALLATION/REPLACEMENT OF TANK AND/OR PIPING

Installation projects must begin within 90 days of the date stamped on this notice. Complete the Tank Information section by assigning Tank ID numbers that have not previously been used at the facility. Once processed, this form allows a one-time drop of product for UST system testing purposes only. The fuel drop is not required to occur within the 90-day period. Once your tank(s) store more than one inch of product, leak detection equipment and monitoring must be in place.

To receive additional deliveries and operate the new tanks/piping, you must submit the Business License application, UST Addendum, and the tank/piping Manufacturer's Installation Checklists to the Department of Revenue (DOR) **within 30 days** of completing the installation. This activates the mailing of your Business License with tank endorsement(s) from DOR and the facility compliance tag from Ecology.

If only piping is being installed or replaced piping, the ICC-certified installer must certify the installation by completing the Retrofit/Repair Checklist with the Manufacturer's Installation Checklist and submitting it to the owner/operator. The form packet must be submitted by the owner/operator to Ecology **within 30 days** of completing the piping installation.

PERMANENT CLOSURE OF TANK AND/OR PIPING

Decommissioning projects must be completed within 90 days after the date stamped on this returned notice. Complete the Tank Information section using Tank ID numbers listed on the Business License. Use the Comments box to include additional information, such as the date when product was removed from both the piping and the tank to less than one inch.

Contact your local fire marshal and planning department prior to tank closure to procure any permits required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC may also apply.

A site assessment is required at the time of closure. If contamination is not discovered, a site assessment report must be submitted to the above address **within 30 days**. If contamination is discovered or confirmed, it must be reported to the appropriate Ecology regional office **within 24 hours** and a site characterization report must be submitted to the above address **within 90 days**.

The following are some examples of tanks that are exempt from the UST regulations.

- Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must be used for farm purposes and cannot be for resale.
- Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- Tanks with a capacity of 110 gallons or less.
- Emergency overflow tanks, catch basins, or sumps.

If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.

UBI number
604 027 650

IV Individual tank information See pages 2 and 3 of the instructions for proper codes before completing this section.

	First Tank	Second Tank	Third Tank	Fourth Tank	Fifth Tank
A Tank name	UST-15	UST-16	UST-17	UST-18	UST-19
B Tank installation date	~ 1942	~ 1942	~ 1942	~ 1942	~ 1942
D Tank material	A	A	A	A	A
E1 Tank construction	A	A	A	A	A
E2 Manifolded tank	A	A	A	A	A
F Tank release detection	O	O	O	O	O
H Tank corrosion protection	O	O	O	O	O
I Spill prevention	O	O	O	O	O
J Overfill protection	O	O	O	O	O
K2 Piping Installation Date	~ 1942	~ 1942	~ 1942	~ 1942	~ 1942
K1 Piping material	A	A	A	A	A
L Piping construction	A	A	A	A	A
M1 Piping release detection **(primary)**	O	O	O	O	O
M2 Piping release detection **(secondary)**	J	J	J	J	J
M3 Turbine sump construction	O	O	O	O	O
O1 Piping corrosion protection	O	O	O	O	O
O2 Steel flex connector at tank	J	J	J	J	J
O3 Steel flex connector at dispenser/pump	J	J	J	J	J
P Pumping system	O	O	O	O	O

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance stored	D			D			D			D			D		
R Substance use	B			B			B			B			B		
S Compartment capacity	12,000			12,000			12,000			12,000			12,000		

For new or upgraded tanks only

UBI number 604 027 650

IV Individual tank information See pages 2 and 3 of the instructions for proper codes before completing this section.

	6th Tank	7th Tank	8th Tank	9th Tank	10th Tank
A Tank name	UST-20	UST-21	UST-22	UST-26	UST-27
B Tank installation date	~ 1942	~ 1942	~ 1942	~1975	~1975
D Tank material	A	A	A	A	A
E1 Tank construction	A	A	A	A	A
E2 Manifolded tank	A		A	A	A
F Tank release detection	O	O	O	O	O
H Tank corrosion protection	O	O	O	O	O
I Spill prevention	O	O	O	O	O
J Overfill protection	O	O		O	O
K2 Piping Installation Date	~ 1942	~ 1942	~ 1942	~1975	~1975
K1 Piping material	A	A	A	A	A
L Piping construction	A	A	A	A	A
M1 Piping release detection **(primary)**	O	O	O	O	O
M2 Piping release detection **(secondary)**	J	J	J	J	J
M3 Turbine sump construction	O	O	O	O	O
O1 Piping corrosion protection	O	O	O	O	O
O2 Steel flex connector at tank	J	J	J	J	J
O3 Steel flex connector at dispenser/pump	J	J	J	J	J
P Pumping system	O	O	O	O	O

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance stored	D			D			D			O			O		
R Substance use	B			B			B			G			G		
S Compartment capacity	12,000			12,000			12,000			13,500			13,500		

For new or unregistered tanks only

UBI number 604 027 650

IV Individual tank information See pages 2 and 3 of the instructions for proper codes before completing this section.

	11th Tank	12th Tank	13th Tank	14th Tank	15th Tank
A Tank name	UST-28	UST-29	UST-30	UST-31	UST-32
B Tank installation date	~1975	~1975	~1975	~1975	~1975
D Tank material	A	A	A	A	A
E1 Tank construction	A	A	A	A	A
E2 Manifolded tank	A	A	A	A	A
F Tank release detection	O	O	O	O	O
H Tank corrosion protection	O	O	O	O	O
I Spill prevention	O	O	O	O	O
J Overfill protection	O	O	O	O	O
K2 Piping Installation Date	~1975	~1975	~1975	~1975	~1975
K1 Piping material	A	A	A	A	A
L Piping construction	A	A	A	A	A
M1 Piping release detection **(primary)**	O	O	O	O	O
M2 Piping release detection **(secondary)**	J	J	J	J	J
M3 Turbine sump construction	O	O	O	O	O
O1 Piping corrosion protection	O	O	O	O	O
O2 Steel flex connector at tank	J	J	J	J	J
O3 Steel flex connector at dispenser/pump	J	J	J	J	J
P Pumping system	O	O	O	O	O

Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance stored	O			O			O			O			O		
R Substance use	G			G			G			G			G		
S Compartment capacity	13,500			13,500			13,500			13,500			13,500		

For new or unregistered tanks only

UBI number 604 027 650

IV Individual tank information See pages 2 and 3 of the instructions for proper codes before completing this section.

	16th Tank			17th Tank			18th Tank			19th Tank			20th Tank		
A Tank name	UST-33			UST-34			UST-35								
B Tank installation date	~1975			~1975			~1975								
D Tank material	A			A			A								
E1 Tank construction	A			A			A								
E2 Manifolded tank	A						A								
F Tank release detection	O			O			O								
H Tank corrosion protection	O			O			O								
I Spill prevention	O			O			O								
J Overfill protection	O			O											
K2 Piping Installation Date	~1975			~1975			~1975								
K1 Piping material	A			A			A								
L Piping construction	A			A			A								
M1 Piping release detection **(primary)**	O			O			O								
M2 Piping release detection **(secondary)**	J			J			J								
M3 Turbine sump construction	O			O			O								
O1 Piping corrosion protection	O			O			O								
O2 Steel flex connector at tank	J			J			J								
O3 Steel flex connector at dispenser/pump	J			J			J								
P Pumping system	O			O			O								
Compartments	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Q Substance stored	O			O			O								
R Substance use	G			G			G								
S Compartment capacity	13,500			13,500			13,500								

For new or unregistered tanks only

City of Tukwila

Department of Community Development
6300 Southcenter Boulevard, Suite #100
Tukwila, Washington 98188
Fire Marshal's Office
Web site: http://www.TukwilaWA.gov/departments/fire-marshals-office

FIRE PERMIT

FIRE TANK - TANK REMOVAL OR ABANDONMENT

PERMIT NUMBER:F23-0135

Parcel No:	0001600023	Permit Number:	F23-0135
Address:	8531 E MARGINAL WAY S	Issue Date:	5/26/2023
		Permit Expires On:	11/22/2023
Project Name:	Star Forge Tank Removal		

Owner:
Name: STAR FORGE LLC
Address: 8531 E MARGINAL WAY S TUKWILA WA 98108

Contact Person:
Name: Wayne Turk **Phone:** (206) 762-1100
Address: 8531 E. Marginal Way S. Tukwila WA 98108

Contractor:
Name: CONST GRP INTERNATIONAL LLC **Phone:** (425) 487-2618
Address: 19407 144TH AVE NE BLDG D WOODINVILLEWA 98072
License No: CONSTGI953NA **Expiration Date:** 8/10/2023

DESCRIPTION OF WORK:

Decommission, by removal, 18 USTs and 2 ASTs

Project Valuation:	$200,000.00	Fees Collected:	$8,400.00

Type of Fire Protection: Sprinklers:
Fire Alarm:

Type of Construction:
Occupancy per IBC:
Electrical Service Provided by: Tukwila
Water District: Tukwila
Sewer District: Tukwila

Fees Collected:

Electrical Service Provided by:
Water District:
Sewer District:

Current Codes adopted by the City of Tukwila:

International Fire Code Edition:	2018		
International Building Code Edition:	2018	National Electrical Code:	2020
International Residential Code Edition:	2018	WA Cities Electrical Code:	2020
International Mechanical Code Edition:	2018	WAC 296-46B:	2020
Uniform Plumbing Code Edition:	2018	WA State Energy Code:	2018
International Fuel Gas Code:	2018		

All provisions of law and ordinances governing this work will be complied with, whether specified herein or not.

The granting of this permit does not presume to give authority to violate or cancel the provisions of any other state or local laws regulating construction or the performance of work.

This permit shall become null and void if the work is not commenced within 180 days for the date of issuance, or if the work is suspended or abandoned for a period of 180 days from the last inspection.

PERMIT CONDITIONS:

1: FIRE CONDITIONS
- A site investigation/assessment is required prior to taking a tank permanently out of service.
- TANKS MAY BE REMOVED ONLY AFTER FIRE DEPARTMENT INSPECTION.
- Two (2) 20 BC portable fire extinguishers are to be on site within 50 ft. of the operation.
- Work are shall be cordoned off or be enclosed in a fenced yard.
- “No Smoking” signs must be posted in readily visible locations.
- Remove all flammable or combustible liquids from tank and from connecting lines.
- Tanks shall be inerted and must be certified gas free by a Marine Chemist or Petroleum Industry Safety Engineer regularly engaged in that business, prior to removal.
- All exterior above-grade fill and vent piping shall be permanently removed.
- Tanks shall be disposed of in accordance with federal, state and local regulations.
- Call twenty-four (24) hours prior to removal to arrange the required fire department inspections.

PERMIT INSPECTIONS REQUIRED

TANK REMOVAL FINAL [____]

Comment_____Date_____

International Fire Code Edition:	2018		
International Building Code Edition:	2018	National Electrical Code:	2020
International Residential Code Edition:	2018	WA Cities Electrical Code:	2020
International Mechanical Code Edition:	2018	WAC 296-46B:	2020
Uniform Plumbing Code Edition:	2018	WA State Energy Code:	2018
International Fuel Gas Code:	2018		

All provisions of law and ordinances governing this work will be complied with, whether specified herein or not.

The granting of this permit does not presume to give authority to violate or cancel the provisions of any other state or local laws regulating construction or the performance of work.

This permit shall become null and void if the work is not commenced within 180 days for the date of issuance, or if the work is suspended or abandoned for a period of 180 days from the last inspection.

Copy Blair Richard (CoT)

PERMIT CONDITIONS:

1: FIRE CONDITIONS
- A site investigation/assessment is required prior to taking a tank permanently out of service.
- TANKS MAY BE REMOVED ONLY AFTER FIRE DEPARTMENT INSPECTION.
- Two (2) 20 BC portable fire extinguishers are to be on site within 50 ft. of the operation.
- Work are shall be cordoned off or be enclosed in a fenced yard.
- "No Smoking" signs must be posted in readily visible locations.
- Remove all flammable or combustible liquids from tank and from connecting lines.
- Tanks shall be inerted and must be certified gas free by a Marine Chemist or Petroleum Industry Safety Engineer regularly engaged in that business, prior to removal.
- All exterior above-grade fill and vent piping shall be permanently removed.
- Tanks shall be disposed of in accordance with federal, state and local regulations.
- Call twenty-four (24) hours prior to removal to arrange the required fire department inspections.

PERMIT INSPECTIONS REQUIRED

TANK REMOVAL FINAL ☑

Comment Fire final Passed Date 8/17/23

Earl Bush PSRFA

Earl Bu

Marine Vacuum Service, Inc.
GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, WA 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

MARINE VACUUM SERVICE, INC.
TANK WASH CERTIFICATE

Tank Size: 10 X 15,000 Gallon Tanks

Last Contents: DIESEL

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been cleaned in accordance with the industry standard and that all rinsate has been disposed of in accordance with Federal, State and Local regulations.

M.V.S. Representative: _____

Date: AUGUST 9 – 14, 2024

***** This certificate does not certify the tank or space for hot work.

Marine Vacuum Service, Inc.
GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, WA 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

MARINE VACUUM SERVICE, INC.
TANK WASH CERTIFICATE

Tank Size: 8 X 12,000 Gallon Tanks

Last Contents: DIESEL

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been cleaned in accordance with the industry standard and that all rinsate has been disposed of in accordance with Federal, State and Local regulations.

M.V.S. Representative: _____

Date: AUGUST 9 – 14, 2024

***** This certificate does not certify the tank or space for hot work.

Appendix E - Photo Log
UST Decommissioning and Site Assessment Report
Former Jorgensen Forge Property



Photo 1: North Tank Vault, exposing UST-26 in preparation for removal. View to the west.



Photo 2: North Tank Vault, exposing UST-28 in preparation for removal. View to the west.



Photo 3: North Tank Vault, last two tanks prepared for removal. View to the south southwest.



Photo 4: North Tank Vault, tanks staged for transport. The tank fragments on the left side were tanks previously filled with sand, which were cut open to empty. View to the north.



Photo 5: North Tank Vault, loading a tank for recycling. View to the southwest.



Photo 6: North Tank Vault, emptied of tanks and backfill, prior to removal of the concrete vault. View to the northwest.



Photo 7: North Tank Vault, product piping removal. View to the north northwest.



Photo 8: North Tank Vault, southernmost end of the product piping. The piping had been cut just inside the foundation wall of the aluminum building. A cap was still present on the end of the pipe.



Photo 9: North Tank Vault, removal of the concrete vault structure. View to the north.



Photo 10: North Tank Vault, backfilling the tank excavation. View to the west northwest.



Photo 11: North Tank Vault, following final paving and site restoration. View to the south southwest.



Photo 12: South Tank Vault, removal of UST-15. View to the southwest.



Photo 13: South Tank Vault, tank prepared for removal. View to the west.



Photo 14: South Tank Vault, tank staged for transport. Note the condition of the tanks from the South Tank Vault in comparison to those from the North Tank Vault. View to the west.



Photo 15: South Tank Vault, loading a tank for recycling. View to the west.



Photo 16: South Tank Vault, example of a pinhole caused by corrosion. These were visible on multiple tanks.



Photo 17: South Tank Vault, emptied of tanks and backfill, prior to removal of the concrete vault. View to the south southwest.



Photo 18: South Tank Vault, backfilling the excavation. View to the south southwest.



Photo 19: South Tank Vault, single product line visible entering the foundation underneath of the former Aluminum Building, along with a small electrical conduit. View to the north northeast.



Photo 20: South Tank Vault, product line running from left to right (north to south), where it joins two other lines that used to stub up through the concrete slab floor. Those lines appeared to have been cut and bent at some point in the past. View to the east.



Photo 21: South Tank Vault, product piping running north towards a utilidor. View to the north.



Photo 22: South Tank Vault, product piping in the utilidor following removal of the concrete top. Note there are more pipes visible in the utilidor than were visible running towards the former tanks. Several of the pipes had been cut and/or capped at some point in the past. View to the south southwest.



Photo 23: South Tank Vault, product piping in the utilidor following removal of the concrete top. Note there are more pipes visible in the utilidor than were visible running towards the former tanks. Several of the pipes had been cut and/or capped at some point in the past. View to the south southwest.



Photo 24: South Tank Vault, following final paving and site restoration. View to the south.

Practical Environmental Compliance Solutions

Offices In: Anchorage | Tacoma | Portland

September 6 , 2023
ECI Project No.: 0520-40

Underground Storage Tank Decommissioning Certification

This is a statement of Underground Storage Tank Decommissioning provided by EcoCon, Inc. (ECI). ECI states this decommissioning has occurred under the supervision of an ICC Certified UST Decommissioner following the local and state rules and regulations as defined by the Uniform Fire Code (UFC) and Washington Administrative Code (WAC). Following Puget Sound Regional Fire Department certification, the USTs were excavated and transported off site and disposed at a local recycling facility.

Project Client:	CGI, Inc.
Project Name:	Jorgensen Forge
Project Address:	8531 E. Marginal Way S, Tukwila, WA 98108
Type of Decommissioning:	Excavation and removal from sub-surface
UST Installation Date:	Unknown
UST Decommissioning Date:	August 14, 2023
Permit Issuance Date:	May 26, 2023
UST(s) Total Gallons:	10-13,500g Heating oil
UST(s) Construction:	Steel Single Wall Construction
Tank Numbers:	26, 27, 28, 29,30, 31, 32, 33, 34, 35
Certified UST Decommissioner:	**Brad Reilly**
Certification Number:	**8289423– Exp: 03/04/2024**

Brad N. Reilly

September 6. 2023
Date

ECI | Environmental Services
Phone: (253) 921-7059 | Fax: (253) 369-6228 | brad@alleci.com

Practical Environmental Compliance Solutions

Offices In: Anchorage | Tacoma | Portland

September 6 , 2023
ECI Project No.: 0520-40

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UST Decommissioning Date:	August 14, 2023
Permit Issuance Date:	May 26, 2023
UST(s) Total Gallons:	8-12,000g Heating oil
UST(s) Construction:	Steel Single Wall Construction
Tank Numbers:	15, 16, 17, 18, 19, 20, 21, 22
Certified UST Decommissioner:	**Brad Reilly**
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DANGEROUS WASTE DESIGNATION FORM

Former Jorgensen Forge Site – UST Vault Concrete

A. WASTE STREAM NAME AND GENERATION INFORMATION

Waste Stream Name: Tank Vault Concrete

Generation Process: Concrete Removal

RCRA ID Number that waste will be managed under:	**Total Quantity and/or Estimated Generation rate:**
NA	~ 300 cubic yards
Other Descriptions (i.e. Shop, Project, Etc.):	

B. WASTE PROPERTIES, CHARACTERISTICS, and CONSTITUENTS:

Physical State:
- ☒Solid (pass paint filter)
- ☐Solid w/freestanding or absorbed liquid
- ☐Liquid (If liquid, indicate if the liquid is:
  - ☐Single Layer
  - ☐Multi-layer

pH:
- ☐< 2 **[D002]**
- ☐> 2 but < 12.5
- ☒N/A
- ☐> 12.5 **[D002]**

Flashpoint:
- ☐< 140 °F **[D001]**
- ☐> 140 °F but < 200 °F
- ☒N/A
- ☐> 200 °F

Characteristic

- ☐Ignitable **[D001]**
- ☐Corrosive **[D002]**
- ☐Reactive **[D003]**
- ☐Toxic **[D004 – D043]**

List Here:

PCB Content

- ☒Not Detected **[non TSCA or State Regulated]**
- ☐Not Sampled
- ☐≥ 2 ppm and < 50 ppm **[Potentially TSCA Regulated or State Regulated PCB Waste-WPCB]**
- ☐≥ 50 ppm **[TSCA Regulated]**
- ☐< 1 ppm

Note:
IF WASTE STREAM IS BEING MANAGED AS TSCA WASTE, DO NOT USE WPCB STATE CODE PER WAC 173-303-071(3)(k)

TCLP Metals

- ☐Arsenic ≥ 5.0 mg/L **[D004]**
- ☐Barium ≥ 100.0 mg/L **[D005]**
- ☐Cadmium ≥ 1.0 mg/L **[D006]**
- ☐Chromium ≥ 5.0 mg/L **[D007]**
- ☐Lead ≥ 5.0 mg/L **[D008]**
- ☐Mercury ≥ 0.2 mg/L **[D009]**
- ☐Selenium ≥ 1.0 mg/L **[D010]**
- ☐Silver ≥ 5.0 mg/L **[D011]**

Check if:
- ☐Assumed
- ☐TCLP Conducted
- ☒TCLP Not Conducted

Comments:

Total Metals

☒mg/kg ☐ug/kg ☐mg/L ☐ug/L

Arsenic:		☒ND
Barium:	70	☐ND
Cadmium:		☒ND
Chromium:	23	☐ND
Copper:	75	☐ND
Lead:		☒ND
Mercury:		☒ND
Nickel:	430	☐ND
Selenium:		☒ND
Silver:	5	☐ND
Zinc:	47	☐ND

Comments:

Physical Composition (list all constituents, including debris, any absorbents, liquid range, etc.).

Constituent	**Volume (Range %)**
Concrete	90-100
Misc debris	0 - 10

C. LISTED WASTE

☐ **Discarded Listed Chemical Product (U or P List):**
☐ **Listed Source Waste (F or K List):**
☒ **Not Applicable:**

D. WA STATE CRITERIA WASTE

☐**Not applicable per WAC 173-303-070(5): Further designation will not change the generator status or change the way the waste must be managed.**

WA Toxic Criteria Equivalent Concentration (E.C):		WA Persistent Criteria Total HOC		WA Persistent Criteria Total PAH	
☒ **< 0.001 %**	**[not a Toxic Criteria DW]**	☒ **< 0.01 %**	**[NOT APPLICABLE]**	☒ **< 1.0%**	**[NOT APPLICABLE]**
☐ **0.001 ≥ 1.0 %**	**[WT02 – DW]**	☐ **0.01 to 1.0%**	**[WP02 – DW]**	☐ **> 1.0%**	**[WP03 – EHW]**
☐ **≥ 1.0%**	**[WT01 – EHW]**	☐ **> 1.0 %**	**[WP01 – EHW]**		

DW: Dangerous Waste EHW: Extremely Hazardous Waste HOC: Halogenated Organic Compounds PAH: Polycyclic Aromatic Hydrocarbons

E. ADDITIONAL INFORMATION (Describe any additional information about the waste (e.g. process knowledge statement, regulatory exemptions, assumptions made, etc.)

A Washington State toxic criteria book designation was conducted in accordance with WAC 173-303-100. The calculated equivalent concentration value was greater than 0.001%, resulting in an initial criteria waste designation of WT02. A follow-up fish bioassay was performed in accordance with WAC 173-303-110(3)(b), *Biological Testing Methods for the Designation of Dangerous Waste Method 80-12*, which resulted in zero mortality, which refutes the initial WT02 designation. **This waste stream is therefore designated as non-dangerous waste.**

Attachments:
☐ **Field Report**
☐ **Sample Log**
☒ **Laboratory Data** (OnSite Environmental Lab Report 2308-161 and 2308-161B)
☒ **Dangerous Waste Toxic Equivalent Concentration Calculation**
☒ **Biological Testing Method 80-12 (Fish Bioassay)**
☐ **Other:**

F. WASTE DESIGNATION SUMMARY

☐ **RCRA Hazardous Waste**
USDOT Proper Shipping Name:
RCRA Waste Codes:

☐ **TSCA Regulated Waste**
TSCA Description:

☒ **Non-Hazardous Solid Waste/RCRA Exempt/RCRA Excluded**
Description: Non-hazardous waste, solid

Designation Performed by: Nathan Moxley, LHG
Title: Senior Geologist Date: 08-28-2023

Designation Reviewed by: Stacy Fox, CHMM
Title: Senior Project Manager Date: 08-28-2023

Project: Jorgensen Tank Vault Concrete
Waste Stream: Concrete
Sample IDs: N. Tanks Concrete
Sample Date: 8/14/23
Book Designation Performed by: N. Moxley

Conversions: 1 ng/kg = 10^-10 % (mass %); 1 ug/kg = 10^-7 %; 1 mg/kg = 10^-4 %

Units Displayed as: mg/kg
Conversion Factor: 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B					
Barium	7440-39-3	70	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr [3]	X					
Chromium	7440-47-3	23	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				2.30E-03	
Copper	7440-50-8	75	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		7.50E-03			
Lead	7439-92-1	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr [3]	C					
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg [3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr [3]	A					
Nickel	7440-02-0	430	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr [3]	C					4.30E-02
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr [3]	D					
Silver	7440-22-4	5	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr [3]	X	5.00E-04				
Zinc	7440-66-6	47	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			4.70E-03		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					

Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					
Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C					
o-Xylene	95-47-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C					
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					

Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	ND	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C					
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	D					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	D					
Acenaphthylene	208-96-8	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	ND	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A					
Anthracene	120-12-7	ND	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X					
Fluoranthene	206-44-0	ND	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C					
Pyrene	129-00-0	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C					
Benzo(a)anthracene	56-55-3	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Chrysene	218-01-9	ND	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C					
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Benzo(a)pyrene	50-32-8	ND	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Indeno(1,2,3-cd)pyrene	193-39-5	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Dibenz(a,h)anthracene	53-70-3	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Benzo(g,h,i)perylene	198-55-0	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Total (SUM)					**0.0005000**	**0.0075000**	**0.0047000**	**0.0023000**	**0.0430**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	5.00E-04	7.50E-03	4.70E-03	2.30E-03	4.30E-02		
	5.00E-04	7.50E-04	4.70E-05	2.30E-06	4.30E-06	**0.0013036**	**WT02**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 17, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge WO-1
Laboratory Reference No. 2308-161

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

Case Narrative

Samples were collected on August 14 and 15, 2023 and received by the laboratory on August 15, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D (Solid) Analysis

Method 5035A VOA vials were not provided for sample N. Tanks Concrete. The sample was therefore extracted from a 4-ounce jar. Some loss of volatiles may have occurred.

The percent recovery for surrogate Dibromofluoromethane is outside of the control limits for sample N. Tanks Concrete due to sample matrix effects. The sample was reanalyzed with similar results.

The percent recovery for Methylene Chloride is outside the control limits in the Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Total Metals EPA 6010D/7471B Analysis

The sample result is reported on a wet weight basis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Solid
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N. Tanks Concrete**					
Laboratory ID:	08-161-01					
Dichlorodifluoromethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Chloromethane	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Vinyl Chloride	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Bromomethane	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Chloroethane	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Trichlorofluoromethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloroethene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Acetone	ND	0.019	EPA 8260D	8-15-23	8-15-23	
Iodomethane	ND	0.013	EPA 8260D	8-15-23	8-15-23	
Carbon Disulfide	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Methylene Chloride	ND	0.016	EPA 8260D	8-15-23	8-15-23	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Methyl t-Butyl Ether	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Vinyl Acetate	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
2,2-Dichloropropane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
2-Butanone	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Bromochloromethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Chloroform	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1,1-Trichloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Carbon Tetrachloride	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloropropene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Benzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2-Dichloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Trichloroethene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2-Dichloropropane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Dibromomethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Bromodichloromethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
2-Chloroethyl Vinyl Ether	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
(cis) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Methyl Isobutyl Ketone	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Toluene	ND	0.0097	EPA 8260D	8-15-23	8-15-23	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N. Tanks Concrete**					
Laboratory ID:	08-161-01					
(trans) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1,2-Trichloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Tetrachloroethene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,3-Dichloropropane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
2-Hexanone	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Dibromochloromethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2-Dibromoethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Chlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Ethylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
m,p-Xylene	ND	0.0039	EPA 8260D	8-15-23	8-15-23	
o-Xylene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Styrene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Bromoform	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Isopropylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Bromobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,1,2,2-Tetrachloroethane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
n-Propylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
2-Chlorotoluene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
4-Chlorotoluene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,3,5-Trimethylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
tert-Butylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2,4-Trimethylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
sec-Butylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,3-Dichlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
p-Isopropyltoluene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,4-Dichlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2-Dichlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
n-Butylbenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
1,2-Dibromo-3-chloropropane	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
1,2,4-Trichlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Hexachlorobutadiene	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
Naphthalene	ND	0.0097	EPA 8260D	8-15-23	8-15-23	
1,2,3-Trichlorobenzene	ND	0.0019	EPA 8260D	8-15-23	8-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*27*	*75-130*				Q,
Toluene-d8	*109*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Solid
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Chloromethane	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Bromomethane	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Chloroethane	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Acetone	ND	0.010	EPA 8260D	8-15-23	8-15-23	
Iodomethane	ND	0.0068	EPA 8260D	8-15-23	8-15-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Methylene Chloride	ND	0.0080	EPA 8260D	8-15-23	8-15-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
2-Butanone	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Chloroform	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Benzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Toluene	ND	0.0050	EPA 8260D	8-15-23	8-15-23	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815S2					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
2-Hexanone	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-15-23	8-15-23	
o-Xylene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Styrene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Bromoform	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
Naphthalene	ND	0.0050	EPA 8260D	8-15-23	8-15-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-15-23	8-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-130*				
Toluene-d8	*108*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Solid
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0815S2									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0587**	**0.0577**	0.0500	0.0500	117	115	30-160	2	26	
Chloromethane	**0.0469**	**0.0443**	0.0500	0.0500	94	89	59-131	6	26	
Vinyl Chloride	**0.0530**	**0.0524**	0.0500	0.0500	106	105	68-136	1	23	
Bromomethane	**0.0672**	**0.0701**	0.0500	0.0500	134	140	48-155	4	32	
Chloroethane	**0.0530**	**0.0511**	0.0500	0.0500	106	102	67-141	4	16	
Trichlorofluoromethane	**0.0577**	**0.0565**	0.0500	0.0500	115	113	76-127	2	19	
1,1-Dichloroethene	**0.0573**	**0.0564**	0.0500	0.0500	115	113	75-129	2	19	
Acetone	**0.0536**	**0.0583**	0.0500	0.0500	107	117	49-158	8	37	
Iodomethane	**0.0367**	**0.0397**	0.0500	0.0500	73	79	37-140	8	27	
Carbon Disulfide	**0.0474**	**0.0455**	0.0500	0.0500	95	91	41-143	4	19	
Methylene Chloride	**0.0584**	**0.0688**	0.0500	0.0500	117	138	60-124	16	18	I
(trans) 1,2-Dichloroethene	**0.0559**	**0.0544**	0.0500	0.0500	112	109	79-133	3	15	
Methyl t-Butyl Ether	**0.0586**	**0.0569**	0.0500	0.0500	117	114	73-125	3	17	
1,1-Dichloroethane	**0.0548**	**0.0559**	0.0500	0.0500	110	112	79-125	2	17	
Vinyl Acetate	**0.0517**	**0.0545**	0.0500	0.0500	103	109	51-145	5	41	
2,2-Dichloropropane	**0.0619**	**0.0605**	0.0500	0.0500	124	121	79-126	2	18	
(cis) 1,2-Dichloroethene	**0.0565**	**0.0560**	0.0500	0.0500	113	112	75-131	1	15	
2-Butanone	**0.0510**	**0.0594**	0.0500	0.0500	102	119	54-145	15	32	
Bromochloromethane	**0.0567**	**0.0552**	0.0500	0.0500	113	110	80-126	3	15	
Chloroform	**0.0567**	**0.0562**	0.0500	0.0500	113	112	80-123	1	15	
1,1,1-Trichloroethane	**0.0575**	**0.0564**	0.0500	0.0500	115	113	78-124	2	21	
Carbon Tetrachloride	**0.0604**	**0.0619**	0.0500	0.0500	121	124	74-127	2	18	
1,1-Dichloropropene	**0.0583**	**0.0551**	0.0500	0.0500	117	110	80-123	6	15	
Benzene	**0.0577**	**0.0560**	0.0500	0.0500	115	112	80-122	3	18	
1,2-Dichloroethane	**0.0580**	**0.0552**	0.0500	0.0500	116	110	75-124	5	15	
Trichloroethene	**0.0554**	**0.0575**	0.0500	0.0500	111	115	80-129	4	18	
1,2-Dichloropropane	**0.0537**	**0.0552**	0.0500	0.0500	107	110	80-123	3	15	
Dibromomethane	**0.0529**	**0.0543**	0.0500	0.0500	106	109	80-123	3	15	
Bromodichloromethane	**0.0555**	**0.0572**	0.0500	0.0500	111	114	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0572**	**0.0589**	0.0500	0.0500	114	118	80-130	3	15	
Methyl Isobutyl Ketone	**0.0532**	**0.0611**	0.0500	0.0500	106	122	63-137	14	27	
Toluene	**0.0512**	**0.0534**	0.0500	0.0500	102	107	80-120	4	18	
(trans) 1,3-Dichloropropene	**0.0553**	**0.0562**	0.0500	0.0500	111	112	80-124	2	15	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0815S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0524**	**0.0518**	0.0500	0.0500	105	104	80-120	1	15	
Tetrachloroethene	**0.0541**	**0.0529**	0.0500	0.0500	108	106	77-126	2	15	
1,3-Dichloropropane	**0.0500**	**0.0517**	0.0500	0.0500	100	103	77-123	3	15	
2-Hexanone	**0.0492**	**0.0535**	0.0500	0.0500	98	107	53-137	8	29	
Dibromochloromethane	**0.0547**	**0.0556**	0.0500	0.0500	109	111	80-128	2	16	
1,2-Dibromoethane	**0.0512**	**0.0529**	0.0500	0.0500	102	106	80-122	3	20	
Chlorobenzene	**0.0505**	**0.0510**	0.0500	0.0500	101	102	80-120	1	18	
1,1,1,2-Tetrachloroethane	**0.0527**	**0.0523**	0.0500	0.0500	105	105	80-120	1	15	
Ethylbenzene	**0.0516**	**0.0518**	0.0500	0.0500	103	104	80-120	0	15	
m,p-Xylene	**0.101**	**0.104**	0.100	0.100	101	104	80-120	3	15	
o-Xylene	**0.0502**	**0.0507**	0.0500	0.0500	100	101	80-120	1	15	
Styrene	**0.0514**	**0.0534**	0.0500	0.0500	103	107	80-122	4	15	
Bromoform	**0.0566**	**0.0574**	0.0500	0.0500	113	115	78-126	1	15	
Isopropylbenzene	**0.0520**	**0.0524**	0.0500	0.0500	104	105	80-125	1	15	
Bromobenzene	**0.0476**	**0.0510**	0.0500	0.0500	95	102	79-124	7	15	
1,1,2,2-Tetrachloroethane	**0.0490**	**0.0521**	0.0500	0.0500	98	104	75-122	6	17	
1,2,3-Trichloropropane	**0.0498**	**0.0541**	0.0500	0.0500	100	108	72-125	8	20	
n-Propylbenzene	**0.0485**	**0.0502**	0.0500	0.0500	97	100	77-126	3	16	
2-Chlorotoluene	**0.0471**	**0.0501**	0.0500	0.0500	94	100	75-128	6	15	
4-Chlorotoluene	**0.0496**	**0.0508**	0.0500	0.0500	99	102	78-127	2	16	
1,3,5-Trimethylbenzene	**0.0489**	**0.0514**	0.0500	0.0500	98	103	77-128	5	15	
tert-Butylbenzene	**0.0483**	**0.0498**	0.0500	0.0500	97	100	73-130	3	20	
1,2,4-Trimethylbenzene	**0.0489**	**0.0514**	0.0500	0.0500	98	103	77-125	5	16	
sec-Butylbenzene	**0.0493**	**0.0504**	0.0500	0.0500	99	101	75-130	2	17	
1,3-Dichlorobenzene	**0.0497**	**0.0525**	0.0500	0.0500	99	105	78-123	5	17	
p-Isopropyltoluene	**0.0499**	**0.0514**	0.0500	0.0500	100	103	75-130	3	18	
1,4-Dichlorobenzene	**0.0501**	**0.0516**	0.0500	0.0500	100	103	77-121	3	17	
1,2-Dichlorobenzene	**0.0490**	**0.0516**	0.0500	0.0500	98	103	80-120	5	15	
n-Butylbenzene	**0.0509**	**0.0528**	0.0500	0.0500	102	106	76-131	4	20	
1,2-Dibromo-3-chloropropane	**0.0563**	**0.0614**	0.0500	0.0500	113	123	61-137	9	28	
1,2,4-Trichlorobenzene	**0.0515**	**0.0559**	0.0500	0.0500	103	112	77-127	8	17	
Hexachlorobutadiene	**0.0507**	**0.0545**	0.0500	0.0500	101	109	77-125	7	22	
Naphthalene	**0.0515**	**0.0555**	0.0500	0.0500	103	111	68-129	7	19	
1,2,3-Trichlorobenzene	**0.0516**	**0.0555**	0.0500	0.0500	103	111	77-124	7	19	
Surrogate:										
Dibromofluoromethane					*103*	*99*	*75-130*			
Toluene-d8					*106*	*112*	*78-128*			
4-Bromofluorobenzene					*100*	*101*	*71-130*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-15**					
Laboratory ID:	08-161-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chloromethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Vinyl Chloride	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromomethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Chloroethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Acetone	ND	6.4	EPA 8260D	8-16-23	8-16-23	
Iodomethane	ND	7.3	EPA 8260D	8-16-23	8-16-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-16-23	8-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-16-23	8-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Butanone	ND	5.0	EPA 8260D	8-16-23	8-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chloroform	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Benzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Trichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Dibromomethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Toluene	ND	1.0	EPA 8260D	8-16-23	8-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-15**					
Laboratory ID:	08-161-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Hexanone	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-16-23	8-16-23	
o-Xylene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Styrene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromoform	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Naphthalene	ND	1.0	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**LP-water**					
Laboratory ID:	08-161-03					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Chloromethane	ND	10	EPA 8260D	8-16-23	8-16-23	
Vinyl Chloride (SIM)	ND	0.20	EPA 8260D/SIM	8-16-23	8-16-23	
Bromomethane	ND	10	EPA 8260D	8-16-23	8-16-23	
Chloroethane	ND	10	EPA 8260D	8-16-23	8-16-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Acetone	ND	64	EPA 8260D	8-16-23	8-16-23	
Iodomethane	ND	73	EPA 8260D	8-16-23	8-16-23	
Carbon Disulfide	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Methylene Chloride	ND	10	EPA 8260D	8-16-23	8-16-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Vinyl Acetate	ND	10	EPA 8260D	8-16-23	8-16-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
2-Butanone	ND	50	EPA 8260D	8-16-23	8-16-23	
Bromochloromethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Chloroform	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Benzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Trichloroethene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Dibromomethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Bromodichloromethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	8-16-23	8-16-23	
Toluene	ND	10	EPA 8260D	8-16-23	8-16-23	

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Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**LP-water**					
Laboratory ID:	08-161-03					
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Tetrachloroethene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
2-Hexanone	ND	20	EPA 8260D	8-16-23	8-16-23	
Dibromochloromethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Chlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Ethylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
m,p-Xylene	ND	4.0	EPA 8260D	8-16-23	8-16-23	
o-Xylene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Styrene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Bromoform	ND	10	EPA 8260D	8-16-23	8-16-23	
Isopropylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Bromobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	8-16-23	8-16-23	
n-Propylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,3,5-Trimethylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
tert-Butylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trimethylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
sec-Butylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
p-Isopropyltoluene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
n-Butylbenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Hexachlorobutadiene	ND	10	EPA 8260D	8-16-23	8-16-23	
Naphthalene	ND	10	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chloromethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Vinyl Chloride (SIM)	ND	0.020	EPA 8260D/SIM	8-16-23	8-16-23	
Bromomethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Chloroethane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Acetone	ND	6.4	EPA 8260D	8-16-23	8-16-23	
Iodomethane	ND	7.3	EPA 8260D	8-16-23	8-16-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-16-23	8-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-16-23	8-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Butanone	ND	5.0	EPA 8260D	8-16-23	8-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chloroform	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Benzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Trichloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Dibromomethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Toluene	ND	1.0	EPA 8260D	8-16-23	8-16-23	

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Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816W1					
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Hexanone	ND	2.0	EPA 8260D	8-16-23	8-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-16-23	8-16-23	
o-Xylene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Styrene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromoform	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Bromobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-16-23	8-16-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-16-23	8-16-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-16-23	8-16-23	
Naphthalene	ND	1.0	EPA 8260D	8-16-23	8-16-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-16-23	8-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*88*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0816W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**9.83**	**10.0**	10.0	10.0	98	100	34-166	2	21	
Chloromethane	**10.3**	**10.6**	10.0	10.0	103	106	63-138	3	18	
Vinyl Chloride	**10.8**	**10.9**	10.0	10.0	108	109	71-135	1	20	
Bromomethane	**9.19**	**11.1**	10.0	10.0	92	111	20-151	19	36	
Chloroethane	**9.11**	**9.45**	10.0	10.0	91	95	76-125	4	20	
Trichlorofluoromethane	**9.44**	**9.87**	10.0	10.0	94	99	75-131	4	19	
1,1-Dichloroethene	**9.23**	**9.33**	10.0	10.0	92	93	78-125	1	19	
Acetone	**7.83**	**8.55**	10.0	10.0	78	86	76-125	9	18	
Iodomethane	**6.84**	**7.49**	10.0	10.0	68	75	10-155	9	40	
Carbon Disulfide	**8.90**	**8.60**	10.0	10.0	89	86	58-129	3	17	
Methylene Chloride	**8.74**	**8.89**	10.0	10.0	87	89	80-120	2	15	
(trans) 1,2-Dichloroethene	**9.27**	**9.51**	10.0	10.0	93	95	80-125	3	17	
Methyl t-Butyl Ether	**9.15**	**9.26**	10.0	10.0	92	93	80-122	1	15	
1,1-Dichloroethane	**9.20**	**9.27**	10.0	10.0	92	93	80-125	1	17	
Vinyl Acetate	**9.23**	**9.07**	10.0	10.0	92	91	80-131	2	15	
2,2-Dichloropropane	**11.3**	**11.6**	10.0	10.0	113	116	80-146	3	21	
(cis) 1,2-Dichloroethene	**9.64**	**9.91**	10.0	10.0	96	99	80-129	3	17	
2-Butanone	**8.77**	**9.06**	10.0	10.0	88	91	80-129	3	16	
Bromochloromethane	**9.59**	**9.59**	10.0	10.0	96	96	80-125	0	18	
Chloroform	**9.23**	**9.29**	10.0	10.0	92	93	80-123	1	16	
1,1,1-Trichloroethane	**9.09**	**9.39**	10.0	10.0	91	94	80-123	3	18	
Carbon Tetrachloride	**9.12**	**9.35**	10.0	10.0	91	94	80-126	2	17	
1,1-Dichloropropene	**9.20**	**9.42**	10.0	10.0	92	94	80-126	2	18	
Benzene	**9.30**	**9.42**	10.0	10.0	93	94	80-121	1	16	
1,2-Dichloroethane	**9.07**	**9.07**	10.0	10.0	91	91	80-124	0	15	
Trichloroethene	**9.22**	**9.51**	10.0	10.0	92	95	80-122	3	18	
1,2-Dichloropropane	**9.52**	**9.73**	10.0	10.0	95	97	80-123	2	15	
Dibromomethane	**9.87**	**9.77**	10.0	10.0	99	98	80-123	1	15	
Bromodichloromethane	**10.2**	**10.4**	10.0	10.0	102	104	80-125	2	15	
(cis) 1,3-Dichloropropene	**11.1**	**11.3**	10.0	10.0	111	113	80-129	2	15	
Methyl Isobutyl Ketone	**9.65**	**9.71**	10.0	10.0	97	97	80-124	1	15	
Toluene	**8.78**	**8.89**	10.0	10.0	88	89	80-120	1	18	
(trans) 1,3-Dichloropropene	**10.9**	**10.9**	10.0	10.0	109	109	80-134	0	17	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0816W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**10.5**	**10.7**	10.0	10.0	105	107	77-126	2	20	
Tetrachloroethene	**9.89**	**9.44**	10.0	10.0	99	94	80-124	5	18	
1,3-Dichloropropane	**10.3**	**10.4**	10.0	10.0	103	104	80-120	1	15	
2-Hexanone	**9.47**	**10.1**	10.0	10.0	95	101	80-130	6	16	
Dibromochloromethane	**9.43**	**9.94**	10.0	10.0	94	99	80-128	5	15	
1,2-Dibromoethane	**10.7**	**11.1**	10.0	10.0	107	111	80-127	4	15	
Chlorobenzene	**10.4**	**10.6**	10.0	10.0	104	106	80-120	2	17	
1,1,1,2-Tetrachloroethane	**11.0**	**11.4**	10.0	10.0	110	114	80-125	4	17	
Ethylbenzene	**10.4**	**10.7**	10.0	10.0	104	107	80-125	3	18	
m,p-Xylene	**20.9**	**21.4**	20.0	20.0	105	107	80-127	2	18	
o-Xylene	**10.3**	**10.6**	10.0	10.0	103	106	80-126	3	18	
Styrene	**10.9**	**11.1**	10.0	10.0	109	111	80-130	2	17	
Bromoform	**11.4**	**11.5**	10.0	10.0	114	115	80-130	1	15	
Isopropylbenzene	**10.6**	**11.0**	10.0	10.0	106	110	80-129	4	18	
Bromobenzene	**10.7**	**11.6**	10.0	10.0	107	116	76-128	8	16	
1,1,2,2-Tetrachloroethane	**12.0**	**12.6**	10.0	10.0	120	126	74-130	5	15	
1,2,3-Trichloropropane	**10.8**	**11.4**	10.0	10.0	108	114	71-129	5	25	
n-Propylbenzene	**11.6**	**12.2**	10.0	10.0	116	122	80-129	5	19	
2-Chlorotoluene	**11.3**	**11.9**	10.0	10.0	113	119	80-128	5	18	
4-Chlorotoluene	**11.6**	**12.2**	10.0	10.0	116	122	80-130	5	19	
1,3,5-Trimethylbenzene	**11.4**	**11.9**	10.0	10.0	114	119	80-131	4	18	
tert-Butylbenzene	**11.0**	**11.7**	10.0	10.0	110	117	80-130	6	18	
1,2,4-Trimethylbenzene	**11.2**	**11.7**	10.0	10.0	112	117	80-130	4	18	
sec-Butylbenzene	**11.5**	**12.2**	10.0	10.0	115	122	80-130	6	18	
1,3-Dichlorobenzene	**11.1**	**11.7**	10.0	10.0	111	117	80-126	5	17	
p-Isopropyltoluene	**11.7**	**12.5**	10.0	10.0	117	125	80-132	7	18	
1,4-Dichlorobenzene	**10.9**	**11.3**	10.0	10.0	109	113	80-121	4	17	
1,2-Dichlorobenzene	**10.5**	**11.3**	10.0	10.0	105	113	79-125	7	15	
n-Butylbenzene	**12.7**	**13.4**	10.0	10.0	127	134	80-138	5	19	
1,2-Dibromo-3-chloropropane	**10.0**	**10.9**	10.0	10.0	100	109	73-133	9	15	
1,2,4-Trichlorobenzene	**12.3**	**12.7**	10.0	10.0	123	127	80-139	3	18	
Hexachlorobutadiene	**12.0**	**13.2**	10.0	10.0	120	132	80-151	10	18	
Naphthalene	**11.0**	**12.2**	10.0	10.0	110	122	68-144	10	25	
1,2,3-Trichlorobenzene	**11.9**	**12.8**	10.0	10.0	119	128	75-146	7	28	
Surrogate:										
Dibromofluoromethane					*90*	*92*	*75-127*			
Toluene-d8					*95*	*97*	*80-127*			
4-Bromofluorobenzene					*103*	*106*	*78-125*			

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM

Matrix: Solid
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N. Tanks Concrete**					
Laboratory ID:	08-161-01					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthylene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Fluorene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Phenanthrene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Anthracene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Pyrene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270E/SIM	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*81*	*39-111*				
Pyrene-d10	*76*	*47-114*				
Terphenyl-d14	*81*	*44-121*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816S1					
Naphthalene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
2-Methylnaphthalene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
1-Methylnaphthalene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthylene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Fluorene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Phenanthrene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Anthracene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Fluoranthene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Pyrene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]anthracene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Chrysene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[b]fluoranthene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo(j,k)fluoranthene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]pyrene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Dibenz[a,h]anthracene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[g,h,i]perylene	**ND**	0.0033	EPA 8270E/SIM	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*39-111*				
Pyrene-d10	*79*	*47-114*				
Terphenyl-d14	*82*	*44-121*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0816S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0705**	**0.0717**	0.0833	0.0833	85	86	57-116	2	16	
Acenaphthylene	**0.0738**	**0.0799**	0.0833	0.0833	89	96	59-124	8	15	
Acenaphthene	**0.0719**	**0.0759**	0.0833	0.0833	86	91	59-124	5	15	
Fluorene	**0.0747**	**0.0775**	0.0833	0.0833	90	93	62-122	4	15	
Phenanthrene	**0.0731**	**0.0748**	0.0833	0.0833	88	90	62-119	2	15	
Anthracene	**0.0761**	**0.0798**	0.0833	0.0833	91	96	64-123	5	15	
Fluoranthene	**0.0735**	**0.0751**	0.0833	0.0833	88	90	63-123	2	15	
Pyrene	**0.0731**	**0.0750**	0.0833	0.0833	88	90	62-124	3	15	
Benzo[a]anthracene	**0.0788**	**0.0796**	0.0833	0.0833	95	96	59-131	1	15	
Chrysene	**0.0722**	**0.0752**	0.0833	0.0833	87	90	61-124	4	15	
Benzo[b]fluoranthene	**0.0815**	**0.0850**	0.0833	0.0833	98	102	60-126	4	15	
Benzo(j,k)fluoranthene	**0.0711**	**0.0732**	0.0833	0.0833	85	88	63-121	3	17	
Benzo[a]pyrene	**0.0790**	**0.0819**	0.0833	0.0833	95	98	60-122	4	15	
Indeno(1,2,3-c,d)pyrene	**0.0813**	**0.0875**	0.0833	0.0833	98	105	58-127	7	15	
Dibenz[a,h]anthracene	**0.0856**	**0.0887**	0.0833	0.0833	103	106	60-124	4	15	
Benzo[g,h,i]perylene	**0.0782**	**0.0812**	0.0833	0.0833	94	97	58-124	4	15	
Surrogate:										
2-Fluorobiphenyl					*77*	*81*	*39-111*			
Pyrene-d10					*78*	*79*	*47-114*			
Terphenyl-d14					*83*	*82*	*44-121*			

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-15**					
Laboratory ID:	08-161-02					
Naphthalene	**ND**	0.019	EPA 8270E/SIM	8-16-23	8-17-23	
2-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
1-Methylnaphthalene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthylene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthene	**ND**	0.21	EPA 8270E/SIM	8-16-23	8-17-23	U1
Fluorene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Phenanthrene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Anthracene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Fluoranthene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Pyrene	**ND**	0.095	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]anthracene	**0.031**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Chrysene	**0.044**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[b]fluoranthene	**0.058**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo(j,k)fluoranthene	**0.043**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]pyrene	**0.029**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Indeno(1,2,3-c,d)pyrene	**0.065**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Dibenz[a,h]anthracene	**0.057**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[g,h,i]perylene	**0.052**	0.0095	EPA 8270E/SIM	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*60*	*26-106*				
Pyrene-d10	*54*	*45-104*				
Terphenyl-d14	*74*	*43-114*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**LP-water**					
Laboratory ID:	08-161-03					
Naphthalene	**6.2**	4.8	EPA 8270E/SIM	8-16-23	8-17-23	
2-Methylnaphthalene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
1-Methylnaphthalene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthylene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Fluorene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Phenanthrene	**49**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Anthracene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Fluoranthene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Pyrene	**ND**	24	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]anthracene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Chrysene	**13**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[b]fluoranthene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo(j,k)fluoranthene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]pyrene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Indeno(1,2,3-c,d)pyrene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Dibenz[a,h]anthracene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[g,h,i]perylene	**ND**	2.4	EPA 8270E/SIM	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	---	*26-106*				S
Pyrene-d10	---	*45-104*				S
Terphenyl-d14	---	*43-114*				S

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816W1					
Naphthalene	**ND**	0.020	EPA 8270E/SIM	8-16-23	8-17-23	
2-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
1-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthylene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Acenaphthene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Fluorene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Phenanthrene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Anthracene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Fluoranthene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Pyrene	**ND**	0.10	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*44*	*26-106*				
Pyrene-d10	*63*	*45-104*				
Terphenyl-d14	*70*	*43-114*				

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0816W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.291**	**0.346**	0.500	0.500	58	69	35 - 84	17	34	
Acenaphthylene	**0.403**	**0.462**	0.500	0.500	81	92	44 - 97	14	29	
Acenaphthene	**0.352**	**0.401**	0.500	0.500	70	80	40 - 93	13	29	
Fluorene	**0.375**	**0.422**	0.500	0.500	75	84	46 - 97	12	24	
Phenanthrene	**0.373**	**0.421**	0.500	0.500	75	84	49 - 102	12	21	
Anthracene	**0.388**	**0.441**	0.500	0.500	78	88	50 - 99	13	21	
Fluoranthene	**0.383**	**0.427**	0.500	0.500	77	85	53 - 107	11	21	
Pyrene	**0.375**	**0.422**	0.500	0.500	75	84	52 - 111	12	23	
Benzo[a]anthracene	**0.421**	**0.472**	0.500	0.500	84	94	51 - 119	11	20	
Chrysene	**0.393**	**0.433**	0.500	0.500	79	87	52 - 113	10	21	
Benzo[b]fluoranthene	**0.428**	**0.464**	0.500	0.500	86	93	50 - 116	8	24	
Benzo(j,k)fluoranthene	**0.390**	**0.446**	0.500	0.500	78	89	54 - 113	13	22	
Benzo[a]pyrene	**0.416**	**0.465**	0.500	0.500	83	93	52 - 110	11	21	
Indeno(1,2,3-c,d)pyrene	**0.459**	**0.508**	0.500	0.500	92	102	55 - 114	10	21	
Dibenz[a,h]anthracene	**0.471**	**0.530**	0.500	0.500	94	106	55 - 111	12	19	
Benzo[g,h,i]perylene	**0.431**	**0.486**	0.500	0.500	86	97	52 - 111	12	20	
Surrogate:										
2-Fluorobiphenyl					*61*	*65*	*26-106*			
Pyrene-d10					*67*	*72*	*45-104*			
Terphenyl-d14					*72*	*77*	*43-114*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PCBs EPA 8082A

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N. Tanks Concrete**					
Laboratory ID:	08-161-01					
Aroclor 1016	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1221	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1232	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1242	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1248	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1254	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1260	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1262	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Aroclor 1268	**ND**	1.0	EPA 8082A	8-15-23	8-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*114*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815S1					
Aroclor 1016	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1221	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1232	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1242	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1248	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1254	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1260	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1262	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Aroclor 1268	**ND**	1.0	EPA 8082A	8-15-23	8-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*88*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-157-03										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.353**	**0.361**	0.500	0.500	ND	**71**	**72**	41-121	2	28	
Surrogate:											
DCB						*83*	*84*	*50-127*			

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-15**					
Laboratory ID:	08-161-02					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-15-23	8-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*55-138*				
Client ID:	**LP-water**					
Laboratory ID:	08-161-03					
Aroclor 1016	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1221	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1232	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1242	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1248	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1254	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1260	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1262	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Aroclor 1268	**ND**	25	EPA 8082A	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*---*	*55-138*				S, X

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0815W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-15-23	8-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*78*	*55-138*				
Laboratory ID:	MB0816W1 MCU					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-16-23	8-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*105*	*55-138*				X

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0815W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.337**	**0.354**	0.500	0.500	N/A	**67**	**71**	66-120	5	16	
Surrogate:											
DCB						*70*	*80*	*55-138*			
Laboratory ID:	SB0816W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.444**	**0.473**	0.500	0.500	N/A	**89**	**95**	66-120	6	16	
Surrogate:											
DCB						*102*	*98*	*55-138*			

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D/7471B

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**N. Tanks Concrete**					
Laboratory ID:	08-161-01					
Arsenic	**ND**	10	EPA 6010D	8-15-23	8-15-23	
Barium	**70**	2.5	EPA 6010D	8-15-23	8-15-23	
Cadmium	**ND**	0.50	EPA 6010D	8-15-23	8-15-23	
Chromium	**23**	0.50	EPA 6010D	8-15-23	8-15-23	
Copper	**75**	1.0	EPA 6010D	8-15-23	8-15-23	
Lead	**ND**	5.0	EPA 6010D	8-15-23	8-15-23	
Mercury	**ND**	0.25	EPA 7471B	8-15-23	8-15-23	
Nickel	**430**	2.5	EPA 6010D	8-15-23	8-15-23	
Selenium	**ND**	10	EPA 6010D	8-15-23	8-15-23	
Silver	**5.0**	1.0	EPA 6010D	8-15-23	8-16-23	
Zinc	**47**	2.5	EPA 6010D	8-15-23	8-15-23	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0515SM2					
Arsenic	**ND**	10	EPA 6010D	8-15-23	8-15-23	
Barium	**ND**	2.5	EPA 6010D	8-15-23	8-15-23	
Cadmium	**ND**	0.50	EPA 6010D	8-15-23	8-15-23	
Chromium	**ND**	0.50	EPA 6010D	8-15-23	8-15-23	
Copper	**ND**	1.0	EPA 6010D	8-15-23	8-15-23	
Lead	**ND**	5.0	EPA 6010D	8-15-23	8-15-23	
Nickel	**ND**	2.5	EPA 6010D	8-15-23	8-15-23	
Selenium	**ND**	10	EPA 6010D	8-15-23	8-15-23	
Zinc	**ND**	2.5	EPA 6010D	8-15-23	8-15-23	
Laboratory ID:	MB0515S1					
Mercury	**ND**	0.25	EPA 7471B	8-15-23	8-15-23	
Laboratory ID:	MB0815SM1					
Silver	**ND**	1.0	EPA 6010D	8-15-23	8-15-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-155-02										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**43.2**	**50.1**	NA	NA		NA		NA	15	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**13.3**	**14.2**	NA	NA		NA		NA	7	20	
Copper	**28.3**	**27.5**	NA	NA		NA		NA	3	20	
Lead	**22.9**	**22.2**	NA	NA		NA		NA	3	20	
Nickel	**26.3**	**23.7**	NA	NA		NA		NA	10	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**52.1**	**62.5**	NA	NA		NA		NA	18	20	
Laboratory ID:	08-155-02										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	08-155-02										
	ORIG	DUP									
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-155-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**94.8**	**94.8**	100	100	ND	**95**	**95**	75-125	0	20	
Barium	**138**	**142**	100	100	43.2	**95**	**99**	75-125	3	20	
Cadmium	**47.9**	**48.3**	50.0	50.0	ND	**96**	**97**	75-125	1	20	
Chromium	**106**	**110**	100	100	13.3	**93**	**97**	75-125	4	20	
Copper	**71.2**	**75.1**	50.0	50.0	28.3	**86**	**94**	75-125	5	20	
Lead	**256**	**258**	250	250	22.9	**93**	**94**	75-125	1	20	
Nickel	**117**	**121**	100	100	26.3	**90**	**95**	75-125	4	20	
Selenium	**98.0**	**98.9**	100	100	ND	**98**	**99**	75-125	1	20	
Zinc	**146**	**149**	100	100	52.1	**94**	**97**	75-125	2	20	
Laboratory ID:	08-155-02										
Mercury	**0.514**	**0.517**	0.500	0.500	0.0349	**96**	**96**	80-120	1	20	
Laboratory ID:	08-155-02										
	MS	MSD	MS	MSD		MS	MSD				
Silver	**22.4**	**21.0**	25.0	25.0	ND	**89**	**84**	75-125	6	20	

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Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OWS-15**					
Laboratory ID:	08-161-02					
Arsenic	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Barium	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Cadmium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Chromium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Copper	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Lead	**ND**	100	EPA 6010D	8-16-23	8-16-23	
Mercury	**ND**	0.50	EPA 7470A	8-17-23	8-17-23	
Nickel	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Selenium	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Silver	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Zinc	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Client ID:	**LP-water**					
Laboratory ID:	08-161-03					
Arsenic	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Barium	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Cadmium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Chromium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Copper	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Lead	**ND**	100	EPA 6010D	8-16-23	8-16-23	
Mercury	**ND**	0.50	EPA 7470A	8-17-23	8-17-23	
Nickel	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Selenium	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Silver	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Zinc	**ND**	50	EPA 6010D	8-16-23	8-16-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D /7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816WH2					
Arsenic	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Barium	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Cadmium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Chromium	**ND**	10	EPA 6010D	8-16-23	8-16-23	
Copper	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Lead	**ND**	100	EPA 6010D	8-16-23	8-16-23	
Nickel	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Selenium	**ND**	200	EPA 6010D	8-16-23	8-16-23	
Silver	**ND**	20	EPA 6010D	8-16-23	8-16-23	
Zinc	**ND**	50	EPA 6010D	8-16-23	8-16-23	
Laboratory ID:	MB0817W1					
Mercury	**ND**	0.50	EPA 7470A	8-17-23	8-17-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 17, 2023
Samples Submitted: August 15, 2023
Laboratory Reference: 2308-161
Project: Star Forge WO-1

TOTAL METALS
EPA 6010D /7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-038-04									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Copper	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-158-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	08-038-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**1940**	**1870**	2000	2000	ND	**97**	**94**	75-125	3	20
Barium	**2070**	**2020**	2000	2000	ND	**103**	**101**	75-125	2	20
Cadmium	**977**	**953**	1000	1000	ND	**98**	**95**	75-125	2	20
Chromium	**2040**	**1980**	2000	2000	ND	**102**	**99**	75-125	3	20
Copper	**1010**	**993**	1000	1000	ND	**101**	**99**	75-125	2	20
Lead	**5150**	**5070**	5000	5000	ND	**103**	**101**	75-125	1	20
Nickel	**2020**	**1980**	2000	2000	ND	**101**	**99**	75-125	2	20
Selenium	**1960**	**1900**	2000	2000	ND	**98**	**95**	75-125	3	20
Silver	**470**	**459**	500	500	ND	**94**	**92**	75-125	2	20
Zinc	**2020**	**1970**	2000	2000	ND	**101**	**99**	75-125	3	20
Laboratory ID:	08-158-01									
Mercury	**5.98**	**6.03**	6.25	6.25	ND	**96**	**96**	75-125	1	20

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge WO-1
Project Manager: Dave Hill
Sampled by: N. Moxley / J. Brieve

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ~~☒ 3 Days~~ NA
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 08-161

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	N. Tanks Concrete	8/14/23	1215	Solid	2					X				X	X				X								
2	OWS-15	8/14/23	1300	Water	9					X				X	X				X								
3	LP-water	8/15/23	1030	Water	9					X				X	X				X								

	Signature	Company	Date	Time
Relinquished		DH Environmental	8-15-23	1:15
Received		OSE	8/15/23	1315
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
LP-water contains LNAPL
data to data@dhenviro.com
Hold for possible follow-up of TCLP and/or fish bioassay

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 28, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge WO-1
Laboratory Reference No. 2308-161B

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Rainier ENVIRONMENTAL

Dangerous Waste Characterization

Sample ID: N. Tanks Concrete

Report date: August 28, 2023

Submitted to:

OnSite Environmental
14648 NE 95th Street
Redmond, WA 98052

Rainier Environmental
5013 Pacific Hwy East
Suite 20
Tacoma, WA 98424

1.0 INTRODUCTION

A dangerous waste characterization using the test organism *Oncorhynchus mykiss* (rainbow trout) was conducted on one sample submitted by OnSite Environmental to Rainier Environmental. Testing was conducted following the Washington State Department of Ecology Publication 80-12.

2.0 METHODS

The sample, N. Tanks Concrete, was received in the laboratory on August 23, 2023. Upon arrival at the laboratory the sample was inspected and contents verified against information provided on the chain-of-custody form. The sample was stored at 4°C in the dark until use. The test procedure is outlined in Table 1.

Table 1. Summary of Dangerous Waste Characterization Test Conditions

Parameter	Standard Fish Toxicity Test
Test number	2308-038
Sample ID	N. Tanks Concrete
Test initiation date; time	8/23/2023; 0945h
Test termination date; time	8/27/2023; 0945h
Endpoint	Mortality at 96-hours
Test chamber	7.5 L Plastic tank
Test temperature	12 ± 1°C
Dilution water	Moderately hard synthetic water
Test solution volume	6 L
Test concentrations (mg/L)	100, 10, 0
Number of organisms/chamber	10
Number of replicates	3
Test organism	*Oncorhynchus mykiss* (rainbow trout)
Feeding	No feeding during test
Photoperiod	16 hours light/ 8 hours dark
Extraction	Rotary agitation (30 +/- 2 rpm) for 18 hours
Reference Toxicant	Copper sulfate
Deviations	None

The test organisms used in the test are outlined in Table 2. The sample was tested using fish received on July 12, 2023.

Table 2. Test organisms (*Oncorhynchus mykiss*)

Test organism age	62 days post swim-up (hatch date 5/31/2023)
Mean weight	0.41 g
Mean length	41 mm
Ratio of longest to shortest	1.2
Loading	0.68 g/L
Test organism source	Trout Lodge; Sumner, WA

3.0 RESULTS

A summary of results for the dangerous waste characterization conducted on N. Tanks Concrete is contained in Table 3. There was no mortality during the test. Based on these results, the sample does not designate as either a dangerous or extremely hazardous waste. Copies of the laboratory bench sheets, statistical summaries of reference toxicant tests, and chain-of-custody form are provided in Appendices A through C.

Table 3. Summary of Results

Sample ID	Concentration (mg/L)	Survival (# fish, N=30)	Percent Mortality	Dangerous Waste Designation
Control	0	30	0	NA
N. Tanks Concrete	10	30	0	None
	100	30	0	

4.0 QUALITY ASSURANCE

The most recently completed reference toxicant test was initiated August 16, 2023. The LC_{50} of 166 µg/L copper fell within the acceptable range of mean ± two standard deviations of historical test results indicating that the test organisms were of an appropriate degree of sensitivity. The coefficient of variation (CV) for the last 20 tests was 31.3 percent, which is considered excellent by the Biomonitoring Science Advisory Board.

5.0 REFERENCES

WDOE. 2016. Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria. Washington State Department of Ecology. Water Quality Program. Publication number: WQ-R-95-80, Revised June 2016.

WDOE. 2020. Biological Testing Methods 80-12 for the Designation of Dangerous Waste. Washington State Department of Ecology. Hazardous Waste and Toxics Reduction Program. Publication number: 80-12, Revised September 2020.

Appendix A

Oncorhynchus mykiss Dangerous Waste Toxicity Test

Raw Bench Sheets

Dangerous Waste Toxicity Test

Client: OnSite Environmental Inc.
Sample ID: N. Tanks Concrete
Test #: 2308-038
Log In #: T23-264

Start Date & Time: 8/23/2023 0945
End Date & Time: 8/27/2023 0945
Test Organism: *Oncorhynchus mykiss*
Test Protocol: **Washington State Department of Ecology Publ. 80-12**

Rep	Conc.	Cont #	Number of Live Organisms					Dissolved Oxygen (mg/L)					pH (units)					Conductivity (umhos/cm)					Temperature (°C)					Percent Survival
			0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	
1	CON	16	10	10	10	10	10	8.7	8.5	8.1	7.9	7.8	8.06	7.81	7.62	7.45	7.33	345				338	11.9	11.7	12.1	12.3	11.9	
2		21	10	10	10	10	10	8.5	8.2	8.0	7.9	7.9	8.10	7.85	7.65	7.41	7.31	341				342						
3		5	10	10	10	10	10	9.0	8.8	8.5	8.3	8.1	8.04	7.81	7.66	7.39	7.34	348				345						
1	10 PPM	22	10	10	10	10	10	9.1	8.9	8.6	8.4	8.1	8.07	7.84	7.67	7.43	7.37	341				338	11.9	11.9	12.1	12.0	11.8	
2		6	10	10	10	10	10	8.8	8.5	8.2	8.1	8.0	8.03	7.80	7.65	7.40	7.35	344				341						
3		15	10	10	10	10	10	8.8	8.4	8.2	8.0	7.9	8.04	7.86	7.67	7.44	7.32	346				339						
1	100 PPM	11	10	10	10	10	10	8.7	8.6	8.4	8.2	8.2	8.05	7.83	7.64	7.45	7.34	347				348	11.8	12.0	12.1	12.1	12.0	
2		2	10	10	10	10	10	9.1	8.9	8.6	8.3	8.1	8.07	7.84	7.59	7.45	7.35	340				340						
3		20	10	10	10	10	10	9.0	8.7	8.4	8.3	8.2	8.06	7.81	7.62	7.42	7.36	341				338						
1																												
2																												
3																												
1																												
2																												
3																												
1																												
2																												
3																												
1																												
2																												
3																												
Technician Initials																												

Sample	Alk. (init.)	Hard. (init.)	Alk. (fin.)	Hard. (fin.)	Chlorine
	(mg/L as CaCO3)				(mg/L Cl2)
Control	68	100	68	100	<0.03
100 PPM	68	100	68	100	

Animal Source: Troutlodge
Date Received: 7/12/2023

Test Volume: 6.0L
Date of Hatch: 5/31/2023
Date of Swim up: 6/21/2023

Weights (g): .41 .38 .42 .36 .38 .41 .42 .44 .41 .42
Lengths(mm): 41 39 41 37 39 42 41 45 40 40
Length max/min: 45/37 1.2

Loading: 0.69 g/L

μ = .41 Rainier Environmental
μ = 41 Washington Laboratory
5013 Pacific HWY E Suite 20
Tacoma, WA 98424

Dilution Water Source: MHSW 075
QA Check

Appendix B

Reference Toxicant Test

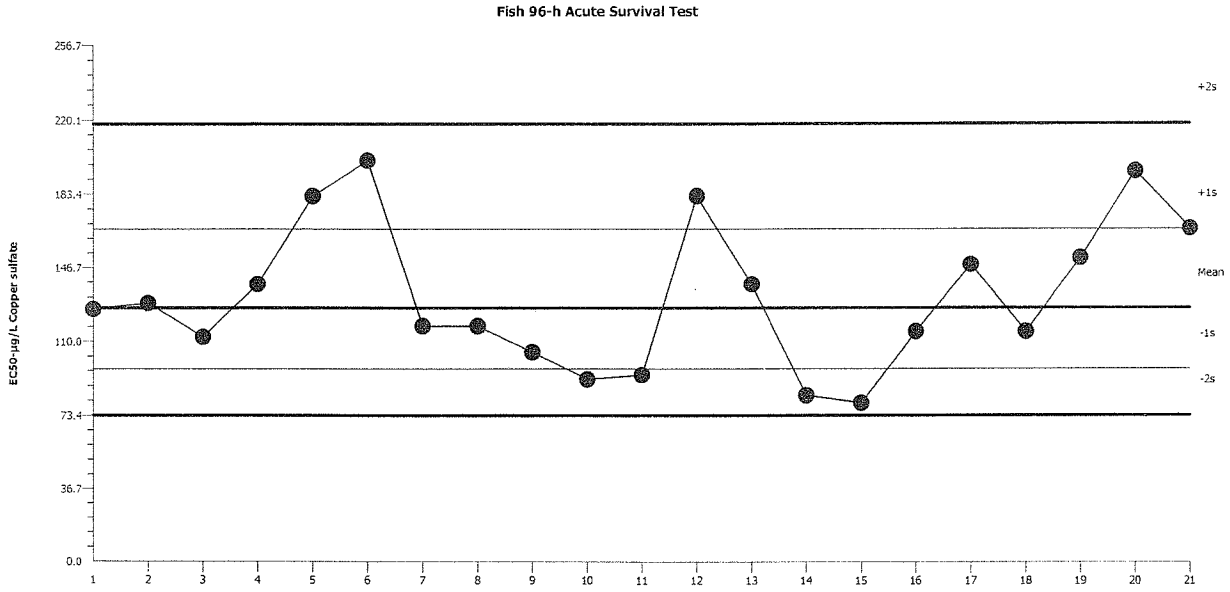
Control Chart and Statistical Summary

CETIS QC Plot

Report Date: 21 Aug-23 10:40 (1 of 1)

Fish 96-h Acute Survival Test — **Rainier Environmental Laboratory**

Test Type:	Survival (96h)	**Organism:**	Oncorhynchus mykiss (Rainbow Tro	**Material:**	Copper sulfate
Protocol:	Not Applicable	**Endpoint:**	96h Survival Rate	**Source:**	Reference Toxicant-REF



Mean:	126.5	**Count:**	20	**-1s Warning Limit:**	96.31	**-2s Action Limit:**	73.35
Sigma:	NA	**CV:**	31.30%	**+1s Warning Limit:**	166.1	**+2s Action Limit:**	218.1

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2021	Dec	6	126	-0.4773	-0.01388			13-8732-0751	08-1557-4326
2	2022	Jan	5	128.9	2.468	0.07094			08-2261-8669	03-7761-6146
3		Feb	5	112.2	-14.22	-0.438			01-7899-0440	09-8784-8920
4		Mar	7	138.2	11.72	0.3254			15-8880-5349	18-5703-0746
5		Apr	11	182.3	55.88	1.343	(+)		19-4475-1025	00-2732-4149
6		May	11	200	73.53	1.683	(+)		04-3686-1214	17-7144-4708
7		Jun	13	117.6	-8.915	-0.2683			02-1194-6933	14-6655-2671
8		Jul	11	117.6	-8.915	-0.2683			18-9490-6426	20-8229-8763
9		Aug	12	104.7	-21.74	-0.6924			16-1269-6384	20-8498-8487
10		Sep	14	91.17	-35.3	-1.201	(-)		21-3997-4244	00-3631-7496
11		Oct	10	93.3	-33.17	-1.117	(-)		01-3925-6404	03-9134-1193
12		Nov	14	182.3	55.88	1.343	(+)		09-0829-7750	07-1545-0995
13		Dec	12	138.2	11.72	0.3254			02-0643-2090	02-3247-9401
14	2023	Jan	12	83.12	-43.35	-1.541	(-)		10-5717-9012	06-2162-7195
15		Feb	13	79.37	-47.1	-1.71	(-)		19-2977-9552	20-0081-1333
16		Mar	13	114.9	-11.6	-0.3532			14-1992-9075	20-3196-8530
17		Apr	14	148.1	21.64	0.5799			00-0643-4903	11-5830-8594
18		May	15	114.9	-11.6	-0.3532			06-5181-9947	15-0207-5859
19		Jun	13	151.6	25.1	0.6647			16-7900-9504	12-9379-3365
20		Jul	14	194.7	68.27	1.585	(+)		19-5463-0764	04-3793-4724
21		Aug	16	166.2	39.78	1.004	(+)		09-9289-7634	17-7520-8601

CETIS Summary Report

Fish 96-h Acute Survival Test — **Rainier Environmental Laboratory**

Batch ID:	10-3512-0978	**Test Type:**	Survival (96h)	**Analyst:**	Eric Tollefson
Start Date:	16 Aug-23 13:30	**Protocol:**	Not Applicable	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	20 Aug-23 13:30	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**	Trout Lodge Fish Farm	**Age:**	55d
Sample ID:	09-7638-9830	**Code:**	RA081623OM	**Client:**	Internal Lab
Sample Date:	16 Aug-23	**Material:**	Copper sulfate	**Project:**	
Receive Date:	16 Aug-23	**Source:**	Reference Toxicant		
Sample Age:	14h	**Station:**	In House		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-5429-9781	96h Survival Rate	50	100	70.71	16.9%		Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
17-7520-8601	96h Survival Rate	LC50	166.2	141.5	195.3		Spearman-Kärber

96h Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	3	1	1	1	1	1	0	0	0.0%	0.0%
25		3	1	1	1	1	1	0	0	0.0%	0.0%
50		3	1	1	1	1	1	0	0	0.0%	0.0%
100		3	0.8	0.7627	0.8373	0.7	0.9	0.05774	0.1	12.5%	20.0%
200		3	0.4333	0.3394	0.5273	0.2	0.7	0.1453	0.2517	58.08%	56.67%
400		3	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	1	1	1
25		1	1	1
50		1	1	1
100		0.9	0.7	0.8
200		0.4	0.7	0.2
400		0	0	0

96h Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	10/10	10/10	10/10
25		10/10	10/10	10/10
50		10/10	10/10	10/10
100		9/10	7/10	8/10
200		4/10	7/10	2/10
400		0/10	0/10	0/10

Appendix C
Chain-of-Custody Form

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 08-179

Laboratory: Rainier Environmental

Attention: Eric Tollefson

Address: 5013 Pacific Highway E, Suite 20, Fife, WA 98424

Phone Number: (253) 922-8898

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: 1 Week

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number:

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SPU-TANKSOLIDS	8/16/23	11:30	S	1	Fish Bioassay (Dangerous Waste 80-12 Test)

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:		ODE	8/22/23	1600	T23-272
Received by:		UPS			
Relinquished by:		UPS			
Received by:	Eric Tollefson	RAINIER	8/23/23	1300	
Relinquished by:					
Received by:					

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge WO-1
Project Manager: Dave Hill
Sampled by: N. Moxley / J. Briere

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☒ 2 Days ~~☒ 3 Days~~ N/A
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 08-161

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664		Fish Bioassay			% Moisture
1	N. Tanks Concrete	8/14/23	1215	Soil	2					X				X	X				X					(X)			
2	OWS-15	8/14/23	1300	Water	9					X				X	X				X								
3	LP-Water	8/15/23	1030	Water	9					X				X	X				X								

	Signature	Company	Date	Time
Relinquished		DH Environmental	8-15-23	1:15
Received		OSE	8/18/23	1315
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

LP-Water contains LNAPL

data to data@dhenviro.com

Hold for possible follow-up of TCLP and/or fish bioassay (X) Added 8/18/23 DB (RUSH 1 week)

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

DANGEROUS WASTE DESIGNATION FORM

Former Jorgensen Forge Site, UST Piping Soil

A. WASTE STREAM NAME AND GENERATION INFORMATION

Waste Stream Name: UST Piping Soil

Generation Process: Utility piping excavation

RCRA ID Number that waste will be managed under:	**Total Quantity and/or Estimated Generation rate:**
NA	~ 40 cubic yards
Other Descriptions (i.e. Shop, Project, Etc.):	

B. WASTE PROPERTIES, CHARACTERISTICS, and CONSTITUENTS:

Physical State:
- ☒Solid (pass paint filter)
- ☐Solid w/freestanding or absorbed liquid
- ☐Liquid (If liquid, indicate if the liquid is:
  - ☐Single Layer
  - ☐Multi-layer

pH:
- ☐< 2 **[D002]**
- ☐> 2 but < 12.5
- ☒N/A
- ☐> 12.5 **[D002]**

Flashpoint:
- ☒N/A
- ☐< 140 °F **[D001]**
- ☐> 140 °F but < 200 °F
- ☐> 200 °F

Characteristic

- ☐Ignitable **[D001]**
- ☐Corrosive **[D002]**
- ☐Reactive **[D003]**
- ☐Toxic **[D004 – D043]**

List Here:

PCB Content

- ☒Not Detected **[non TSCA or State Regulated]**
- ☐Not Sampled
- ☐≥ 2 ppm and < 50 ppm **[Potentially TSCA Regulated or State Regulated PCB Waste-WPCB]**
- ☐≥ 50 ppm **[TSCA Regulated]**
- ☐< 1 ppm

Note:
IF WASTE STREAM IS BEING MANAGED AS TSCA WASTE, DO NOT USE WPCB STATE CODE PER WAC 173-303-071(3)(k)

TCLP Metals

- ☐Arsenic ≥ 5.0 mg/L **[D004]**
- ☐Barium ≥ 100.0 mg/L **[D005]**
- ☐Cadmium ≥ 1.0 mg/L **[D006]**
- ☐Chromium ≥ 5.0 mg/L **[D007]**
- ☐Lead ≥ 5.0 mg/L **[D008]**
- ☐Mercury ≥ 0.2 mg/L **[D009]**
- ☐Selenium ≥ 1.0 mg/L **[D010]**
- ☐Silver ≥ 5.0 mg/L **[D011]**

Check if:
- ☐Assumed
- ☒TCLP Conducted
- ☐TCLP Not Conducted

Comments:

TCLP lead was non-detect for sample greater than "20x rule"

Total Metals

☒mg/kg ☐ug/kg ☐mg/L ☐ug/L

Arsenic:	31	☐ND
Barium:	82	☐ND
Cadmium:	0.85	☐ND
Chromium:	55	☐ND
Copper:	180	☐ND
Lead:	110	☐ND
Mercury:		☒ND
Nickel:	1,100	☐ND
Selenium:		☒ND
Silver:		☒ND
Zinc:	280	☐ND

Comments:

Values represent the highest concentrations among all samples

Physical Composition (list all constituents, including debris, any absorbents, liquid range, etc.).

Constituent	**Volume (Range %)**
Concrete/Asphalt/debris	25 - 50
Soil	50 - 75

C. LISTED WASTE

☐ **Discarded Listed Chemical Product (U or P List):**
☐ **Listed Source Waste (F or K List):**
☒ **Not Applicable:**

D. WA STATE CRITERIA WASTE

☐**Not applicable per WAC 173-303-070(5): Further designation will not change the generator status or change the way the waste must be managed.**

WA Toxic Criteria Equivalent Concentration (E.C):		WA Persistent Criteria Total HOC		WA Persistent Criteria Total PAH	
☒ **< 0.001 %**	**[not a Toxic Criteria DW]**	☒ **< 0.01 %**	**[NOT APPLICABLE]**	☒ **< 1.0%**	**[NOT APPLICABLE]**
☐ **0.001 ≥ 1.0 %**	**[WT02 – DW]**	☐ **0.01 to 1.0%**	**[WP02 – DW]**	☐ **> 1.0%**	**[WP03 – EHW]**
☐ **≥ 1.0%**	**[WT01 – EHW]**	☐ **> 1.0 %**	**[WP01 – EHW]**		

DW: Dangerous Waste EHW: Extremely Hazardous Waste HOC: Halogenated Organic Compounds PAH: Polycyclic Aromatic Hydrocarbons

E. ADDITIONAL INFORMATION (Describe any additional information about the waste (e.g. process knowledge statement, regulatory exemptions, assumptions made, etc.)

A Washington State toxic criteria book designation was conducted in accordance with WAC 173-303-100, for each soil sample representative of the waste stream. Two samples had a calculated equivalent concentration (EC) value greater than 0.001%, resulting in an initial criteria waste designation of WT02. A follow-up fish bioassay was performed in accordance with WAC 173-303-110(3)(b), *Biological Testing Methods for the Designation of Dangerous Waste Method 80-12*, for the sample with the highest EC value. The fish bioassay test resulted in zero mortality, which refutes the initial WT02 designation. **This waste stream is therefore designated as non-dangerous waste.**

Attachments:
☐ **Field Report**
☐ **Sample Log**
☒ **Laboratory Data** (OnSite Environmental Lab Report 2308-254, 2308-254B, and 2310-177)
☒ **Dangerous Waste Toxic Equivalent Concentration Calculation**
☒ **Biological Testing Method 80-12 (Fish Bioassay)**
☐ **Other:**

F. WASTE DESIGNATION SUMMARY

☐ **RCRA Hazardous Waste**
USDOT Proper Shipping Name:
RCRA Waste Codes:

☐ **TSCA Regulated Waste**
TSCA Description:

☒ **Non-Hazardous Solid Waste/RCRA Exempt/RCRA Excluded**
Description: Non-hazardous waste, solid

Designation Performed by: Nathan Moxley, LHG
Title: Senior Geologist Date: 10-17-2023

Designation Reviewed by: Dave Hill, PE, CHMM
Title: Principal Engineer Date: 10-17-2023

1 ng/kg = 10^-10 % (mass %)
Conversions 1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as mg/kg | Conversion Factor 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B					
Barium	7440-39-3	35	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	X					
Chromium	7440-47-3	18	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				1.80E-03	
Copper	7440-50-8	58	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		5.80E-03			
Lead	7439-92-1	24	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	C				2.40E-03	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	A					
Nickel	7440-02-0	150	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	C					1.50E-02
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	D					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	X					
Zinc	7440-66-6	82	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			8.20E-03		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C					
o-Xylene	95-47-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C					
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	0.66	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C				**6.60E-05**	
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	D					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	D					

Acenaphthylene	208-96-8	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	0.13	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C				1.30E-05	
Fluorene	86-73-7	0.25	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B			2.50E-05		
Phenanthrene	85-01-8	2.6	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A		2.60E-04			
Anthracene	120-12-7	0.58	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X	5.80E-05				
Fluoranthene	206-44-0	4.4	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C				4.40E-04	
Pyrene	129-00-0	3.5	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C				3.50E-04	
Benzo(a)anthracene	56-55-3	2.6	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				2.60E-04	
Chrysene	218-01-9	2.8	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				2.80E-04	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	3.42	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.42E-04	
Benzo(a)pyrene	50-32-8	1.8	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.80E-04	
Indeno(1,2,3-cd)pyrene	193-39-5	0.99	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				9.90E-05	
Dibenz(a,h)anthracene	53-70-3	0.32	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.20E-05	
Benzo(g,h,i)perylene	198-55-0	0.93	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				9.30E-05	
Petroleum Hydrocarbons									
Mineral Spirts (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	--	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	Not Applicable					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	--	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	Not Applicable					
Total (SUM)					**0.0000580**	**0.0060600**	**0.0082250**	**0.0063550**	**0.0150**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	5.80E-05	6.06E-03	8.23E-03	6.36E-03	1.50E-02		
	5.80E-05	6.06E-04	8.23E-05	6.36E-06	1.50E-06	**0.0007541**	**Non-Dangerous Waste**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

1 ng/kg = 10^-10 % (mass %)
Conversions 1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as mg/kg | Conversion Factor 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	16	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	**B**			**1.60E-03**		
Barium	7440-39-3	60	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	**NOT APPLICABLE**					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	**X**					
Chromium	7440-47-3	46	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	**C**				**4.60E-03**	
Copper	7440-50-8	180	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	**A**		**1.80E-02**			
Lead	7439-92-1	110	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	**C**				**1.10E-02**	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	**C**					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	**A**					
Nickel	7440-02-0	1100	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	**C**					**1.10E-01**
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	**D**					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	**X**					
Zinc	7440-66-6	120	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	**B**			**1.20E-02**		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	**NOT APPLICABLE**					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	**D**					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	**C**					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	**C**					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	**C**					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	**C**					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	**C**					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	**D**					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	**C**					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	**D**					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	**D**					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	**D**					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	**D**					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	**D**					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	**C**					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	**D**					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	**NOT APPLICABLE**					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	**D**					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	**D**					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	**B**					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	**D**					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	**D**					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	**C**					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	**C**					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	**D**					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	**D**					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	**D**					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	**C**					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	**D**					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	**C**					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	**C**					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C					
o-Xylene	95-47-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C					
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	0.11	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B			1.10E-05		
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	ND	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C					
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	D					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	D					

Acenaphthylene	208-96-8	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	0.041	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A		4.10E-06			
Anthracene	120-12-7	ND	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X					
Fluoranthene	206-44-0	0.066	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C				6.60E-06	
Pyrene	129-00-0	0.062	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C				6.20E-06	
Benzo(a)anthracene	56-55-3	0.033	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.30E-06	
Chrysene	218-01-9	0.045	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				4.50E-06	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	0.049	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				4.90E-06	
Benzo(a)pyrene	50-32-8	0.036	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.60E-06	
Indeno(1,2,3-cd)pyrene	193-39-5	0.029	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				2.90E-06	
Dibenz(a,h)anthracene	53-70-3	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Benzo(g,h,i)perylene	198-55-0	0.041	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				4.10E-06	
Petroleum Hydrocarbons									
Mineral Spirts (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	--	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	Not Applicable					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	--	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	Not Applicable					
Total (SUM)					**0.0000000**	**0.0180041**	**0.0136110**	**0.0156361**	**0.1100**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	0.00E+00	1.80E-02	1.36E-02	1.56E-02	1.10E-01		
	0.00E+00	1.80E-03	1.36E-04	1.56E-05	1.10E-05	**0.0019632**	**WT02**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

Conversions: 1 ng/kg = 10^-10 % (mass %); 1 ug/kg = 10^-7 %; 1 mg/kg = 10^-4 %

Units Displayed as: mg/kg | Conversion Factor: 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	18	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B			1.80E-03		
Barium	7440-39-3	54	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr [3]	X					
Chromium	7440-47-3	54	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				5.40E-03	
Copper	7440-50-8	170	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		1.70E-02			
Lead	7439-92-1	46	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr [3]	C				4.60E-03	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg [3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr [3]	A					
Nickel	7440-02-0	810	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr [3]	C					8.10E-02
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr [3]	D					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr [3]	X					
Zinc	7440-66-6	150	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			1.50E-02		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C					
o-Xylene	95-47-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C					
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	0.056	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B			**5.60E-06**		
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	0.12	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C				**1.20E-05**	
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	D					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	D					

Acenaphthylene	208-96-8	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	ND	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	0.84	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A		8.40E-05			
Anthracene	120-12-7	0.21	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X	2.10E-05				
Fluoranthene	206-44-0	1.5	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C				1.50E-04	
Pyrene	129-00-0	1.2	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C				1.20E-04	
Benzo(a)anthracene	56-55-3	0.87	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				8.70E-05	
Chrysene	218-01-9	0.92	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				9.20E-05	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	1.16	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.16E-04	
Benzo(a)pyrene	50-32-8	0.61	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				6.10E-05	
Indeno(1,2,3-cd)pyrene	193-39-5	0.33	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.30E-05	
Dibenz(a,h)anthracene	53-70-3	0.11	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.10E-05	
Benzo(g,h,i)perylene	198-55-0	0.31	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.10E-05	
Petroleum Hydrocarbons									
Mineral Spirts (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	--	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	Not Applicable					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	--	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	Not Applicable					
Total (SUM)					**0.0000210**	**0.0170840**	**0.0168056**	**0.0107130**	**0.0810**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	2.10E-05	1.71E-02	1.68E-02	1.07E-02	8.10E-02		
	2.10E-05	1.71E-03	1.68E-04	1.07E-05	8.10E-06	**0.0019163**	**WT02**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

1 ng/kg = 10^-10 % (mass %)
Conversions 1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as mg/kg | Conversion Factor 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	31	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B			3.10E-03		
Barium	7440-39-3	82	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	0.85	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	X	8.50E-05				
Chromium	7440-47-3	25	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				2.50E-03	
Copper	7440-50-8	67	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		6.70E-03			
Lead	7439-92-1	49	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	C				4.90E-03	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	A					
Nickel	7440-02-0	94	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	C					9.40E-03
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	D					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	X					
Zinc	7440-66-6	280	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			2.80E-02		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	0.4	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C				4.00E-05	
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	0.46	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C				4.60E-05	
m,p-Xylene	108-38-3, 106-42-3	2.1	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C				2.10E-04	
o-Xylene	95-47-6	0.87	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C				8.70E-05	
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	2.1	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C				2.10E-04	
2-methylnaphthalene	91-57-6	6.6	1630 mg/kg Oral Rat LD50[2]	D					6.60E-04
1-methylnaphthalene	90-12-0	4.6	1840 mg/kg Oral Rate LD50[2]	D					4.60E-04

Acenaphthylene	208-96-8	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	--	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	--	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	--	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A					
Anthracene	120-12-7	--	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X					
Fluoranthene	206-44-0	--	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C					
Pyrene	129-00-0	--	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C					
Benzo(a)anthracene	56-55-3	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Chrysene	218-01-9	0.071	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				**7.10E-06**	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	0.045	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				**4.50E-06**	
Benzo(a)pyrene	50-32-8	0.034	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				**3.40E-06**	
Indeno(1,2,3-cd)pyrene	193-39-5	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Dibenz(a,h)anthracene	53-70-3	ND	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Benzo(g,h,i)perylene	198-55-0	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Petroleum Hydrocarbons									
Mineral Spirts (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	3400	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	**Not Applicable**					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	860	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	**Not Applicable**					
Total (SUM)					**0.0000850**	**0.0067000**	**0.0311000**	**0.0080080**	**0.0105**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	8.50E-05	6.70E-03	3.11E-02	8.01E-03	1.05E-02		
	8.50E-05	6.70E-04	3.11E-04	8.01E-06	1.05E-06	**0.0010751**	**WT02**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

1 ng/kg = 10^-10 % (mass %)
Conversions 1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as mg/kg | Conversion Factor 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B					
Barium	7440-39-3	41	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	X					
Chromium	7440-47-3	55	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				5.50E-03	
Copper	7440-50-8	56	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		5.60E-03			
Lead	7439-92-1	18	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	C				1.80E-03	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	A					
Nickel	7440-02-0	64	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	C					6.40E-03
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	D					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	X					
Zinc	7440-66-6	44	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			4.40E-03		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C					
o-Xylene	95-47-6	0.0012	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C				**1.20E-07**	
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	D					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	**NOT APPLICABLE**					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	D					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	D					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	D					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	C					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	C					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	C					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	A					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	A					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	B					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	B					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	ND	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	C					
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	D					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	D					

Acenaphthylene	208-96-8	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	--	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	--	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	--	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A					
Anthracene	120-12-7	--	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X					
Fluoranthene	206-44-0	--	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C					
Pyrene	129-00-0	--	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C					
Benzo(a)anthracene	56-55-3	0.11	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.10E-05	
Chrysene	218-01-9	0.13	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				1.30E-05	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	0.236	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				2.36E-05	
Benzo(a)pyrene	50-32-8	0.13	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.30E-05	
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				1.60E-05	
Dibenz(a,h)anthracene	53-70-3	0.031	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.10E-06	
Benzo(g,h,i)perylene	198-55-0	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Petroleum Hydrocarbons									
Mineral Spirits (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	120	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	Not Applicable					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	260	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	Not Applicable					
Total (SUM)					**0.0000000**	**0.0056000**	**0.0044000**	**0.0073798**	**0.0064**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	0.00E+00	5.60E-03	4.40E-03	7.38E-03	6.40E-03		
	0.00E+00	5.60E-04	4.40E-05	7.38E-06	6.40E-07	**0.0006120**	**Non-Dangerous Waste**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

1 ng/kg = 10^-10 % (mass %)
Conversions 1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as mg/kg | Conversion Factor 0.0001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	B					
Barium	7440-39-3	33	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	NOT APPLICABLE					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	X					
Chromium	7440-47-3	20	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	C				2.00E-03	
Copper	7440-50-8	30	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	A		3.00E-03			
Lead	7439-92-1	18	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	C				1.80E-03	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	C					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	A					
Nickel	7440-02-0	58	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	C					5.80E-03
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	D					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	X					
Zinc	7440-66-6	43	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	B			4.30E-03		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	NOT APPLICABLE					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	D					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	C					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	C					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	C					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	C					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	C					
Acetone	67-64-1	ND	LC Rat Inhalation 50.10 mg/kg[1]	D					
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	C					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	D					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	D					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	D					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	D					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	D					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	C					
2,2-Dichloropropane	594-20-7	ND	TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	D					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	NOT APPLICABLE					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	D					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	D					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	B					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	D					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	D					
1,1-Dichloropropene	563-58-6	ND	TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C					
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					

Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	**D**					
Toluene	108-88-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	**C**					
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	**C**					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	**D**					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	**C**					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	**D**					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	**D**					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	**C**					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	**C**					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	**C**					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	**D**					
Ethylbenzene	100-41-4	ND	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	**C**					
m,p-Xylene	108-38-3, 106-42-3	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	**C**					
o-Xylene	95-47-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	**C**					
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	**A**					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	**C**					
Isopropylbenzene	98-82-8	ND	1400 mg/kg Oral Rat LD50[2]	**D**					
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	**D**					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	**C**					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	**C**					
n-propyl benzene	103-65-1	ND	6040 mg/kg Oral Rat LD50[2]	**NOT APPLICABLE**					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	**D**					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	**D**					
1,3,5-Trimethylbenzene	108-67-8	ND	LD50 Oral Rat 5000 mg/kg[1]	**D**					
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	**D**					
1,2,4-Trimethylbenzene	95-63-6	ND	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	**C**					
sec-Butylbenzene	135-98-8	ND	2240 mg/kg Oral Rat LD50[2]	**D**					
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	**D**					
p-Isopropyltoluene	99-87-6	ND	LD50 Rat oral 4750 mg/kg[2]	**D**					
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	**C**					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	**C**					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	**D**					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	**C**					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	**D**					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	**C**					
Naphthalene	91-20-3	ND	LD50 Oral Rat 490 mg/kg[3]	**C**					
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	**D**					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	**B**					
Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	**C**					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	**C**					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	**A**					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	**A**					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	**B**					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	**B**					
PAHs by EPA 8270D/SIM									
Naphthalene	91-20-3	ND	LC50 Oncorhynchus gorbuscha (pink salmon) 1.4 mg/L/96 hr[2]	**C**					
2-methylnaphthalene	91-57-6	ND	1630 mg/kg Oral Rat LD50[2]	**D**					
1-methylnaphthalene	90-12-0	ND	1840 mg/kg Oral Rate LD50[2]	**D**					

Acenaphthylene	208-96-8	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Acenaphthene	83-32-9	--	LC50 Oncorhynchus mykiss (Rainbow trout) 1570 ug/L 96hr[3]	C					
Fluorene	86-73-7	--	LC50 Oncorhynchus mykiss (Rainbow trout) 820 ug/L 96hr[3]	B					
Phenanthrene	85-01-8	--	LC50 Oncorhynchus mykiss (Rainbow trout, larvae) 40 ug/L 27 days[2]	A					
Anthracene	120-12-7	--	LC50 Lepomis macrochirus (bluegill) 1.27 ug/L 96hr[2]	X					
Fluoranthene	206-44-0	--	LC50 Lepomis macrochirus (bluegill) 3980 ug/L 96hr[2]	C					
Pyrene	129-00-0	--	LC50 Oncorhynchus mykiss (Rainbow trout) 2000 ug/L 96hr[3]	C					
Benzo(a)anthracene	56-55-3	0.57	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				5.70E-05	
Chrysene	218-01-9	0.59	LC50 Neanthes arenaceodentata (fish) > 1 mg/L96 hr	C				5.90E-05	
Benzofluoranthenes (total)	(205-99-2) (207-08-9)	0.91	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				9.10E-05	
Benzo(a)pyrene	50-32-8	0.63	LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				6.30E-05	
Indeno(1,2,3-cd)pyrene	193-39-5	0.37	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				3.70E-05	
Dibenz(a,h)anthracene	53-70-3	0.088	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C				8.80E-06	
Benzo(g,h,i)perylene	198-55-0	--	NO DATA AVAILABLE: Taken as equivalent to Benzo(a)pyrene, LC50 Poeciliopsis lucida (Clearfin livebearer) 1.2-3.7 mg/l 24-hr[2]	C					
Petroleum Hydrocarbons									
Mineral Spirits (Stoddard Solvent)	8052-41-3	--	LD50 Oral Rat 5000 mg/kg[1]	D					
Diesel Range	68334-30-5	ND	TAKEN AS DIESEL: 7500 mg/kg Oral Rat LD50[1]	Not Applicable					
Heavy Hydrocarbon Range (Lube Oil Range)	64742-65-0	190	TAKEN AS Lube Oil Range: > 5000 mg/kg Oral Rat LD50[1]	Not Applicable					
Total (SUM)					**0.0000000**	**0.0030000**	**0.0043000**	**0.0041158**	**0.0058**

	∑X% / 1	∑A% / 10	∑B% / 100	∑C% / 1000	∑D% / 10000	EC	Designation
Enter Category Mass % Here →	0.00E+00	3.00E-03	4.30E-03	4.12E-03	5.80E-03		
	0.00E+00	3.00E-04	4.30E-05	4.12E-06	5.80E-07	**0.0003477**	**Non-Dangerous Waste**

Sources
1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 28, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge Waste Designation
Laboratory Reference No. 2308-254

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

Case Narrative

Samples were collected on August 23, 2023 and received by the laboratory on August 23, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-1**					
Laboratory ID:	08-254-01					
Dichlorodifluoromethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Acetone	ND	0.0066	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Carbon Disulfide	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Vinyl Acetate	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
2-Butanone	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Methyl Isobutyl Ketone	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0033	EPA 8260D	8-23-23	8-23-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-1**					
Laboratory ID:	08-254-01					
(trans) 1,3-Dichloropropene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
2-Hexanone	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0013	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Styrene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Isopropylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.0033	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.00066	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Acetone	ND	0.0086	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0065	EPA 8260D	8-23-23	8-23-23	
Carbon Disulfide	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Vinyl Acetate	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
2-Butanone	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Methyl Isobutyl Ketone	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0043	EPA 8260D	8-23-23	8-23-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
2-Hexanone	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0017	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Styrene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Isopropylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.0043	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-3**					
Laboratory ID:	08-254-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Acetone	ND	0.0083	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0063	EPA 8260D	8-23-23	8-23-23	
Carbon Disulfide	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Vinyl Acetate	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
2-Butanone	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0042	EPA 8260D	8-23-23	8-23-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-3**					
Laboratory ID:	08-254-03					
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
2-Hexanone	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0017	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Styrene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Isopropylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.0042	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Acetone	ND	0.010	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0076	EPA 8260D	8-23-23	8-23-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Butanone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Hexanone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Styrene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0375**	**0.0370**	0.0500	0.0500	75	74	30-160	1	26	
Chloromethane	**0.0410**	**0.0429**	0.0500	0.0500	82	86	59-131	5	26	
Vinyl Chloride	**0.0440**	**0.0473**	0.0500	0.0500	88	95	68-136	7	23	
Bromomethane	**0.0420**	**0.0476**	0.0500	0.0500	84	95	48-155	13	32	
Chloroethane	**0.0458**	**0.0506**	0.0500	0.0500	92	101	67-141	10	16	
Trichlorofluoromethane	**0.0513**	**0.0575**	0.0500	0.0500	103	115	76-127	11	19	
1,1-Dichloroethene	**0.0489**	**0.0544**	0.0500	0.0500	98	109	75-129	11	19	
Acetone	**0.0572**	**0.0568**	0.0500	0.0500	114	114	49-158	1	37	
Iodomethane	**0.0328**	**0.0389**	0.0500	0.0500	66	78	37-140	17	27	
Carbon Disulfide	**0.0415**	**0.0452**	0.0500	0.0500	83	90	41-143	9	19	
Methylene Chloride	**0.0467**	**0.0525**	0.0500	0.0500	93	105	60-124	12	18	
(trans) 1,2-Dichloroethene	**0.0489**	**0.0538**	0.0500	0.0500	98	108	79-133	10	15	
Methyl t-Butyl Ether	**0.0498**	**0.0526**	0.0500	0.0500	100	105	73-125	5	17	
1,1-Dichloroethane	**0.0491**	**0.0541**	0.0500	0.0500	98	108	79-125	10	17	
Vinyl Acetate	**0.0538**	**0.0552**	0.0500	0.0500	108	110	51-145	3	41	
2,2-Dichloropropane	**0.0532**	**0.0532**	0.0500	0.0500	106	106	79-126	0	18	
(cis) 1,2-Dichloroethene	**0.0523**	**0.0574**	0.0500	0.0500	105	115	75-131	9	15	
2-Butanone	**0.0567**	**0.0572**	0.0500	0.0500	113	114	54-145	1	32	
Bromochloromethane	**0.0496**	**0.0552**	0.0500	0.0500	99	110	80-126	11	15	
Chloroform	**0.0488**	**0.0525**	0.0500	0.0500	98	105	80-123	7	15	
1,1,1-Trichloroethane	**0.0466**	**0.0523**	0.0500	0.0500	93	105	78-124	12	21	
Carbon Tetrachloride	**0.0419**	**0.0473**	0.0500	0.0500	84	95	74-127	12	18	
1,1-Dichloropropene	**0.0445**	**0.0516**	0.0500	0.0500	89	103	80-123	15	15	
Benzene	**0.0476**	**0.0520**	0.0500	0.0500	95	104	80-122	9	18	
1,2-Dichloroethane	**0.0494**	**0.0542**	0.0500	0.0500	99	108	75-124	9	15	
Trichloroethene	**0.0514**	**0.0521**	0.0500	0.0500	103	104	80-129	1	18	
1,2-Dichloropropane	**0.0539**	**0.0540**	0.0500	0.0500	108	108	80-123	0	15	
Dibromomethane	**0.0499**	**0.0483**	0.0500	0.0500	100	97	80-123	3	15	
Bromodichloromethane	**0.0532**	**0.0533**	0.0500	0.0500	106	107	80-129	0	15	
(cis) 1,3-Dichloropropene	**0.0540**	**0.0541**	0.0500	0.0500	108	108	80-130	0	15	
Methyl Isobutyl Ketone	**0.0554**	**0.0518**	0.0500	0.0500	111	104	63-137	7	27	
Toluene	**0.0505**	**0.0497**	0.0500	0.0500	101	99	80-120	2	18	
(trans) 1,3-Dichloropropene	**0.0546**	**0.0554**	0.0500	0.0500	109	111	80-124	1	15	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0480**	**0.0480**	0.0500	0.0500	96	96	80-120	0	15	
Tetrachloroethene	**0.0540**	**0.0547**	0.0500	0.0500	108	109	77-126	1	15	
1,3-Dichloropropane	**0.0529**	**0.0528**	0.0500	0.0500	106	106	77-123	0	15	
2-Hexanone	**0.0557**	**0.0517**	0.0500	0.0500	111	103	53-137	7	29	
Dibromochloromethane	**0.0548**	**0.0528**	0.0500	0.0500	110	106	80-128	4	16	
1,2-Dibromoethane	**0.0528**	**0.0514**	0.0500	0.0500	106	103	80-122	3	20	
Chlorobenzene	**0.0495**	**0.0509**	0.0500	0.0500	99	102	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0504**	**0.0498**	0.0500	0.0500	101	100	80-120	1	15	
Ethylbenzene	**0.0510**	**0.0522**	0.0500	0.0500	102	104	80-120	2	15	
m,p-Xylene	**0.0990**	**0.102**	0.100	0.100	99	102	80-120	3	15	
o-Xylene	**0.0511**	**0.0525**	0.0500	0.0500	102	105	80-120	3	15	
Styrene	**0.0509**	**0.0531**	0.0500	0.0500	102	106	80-122	4	15	
Bromoform	**0.0538**	**0.0538**	0.0500	0.0500	108	108	78-126	0	15	
Isopropylbenzene	**0.0520**	**0.0540**	0.0500	0.0500	104	108	80-125	4	15	
Bromobenzene	**0.0494**	**0.0476**	0.0500	0.0500	99	95	79-124	4	15	
1,1,2,2-Tetrachloroethane	**0.0521**	**0.0493**	0.0500	0.0500	104	99	75-122	6	17	
1,2,3-Trichloropropane	**0.0502**	**0.0473**	0.0500	0.0500	100	95	72-125	6	20	
n-Propylbenzene	**0.0493**	**0.0492**	0.0500	0.0500	99	98	77-126	0	16	
2-Chlorotoluene	**0.0523**	**0.0508**	0.0500	0.0500	105	102	75-128	3	15	
4-Chlorotoluene	**0.0515**	**0.0507**	0.0500	0.0500	103	101	78-127	2	16	
1,3,5-Trimethylbenzene	**0.0502**	**0.0500**	0.0500	0.0500	100	100	77-128	0	15	
tert-Butylbenzene	**0.0502**	**0.0491**	0.0500	0.0500	100	98	73-130	2	20	
1,2,4-Trimethylbenzene	**0.0514**	**0.0499**	0.0500	0.0500	103	100	77-125	3	16	
sec-Butylbenzene	**0.0488**	**0.0472**	0.0500	0.0500	98	94	75-130	3	17	
1,3-Dichlorobenzene	**0.0519**	**0.0514**	0.0500	0.0500	104	103	78-123	1	17	
p-Isopropyltoluene	**0.0511**	**0.0513**	0.0500	0.0500	102	103	75-130	0	18	
1,4-Dichlorobenzene	**0.0520**	**0.0510**	0.0500	0.0500	104	102	77-121	2	17	
1,2-Dichlorobenzene	**0.0518**	**0.0511**	0.0500	0.0500	104	102	80-120	1	15	
n-Butylbenzene	**0.0532**	**0.0534**	0.0500	0.0500	106	107	76-131	0	20	
1,2-Dibromo-3-chloropropane	**0.0597**	**0.0523**	0.0500	0.0500	119	105	61-137	13	28	
1,2,4-Trichlorobenzene	**0.0582**	**0.0604**	0.0500	0.0500	116	121	77-127	4	17	
Hexachlorobutadiene	**0.0514**	**0.0512**	0.0500	0.0500	103	102	77-125	0	22	
Naphthalene	**0.0552**	**0.0519**	0.0500	0.0500	110	104	68-129	6	19	
1,2,3-Trichlorobenzene	**0.0527**	**0.0548**	0.0500	0.0500	105	110	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*92*	*102*	*75-130*			
Toluene-d8					*100*	*99*	*78-128*			
4-Bromofluorobenzene					*107*	*107*	*71-130*			

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-1**					
Laboratory ID:	08-254-01					
Naphthalene	**0.66**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
2-Methylnaphthalene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
1-Methylnaphthalene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Acenaphthylene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Acenaphthene	**0.13**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Fluorene	**0.25**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Phenanthrene	**2.6**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Anthracene	**0.58**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Fluoranthene	**4.4**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Pyrene	**3.5**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]anthracene	**2.6**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Chrysene	**2.8**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[b]fluoranthene	**2.6**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo(j,k)fluoranthene	**0.82**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]pyrene	**1.8**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Indeno(1,2,3-c,d)pyrene	**0.99**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Dibenz[a,h]anthracene	**0.32**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[g,h,i]perylene	**0.93**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*79*	*39-111*				
Pyrene-d10	*99*	*47-114*				
Terphenyl-d14	*96*	*44-121*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
Naphthalene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
2-Methylnaphthalene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
1-Methylnaphthalene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Acenaphthylene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Acenaphthene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Fluorene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Phenanthrene	**0.041**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Anthracene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Fluoranthene	**0.066**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Pyrene	**0.062**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Benzo[a]anthracene	**0.033**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Chrysene	**0.045**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Benzo[b]fluoranthene	**0.049**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Benzo(j,k)fluoranthene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Benzo[a]pyrene	**0.036**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Indeno(1,2,3-c,d)pyrene	**0.029**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Dibenz[a,h]anthracene	**ND**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Benzo[g,h,i]perylene	**0.041**	0.014	EPA 8270E/SIM	8-24-23	8-28-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*82*	*39-111*				
Pyrene-d10	*91*	*47-114*				
Terphenyl-d14	*93*	*44-121*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-3**					
Laboratory ID:	08-254-03					
Naphthalene	**0.12**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
2-Methylnaphthalene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
1-Methylnaphthalene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Acenaphthylene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Acenaphthene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Fluorene	**ND**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Phenanthrene	**0.84**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Anthracene	**0.21**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Fluoranthene	**1.5**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Pyrene	**1.2**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]anthracene	**0.87**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Chrysene	**0.92**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[b]fluoranthene	**0.92**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo(j,k)fluoranthene	**0.24**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]pyrene	**0.61**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Indeno(1,2,3-c,d)pyrene	**0.33**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Dibenz[a,h]anthracene	**0.11**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[g,h,i]perylene	**0.31**	0.072	EPA 8270E/SIM	8-24-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*78*	*39-111*				
Pyrene-d10	*96*	*47-114*				
Terphenyl-d14	*92*	*44-121*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S2					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Fluorene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*39-111*				
Pyrene-d10	*85*	*47-114*				
Terphenyl-d14	*91*	*44-121*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0824S2									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0794**	**0.0701**	0.0833	0.0833	95	84	57-116	12	16	
Acenaphthylene	**0.0798**	**0.0766**	0.0833	0.0833	96	92	59-124	4	15	
Acenaphthene	**0.0748**	**0.0706**	0.0833	0.0833	90	85	59-124	6	15	
Fluorene	**0.0770**	**0.0713**	0.0833	0.0833	92	86	62-122	8	15	
Phenanthrene	**0.0747**	**0.0702**	0.0833	0.0833	90	84	62-119	6	15	
Anthracene	**0.0761**	**0.0739**	0.0833	0.0833	91	89	64-123	3	15	
Fluoranthene	**0.0743**	**0.0735**	0.0833	0.0833	89	88	63-123	1	15	
Pyrene	**0.0715**	**0.0708**	0.0833	0.0833	86	85	62-124	1	15	
Benzo[a]anthracene	**0.0756**	**0.0765**	0.0833	0.0833	91	92	59-131	1	15	
Chrysene	**0.0716**	**0.0689**	0.0833	0.0833	86	83	61-124	4	15	
Benzo[b]fluoranthene	**0.0776**	**0.0767**	0.0833	0.0833	93	92	60-126	1	15	
Benzo(j,k)fluoranthene	**0.0726**	**0.0697**	0.0833	0.0833	87	84	63-121	4	17	
Benzo[a]pyrene	**0.0781**	**0.0760**	0.0833	0.0833	94	91	60-122	3	15	
Indeno(1,2,3-c,d)pyrene	**0.0897**	**0.0883**	0.0833	0.0833	108	106	58-127	2	15	
Dibenz[a,h]anthracene	**0.0894**	**0.0865**	0.0833	0.0833	107	104	60-124	3	15	
Benzo[g,h,i]perylene	**0.0821**	**0.0789**	0.0833	0.0833	99	95	58-124	4	15	
Surrogate:										
2-Fluorobiphenyl					*88*	*96*	*39-111*			
Pyrene-d10					*81*	*85*	*47-114*			
Terphenyl-d14					*89*	*92*	*44-121*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-1**					
Laboratory ID:	08-254-01					
Aroclor 1016	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1254	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*50-127*				
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
Aroclor 1016	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1254	**0.11**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*78*	*50-127*				
Client ID:	**NT-piping-Soil-3**					
Laboratory ID:	08-254-03					
Aroclor 1016	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1254	**0.056**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	8-25-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*79*	*50-127*				

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0825S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-25-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*100*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-254-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.350**	**0.325**	0.500	0.500	ND	**70**	**65**	41-121	7	28	
Surrogate:											
DCB						*75*	*74*	*50-127*			

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-1**					
Laboratory ID:	08-254-01					
Arsenic	**ND**	11	EPA 6010D	8-24-23	8-24-23	
Barium	**35**	2.7	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.54	EPA 6010D	8-24-23	8-24-23	
Chromium	**18**	0.54	EPA 6010D	8-24-23	8-24-23	
Copper	**58**	1.1	EPA 6010D	8-24-23	8-24-23	
Lead	**24**	5.4	EPA 6010D	8-24-23	8-24-23	
Mercury	**ND**	0.27	EPA 7471B	8-23-23	8-23-23	
Nickel	**150**	2.7	EPA 6010D	8-24-23	8-24-23	
Selenium	**ND**	11	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.1	EPA 6010D	8-24-23	8-24-23	
Zinc	**82**	2.7	EPA 6010D	8-24-23	8-24-23	
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
Arsenic	**16**	11	EPA 6010D	8-24-23	8-24-23	
Barium	**60**	2.7	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.54	EPA 6010D	8-24-23	8-24-23	
Chromium	**46**	0.54	EPA 6010D	8-24-23	8-24-23	
Copper	**180**	1.1	EPA 6010D	8-24-23	8-24-23	
Lead	**110**	5.4	EPA 6010D	8-24-23	8-24-23	
Mercury	**ND**	0.27	EPA 7471B	8-23-23	8-23-23	
Nickel	**1100**	27	EPA 6010D	8-24-23	8-28-23	
Selenium	**ND**	11	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.1	EPA 6010D	8-24-23	8-24-23	
Zinc	**120**	2.7	EPA 6010D	8-24-23	8-24-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-3**					
Laboratory ID:	08-254-03					
Arsenic	**18**	11	EPA 6010D	8-24-23	8-24-23	
Barium	**54**	2.7	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.54	EPA 6010D	8-24-23	8-24-23	
Chromium	**54**	0.54	EPA 6010D	8-24-23	8-24-23	
Copper	**170**	1.1	EPA 6010D	8-24-23	8-24-23	
Lead	**46**	5.4	EPA 6010D	8-24-23	8-24-23	
Mercury	**ND**	0.27	EPA 7471B	8-23-23	8-23-23	
Nickel	**810**	27	EPA 6010D	8-24-23	8-28-23	
Selenium	**ND**	11	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.1	EPA 6010D	8-24-23	8-24-23	
Zinc	**150**	2.7	EPA 6010D	8-24-23	8-24-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824SM3					
Arsenic	**ND**	10	EPA 6010D	8-24-23	8-24-23	
Barium	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.50	EPA 6010D	8-24-23	8-24-23	
Chromium	**ND**	0.50	EPA 6010D	8-24-23	8-24-23	
Copper	**ND**	1.0	EPA 6010D	8-24-23	8-24-23	
Lead	**ND**	5.0	EPA 6010D	8-24-23	8-24-23	
Nickel	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Selenium	**ND**	10	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.0	EPA 6010D	8-24-23	8-24-23	
Zinc	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Laboratory ID:	MB0823S1					
Mercury	**ND**	0.25	EPA 7471B	8-23-23	8-23-23	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-266-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**44.2**	**42.8**	NA	NA		NA		NA	3	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**20.3**	**17.5**	NA	NA		NA		NA	15	20	
Copper	**20.6**	**19.0**	NA	NA		NA		NA	8	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**25.4**	**24.0**	NA	NA		NA		NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**28.7**	**27.5**	NA	NA		NA		NA	4	20	
Laboratory ID:	08-218-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-266-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**99.9**	**99.3**	100	100	ND	**100**	**99**	75-125	1	20	
Barium	**147**	**148**	100	100	44.2	**103**	**104**	75-125	1	20	
Cadmium	**47.2**	**46.9**	50.0	50.0	ND	**94**	**94**	75-125	1	20	
Chromium	**119**	**120**	100	100	20.3	**98**	**99**	75-125	1	20	
Copper	**69.5**	**69.5**	50.0	50.0	20.6	**98**	**98**	75-125	0	20	
Lead	**249**	**248**	250	250	ND	**100**	**99**	75-125	0	20	
Nickel	**120**	**121**	100	100	25.4	**95**	**95**	75-125	0	20	
Selenium	**95.9**	**96.3**	100	100	ND	**96**	**96**	75-125	0	20	
Silver	**23.5**	**22.9**	25.0	25.0	ND	**94**	**91**	75-125	3	20	
Zinc	**129**	**130**	100	100	28.7	**100**	**101**	75-125	1	20	
Laboratory ID:	08-218-01										
Mercury	**0.507**	**0.509**	0.500	0.500	0.0124	**99**	**99**	80-120	0	20	

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Date of Report: August 28, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254
Project: Star Forge Waste Designation

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-piping-Soil-1	08-254-01	**7**	8-23-23
NT-piping-Soil-2	08-254-02	**8**	8-23-23
NT-piping-Soil-3	08-254-03	**7**	8-23-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☒ 3 Day
- ☐ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ _____ (other)

Project Manager:

Laboratory No. 08-254

Company: DH Environmental

Project No.:

Project Name: Star Forge Waste Designation

Project Manager: D. Hill

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8) + Cu, Ni, Zn	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	NT-piping-soil-1	8/23/23	0815	soil	4				X			X	X			X									10
2	NT-piping-soil-2	↓	0825	↓	↓				↓			↓	↓			↓									1
3	NT-piping-soil-3		0835																						

RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM DHE	TIME 1110	FIRM CORE	TIME 1110
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME

COMMENTS:

Chromatographs with final report ☐

REVIEWED BY | DATE REVIEWED

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 5, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge Waste Designation
Laboratory Reference No. 2308-254B

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254B
Project: Star Forge Waste Designation

Case Narrative

Samples were collected on August 23, 2023 and received by the laboratory on August 23, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254B
Project: Star Forge Waste Designation

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-Soil-2**					
Laboratory ID:	08-254-02					
Lead	**ND**	0.20	EPA 6010D	8-30-23	8-30-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 23, 2023
Laboratory Reference: 2308-254B
Project: Star Forge Waste Designation

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830TM1					
Lead	**ND**	0.20	EPA 6010D	8-30-23	8-30-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-071-13										
	ORIG	DUP									
Lead	**6.46**	**6.43**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	08-071-13										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**16.1**	**15.9**	10.0	10.0	6.46	**96**	**94**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Rainier ENVIRONMENTAL

Dangerous Waste Characterization

Sample ID: NT-Piping-Soil-2

Report date: September 4, 2023

Submitted to:

OnSite Environmental
14648 NE 95th Street
Redmond, WA 98052

Rainier Environmental
5013 Pacific Hwy East
Suite 20
Tacoma, WA 98424

1.0 INTRODUCTION

A dangerous waste characterization using the test organism *Oncorhynchus mykiss* (rainbow trout) was conducted on one sample submitted by OnSite Environmental to Rainier Environmental. Testing was conducted following the Washington State Department of Ecology Publication 80-12.

2.0 METHODS

The sample, NT-Piping-Soil-2, was received in the laboratory on August 30, 2023. Upon arrival at the laboratory the sample was inspected and contents verified against information provided on the chain-of-custody form. The sample was stored at 4°C in the dark until use. The test procedure is outlined in Table 1.

Table 1. Summary of Dangerous Waste Characterization Test Conditions

Parameter	Standard Fish Toxicity Test
Test number	2308-063
Sample ID	NT-Piping-Soil-2
Test initiation date; time	8/31/2023; 1200h
Test termination date; time	9/4/2023; 1200h
Endpoint	Mortality at 96-hours
Test chamber	7.5 L Plastic tank
Test temperature	12 ± 1°C
Dilution water	Moderately hard synthetic water
Test solution volume	6 L
Test concentrations (mg/L)	100, 10, 0
Number of organisms/chamber	10
Number of replicates	3
Test organism	*Oncorhynchus mykiss* (rainbow trout)
Feeding	No feeding during test
Photoperiod	16 hours light/ 8 hours dark
Extraction	Rotary agitation (30 +/- 2 rpm) for 18 hours
Reference Toxicant	Copper sulfate
Deviations	None

The test organisms used in the test are outlined in Table 2. The sample was tested using fish received on July 12, 2023.

Table 2. Test organisms (*Oncorhynchus mykiss*)

Test organism age	70 days post swim-up (hatch date 5/31/2023)
Mean weight	0.42 g
Mean length	42 mm
Ratio of longest to shortest	1.2
Loading	0.70 g/L
Test organism source	Trout Lodge; Sumner, WA

3.0 RESULTS

A summary of results for the dangerous waste characterization conducted on NT-Piping-Soil-2 is contained in Table 3. There was no mortality during the test. Based on these results, the sample does not designate as either a dangerous or extremely hazardous waste. Copies of the laboratory bench sheets, statistical summaries of reference toxicant tests, and chain-of-custody form are provided in Appendices A through C.

Table 3. Summary of Results

Sample ID	Concentration (mg/L)	Survival (# fish, N=30)	Percent Mortality	Dangerous Waste Designation
Control	0	30	0	NA
NT-Piping-Soil-2	10	30	0	None
	100	30	0	

4.0 QUALITY ASSURANCE

The most recently completed reference toxicant test was initiated August 16, 2023. The LC_{50} of 166 µg/L copper fell within the acceptable range of mean ± two standard deviations of historical test results indicating that the test organisms were of an appropriate degree of sensitivity. The coefficient of variation (CV) for the last 20 tests was 31.3 percent, which is considered excellent by the Biomonitoring Science Advisory Board.

5.0 REFERENCES

WDOE. 2016. Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria. Washington State Department of Ecology. Water Quality Program. Publication number: WQ-R-95-80, Revised June 2016.

WDOE. 2020. Biological Testing Methods 80-12 for the Designation of Dangerous Waste. Washington State Department of Ecology. Hazardous Waste and Toxics Reduction Program. Publication number: 80-12, Revised September 2020.

Appendix A

Oncorhynchus mykiss Dangerous Waste Toxicity Test

Raw Bench Sheets

Dangerous Waste Toxicity Test

Client: ONSITE ENVIRONMENTAL
Sample ID: NT-PIPING-SOIL-2
Test #: 2308-063
Log In #: T23-282

Start Date & Time: 8/31/2023 1200
End Date & Time: 9/4/2023 1200
Test Organism: *Oncorhynchus mykiss*
Test Protocol: **Washington State Department of Ecology Publ. 80-12**

Rep	Conc.	Cont #	Number of Live Organisms 0	24	48	72	96	Dissolved Oxygen (mg/L) 0	24	48	72	96	pH (units) 0	24	48	72	96	Conductivity (umhos/cm) 0	24	48	72	96	Temperature (°C) 0	24	48	72	96	Percent Survival
1	CON	4	10	10	10	10	10	9.0	8.6	8.3	8.1	7.9	7.88	7.71	7.55	7.34	7.32	323				319	12.0	12.3	11.8	12.0	12.1	
2		18	10	10	10	10	10	8.8	8.4	8.0	7.8	7.7	7.93	7.73	751	7.35	7.30	320				318						
3		23	10	10	10	10	10	8.8	8.3	8.1	8.0	7.9	7.94	7.74	7.54	7.36	7.29	321				315						
1	10PPM	14	10	10	10	10	10	9.0	8.7	8.4	8.1	8.0	7.89	7.68	7.52	7.30	7.22	322				317	12.3	12.3	12.0	12.0	12.0	
2		5	10	10	10	10	10	8.9	8.5	8.3	8.1	7.8	7.92	7.67	7.55	7.28	7.19	322				320						
3		13	10	10	10	10	10	8.9	8.4	8.1	7.9	7.8	7.93	7.70	7.49	7.33	7.23	321				321						
1	100PPM	6	10	10	10	10	10	9.1	8.7	8.4	8.3	8.2	7.93	7.67	7.49	7.31	7.27	323				324	12.1	12.4	11.9	12.0	12.1	
2		26	10	10	10	10	10	9.0	8.5	8.4	8.2	8.2	7.95	7.65	7.51	7.33	7.22	322				318						
3		3	10	10	10	10	10	9.1	8.6	8.3	8.1	8.0	7.92	7.69	7.53	7.35	7.31	323				322						
1																												
2																												
3																												
1																												
2																												
3																												
1																												
2																												
3																												
1																												
2																												
3																												
Technician Initials			LH	LH	LH	LH	LH	LH	LH	LH	LH	LH																

Sample	Alk. (init.)	Hard. (init.)	Alk. (fin.)	Hard. (fin.)	Chlorine
	(mg/L as CaCO3)				(mg/L Cl2)
Control	64	92	64	92	<0.03
100PPM	64	92	64	92	

Animal Source: TROUT LODGE
Date Received: 7/12/2023

Test Volume: 6.0L
Date of Hatch: 5/31/2023
Date of Swim up: 6/21/2023

Weights (g): .46 .39 .41 .43 .41 .38 .46 .43 .42 .43
Lengths(mm): 46 39 42 41 41 38 45 45 42 43
Length max/min: 46/38 1.2

μ = .42 Rainier Environmental
μ = 42 Washington Laboratory
5013 Pacific HWY E Suite 20
Tacoma, WA 98424

Loading: 0.70 g/L

Dilution Water Source: MASW 079

QA Check LH

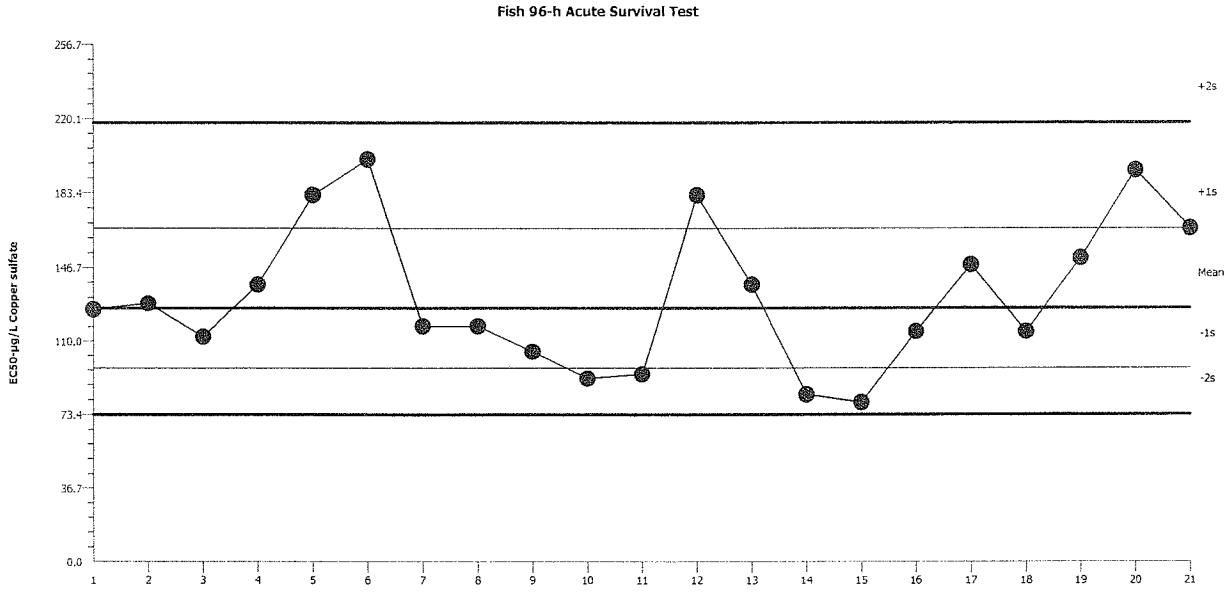
Appendix B

Reference Toxicant Test

Control Chart and Statistical Summary

Fish 96-h Acute Survival Test — **Rainier Environmental Laboratory**

Test Type:	Survival (96h)	**Organism:**	Oncorhynchus mykiss (Rainbow Tro	**Material:**	Copper sulfate
Protocol:	Not Applicable	**Endpoint:**	96h Survival Rate	**Source:**	Reference Toxicant-REF



Mean:	126.5	**Count:**	20	**-1s Warning Limit:**	96.31	**-2s Action Limit:**	73.35
Sigma:	NA	**CV:**	31.30%	**+1s Warning Limit:**	166.1	**+2s Action Limit:**	218.1

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2021	Dec	6	126	-0.4773	-0.01388			13-8732-0751	08-1557-4326
2	2022	Jan	5	128.9	2.468	0.07094			08-2261-8669	03-7761-6146
3		Feb	5	112.2	-14.22	-0.438			01-7899-0440	09-8784-8920
4		Mar	7	138.2	11.72	0.3254			15-8880-5349	18-5703-0746
5		Apr	11	182.3	55.88	1.343	(+)		19-4475-1025	00-2732-4149
6		May	11	200	73.53	1.683	(+)		04-3686-1214	17-7144-4708
7		Jun	13	117.6	-8.915	-0.2683			02-1194-6933	14-6655-2671
8		Jul	11	117.6	-8.915	-0.2683			18-9490-6426	20-8229-8763
9		Aug	12	104.7	-21.74	-0.6924			16-1269-6384	20-8498-8487
10		Sep	14	91.17	-35.3	-1.201	(-)		21-3997-4244	00-3631-7496
11		Oct	10	93.3	-33.17	-1.117	(-)		01-3925-6404	03-9134-1193
12		Nov	14	182.3	55.88	1.343	(+)		09-0829-7750	07-1545-0995
13		Dec	12	138.2	11.72	0.3254			02-0643-2090	02-3247-9401
14	2023	Jan	12	83.12	-43.35	-1.541	(-)		10-5717-9012	06-2162-7195
15		Feb	13	79.37	-47.1	-1.71	(-)		19-2977-9552	20-0081-1333
16		Mar	13	114.9	-11.6	-0.3532			14-1992-9075	20-3196-8530
17		Apr	14	148.1	21.64	0.5799			00-0643-4903	11-5830-8594
18		May	15	114.9	-11.6	-0.3532			06-5181-9947	15-0207-5859
19		Jun	13	151.6	25.1	0.6647			16-7900-9504	12-9379-3365
20		Jul	14	194.7	68.27	1.585	(+)		19-5463-0764	04-3793-4724
21		Aug	16	166.2	39.78	1.004	(+)		09-9289-7634	17-7520-8601

CETIS Summary Report

Fish 96-h Acute Survival Test — **Rainier Environmental Laboratory**

Batch ID:	10-3512-0978	**Test Type:**	Survival (96h)	**Analyst:**	Eric Tollefson
Start Date:	16 Aug-23 13:30	**Protocol:**	Not Applicable	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	20 Aug-23 13:30	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**	Trout Lodge Fish Farm	**Age:**	55d
Sample ID:	09-7638-9830	**Code:**	RA081623OM	**Client:**	Internal Lab
Sample Date:	16 Aug-23	**Material:**	Copper sulfate	**Project:**	
Receive Date:	16 Aug-23	**Source:**	Reference Toxicant		
Sample Age:	14h	**Station:**	In House		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
19-5429-9781	96h Survival Rate	50	100	70.71	16.9%		Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	µg/L	95% LCL	95% UCL	TU	Method
17-7520-8601	96h Survival Rate	LC50	166.2	141.5	195.3		Spearman-Kärber

96h Survival Rate Summary

C-µg/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	3	1	1	1	1	1	0	0	0.0%	0.0%
25		3	1	1	1	1	1	0	0	0.0%	0.0%
50		3	1	1	1	1	1	0	0	0.0%	0.0%
100		3	0.8	0.7627	0.8373	0.7	0.9	0.05774	0.1	12.5%	20.0%
200		3	0.4333	0.3394	0.5273	0.2	0.7	0.1453	0.2517	58.08%	56.67%
400		3	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	1	1	1
25		1	1	1
50		1	1	1
100		0.9	0.7	0.8
200		0.4	0.7	0.2
400		0	0	0

96h Survival Rate Binomials

C-µg/L	Control Type	Rep 1	Rep 2	Rep 3
0	Dilution Water	10/10	10/10	10/10
25		10/10	10/10	10/10
50		10/10	10/10	10/10
100		9/10	7/10	8/10
200		4/10	7/10	2/10
400		0/10	0/10	0/10

Appendix C
Chain-of-Custody Form

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 08-254

Laboratory: Rainier Environmental

Attention: Eric Tollefson

Address: 5013 Pacific Highway E, Suite 20, Fife, WA 98424

Phone Number: (253) 922-8898

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: 1 Week

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: Star Forge Waste Designation

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	NT-piping-soil-2	8/23/23	8:25	Soil	1	Fish Bioassay (Dangerous Waste 80-12 Test)

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: Nichelle Griffin	OSE	8/29/23	1500	T23-282
Received by: Eric Tollefson	RAINIER	8/30/23	1400	
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Day
- ☒ 3 Day
- ☐ Standard (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ _____ (other)

Project Manager:

Laboratory No. 08-254

Company: DH Environmental

Project No.:

Project Name: Star Forge Waste Designation

Project Manager: D. Hill

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8) +Cu, Ni, Zn	Priority Pollutant Metals (13)	TCLP ~~Metals~~ Lead	VPH	EPH	Fish Bioassay				% Moisture
1	NT-piping-soil-1	8/23/23	0815	soil	4				X			X	X			X		⊗			⊗				6
2	NT-piping-soil-2	↓	0825	↓	↓				↓			↓	↓			↓									1
3	NT-piping-soil-3		0835																						

RELINQUISHED BY	DATE	RECEIVED BY	DATE
DHE	8/23/23	COSE	8/23/23
FIRM	TIME	FIRM	TIME
DHE	1110	COSE	1110
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
⊗ Added 8/29/23 NB (1 week) Fish (1 Day) TCLP

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 17, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge UST Site Assessment
Laboratory Reference No. 2310-177

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on October 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

Case Narrative

Samples were collected on October 13, 2023 and received by the laboratory on October 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The percent recovery for Chloroethane, 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene is outside the control limits in the Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Gasoline Range Organics	**220**	7.8	NWTPH-Gx	10-16-23	10-16-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Gasoline	**ND**	4.8	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Gasoline	**ND**	4.0	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				

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Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Gasoline	**ND**	5.0	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-177-03										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*93*	*90*	*65-126*			

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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
Gasoline	**ND**	100	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-122*				

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GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
Gasoline	**ND**	100	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*74*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-160-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*75*	*73*	*65-122*			

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Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Diesel Fuel #2	**3400**	140	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**860**	290	NWTPH-Dx	10-16-23	10-16-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*129*	*50-150*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Diesel Range Organics	**120**	28	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**260**	56	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Diesel Range Organics	**ND**	28	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**190**	55	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				

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Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-177-01										
	ORIG	DUP									
Diesel Fuel #2	**2970**	**2830**	NA	NA		NA		NA	5	40	
Lube Oil	**759**	**801**	NA	NA		NA		NA	5	40	
Surrogate:											
o-Terphenyl						*129*	*121*	*50-150*			

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VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Dichlorodifluoromethane	ND	0.048	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.048	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.18	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.18	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Toluene	0.40	0.18	EPA 8260D	10-16-23	10-16-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
(trans) 1,3-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	0.46	0.037	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	2.1	0.073	EPA 8260D	10-16-23	10-16-23	
o-Xylene	0.87	0.037	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.18	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-130*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

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VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.0011	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0041	EPA 8260D	10-16-23	10-16-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0016	EPA 8260D	10-16-23	10-16-23	
o-Xylene	0.0012	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.25	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*90*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Dichlorodifluoromethane	ND	0.00096	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.00096	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0037	EPA 8260D	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0015	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.0013	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0050	EPA 8260D	10-16-23	10-16-23	

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Project: Star Forge UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0020	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Project: Star Forge UST Site Assessment

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QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0382**	**0.0378**	0.0500	0.0500	76	76	30-160	1	26	
Chloromethane	**0.0437**	**0.0437**	0.0500	0.0500	87	87	59-131	0	26	
Vinyl Chloride	**0.0387**	**0.0382**	0.0500	0.0500	77	76	68-136	1	23	
Bromomethane	**0.0439**	**0.0437**	0.0500	0.0500	88	87	48-155	0	32	
Chloroethane	**0.0471**	**0.0468**	0.0500	0.0500	94	94	67-141	1	16	
Trichlorofluoromethane	**0.0490**	**0.0484**	0.0500	0.0500	98	97	76-127	1	19	
1,1-Dichloroethene	**0.0469**	**0.0478**	0.0500	0.0500	94	96	75-129	2	19	
Iodomethane	**0.0454**	**0.0433**	0.0500	0.0500	91	87	37-140	5	27	
Methylene Chloride	**0.0470**	**0.0482**	0.0500	0.0500	94	96	60-124	3	18	
(trans) 1,2-Dichloroethene	**0.0475**	**0.0481**	0.0500	0.0500	95	96	79-133	1	15	
Methyl t-Butyl Ether	**0.0520**	**0.0531**	0.0500	0.0500	104	106	73-125	2	17	
1,1-Dichloroethane	**0.0472**	**0.0473**	0.0500	0.0500	94	95	79-125	0	17	
2,2-Dichloropropane	**0.0478**	**0.0492**	0.0500	0.0500	96	98	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0469**	**0.0473**	0.0500	0.0500	94	95	75-131	1	15	
Bromochloromethane	**0.0509**	**0.0521**	0.0500	0.0500	102	104	80-126	2	15	
Chloroform	**0.0474**	**0.0480**	0.0500	0.0500	95	96	80-123	1	15	
1,1,1-Trichloroethane	**0.0472**	**0.0478**	0.0500	0.0500	94	96	78-124	1	21	
Carbon Tetrachloride	**0.0480**	**0.0481**	0.0500	0.0500	96	96	74-127	0	18	
1,1-Dichloropropene	**0.0470**	**0.0480**	0.0500	0.0500	94	96	80-123	2	15	
Benzene	**0.0462**	**0.0459**	0.0500	0.0500	92	92	80-122	1	18	
1,2-Dichloroethane	**0.0502**	**0.0515**	0.0500	0.0500	100	103	75-124	3	15	
Trichloroethene	**0.0470**	**0.0473**	0.0500	0.0500	94	95	80-129	1	18	
1,2-Dichloropropane	**0.0481**	**0.0489**	0.0500	0.0500	96	98	80-123	2	15	
Dibromomethane	**0.0494**	**0.0512**	0.0500	0.0500	99	102	80-123	4	15	
Bromodichloromethane	**0.0495**	**0.0491**	0.0500	0.0500	99	98	80-129	1	15	
(cis) 1,3-Dichloropropene	**0.0515**	**0.0521**	0.0500	0.0500	103	104	80-130	1	15	
Toluene	**0.0441**	**0.0446**	0.0500	0.0500	88	89	80-120	1	18	
(trans) 1,3-Dichloropropene	**0.0561**	**0.0567**	0.0500	0.0500	112	113	80-124	1	15	

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QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0539**	**0.0576**	0.0500	0.0500	108	115	80-120	7	15	
Tetrachloroethene	**0.0515**	**0.0520**	0.0500	0.0500	103	104	77-126	1	15	
1,3-Dichloropropane	**0.0530**	**0.0554**	0.0500	0.0500	106	111	77-123	4	15	
Dibromochloromethane	**0.0549**	**0.0565**	0.0500	0.0500	110	113	80-128	3	16	
1,2-Dibromoethane	**0.0551**	**0.0570**	0.0500	0.0500	110	114	80-122	3	20	
Chlorobenzene	**0.0513**	**0.0523**	0.0500	0.0500	103	105	80-120	2	18	
1,1,1,2-Tetrachloroethane	**0.0521**	**0.0533**	0.0500	0.0500	104	107	80-120	2	15	
Ethylbenzene	**0.0504**	**0.0511**	0.0500	0.0500	101	102	80-120	1	15	
m,p-Xylene	**0.105**	**0.105**	0.100	0.100	105	105	80-120	0	15	
o-Xylene	**0.0519**	**0.0520**	0.0500	0.0500	104	104	80-120	0	15	
Bromoform	**0.0553**	**0.0584**	0.0500	0.0500	111	117	78-126	5	15	
Bromobenzene	**0.0525**	**0.0538**	0.0500	0.0500	105	108	79-124	2	15	
1,1,2,2-Tetrachloroethane	**0.0535**	**0.0563**	0.0500	0.0500	107	113	75-122	5	17	
1,2,3-Trichloropropane	**0.0560**	**0.0589**	0.0500	0.0500	112	118	72-125	5	20	
2-Chlorotoluene	**0.0525**	**0.0526**	0.0500	0.0500	105	105	75-128	0	15	
4-Chlorotoluene	**0.0556**	**0.0577**	0.0500	0.0500	111	115	78-127	4	16	
1,3-Dichlorobenzene	**0.0526**	**0.0538**	0.0500	0.0500	105	108	78-123	2	17	
1,4-Dichlorobenzene	**0.0547**	**0.0548**	0.0500	0.0500	109	110	77-121	0	17	
1,2-Dichlorobenzene	**0.0562**	**0.0569**	0.0500	0.0500	112	114	80-120	1	15	
1,2-Dibromo-3-chloropropane	**0.0569**	**0.0647**	0.0500	0.0500	114	129	61-137	13	28	
1,2,4-Trichlorobenzene	**0.0543**	**0.0530**	0.0500	0.0500	109	106	77-127	2	17	
Hexachlorobutadiene	**0.0456**	**0.0463**	0.0500	0.0500	91	93	77-125	2	22	
1,2,3-Trichlorobenzene	**0.0584**	**0.0593**	0.0500	0.0500	117	119	77-124	2	19	
Surrogate:										
Dibromofluoromethane					*98*	*97*	*75-130*			
Toluene-d8					*95*	*95*	*78-128*			
4-Bromofluorobenzene					*106*	*108*	*71-130*			

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Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	1.3	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	5.0	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*108*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	1.3	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	5.0	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	

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Laboratory Reference: 2310-177
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

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Date of Report: October 17, 2023
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**11.4**	**9.59**	10.0	10.0	114	96	34-166	17	21	
Chloromethane	**7.69**	**6.63**	10.0	10.0	77	66	63-138	15	18	
Vinyl Chloride	**9.12**	**8.03**	10.0	10.0	91	80	71-135	13	20	
Bromomethane	**11.4**	**10.1**	10.0	10.0	114	101	20-151	12	36	
Chloroethane	**8.59**	**7.29**	10.0	10.0	86	73	76-125	16	20	I
Trichlorofluoromethane	**10.3**	**9.42**	10.0	10.0	103	94	75-131	9	19	
1,1-Dichloroethene	**10.1**	**9.00**	10.0	10.0	101	90	78-125	12	19	
Iodomethane	**13.3**	**12.1**	10.0	10.0	133	121	10-155	9	40	
Methylene Chloride	**9.44**	**8.62**	10.0	10.0	94	86	80-120	9	15	
(trans) 1,2-Dichloroethene	**9.52**	**8.82**	10.0	10.0	95	88	80-125	8	17	
Methyl t-Butyl Ether	**10.1**	**9.23**	10.0	10.0	101	92	80-122	9	15	
1,1-Dichloroethane	**9.61**	**8.69**	10.0	10.0	96	87	80-125	10	17	
2,2-Dichloropropane	**11.5**	**10.9**	10.0	10.0	115	109	80-146	5	21	
(cis) 1,2-Dichloroethene	**10.0**	**9.32**	10.0	10.0	100	93	80-129	7	17	
Bromochloromethane	**9.81**	**9.31**	10.0	10.0	98	93	80-125	5	18	
Chloroform	**9.93**	**9.12**	10.0	10.0	99	91	80-123	9	16	
1,1,1-Trichloroethane	**10.1**	**9.13**	10.0	10.0	101	91	80-123	10	18	
Carbon Tetrachloride	**10.4**	**9.59**	10.0	10.0	104	96	80-126	8	17	
1,1-Dichloropropene	**10.0**	**9.31**	10.0	10.0	100	93	80-126	7	18	
Benzene	**9.37**	**8.53**	10.0	10.0	94	85	80-121	9	16	
1,2-Dichloroethane	**11.1**	**10.3**	10.0	10.0	111	103	80-124	7	15	
Trichloroethene	**10.5**	**9.54**	10.0	10.0	105	95	80-122	10	18	
1,2-Dichloropropane	**9.46**	**8.85**	10.0	10.0	95	89	80-123	7	15	
Dibromomethane	**10.4**	**9.64**	10.0	10.0	104	96	80-123	8	15	
Bromodichloromethane	**10.8**	**9.70**	10.0	10.0	108	97	80-125	11	15	
(cis) 1,3-Dichloropropene	**10.6**	**9.81**	10.0	10.0	106	98	80-129	8	15	
Toluene	**9.63**	**9.18**	10.0	10.0	96	92	80-120	5	18	
(trans) 1,3-Dichloropropene	**11.9**	**11.1**	10.0	10.0	119	111	80-134	7	17	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

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QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.97**	**9.87**	10.0	10.0	100	99	77-126	1	20	
Tetrachloroethene	**11.5**	**11.0**	10.0	10.0	115	110	80-124	4	18	
1,3-Dichloropropane	**10.5**	**10.1**	10.0	10.0	105	101	80-120	4	15	
Dibromochloromethane	**11.5**	**10.6**	10.0	10.0	115	106	80-128	8	15	
1,2-Dibromoethane	**11.6**	**10.6**	10.0	10.0	116	106	80-127	9	15	
Chlorobenzene	**11.2**	**11.0**	10.0	10.0	112	110	80-120	2	17	
1,1,1,2-Tetrachloroethane	**11.2**	**10.9**	10.0	10.0	112	109	80-125	3	17	
Ethylbenzene	**11.0**	**10.6**	10.0	10.0	110	106	80-125	4	18	
m,p-Xylene	**22.3**	**21.7**	20.0	20.0	112	109	80-127	3	18	
o-Xylene	**10.9**	**10.7**	10.0	10.0	109	107	80-126	2	18	
Bromoform	**12.6**	**12.0**	10.0	10.0	126	120	80-130	5	15	
Bromobenzene	**11.1**	**10.5**	10.0	10.0	111	105	76-128	6	16	
1,1,2,2-Tetrachloroethane	**10.3**	**10.3**	10.0	10.0	103	103	74-130	0	15	
1,2,3-Trichloropropane	**9.95**	**9.79**	10.0	10.0	100	98	71-129	2	25	
2-Chlorotoluene	**11.2**	**11.4**	10.0	10.0	112	114	80-128	2	18	
4-Chlorotoluene	**11.4**	**11.2**	10.0	10.0	114	112	80-130	2	19	
1,3-Dichlorobenzene	**11.6**	**11.4**	10.0	10.0	116	114	80-126	2	17	
1,4-Dichlorobenzene	**11.3**	**11.3**	10.0	10.0	113	113	80-121	0	17	
1,2-Dichlorobenzene	**11.4**	**11.3**	10.0	10.0	114	113	79-125	1	15	
1,2-Dibromo-3-chloropropane	**11.7**	**11.4**	10.0	10.0	117	114	73-133	3	15	
1,2,4-Trichlorobenzene	**13.6**	**14.5**	10.0	10.0	136	145	80-139	6	18	I
Hexachlorobutadiene	**12.8**	**13.1**	10.0	10.0	128	131	80-151	2	18	
1,2,3-Trichlorobenzene	**13.9**	**15.1**	10.0	10.0	139	151	75-146	8	28	I
Surrogate:										
Dibromofluoromethane					*104*	*102*	*75-127*			
Toluene-d8					*111*	*109*	*80-127*			
4-Bromofluorobenzene					*100*	*103*	*78-125*			

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Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Naphthalene	**2.1**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**6.6**	0.15	EPA 8270E/SIM	10-16-23	10-17-23	
1-Methylnaphthalene	**4.6**	0.15	EPA 8270E/SIM	10-16-23	10-17-23	
Benzo[a]anthracene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.071**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.045**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.034**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*39-111*				
Pyrene-d10	*97*	*47-114*				
Terphenyl-d14	*76*	*44-121*				

Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Naphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**0.11**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.13**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.18**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**0.056**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.13**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**0.16**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**0.031**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*39-111*				
Pyrene-d10	*91*	*47-114*				
Terphenyl-d14	*93*	*44-121*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Naphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**0.57**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.59**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.68**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**0.23**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.63**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**0.37**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**0.088**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39-111*				
Pyrene-d10	*87*	*47-114*				
Terphenyl-d14	*92*	*44-121*				

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Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*39-111*				
Pyrene-d10	*87*	*47-114*				
Terphenyl-d14	*92*	*44-121*				

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PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0700**	**0.0664**	0.0833	0.0833	84	80	57-116	5	16	
Acenaphthylene	**0.0796**	**0.0743**	0.0833	0.0833	96	89	59-124	7	15	
Acenaphthene	**0.0749**	**0.0709**	0.0833	0.0833	90	85	59-124	5	15	
Fluorene	**0.0739**	**0.0752**	0.0833	0.0833	89	90	62-122	2	15	
Phenanthrene	**0.0685**	**0.0776**	0.0833	0.0833	82	93	62-119	12	15	
Anthracene	**0.0749**	**0.0863**	0.0833	0.0833	90	104	64-123	14	15	
Fluoranthene	**0.0757**	**0.0820**	0.0833	0.0833	91	98	63-123	8	15	
Pyrene	**0.0772**	**0.0822**	0.0833	0.0833	93	99	62-124	6	15	
Benzo[a]anthracene	**0.0756**	**0.0754**	0.0833	0.0833	91	91	59-131	0	15	
Chrysene	**0.0784**	**0.0790**	0.0833	0.0833	94	95	61-124	1	15	
Benzo[b]fluoranthene	**0.0783**	**0.0764**	0.0833	0.0833	94	92	60-126	2	15	
Benzo(j,k)fluoranthene	**0.0827**	**0.0847**	0.0833	0.0833	99	102	63-121	2	17	
Benzo[a]pyrene	**0.0783**	**0.0785**	0.0833	0.0833	94	94	60-122	0	15	
Indeno(1,2,3-c,d)pyrene	**0.0760**	**0.0777**	0.0833	0.0833	91	93	58-127	2	15	
Dibenz[a,h]anthracene	**0.0833**	**0.0849**	0.0833	0.0833	100	102	60-124	2	15	
Benzo[g,h,i]perylene	**0.0808**	**0.0817**	0.0833	0.0833	97	98	58-124	1	15	
Surrogate:										
2-Fluorobiphenyl					*80*	*76*	*39-111*			
Pyrene-d10					*83*	*88*	*47-114*			
Terphenyl-d14					*92*	*92*	*44-121*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Aroclor 1016	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*50-127*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Aroclor 1016	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Aroclor 1016	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*50-127*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1016S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.428**	**0.432**	0.500	0.500	N/A	**86**	**86**	55-119	1	34	
Surrogate:											
DCB						*92*	*91*	*50-127*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Arsenic	**31**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**82**	2.8	EPA 6010D	10-13-23	10-13-23	
Cadmium	**0.85**	0.57	EPA 6010D	10-13-23	10-13-23	
Chromium	**25**	0.57	EPA 6010D	10-13-23	10-13-23	
Copper	**67**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**49**	5.7	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.28	EPA 7471B	10-16-23	10-16-23	
Nickel	**94**	2.8	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**280**	2.8	EPA 6010D	10-13-23	10-13-23	
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Arsenic	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**41**	2.8	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.55	EPA 6010D	10-13-23	10-13-23	
Chromium	**55**	0.55	EPA 6010D	10-13-23	10-13-23	
Copper	**56**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**18**	5.5	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.28	EPA 7471B	10-16-23	10-16-23	
Nickel	**64**	2.8	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**44**	2.8	EPA 6010D	10-13-23	10-13-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Arsenic	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**33**	2.7	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.55	EPA 6010D	10-13-23	10-13-23	
Chromium	**20**	0.55	EPA 6010D	10-13-23	10-13-23	
Copper	**30**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**18**	5.5	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.27	EPA 7471B	10-16-23	10-16-23	
Nickel	**58**	2.7	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**43**	2.7	EPA 6010D	10-13-23	10-13-23	

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013SM1					
Arsenic	**ND**	10	EPA 6010D	10-13-23	10-13-23	
Barium	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.50	EPA 6010D	10-13-23	10-13-23	
Chromium	**ND**	0.50	EPA 6010D	10-13-23	10-13-23	
Copper	**ND**	1.0	EPA 6010D	10-13-23	10-13-23	
Lead	**ND**	5.0	EPA 6010D	10-13-23	10-13-23	
Nickel	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	10	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.0	EPA 6010D	10-13-23	10-13-23	
Zinc	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Laboratory ID:	MB1016S1					
Mercury	**ND**	0.25	EPA 7471B	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-091-04										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**18.0**	**17.5**	NA	NA		NA		NA	3	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**9.65**	**9.10**	NA	NA		NA		NA	6	20	
Copper	**16.6**	**17.8**	NA	NA		NA		NA	7	20	
Lead	**24.5**	**27.9**	NA	NA		NA		NA	13	20	
Nickel	**7.25**	**7.35**	NA	NA		NA		NA	1	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**43.8**	**42.7**	NA	NA		NA		NA	3	20	
Laboratory ID:	10-089-02										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	10-091-04										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**102**	**101**	100	100	ND	**102**	**101**	75-125	1	20	
Barium	**116**	**115**	100	100	18.0	**98**	**97**	75-125	1	20	
Cadmium	**47.3**	**46.4**	50.0	50.0	ND	**95**	**93**	75-125	2	20	
Chromium	**109**	**107**	100	100	9.65	**100**	**97**	75-125	2	20	
Copper	**67.1**	**65.7**	50.0	50.0	16.6	**101**	**98**	75-125	2	20	
Lead	**282**	**275**	250	250	24.5	**103**	**100**	75-125	2	20	
Nickel	**108**	**105**	100	100	7.25	**101**	**98**	75-125	2	20	
Selenium	**94.0**	**93.1**	100	100	ND	**94**	**93**	75-125	1	20	
Silver	**24.6**	**24.0**	25.0	25.0	ND	**98**	**96**	75-125	2	20	
Zinc	**139**	**139**	100	100	43.8	**95**	**95**	75-125	0	20	
Laboratory ID:	10-089-02										
Mercury	**0.509**	**0.527**	0.500	0.500	0.0446	**93**	**97**	80-120	3	20	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
ST-piping-SS-20-6.5	10-177-01	**12**	10-13-23
ST-piping-SS-21-2.0	10-177-02	**10**	10-13-23
ST-piping-SS-22-2.0	10-177-03	**9**	10-13-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ Fastest Available (other)

Laboratory Number: 10-177

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 *See 1,2,1	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	ST-piping-SS-20-6.5	10/13/23	0920	S.1	5			X	X	X				X	X				X								40
2	ST-piping-SS-21-2.0	↓	0930	↓	↓			↓	↓	↓				↓	↓				↓								1
3	ST-piping-SS-22-2.0	↓	0940	↓	↓			↓	↓	↓				↓	↓				↓								
4	trip blank			W	3			X		X																	

	Signature	Company	Date	Time
Relinquished		DHE	10/13/23	1100
Received		OHE	10-13-23	1100
Relinquished		OHE	10-13-23	1305
Received		OHE	10/13/23	1305
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Please report to lowest possible limits, but note potentially elevated petroleum concentrations

* EDB, EDC, MTBE, BTEX, HVOCs

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Detail Contract Activity Report

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

August 01, 2023 to October 24, 2023
Specific Contract(s) : 'TB11606b'

All Facilities

TB11606B

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Contract Rate		Billing Quantity		Ordered Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total
08/14/2023 I	3A 5329271	015590 - Construction Group Internal	7331	Cont Soil	0.00	S	29.52	TN						
08/14/2023 I	3A 5329272	015590 - Construction Group Internal	5227	Cont Soil	0.00	S	34.75	TN						
08/14/2023 I	3A 5329281	015590 - Construction Group Internal	3516	Cont Soil	0.00	S	31.54	TN						
08/14/2023 I	3A 5329292	015590 - Construction Group Internal	3516	Cont Soil	0.00	S	28.76	TN						
08/14/2023 I	3A 5329296	015590 - Construction Group Interna	7331	Cont Soil	0.00	S	30.56	TN						
08/15/2023 I	3A 5329304	015590 - Construction Group Interna	2234	Cont Soil	0.00	S	30.60	TN						
08/15/2023 I	3A 5329310	015590 - Construction Group Interna	2234	Cont Soil	0.00	S	30.86	TN						
08/15/2023 I	3A 5329343	015590 - Construction Group Interna	0332	Cont Soil	0.00	S	23.02	TN						
08/22/2023 I	3A 5329493	015590 - Construction Group Interna	3516	Cont Soil	0.00	S	22.49	TN						
08/23/2023 I	3A 5329573	015590 - Construction Group Interna	5227	Cont Soil	0.00	S	20.35	TN						
08/23/2023 I	3A 5329577	015590 - Construction Group Interna	0331	Cont Soil	0.00	S	21.72	TN						
08/24/2023 I	3A 5329589	015590 - Construction Group Interna	5227	Cont Soil	0.00	S	23.19	TN						
08/25/2023 I	3A 5329593	015590 - Construction Group Interna	5227	Cont Soil	0.00	S	26.79	TN						
08/26/2023 I	3A 5329685	015590 - Construction Group Interna	5227	Cont Soil	0.00	S	24.10	TN						
08/26/2023 I	3A 5329688	015590 - Construction Group Interna	5833	Cont Soil	0.00	S	23.38	TN						
08/26/2023 I	3A 5329695	015590 - Construction Group Interna	7329	Cont Soil	0.00	S	26.68	TN						
08/31/2023 I	3A 5329813	015590 - Construction Group Interna	WSB	Trucking	160.00	F	13.50	HR						
08/31/2023 I	3A 5329866	015590 - Construction Group Interna	WSB	Trucking	160.00	F	8.00	HR						
10/20/2023 I	3A 5331130	015590 - Construction Group Interna	2234	Cont Soil	0.00	S	19.51	TN						
10/24/2023 I	3A 5331165	015590 - Construction Group Interna	7748	Cont Soil	0.00	S	16.04	TN						
10/24/2023 I	3A 5331176	015590 - Construction Group Interna	3517	Cont Soil	0.00	S	14.51	TN						
10/24/2023 I	3A 5331181	015590 - Construction Group Interna	7748	Cont Soil	0.00	S	21.14	TN						
10/24/2023 I	3A 5331184	015590 - Construction Group Interna	3517	Cont Soil	0.00	S	17.86	TN						
10/24/2023 I	3A 5331192	015590 - Construction Group Interna	7748	Cont Soil	0.00	S	19.80	TN						

Tickets Reported: 24 Items Reported: 24

Material Summary	Weight Inbound	Weight Outbound		Volume Inbound	Volume Outbound		Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
66 - Cont Soil	537.17	0.00	TN	587.15	0.00	YD	0.00	0.00	537.17 TN			
TR - Trucking	0.00	0.00	TN	0.00	0.00	YD	21.50	0.00	21.50 HR			

				Cash Totals:
				Invoice Totals:
Tickets Reported:	24	Items Reported:	24	Report Totals:

Detail Contract Activity Report

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

August 01, 2023 to August 23, 2023
Specific Contract(s) : 'tb-11606'

All Facilities

TB-11606

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Contract Rate	Billing Quantity	Ordered Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total
08/11/2023 I	01 1016015	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		21.63 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016017	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		21.07 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016022	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		14.74 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016024	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		18.36 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016028	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		17.66 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016030	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		15.64 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016032	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		15.36 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016033	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.72 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016036	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		17.72 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016038	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.18 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016043	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		17.82 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016044	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		17.24 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016047	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		14.30 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016048	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		11.36 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016052	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		15.61 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016053	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		15.08 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016058	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		17.12 TN	0.00	$0.00	$0.00			
08/11/2023 I	01 1016059	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.42 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016077	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		14.45 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016078	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		15.60 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016079	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		14.01 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016081	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.14 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016082	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		14.38 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016085	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		15.96 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016087	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		15.61 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016088	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		15.92 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016093	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		15.79 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016094	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.37 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016095	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		15.47 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016100	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		16.41 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016101	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		14.30 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016102	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		20.41 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016108	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		16.09 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016111	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		16.18 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016112	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		17.69 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016117	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL		16.41 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016119	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL		15.51 TN	0.00	$0.00	$0.00			
08/14/2023 I	01 1016120	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL		16.10 TN	0.00	$0.00	$0.00			

08/14/2023	I	01	1016121	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.26	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016123	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.07	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016125	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	16.14	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016130	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.60	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016131	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	15.26	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016132	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	18.35	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016137	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.94	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016138	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	13.39	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016141	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	18.58	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016142	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	16.05	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016146	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	14.90	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016147	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.05	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016150	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.28	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016153	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	13.15	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016155	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	16.76	TN	0.00	$0.00	$0.00
08/14/2023	I	01	1016157	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.05	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016163	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.05	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016164	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	12.90	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016165	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.43	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016167	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.62	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016168	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	14.54	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016169	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.47	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016170	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.04	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016171	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	14.39	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016172	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.17	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016174	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	12.70	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016178	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	10.83	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016179	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	12.70	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016180	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	11.78	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016183	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	13.00	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016184	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	13.61	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016185	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.77	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016190	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	15.91	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016191	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.92	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016192	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.10	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016197	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	13.37	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016198	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.11	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016199	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	13.86	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016205	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	14.66	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016206	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.02	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016207	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.32	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016209	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	15.19	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016210	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	14.94	TN	0.00	$0.00	$0.00

08/15/2023	I	01	1016211	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.47	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016216	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.63	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016217	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.11	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016218	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.15	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016219	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.30	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016220	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.83	TN	0.00	$0.00	$0.00
08/15/2023	I	01	1016221	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	13.63	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016226	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.17	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016227	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.21	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016229	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.17	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016230	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.12	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016231	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.48	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016232	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.52	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016233	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.66	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016234	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	11.79	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016238	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.26	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016240	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.25	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016242	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.64	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016245	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.76	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016246	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	16.93	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016247	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.83	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016254	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.75	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016255	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.58	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016257	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.43	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016261	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.75	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016263	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	18.65	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016265	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	16.29	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016271	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	13.96	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016272	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.48	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016274	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.55	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016280	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.68	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016281	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.32	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016282	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.84	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016283	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	17.23	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016284	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	16.58	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016285	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	17.33	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016291	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.53	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016292	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	13.83	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016293	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.57	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016296	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	17.48	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016297	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	16.91	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016298	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	17.52	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016300	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.63	TN	0.00	$0.00	$0.00

08/16/2023	I	01	1016301	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.52	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016303	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	17.15	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016304	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	16.64	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016305	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.85	TN	0.00	$0.00	$0.00
08/16/2023	I	01	1016306	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	16.25	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016309	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	17.03	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016310	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	16.18	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016311	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.79	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016312	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	15.39	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016313	015590 - Construction Group Internal	1 WA UNDI	SW-CONT SOIL	16.13	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016314	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	15.77	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016315	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	16.29	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016316	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	15.27	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016317	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.88	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016318	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	16.03	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016321	015590 - Construction Group Internal	1 WA UNDI	SW-CONT SOIL	14.74	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016322	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	16.96	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016323	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	16.49	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016324	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.74	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016325	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.93	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016326	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	9.94	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016328	015590 - Construction Group Internal	1 WA UNDI	SW-CONT SOIL	12.80	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016329	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	12.35	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016330	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.52	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016331	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	12.73	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016332	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.10	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016336	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	12.39	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016338	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	13.18	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016340	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.42	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016342	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.19	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016343	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	10.82	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016346	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.53	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016347	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	13.85	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016348	015590 - Construction Group Internal	101 WA UN	SW-CONT SOIL	14.31	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016349	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.29	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016350	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.24	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016351	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	14.67	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016353	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.62	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016357	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	12.24	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016358	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.06	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016359	015590 - Construction Group Internal	101 WA UN	SW-CONT SOIL	11.20	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016360	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	11.82	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016361	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.48	TN	0.00	$0.00	$0.00

08/17/2023	I	01	1016362	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.19	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016363	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	13.22	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016364	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.86	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016365	015590 - Construction Group Internal	101 WA UN	SW-CONT SOIL	12.54	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016367	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	11.59	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016369	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	12.01	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016372	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.08	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016373	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	13.25	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016374	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.98	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016375	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	14.20	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016376	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	13.59	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016377	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.22	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016379	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	15.61	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016380	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	15.03	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016381	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	10.91	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016382	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.71	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016384	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.77	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016385	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	13.97	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016386	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	10.99	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016387	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.48	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016388	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	13.61	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016389	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.09	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016390	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	13.07	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016391	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	17.79	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016392	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.66	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016393	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.04	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016394	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	13.28	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016395	015590 - Construction Group Internal	101 WA UN	SW-CONT SOIL	14.29	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016396	015590 - Construction Group Internal	1 ABOVE G	SW-CONT SOIL	15.28	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016397	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	14.36	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016398	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.76	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016399	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	13.58	TN	0.00	$0.00	$0.00
08/17/2023	I	01	1016400	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.83	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016424	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.80	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016425	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.33	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016426	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	13.43	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016427	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	12.32	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016428	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.87	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016429	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	11.53	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016430	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	11.94	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016431	015590 - Construction Group Internal	T-2 TONGU	SW-CONT SOIL	10.54	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016433	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.83	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016434	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	11.59	TN	0.00	$0.00	$0.00

08/21/2023	I	01	1016435	015590 - Construction Group Internal	5 H.E.I.	SW-CONT SOIL	14.07	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016436	015590 - Construction Group Internal	T2 TONGU	SW-CONT SOIL	13.16	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016438	015590 - Construction Group Internal	1 LR TRUC	SW-CONT SOIL	11.13	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016439	015590 - Construction Group Internal	19 PNW GF	SW-CONT SOIL	10.75	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016440	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.26	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016441	015590 - Construction Group Interna	T2 TONGU	SW-CONT SOIL	11.37	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016443	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	10.03	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016444	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	9.39	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016445	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	9.73	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016447	015590 - Construction Group Interna	T2 TONGU	SW-CONT SOIL	8.76	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016448	015590 - Construction Group Interna	1 LR TRUC	SW-CONT SOIL	8.12	TN	0.00	$0.00	$0.00
08/21/2023	I	01	1016449	015590 - Construction Group Interna	19 PNW GF	SW-CONT SOIL	7.80	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016482	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	15.96	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016483	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	13.20	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016484	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	13.07	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016485	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	11.64	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016488	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	11.22	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016489	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	8.01	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016490	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	12.72	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016491	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	10.12	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016494	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	17.56	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016495	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	12.19	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016497	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.68	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016498	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	11.40	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016500	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	18.29	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016501	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	13.03	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016503	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	20.25	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016504	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	13.80	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016506	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	21.12	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016508	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	17.06	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016509	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	14.93	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016511	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	15.59	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016513	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	13.14	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016514	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	13.29	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016516	015590 - Construction Group Interna	5 H.E.I.	SW-CONT SOIL	12.19	TN	0.00	$0.00	$0.00
08/23/2023	I	01	1016517	015590 - Construction Group Interna	T3 TONGU	SW-CONT SOIL	14.73	TN	0.00	$0.00	$0.00

Tickets Reported: 246 Items Reported: 246

Detail Contract Activity Report

All Ticket Types
History and Waiting
* - Confirmed Qty Applied to Billing

August 01, 2023 to August 23, 2023
Specific Contract(s) : 'tb-11606'

All Facilities

Material Summary	Weight Inbound	Weight Outbound		Volume Inbound	Volume Outbound		Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
VG - SW-CONT SOIL	3,545.42	0.00	TN	0.00	0.00	YD	0.00	0.00	3,545.42 TN			

Cash Totals:
Invoice Totals:
Report Totals:

Tickets Reported: 246 Items Reported: 246

DANGEROUS WASTE DESIGNATION FORM

Former Jorgensen Forge Site, UST Piping Utilidor Water

A. WASTE STREAM NAME AND GENERATION INFORMATION

Waste Stream Name: Water

Generation Process: Pump out of UST Piping Utilidor

RCRA ID Number that waste will be managed under:	**Total Quantity and/or Estimated Generation rate:**
NA	~ 275 gallons
Other Descriptions (i.e. Shop, Project, Etc.):	

B. WASTE PROPERTIES, CHARACTERISTICS, and CONSTITUENTS:

Physical State:
- ☐Solid (pass paint filter)
- ☐Solid w/freestanding or absorbed liquid
- ☒Liquid (If liquid, indicate if the liquid is:
  - ☒Single Layer
  - ☐Multi-layer

pH:
- ☐< 2 **[D002]**
- ☒> 2 but < 12.5
- ☐N/A
- ☐> 12.5 **[D002]**

Flashpoint:
- ☐< 140 °F **[D001]**
- ☐> 140 °F but < 200 °F
- ☒N/A
- ☐> 200 °F

Characteristic	**PCB Content**	**TCLP Metals**
☐Ignitable **[D001]** ☐Corrosive **[D002]** ☐Reactive **[D003]** ☐Toxic **[D004 – D043]** **List Here:**	☒Not Detected **[non TSCA or State Regulated]** ☐Not Sampled ☐≥ 2 ppm and < 50 ppm **[Potentially TSCA Regulated or State Regulated PCB Waste-WPCB]** ☐≥ 50 ppm **[TSCA Regulated]** ☐< 1 ppm Note: **IF WASTE STREAM IS BEING MANAGED AS TSCA WASTE, DO NOT USE WPCB STATE CODE PER WAC 173-303-071(3)(k)**	☐Arsenic ≥ 5.0 mg/L **[D004]** ☐Barium ≥ 100.0 mg/L **[D005]** ☐Cadmium ≥ 1.0 mg/L **[D006]** ☐Chromium ≥ 5.0 mg/L **[D007]** ☐Lead ≥ 5.0 mg/L **[D008]** ☐Mercury ≥ 0.2 mg/L **[D009]** ☐Selenium ≥ 1.0 mg/L **[D010]** ☐Silver ≥ 5.0 mg/L **[D011]** Check if: ☐Assumed ☐TCLP Conducted ☒TCLP Not Conducted **Comments:**

Total Metals ☐mg/kg ☐ug/kg ☐mg/L ☒ug/L

Arsenic:		☒ND
Barium:	170	☐ND
Cadmium:		☒ND
Chromium:	60	☐ND
Copper:	240	☐ND
Lead:	220	☐ND
Mercury:		☒ND
Nickel:	110	☐ND
Selenium:		☒ND
Silver:		☒ND
Zinc:	730	☐ND

Comments:

Physical Composition (list all constituents, including debris, any absorbents, liquid range, etc.).

Constituent	**Volume (Range %)**
water	90-100
Oils, sludge, debris	0 - 10

C. LISTED WASTE

☐ **Discarded Listed Chemical Product (U or P List):**
☐ **Listed Source Waste (F or K List):**
☒ **Not Applicable:**

D. WA STATE CRITERIA WASTE

☐**Not applicable per WAC 173-303-070(5): Further designation will not change the generator status or change the way the waste must be managed.**

WA Toxic Criteria Equivalent Concentration (E.C):		WA Persistent Criteria Total HOC		WA Persistent Criteria Total PAH	
☒ **< 0.001 %**	**[not a Toxic Criteria DW]**	☒ **< 0.01 %**	**[NOT APPLICABLE]**	☒ **< 1.0%**	**[NOT APPLICABLE]**
☐ **0.001 ≥ 1.0 %**	**[WT02 – DW]**	☐ **0.01 to 1.0%**	**[WP02 – DW]**	☐ **> 1.0%**	**[WP03 – EHW]**
☐ **≥ 1.0%**	**[WT01 – EHW]**	☐ **> 1.0 %**	**[WP01 – EHW]**		

DW: Dangerous Waste EHW: Extremely Hazardous Waste HOC: Halogenated Organic Compounds PAH: Polycyclic Aromatic Hydrocarbons

E. ADDITIONAL INFORMATION (Describe any additional information about the waste (e.g. process knowledge statement, regulatory exemptions, assumptions made, etc.)

Analysis has identified trace constituents listed in 40 CFR 261.31, *Wastes from Non-Specific Sources*. However, the original processes generating any of the trace constituents in question are unknown and therefore RCRA F Series is not applicable. This designation is consistent with USEPA interpretation of unknown F-Listed trace constituents: "*Where a facility owner/operator makes a good faith effort to determine if a material is a listed hazardous waste but cannot make such a determination because documentation regarding a source of contamination, contaminant, or waste is unavailable or inconclusive, EPA has stated that one may assume the source, contaminant or waste is not listed hazardous waste.*" - Management of Remediation Waste Under RCRA, EPA530-F-98-026

Analysis has also identified constituents potentially exhibiting toxicity characteristics. However, in accordance with 40 CFR 261.4 (b)(10), these compounds are not considered hazardous waste, because the impacted media was removed as part of a UST Corrective Action.

A Washington State toxic criteria book designation was conducted in accordance with WAC 173-303-100. The calculated equivalent concentration value was less than 0.001%, **this waste stream is therefore designated as non-dangerous waste.**

Attachments:
☐ **Field Report**
☐ **Sample Log**
☒ **Laboratory Data** (OnSite Environmental Lab Report 2310-156)
☒ **Dangerous Waste Toxic Equivalent Concentration Calculation**
☐ **Biological Testing Method 80-12 (Fish Bioassay)**
☐ **Other:**

F. WASTE DESIGNATION SUMMARY

☐ **RCRA Hazardous Waste**
USDOT Proper Shipping Name:
RCRA Waste Codes:

☐ **TSCA Regulated Waste**
TSCA Description:

☒ **Non-Hazardous Solid Waste/RCRA Exempt/RCRA Excluded**
Description: Non-hazardous waste, liquid

Designation Performed by: Nathan Moxley, LHG
Title: Senior Geologist Date: 10-16-2023

Designation Reviewed by: Dave Hill, PE, CHMM
Title: Principal Engineer Date: 10-16-2023

Book Designation: Jorgensen UST Piping Utilidor, Water Designation
Waste Stream: Water
Sample IDs: "UST Piping Utilidor"
Sample Date: 10/12/23
Book Designation Performed by: N. Moxley

Conversions 1 ng/kg = 10^-10 % (mass %)
1 ug/kg = 10^-7 %
1 mg/kg = 10^-4 %

Units Displayed as µg/L | Conversion Factor 0.0000001

Analyte	CAS	Concentration*	Toxicity[Source]	Toxic Category	Concentration (mass %) X	A	B	C	D
TOTAL METALS by 6010C/7471B									
Arsenic	7440-38-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) >170 - <15,610 ug/L/96hr [3]	**B**					
Barium	7440-39-3	170	LC50 Lepomis macrochirus (Bluegill) 198000 ug/L/96hr[3]	**NOT APPLICABLE**					
Cadmium	7440-43-9	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 0.003 mg/L/96 hr[3]	**X**					
Chromium	7440-47-3	60	LC50 Danio rerio (Zebra Danio) 3.9 mg/kg/24 hr[3]	**C**				**6.00E-06**	
Copper	7440-50-8	240	LC50 Pimephales promelas (fathead minnow) 0.02 mg/l/96 hr[3]	**A**		**2.40E-05**			
Lead	7439-92-1	220	LC50 Oncorhynchus mykiss (Rainbow Trout) 1000 ug/L/96 hr[3]	**C**				**2.20E-05**	
Manganese	7439-96-5	--	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.89 mg/kg[3]	**C**					
Mercury	7439-97-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 33 ug/L/96 hr[3]	**A**					
Nickel	7440-02-0	110	LC50 Oncorhynchus mykiss (Rainbow Trout) 15 mg/L 96 hr[3]	**C**					**1.10E-05**
Selenium	7782-49-2	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 11500 ug/L/96 hr[3]	**D**					
Silver	7440-22-4	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.2 ug/L/ 96hr[3]	**X**					
Zinc	7440-66-6	730	LC50 Oncorhynchus tshawytscha (Chinook Salmon) 0.182 mg/L/96 hr[3]	**B**			**7.30E-05**		
VOLATILES by EPA 8260C									
Dichlorodifluoromethane	75-71-8	ND	LD 50 Rat Inhalation >800,000 mg/L[2]	**NOT APPLICABLE**					
Chloromethane	74-87-3	ND	LD50 Oral Rat 1800 mg/kg[2]	**D**					
Vinyl Chloride	75-01-4	ND	LD50 Oral Rat 500 mg/kg[2]	**C**					
Bromomethane	74-83-9	ND	LD50 Oral Rat 214 mg/kg[2]	**C**					
Chloroethane	79-34-5	ND	LD50 Oral Rat 200 mg/kg[3]	**C**					
Trichlorofluoromethane	75-69-4	ND	LD50 Oral Rat 352 mg/kg[1]	**C**					
1,1-Dichloroethene	75-35-4	ND	LD50 Oral Rat 200 mg/kg[2]	**C**					
Acetone	67-64-1	51	LC Rat Inhalation 50.10 mg/kg[1]	**D**					**5.10E-06**
Iodomethane	74-88-4	ND	LD50 Oral Rat 76 mg/kg2	**C**					
Carbon Disulfide	75-15-0	ND	LD50 Oral Rat 1200 mg/kg[1]	**D**					
Methylene Chloride	75-09-2	ND	LD50 Oral Rat 985 mg/kg[1]	**D**					
trans-1,2-Dichloroethene	156-60-5	ND	LD50 Rat oral 1235 mg/kg[2]	**D**					
Methyl t-Butyl Ether	1634-04-4	ND	LD50 Rat Oral 4000 mg/kg[2]	**D**					
1,1-Dichloroethane	75-34-3	ND	LD50 Rat Oral 725 mg/kg[2]	**D**					
Vinyl Acetate	108-05-4	ND	LC50 Rat Inhalation 11.4 mg/kg[1]	**C**					
2,2-Dichloropropane	594-20-7	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM 1,2-DICHLOROPROPANE LD50 Rat Oral 1947 mg/kg[2]	**D**					
cis-1,2-Dichloroethene	156-59-2	ND	LC50 Lepomis machrochirus (bluegill) 135,000 ug/l/96 hr[2]	**NOT APPLICABLE**					
2-Butanone	78-93-3	ND	LD50 Oral Rat 2737 mg/kg[1]	**D**					
Bromochloromethane	74-97-5	ND	LD50 Oral Rat 5000 mg/kg[2]	**D**					
Chloroform	67-66-3	ND	LD50 Rabbit Dermal 20 mg/kg[3]	**B**					
1,1,1-Trichloroethane	71-55-6	ND	LC50 Oncorhynchus mykiss (Rainbow Trout) 42.3 mg/L/96hr[3]	**D**					
Carbon Tetrachloride	56-23-5	ND	LD50 Oral Rat 2350 mg/kg[3]	**D**					

1,1-Dichloropropene	563-58-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM 1,3-DICHLOROPROPENE LD50 Rat oral 127mg/kg[2]	C					
Benzene	71-43-2	10	LC50 Oncorhynchus mykiss (Rainbow Trout) 9.2 mg/L/96hr[3]	C				1.00E-06	
1,2-Dichloroethane	107-06-2	ND	LD50 Rat oral 670-890 mg/kg[2]	D					
Trichloroethene	79-01-6	ND	LC50 Pimephales promelas (fathead minnow) 40.7 mg/l/96 hr[2]	D					
1,2-Dichloropropane	78-87-5	ND	LD50 Rat oral 1947 mg/kg[2]	D					
Dibromomethane	74-95-3	ND	LD50 Rat oral 108 mg/kg[1]	C					
Bromodichloromethane	75-27-4	ND	LD50 Rat Male oral 916 mg/kg[2]	D					
2-Chloroethyl Vinyl Ether	110-75-8	ND	LD50 Rat oral 250 mg/kg[2]	C					
(cis) 1,3-Dichloropropene	10061-01-5	ND	LD50 Rat (CD) oral 127 mg/kg[2]	C					
Methyl Isobutyl Ketone	108-10-1	ND	LD50 Rat oral 4600 mg/kg[2]	D					
Toluene	108-88-3	100	LC50 Oncorhynchus mykiss (Rainbow Trout) 6.78 mg/L/96hr[3]	C				1.00E-05	
(trans) 1,3-Dichloropropene	10061-02-6	ND	NO TOXICITY DATA AVAILABLE-DATA TAKEN FROM (cis) 1,3-Dichloropropene LD50 Rat oral 127mg/kg[2]	C					
1,1,2-Trichloroethane	79-00-5	ND	LD50 Rat oral 837 mg/kg[2]	D					
Tetrachloroethene	127-18-4	ND	LC50 Salmo gairdneri (Oncorhynchus mykiss - rainbow trout) 5 mg/l/96 hr[2]	C					
1,3-Dichloropropane	142-28-9	ND	LC50 Poecilia reticulata (guppy) 84 ppm/7 days[2]	D					
2-Hexanone	591-78-6	ND	LD50 Rat oral 2590 mg/kg[2]	D					
Dibromochloromethane	124-48-1	ND	LD50 Rat oral 370 mg/kg[2]	C					
1,2-Dibromoethane	106-93-4	ND	LD50 Rat oral 108 mg/kg[2]	C					
Chlorobenzene	108-90-7	ND	LC50 Rat Inhalation 13.65 mg/kg[3]	C					
1,1,1,2-Tetrachloroethane	630-20-6	ND	LD50 Rat oral 670 mg/kg[2]	D					
Ethylbenzene	100-41-4	84	Oncorhynchus mykiss (Rainbow Trout) 4.2 mg/L/96 hr[3]	C				8.40E-06	
m,p-Xylene	108-38-3, 106-42-3	370	LC50 Oncorhynchus mykiss (Rainbow Trout) 2.6 mg/L/96hr[3]	C				3.70E-05	
o-Xylene	95-47-6	170	LC50 Oncorhynchus mykiss (Rainbow Trout) 7.6 mg/L/96hr[3]	C				1.70E-05	
Styrene	100-42-5	ND	LC50 Rat Inhalation 0.18 mg/kg[3]	A					
Bromoform	75-25-2	ND	LD50 Rat 414 mg/kg[2]	C					
Isopropylbenzene	98-82-8	31	1400 mg/kg Oral Rat LD50[2]	D					3.10E-06
Bromobenzene	108-86-1	ND	LD50 Oral Rat 2699 mg/kg	D					
1,1,2,2-Tetrachloroethane	79-34-5	ND	LD50 Rat oral 250 mg/kg[2]	C					
1,2,3-Trichloropropane	96-18-4	ND	LD50 Rat oral 450 mg/kg[2]	C					
n-propyl benzene	103-65-1	66	6040 mg/kg Oral Rat LD50[2]	NOT APPLICABLE					
2-Chlorotoluene	95-49-8	ND	LD50 Oral Rat 1600 mg/kg[2]	D					
4-Chlorotoluene	106-43-4	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM 2-CHLOROTOLUENE Oral LD50 Rat1600 mg/kg[2]	D					
1,3,5-Trimethylbenzene	108-67-8	120	LD50 Oral Rat 5000 mg/kg[1]	D					1.20E-05
tert-Butylbenzene	98-06-6	ND	NO TOXICITY DATA AVAILABLE TAKEN FROM SEC-BUTYLBENZENE LD50 Rat oral 2240 mg/kg[2]	D					
1,2,4-Trimethylbenzene	95-63-6	410	LC50 Pimephales promelas (fathead minnow) 7.720 mg/l/96 hr[3]	C				4.10E-05	
sec-Butylbenzene	135-98-8	42	2240 mg/kg Oral Rat LD50[2]	D					4.20E-06
1,3-Dichlorobenzene	541-73-1	ND	LD50 Rat oral 580 mg/kg[2]	D					
p-Isopropyltoluene	99-87-6	38	LD50 Rat oral 4750 mg/kg[2]	D					3.80E-06
1,4-Dichlorobenzene	106-46-7	ND	LD50 Rat oral 500 mg/kg[2]	C					
1,2-Dichlorobenzene	95-50-1	ND	LD50 Oral Rat 500 mg/kg[3]	C					
n-Butylbenzene	104-51-8	ND	LD50 Mouse sc 1994.5 mg/kg[2]	D					
1,2-Dibromo-3-chloropropane	96-12-8	ND	LD50 Rat oral 170 mg/kg[2]	C					
1,2,4-Trichlorobenzene	120-82-1	ND	LD50 Rat oral 756 mg/kg[2]	D					
Hexachlorobutadiene	87-68-3	ND	LD50 Rat oral 90 mg/kg[2]	C					
Naphthalene	91-20-3	360	LD50 Oral Rat 490 mg/kg[3]	C				3.60E-05	
1,2,3-Trichlorobenzene	87-61-6	ND	LD50 Rat oral 756 mg/kg[2]	D					
PCBs by EPA 8082A									
Aroclor 1016	12674-11-2	ND	LC50 Oncorhynchus mykiss (rainbow trout) 135 ug/L 120 hr[2]	B					

Aroclor 1221	11104-28-2	ND	LC50 Salmo clarki (Cutthroat salmon) 1.17 mg/L for 96 hr[2]	**C**					
Aroclor 1232	11141-16-5	ND	LC50 Salmo clarki (Cutthroat salmon) 2.5 mg/L for 96 hr[2]	**C**					
Aroclor 1242	53469-21-9	ND	LC50 Oncorhynchus mykiss (rainbow trout) 67 ug/L 120 hr[2]	**A**					
Aroclor 1248	12672-29-6	ND	LC50 Oncorhynchus mykiss (rainbow trout) 54 ug/L 120 hr[2]	**A**					
Aroclor 1254	11097-69-1	ND	LC50 Oncorhynchus mykiss (rainbow trout) 156 ug/L 120 hr[2]	**B**					
Aroclor 1260	11096-82-5	ND	LC50 Oncorhynchus mykiss (rainbow trout) >232 ug/L for 96 hr[2]	**B**					
Total (SUM)					**0.0000000**	**0.0000240**	**0.0000730**	**0.0001784**	**0.0000**

	∑X% / 1	**∑A% / 10**	**∑B% / 100**	**∑C% / 1000**	**∑D% / 10000**	**EC**	**Designation**
Enter Category Mass % Here →	0.00E+00	2.40E-05	7.30E-05	1.78E-04	3.92E-05		
	0.00E+00	2.40E-06	7.30E-07	1.78E-07	3.92E-09	**0.0000033**	**Non-Dangerous Waste**

Sources

1 RTECS: Registry of Toxic Effects of Chemical Substances
2 HSDB: Hazardous Substances Data Bank, National Library of Medicine
3 ECOTOX Database: United States Environmental Protection Agency

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 13, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge
Laboratory Reference No. 2310-156

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on October 12, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

Case Narrative

Samples were collected on October 12, 2023 and received by the laboratory on October 12, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PCBs EPA 8082A Analysis

Sample matrix effects caused the percent recovery for the surrogate DCB in the sample UST Piping Utilidor (30%) to be below the quality control limits of 55-138%. All other QC associated with this sample batch was within limits. No further action was undertaken.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST Piping Utilidor**					
Laboratory ID:	10-156-01					
Dichlorodifluoromethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Chloromethane	ND	10	EPA 8260D	10-13-23	10-13-23	
Vinyl Chloride	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Bromomethane	ND	10	EPA 8260D	10-13-23	10-13-23	
Chloroethane	ND	10	EPA 8260D	10-13-23	10-13-23	
Trichlorofluoromethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloroethene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Acetone	51	50	EPA 8260D	10-13-23	10-13-23	
Iodomethane	ND	50	EPA 8260D	10-13-23	10-13-23	
Carbon Disulfide	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Methylene Chloride	ND	10	EPA 8260D	10-13-23	10-13-23	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Methyl t-Butyl Ether	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Vinyl Acetate	ND	10	EPA 8260D	10-13-23	10-13-23	
2,2-Dichloropropane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
2-Butanone	ND	50	EPA 8260D	10-13-23	10-13-23	
Bromochloromethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Chloroform	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1,1-Trichloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Carbon Tetrachloride	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloropropene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Benzene	10	2.0	EPA 8260D	10-13-23	10-13-23	
1,2-Dichloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Trichloroethene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2-Dichloropropane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Dibromomethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Bromodichloromethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Methyl Isobutyl Ketone	ND	20	EPA 8260D	10-13-23	10-13-23	
Toluene	100	10	EPA 8260D	10-13-23	10-13-23	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260D	10-13-23	10-13-23	

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST Piping Utilidor**					
Laboratory ID:	10-156-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Tetrachloroethene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,3-Dichloropropane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
2-Hexanone	ND	20	EPA 8260D	10-13-23	10-13-23	
Dibromochloromethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2-Dibromoethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Chlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Ethylbenzene	84	2.0	EPA 8260D	10-13-23	10-13-23	
m,p-Xylene	370	4.0	EPA 8260D	10-13-23	10-13-23	
o-Xylene	170	2.0	EPA 8260D	10-13-23	10-13-23	
Styrene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Bromoform	ND	10	EPA 8260D	10-13-23	10-13-23	
Isopropylbenzene	31	2.0	EPA 8260D	10-13-23	10-13-23	
Bromobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2,3-Trichloropropane	ND	2.0	EPA 8260D	10-13-23	10-13-23	
n-Propylbenzene	66	2.0	EPA 8260D	10-13-23	10-13-23	
2-Chlorotoluene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
4-Chlorotoluene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,3,5-Trimethylbenzene	120	2.0	EPA 8260D	10-13-23	10-13-23	
tert-Butylbenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2,4-Trimethylbenzene	410	2.0	EPA 8260D	10-13-23	10-13-23	
sec-Butylbenzene	42	2.0	EPA 8260D	10-13-23	10-13-23	
1,3-Dichlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
p-Isopropyltoluene	38	2.0	EPA 8260D	10-13-23	10-13-23	Y
1,4-Dichlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2-Dichlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
n-Butylbenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260D	10-13-23	10-13-23	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Hexachlorobutadiene	ND	10	EPA 8260D	10-13-23	10-13-23	
Naphthalene	360	10	EPA 8260D	10-13-23	10-13-23	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*110*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Chloromethane	ND	1.0	EPA 8260D	10-13-23	10-13-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Bromomethane	ND	1.0	EPA 8260D	10-13-23	10-13-23	
Chloroethane	ND	1.0	EPA 8260D	10-13-23	10-13-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Acetone	ND	5.0	EPA 8260D	10-13-23	10-13-23	
Iodomethane	ND	5.0	EPA 8260D	10-13-23	10-13-23	
Carbon Disulfide	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-13-23	10-13-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Vinyl Acetate	ND	1.0	EPA 8260D	10-13-23	10-13-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
2-Butanone	ND	5.0	EPA 8260D	10-13-23	10-13-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Chloroform	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Benzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Trichloroethene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Dibromomethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Toluene	ND	1.0	EPA 8260D	10-13-23	10-13-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-13-23	10-13-23	

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
2-Hexanone	ND	2.0	EPA 8260D	10-13-23	10-13-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-13-23	10-13-23	
o-Xylene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Styrene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Bromoform	ND	1.0	EPA 8260D	10-13-23	10-13-23	
Isopropylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Bromobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-13-23	10-13-23	
n-Propylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
n-Butylbenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-13-23	10-13-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-13-23	10-13-23	
Naphthalene	ND	1.0	EPA 8260D	10-13-23	10-13-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	10-13-23	10-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*107*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1013W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**13.3**	**11.1**	10.0	10.0	133	111	34-166	18	21	
Chloromethane	**8.14**	**7.18**	10.0	10.0	81	72	63-138	13	18	
Vinyl Chloride	**9.66**	**8.35**	10.0	10.0	97	84	71-135	15	20	
Bromomethane	**12.2**	**11.3**	10.0	10.0	122	113	20-151	8	36	
Chloroethane	**9.47**	**8.15**	10.0	10.0	95	82	76-125	15	20	
Trichlorofluoromethane	**10.1**	**8.81**	10.0	10.0	101	88	75-131	14	19	
1,1-Dichloroethene	**9.63**	**8.58**	10.0	10.0	96	86	78-125	12	19	
Acetone	**8.25**	**8.56**	10.0	10.0	83	86	76-125	4	18	
Iodomethane	**10.8**	**10.5**	10.0	10.0	108	105	10-155	3	40	
Carbon Disulfide	**8.42**	**7.65**	10.0	10.0	84	77	58-129	10	17	
Methylene Chloride	**8.68**	**7.84**	10.0	10.0	87	78	80-120	10	15	I
(trans) 1,2-Dichloroethene	**8.93**	**8.14**	10.0	10.0	89	81	80-125	9	17	
Methyl t-Butyl Ether	**8.45**	**7.56**	10.0	10.0	85	76	80-122	11	15	I
1,1-Dichloroethane	**9.08**	**8.10**	10.0	10.0	91	81	80-125	11	17	
Vinyl Acetate	**9.72**	**8.82**	10.0	10.0	97	88	80-131	10	15	
2,2-Dichloropropane	**10.6**	**9.84**	10.0	10.0	106	98	80-146	7	21	
(cis) 1,2-Dichloroethene	**9.31**	**8.32**	10.0	10.0	93	83	80-129	11	17	
2-Butanone	**9.02**	**8.66**	10.0	10.0	90	87	80-129	4	16	
Bromochloromethane	**9.06**	**7.82**	10.0	10.0	91	78	80-125	15	18	I
Chloroform	**9.15**	**8.24**	10.0	10.0	92	82	80-123	10	16	
1,1,1-Trichloroethane	**9.34**	**8.45**	10.0	10.0	93	85	80-123	10	18	
Carbon Tetrachloride	**9.78**	**8.67**	10.0	10.0	98	87	80-126	12	17	
1,1-Dichloropropene	**9.38**	**8.39**	10.0	10.0	94	84	80-126	11	18	
Benzene	**8.92**	**8.08**	10.0	10.0	89	81	80-121	10	16	
1,2-Dichloroethane	**9.77**	**8.95**	10.0	10.0	98	90	80-124	9	15	
Trichloroethene	**10.1**	**8.99**	10.0	10.0	101	90	80-122	12	18	
1,2-Dichloropropane	**9.76**	**8.20**	10.0	10.0	98	82	80-123	17	15	L
Dibromomethane	**9.55**	**8.14**	10.0	10.0	96	81	80-123	16	15	L
Bromodichloromethane	**9.65**	**8.46**	10.0	10.0	97	85	80-125	13	15	
(cis) 1,3-Dichloropropene	**9.66**	**8.76**	10.0	10.0	97	88	80-129	10	15	
Methyl Isobutyl Ketone	**9.60**	**8.48**	10.0	10.0	96	85	80-124	12	15	
Toluene	**9.41**	**8.34**	10.0	10.0	94	83	80-120	12	18	
(trans) 1,3-Dichloropropene	**11.1**	**10.1**	10.0	10.0	111	101	80-134	9	17	

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1013W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.55**	**8.76**	10.0	10.0	96	88	77-126	9	20	
Tetrachloroethene	**12.0**	**10.8**	10.0	10.0	120	108	80-124	11	18	
1,3-Dichloropropane	**10.0**	**8.86**	10.0	10.0	100	89	80-120	12	15	
2-Hexanone	**9.89**	**9.59**	10.0	10.0	99	96	80-130	3	16	
Dibromochloromethane	**10.2**	**9.22**	10.0	10.0	102	92	80-128	10	15	
1,2-Dibromoethane	**9.54**	**9.01**	10.0	10.0	95	90	80-127	6	15	
Chlorobenzene	**11.0**	**9.90**	10.0	10.0	110	99	80-120	11	17	
1,1,1,2-Tetrachloroethane	**10.8**	**9.82**	10.0	10.0	108	98	80-125	10	17	
Ethylbenzene	**11.1**	**10.2**	10.0	10.0	111	102	80-125	8	18	
m,p-Xylene	**22.5**	**20.9**	20.0	20.0	113	105	80-127	7	18	
o-Xylene	**10.9**	**10.1**	10.0	10.0	109	101	80-126	8	18	
Styrene	**10.9**	**10.1**	10.0	10.0	109	101	80-130	8	17	
Bromoform	**10.7**	**9.73**	10.0	10.0	107	97	80-130	9	15	
Isopropylbenzene	**11.3**	**10.5**	10.0	10.0	113	105	80-129	7	18	
Bromobenzene	**10.4**	**8.98**	10.0	10.0	104	90	76-128	15	16	
1,1,2,2-Tetrachloroethane	**9.44**	**7.78**	10.0	10.0	94	78	74-130	19	15	L
1,2,3-Trichloropropane	**8.95**	**7.63**	10.0	10.0	90	76	71-129	16	25	
n-Propylbenzene	**11.9**	**10.4**	10.0	10.0	119	104	80-129	13	19	
2-Chlorotoluene	**11.3**	**9.82**	10.0	10.0	113	98	80-128	14	18	
4-Chlorotoluene	**11.3**	**9.92**	10.0	10.0	113	99	80-130	13	19	
1,3,5-Trimethylbenzene	**11.6**	**9.95**	10.0	10.0	116	100	80-131	15	18	
tert-Butylbenzene	**11.6**	**10.1**	10.0	10.0	116	101	80-130	14	18	
1,2,4-Trimethylbenzene	**11.7**	**10.3**	10.0	10.0	117	103	80-130	13	18	
sec-Butylbenzene	**11.8**	**10.8**	10.0	10.0	118	108	80-130	9	18	
1,3-Dichlorobenzene	**11.5**	**10.1**	10.0	10.0	115	101	80-126	13	17	
p-Isopropyltoluene	**12.2**	**11.0**	10.0	10.0	122	110	80-132	10	18	
1,4-Dichlorobenzene	**11.0**	**9.85**	10.0	10.0	110	99	80-121	11	17	
1,2-Dichlorobenzene	**10.8**	**9.97**	10.0	10.0	108	100	79-125	8	15	
n-Butylbenzene	**12.4**	**11.8**	10.0	10.0	124	118	80-138	5	19	
1,2-Dibromo-3-chloropropane	**9.27**	**8.38**	10.0	10.0	93	84	73-133	10	15	
1,2,4-Trichlorobenzene	**11.5**	**11.8**	10.0	10.0	115	118	80-139	3	18	
Hexachlorobutadiene	**11.2**	**12.3**	10.0	10.0	112	123	80-151	9	18	
Naphthalene	**10.7**	**11.1**	10.0	10.0	107	111	68-144	4	25	
1,2,3-Trichlorobenzene	**10.6**	**11.8**	10.0	10.0	106	118	75-146	11	28	
Surrogate:										
Dibromofluoromethane					*101*	*99*	*75-127*			
Toluene-d8					*112*	*108*	*80-127*			
4-Bromofluorobenzene					*100*	*101*	*78-125*			

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST Piping Utilidor**					
Laboratory ID:	10-156-01					
Aroclor 1016	**ND**	0.35	EPA 8082A	10-13-23	10-13-23	U1
Aroclor 1221	**ND**	0.35	EPA 8082A	10-13-23	10-13-23	U1
Aroclor 1232	**ND**	0.35	EPA 8082A	10-13-23	10-13-23	U1
Aroclor 1242	**ND**	0.35	EPA 8082A	10-13-23	10-13-23	U1
Aroclor 1248	**ND**	0.058	EPA 8082A	10-13-23	10-13-23	
Aroclor 1254	**ND**	0.058	EPA 8082A	10-13-23	10-13-23	
Aroclor 1260	**ND**	0.058	EPA 8082A	10-13-23	10-13-23	
Aroclor 1262	**ND**	0.058	EPA 8082A	10-13-23	10-13-23	
Aroclor 1268	**ND**	0.058	EPA 8082A	10-13-23	10-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*30*	*55-138*				Q

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	10-13-23	10-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*55-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1013W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.459**	**0.463**	0.500	0.500	N/A	**92**	**93**	66-120	1	16	
Surrogate:											
DCB						*92*	*87*	*55-138*			

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Date of Report: October 13, 2023
Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

TOTAL METALS
EPA 6010D/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**UST Piping Utilidor**					
Laboratory ID:	10-156-01					
Arsenic	**ND**	200	EPA 6010D	10-12-23	10-12-23	
Barium	**170**	50	EPA 6010D	10-12-23	10-12-23	
Cadmium	**ND**	10	EPA 6010D	10-12-23	10-12-23	
Chromium	**60**	10	EPA 6010D	10-12-23	10-12-23	
Copper	**240**	20	EPA 6010D	10-12-23	10-12-23	
Lead	**220**	100	EPA 6010D	10-12-23	10-12-23	
Mercury	**ND**	0.50	EPA 7470A	10-12-23	10-12-23	
Nickel	**110**	50	EPA 6010D	10-12-23	10-12-23	
Selenium	**ND**	200	EPA 6010D	10-12-23	10-12-23	
Silver	**ND**	20	EPA 6010D	10-12-23	10-12-23	
Zinc	**730**	50	EPA 6010D	10-12-23	10-12-23	

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Laboratory Reference: 2310-156
Project: Star Forge

TOTAL METALS
EPA 6010D/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1012WH2					
Arsenic	**ND**	200	EPA 6010D	10-12-23	10-12-23	
Barium	**ND**	50	EPA 6010D	10-12-23	10-12-23	
Cadmium	**ND**	10	EPA 6010D	10-12-23	10-12-23	
Chromium	**ND**	10	EPA 6010D	10-12-23	10-12-23	
Copper	**ND**	20	EPA 6010D	10-12-23	10-12-23	
Lead	**ND**	100	EPA 6010D	10-12-23	10-12-23	
Nickel	**ND**	50	EPA 6010D	10-12-23	10-12-23	
Selenium	**ND**	200	EPA 6010D	10-12-23	10-12-23	
Silver	**ND**	20	EPA 6010D	10-12-23	10-12-23	
Zinc	**ND**	50	EPA 6010D	10-12-23	10-12-23	
Laboratory ID:	MB1012W2					
Mercury	**ND**	0.50	EPA 7470A	10-12-23	10-12-23	

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Samples Submitted: October 12, 2023
Laboratory Reference: 2310-156
Project: Star Forge

TOTAL METALS
EPA 6010D/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-116-10									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Copper	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	10-117-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	10-116-10									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**1970**	**2120**	2000	2000	ND	**99**	**106**	75-125	7	20
Barium	**2200**	**2260**	2000	2000	ND	**110**	**113**	75-125	3	20
Cadmium	**997**	**1020**	1000	1000	ND	**100**	**102**	75-125	2	20
Chromium	**2080**	**2120**	2000	2000	ND	**104**	**106**	75-125	2	20
Copper	**1060**	**1070**	1000	1000	ND	**106**	**107**	75-125	2	20
Lead	**5420**	**5510**	5000	5000	ND	**108**	**110**	75-125	2	20
Nickel	**2180**	**2230**	2000	2000	ND	**109**	**111**	75-125	2	20
Selenium	**2020**	**2030**	2000	2000	ND	**101**	**102**	75-125	0	20
Silver	**530**	**542**	500	500	ND	**106**	**108**	75-125	2	20
Zinc	**2120**	**2170**	2000	2000	ND	**106**	**108**	75-125	2	20
Laboratory ID:	10-117-01									
Mercury	**6.48**	**6.33**	6.25	6.25	ND	**104**	**101**	75-125	2	20

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge
Project Manager: N. Moxley ~~D. Hill~~ DM
Sampled by: D. Hill

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ Best Available (other)

Laboratory Number: 10-156

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	UST Piping Utility	10/12/23	1115	Water	6					X					X				X								

	Signature	Company	Date	Time
Relinquished		DH Environmental	10/12/23	1250
Received		OSE	10/12/23	1250
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 31, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Jorgensen UST Site Assessment
Laboratory Reference No. 2308-250

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 22, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

Case Narrative

Samples were collected on August 21 and 22, 2023 and received by the laboratory on August 22, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D (Water) Analysis

The percent recovery for 1,1,2,2-Tetrachloroethane is outside the control limits in the Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Volatiles EPA 8260D (Soil) Analysis

The percent recovery for Dibromomethane is outside the control limits in the Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The RPD for Dibromomethane is outside the control limits for the Spike Blank/Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Gasoline	**ND**	6.4	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-126*				
Client ID:	**NT-piping-SS-25-2.0-082123**					
Laboratory ID:	08-250-02					
Gasoline	**ND**	5.2	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**NT-piping-SS-26-2.0-082123**					
Laboratory ID:	08-250-03					
Gasoline	**ND**	4.8	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				
Client ID:	**NT-SS-29-6.5-082223**					
Laboratory ID:	08-250-04					
Gasoline	**ND**	4.9	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				
Client ID:	**NT-SS-30-6.5-082223**					
Laboratory ID:	08-250-05					
Gasoline	**ND**	5.8	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Gasoline Range Organics	**80**	4.9	NWTPH-Gx	8-24-23	8-24-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				
Client ID:	**NT-SS-32-6.5-082223**					
Laboratory ID:	08-250-07					
Gasoline	**ND**	5.3	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-126*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-33-6.5-082223**					
Laboratory ID:	08-250-08					
Gasoline	**ND**	5.7	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*65-126*				
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Gasoline Range Organics	**280**	5.3	NWTPH-Gx	8-24-23	8-25-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-126*				
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Gasoline Range Organics	**6.5**	5.4	NWTPH-Gx	8-24-23	8-24-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Gasoline	**ND**	5.1	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Gasoline Range Organics	**1300**	62	NWTPH-Gx	8-24-23	8-25-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*76*	*65-126*				
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Gasoline	**ND**	5.7	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Client ID:	**ST-SS-6-8.5-082223**					
Laboratory ID:	08-250-14					
Gasoline	**ND**	5.6	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-1-8.5-082223**					
Laboratory ID:	08-250-15					
Gasoline	**ND**	6.7	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**ST-SS-2-8.5-082223**					
Laboratory ID:	08-250-16					
Gasoline	**ND**	7.3	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**ST-SS-Dup-2-082223**					
Laboratory ID:	08-250-17					
Gasoline	**ND**	6.4	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*65-126*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
Gasoline	**ND**	5.0	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Laboratory ID:	MB0824S2					
Gasoline	**ND**	5.0	NWTPH-Gx	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-250-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*81*	*90*	*65-126*			
Laboratory ID:	08-250-02										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*91*	*92*	*65-126*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-250-18					
Gasoline	**ND**	100	NWTPH-Gx	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*70*	*65-122*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823W1					
Gasoline	**ND**	100	NWTPH-Gx	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-231-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*83*	*79*	*65-122*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Diesel Range Organics	**ND**	1500	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**8900**	3100	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**NT-piping-SS-25-2.0-082123**					
Laboratory ID:	08-250-02					
Diesel Range Organics	**39**	30	NWTPH-Dx	8-28-23	8-31-23	N
Lube Oil	**360**	60	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**NT-piping-SS-26-2.0-082123**					
Laboratory ID:	08-250-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**120**	59	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*56*	*50-150*				
Client ID:	**NT-SS-29-6.5-082223**					
Laboratory ID:	08-250-04					
Diesel Range Organics	**ND**	29	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	57	NWTPH-Dx	8-28-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**NT-SS-30-6.5-082223**					
Laboratory ID:	08-250-05					
Diesel Range Organics	**ND**	29	NWTPH-Dx	8-28-23	8-29-23	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	8-28-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Diesel Range Organics	**ND**	1800	NWTPH-Dx	8-28-23	8-31-23	U1
Lube Oil	**32000**	2900	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-32-6.5-082223**					
Laboratory ID:	08-250-07					
Diesel Range Organics	**ND**	30	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	8-28-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**NT-SS-33-6.5-082223**					
Laboratory ID:	08-250-08					
Diesel Range Organics	**ND**	31	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	8-28-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Diesel Fuel #2	**8600**	150	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**2200**	300	NWTPH-Dx	8-28-23	8-31-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Diesel Range Organics	**ND**	240	NWTPH-Dx	8-28-23	8-31-23	U1
Lube Oil	**6600**	290	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*106*	*50-150*				
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Diesel Range Organics	**ND**	730	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**14000**	1500	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Diesel Fuel #2	**5300**	32	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	150	NWTPH-Dx	8-28-23	8-30-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Diesel Fuel #2	**3400**	31	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	160	NWTPH-Dx	8-28-23	8-30-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*138*	*50-150*				
Client ID:	**ST-SS-6-8.5-082223**					
Laboratory ID:	08-250-14					
Diesel Fuel #2	**57**	31	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**ST-SS-1-8.5-082223**					
Laboratory ID:	08-250-15					
Diesel Range Organics	**ND**	33	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	67	NWTPH-Dx	8-28-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**ST-SS-2-8.5-082223**					
Laboratory ID:	08-250-16					
Diesel Fuel #2	**64**	33	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**85**	66	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**ST-SS-Dup-2-082223**					
Laboratory ID:	08-250-17					
Diesel Fuel #2	**58**	33	NWTPH-Dx	8-28-23	8-30-23	
Lube Oil Range Organics	**ND**	67	NWTPH-Dx	8-28-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0828S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	8-28-23	8-29-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	8-28-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-250-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil	**7240**	**7200**	NA	NA		NA		NA	1	40	
Surrogate:											
o-Terphenyl						---	---	*50-150*			S,S
Laboratory ID:	08-287-03										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil	**127**	**115**	NA	NA		NA		NA	10	40	
Surrogate:											
o-Terphenyl						*99*	*103*	*50-150*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	8-24-23	8-24-23	
Chloromethane	ND	0.0060	EPA 8260D	8-24-23	8-24-23	
Vinyl Chloride	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Bromomethane	ND	0.0061	EPA 8260D	8-24-23	8-24-23	
Chloroethane	ND	0.0044	EPA 8260D	8-24-23	8-24-23	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Iodomethane	ND	0.0097	EPA 8260D	8-24-23	8-24-23	
Methylene Chloride	ND	0.0044	EPA 8260D	8-24-23	8-24-23	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Bromochloromethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Chloroform	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Benzene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Trichloroethene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Dibromomethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Bromodichloromethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260D	8-24-23	8-24-23	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Toluene	ND	0.0044	EPA 8260D	8-24-23	8-24-23	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Tetrachloroethene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Dibromochloromethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Chlorobenzene	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	8-24-23	8-24-23	
Ethylbenzene	0.0021	0.00088	EPA 8260D	8-24-23	8-24-23	
m,p-Xylene	0.025	0.0018	EPA 8260D	8-24-23	8-24-23	
o-Xylene	0.032	0.00088	EPA 8260D	8-24-23	8-24-23	
Bromoform	ND	0.0044	EPA 8260D	8-24-23	8-24-23	
Bromobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.053	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.27	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.27	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.053	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Dichlorodifluoromethane	ND	0.0016	EPA 8260D	8-24-23	8-24-23	
Chloromethane	ND	0.0065	EPA 8260D	8-24-23	8-24-23	
Vinyl Chloride	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Bromomethane	ND	0.0066	EPA 8260D	8-24-23	8-24-23	
Chloroethane	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
Trichlorofluoromethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Iodomethane	ND	0.011	EPA 8260D	8-24-23	8-24-23	
Methylene Chloride	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Methyl t-Butyl Ether	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
2,2-Dichloropropane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Bromochloromethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Chloroform	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Carbon Tetrachloride	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloropropene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Benzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Trichloroethene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloropropane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Dibromomethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Bromodichloromethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Toluene	ND	0.0048	EPA 8260D	8-24-23	8-24-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1,2-Trichloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Tetrachloroethene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,3-Dichloropropane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Dibromochloromethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2-Dibromoethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Chlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Ethylbenzene	0.0012	0.00096	EPA 8260D	8-24-23	8-24-23	
m,p-Xylene	0.013	0.0019	EPA 8260D	8-24-23	8-24-23	
o-Xylene	0.015	0.00096	EPA 8260D	8-24-23	8-24-23	
Bromoform	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
Bromobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
2-Chlorotoluene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
4-Chlorotoluene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	8-24-23	8-24-23	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260D	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0076	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Laboratory Reference: 2308-250
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QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	8-24-23	8-24-23	
Chloromethane	ND	0.0068	EPA 8260D	8-24-23	8-24-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Bromomethane	ND	0.0069	EPA 8260D	8-24-23	8-24-23	
Chloroethane	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Iodomethane	ND	0.011	EPA 8260D	8-24-23	8-24-23	
Methylene Chloride	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Chloroform	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Benzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Toluene	ND	0.0050	EPA 8260D	8-24-23	8-24-23	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-24-23	8-24-23	
o-Xylene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Bromoform	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-24-23	8-24-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0375**	**0.0370**	0.0500	0.0500	75	74	30-160	1	26	
Chloromethane	**0.0410**	**0.0429**	0.0500	0.0500	82	86	59-131	5	26	
Vinyl Chloride	**0.0440**	**0.0473**	0.0500	0.0500	88	95	68-136	7	23	
Bromomethane	**0.0420**	**0.0476**	0.0500	0.0500	84	95	48-155	13	32	
Chloroethane	**0.0458**	**0.0506**	0.0500	0.0500	92	101	67-141	10	16	
Trichlorofluoromethane	**0.0513**	**0.0575**	0.0500	0.0500	103	115	76-127	11	19	
1,1-Dichloroethene	**0.0489**	**0.0544**	0.0500	0.0500	98	109	75-129	11	19	
Iodomethane	**0.0328**	**0.0389**	0.0500	0.0500	66	78	37-140	17	27	
Methylene Chloride	**0.0467**	**0.0525**	0.0500	0.0500	93	105	60-124	12	18	
(trans) 1,2-Dichloroethene	**0.0489**	**0.0538**	0.0500	0.0500	98	108	79-133	10	15	
Methyl t-Butyl Ether	**0.0498**	**0.0526**	0.0500	0.0500	100	105	73-125	5	17	
1,1-Dichloroethane	**0.0491**	**0.0541**	0.0500	0.0500	98	108	79-125	10	17	
2,2-Dichloropropane	**0.0532**	**0.0532**	0.0500	0.0500	106	106	79-126	0	18	
(cis) 1,2-Dichloroethene	**0.0523**	**0.0574**	0.0500	0.0500	105	115	75-131	9	15	
Bromochloromethane	**0.0496**	**0.0552**	0.0500	0.0500	99	110	80-126	11	15	
Chloroform	**0.0488**	**0.0525**	0.0500	0.0500	98	105	80-123	7	15	
1,1,1-Trichloroethane	**0.0466**	**0.0523**	0.0500	0.0500	93	105	78-124	12	21	
Carbon Tetrachloride	**0.0419**	**0.0473**	0.0500	0.0500	84	95	74-127	12	18	
1,1-Dichloropropene	**0.0445**	**0.0516**	0.0500	0.0500	89	103	80-123	15	15	
Benzene	**0.0476**	**0.0520**	0.0500	0.0500	95	104	80-122	9	18	
1,2-Dichloroethane	**0.0494**	**0.0542**	0.0500	0.0500	99	108	75-124	9	15	
Trichloroethene	**0.0514**	**0.0521**	0.0500	0.0500	103	104	80-129	1	18	
1,2-Dichloropropane	**0.0539**	**0.0540**	0.0500	0.0500	108	108	80-123	0	15	
Dibromomethane	**0.0499**	**0.0483**	0.0500	0.0500	100	97	80-123	3	15	
Bromodichloromethane	**0.0532**	**0.0533**	0.0500	0.0500	106	107	80-129	0	15	
(cis) 1,3-Dichloropropene	**0.0540**	**0.0541**	0.0500	0.0500	108	108	80-130	0	15	
Toluene	**0.0505**	**0.0497**	0.0500	0.0500	101	99	80-120	2	18	
(trans) 1,3-Dichloropropene	**0.0546**	**0.0554**	0.0500	0.0500	109	111	80-124	1	15	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0480**	**0.0480**	0.0500	0.0500	96	96	80-120	0	15	
Tetrachloroethene	**0.0540**	**0.0547**	0.0500	0.0500	108	109	77-126	1	15	
1,3-Dichloropropane	**0.0529**	**0.0528**	0.0500	0.0500	106	106	77-123	0	15	
Dibromochloromethane	**0.0548**	**0.0528**	0.0500	0.0500	110	106	80-128	4	16	
1,2-Dibromoethane	**0.0528**	**0.0514**	0.0500	0.0500	106	103	80-122	3	20	
Chlorobenzene	**0.0495**	**0.0509**	0.0500	0.0500	99	102	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0504**	**0.0498**	0.0500	0.0500	101	100	80-120	1	15	
Ethylbenzene	**0.0510**	**0.0522**	0.0500	0.0500	102	104	80-120	2	15	
m,p-Xylene	**0.0990**	**0.102**	0.100	0.100	99	102	80-120	3	15	
o-Xylene	**0.0511**	**0.0525**	0.0500	0.0500	102	105	80-120	3	15	
Bromoform	**0.0538**	**0.0538**	0.0500	0.0500	108	108	78-126	0	15	
Bromobenzene	**0.0494**	**0.0476**	0.0500	0.0500	99	95	79-124	4	15	
1,1,2,2-Tetrachloroethane	**0.0521**	**0.0493**	0.0500	0.0500	104	99	75-122	6	17	
1,2,3-Trichloropropane	**0.0502**	**0.0473**	0.0500	0.0500	100	95	72-125	6	20	
2-Chlorotoluene	**0.0523**	**0.0508**	0.0500	0.0500	105	102	75-128	3	15	
4-Chlorotoluene	**0.0515**	**0.0507**	0.0500	0.0500	103	101	78-127	2	16	
1,3-Dichlorobenzene	**0.0519**	**0.0514**	0.0500	0.0500	104	103	78-123	1	17	
1,4-Dichlorobenzene	**0.0520**	**0.0510**	0.0500	0.0500	104	102	77-121	2	17	
1,2-Dichlorobenzene	**0.0518**	**0.0511**	0.0500	0.0500	104	102	80-120	1	15	
1,2-Dibromo-3-chloropropane	**0.0597**	**0.0523**	0.0500	0.0500	119	105	61-137	13	28	
1,2,4-Trichlorobenzene	**0.0582**	**0.0604**	0.0500	0.0500	116	121	77-127	4	17	
Hexachlorobutadiene	**0.0514**	**0.0512**	0.0500	0.0500	103	102	77-125	0	22	
1,2,3-Trichlorobenzene	**0.0527**	**0.0548**	0.0500	0.0500	105	110	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*92*	*102*	*75-130*			
Toluene-d8					*100*	*99*	*78-128*			
4-Bromofluorobenzene					*107*	*107*	*71-130*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
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QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0824S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0301**	**0.0288**	0.0500	0.0500	60	58	30-160	4	26	
Chloromethane	**0.0367**	**0.0373**	0.0500	0.0500	73	75	59-131	2	26	
Vinyl Chloride	**0.0401**	**0.0404**	0.0500	0.0500	80	81	68-136	1	23	
Bromomethane	**0.0360**	**0.0379**	0.0500	0.0500	72	76	48-155	5	32	
Chloroethane	**0.0444**	**0.0440**	0.0500	0.0500	89	88	67-141	1	16	
Trichlorofluoromethane	**0.0478**	**0.0486**	0.0500	0.0500	96	97	76-127	2	19	
1,1-Dichloroethene	**0.0479**	**0.0481**	0.0500	0.0500	96	96	75-129	0	19	
Iodomethane	**0.0229**	**0.0281**	0.0500	0.0500	46	56	37-140	20	27	
Methylene Chloride	**0.0515**	**0.0528**	0.0500	0.0500	103	106	60-124	2	18	
(trans) 1,2-Dichloroethene	**0.0476**	**0.0476**	0.0500	0.0500	95	95	79-133	0	15	
Methyl t-Butyl Ether	**0.0500**	**0.0493**	0.0500	0.0500	100	99	73-125	1	17	
1,1-Dichloroethane	**0.0482**	**0.0490**	0.0500	0.0500	96	98	79-125	2	17	
2,2-Dichloropropane	**0.0510**	**0.0533**	0.0500	0.0500	102	107	79-126	4	18	
(cis) 1,2-Dichloroethene	**0.0514**	**0.0466**	0.0500	0.0500	103	93	75-131	10	15	
Bromochloromethane	**0.0522**	**0.0501**	0.0500	0.0500	104	100	80-126	4	15	
Chloroform	**0.0472**	**0.0479**	0.0500	0.0500	94	96	80-123	1	15	
1,1,1-Trichloroethane	**0.0451**	**0.0449**	0.0500	0.0500	90	90	78-124	0	21	
Carbon Tetrachloride	**0.0404**	**0.0446**	0.0500	0.0500	81	89	74-127	10	18	
1,1-Dichloropropene	**0.0414**	**0.0440**	0.0500	0.0500	83	88	80-123	6	15	
Benzene	**0.0473**	**0.0468**	0.0500	0.0500	95	94	80-122	1	18	
1,2-Dichloroethane	**0.0507**	**0.0505**	0.0500	0.0500	101	101	75-124	0	15	
Trichloroethene	**0.0506**	**0.0511**	0.0500	0.0500	101	102	80-129	1	18	
1,2-Dichloropropane	**0.0526**	**0.0465**	0.0500	0.0500	105	93	80-123	12	15	
Dibromomethane	**0.0515**	**0.0379**	0.0500	0.0500	103	76	80-123	30	15	I,L
Bromodichloromethane	**0.0529**	**0.0524**	0.0500	0.0500	106	105	80-129	1	15	
(cis) 1,3-Dichloropropene	**0.0554**	**0.0534**	0.0500	0.0500	111	107	80-130	4	15	
Toluene	**0.0495**	**0.0496**	0.0500	0.0500	99	99	80-120	0	18	
(trans) 1,3-Dichloropropene	**0.0567**	**0.0556**	0.0500	0.0500	113	111	80-124	2	15	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0824S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0490**	**0.0489**	0.0500	0.0500	98	98	80-120	0	15	
Tetrachloroethene	**0.0509**	**0.0531**	0.0500	0.0500	102	106	77-126	4	15	
1,3-Dichloropropane	**0.0525**	**0.0518**	0.0500	0.0500	105	104	77-123	1	15	
Dibromochloromethane	**0.0522**	**0.0544**	0.0500	0.0500	104	109	80-128	4	16	
1,2-Dibromoethane	**0.0515**	**0.0503**	0.0500	0.0500	103	101	80-122	2	20	
Chlorobenzene	**0.0489**	**0.0502**	0.0500	0.0500	98	100	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0501**	**0.0502**	0.0500	0.0500	100	100	80-120	0	15	
Ethylbenzene	**0.0496**	**0.0504**	0.0500	0.0500	99	101	80-120	2	15	
m,p-Xylene	**0.0973**	**0.0993**	0.100	0.100	97	99	80-120	2	15	
o-Xylene	**0.0504**	**0.0508**	0.0500	0.0500	101	102	80-120	1	15	
Bromoform	**0.0556**	**0.0546**	0.0500	0.0500	111	109	78-126	2	15	
Bromobenzene	**0.0488**	**0.0486**	0.0500	0.0500	98	97	79-124	0	15	
1,1,2,2-Tetrachloroethane	**0.0533**	**0.0516**	0.0500	0.0500	107	103	75-122	3	17	
1,2,3-Trichloropropane	**0.0517**	**0.0502**	0.0500	0.0500	103	100	72-125	3	20	
2-Chlorotoluene	**0.0507**	**0.0520**	0.0500	0.0500	101	104	75-128	3	15	
4-Chlorotoluene	**0.0510**	**0.0513**	0.0500	0.0500	102	103	78-127	1	16	
1,3-Dichlorobenzene	**0.0518**	**0.0528**	0.0500	0.0500	104	106	78-123	2	17	
1,4-Dichlorobenzene	**0.0514**	**0.0507**	0.0500	0.0500	103	101	77-121	1	17	
1,2-Dichlorobenzene	**0.0508**	**0.0509**	0.0500	0.0500	102	102	80-120	0	15	
1,2-Dibromo-3-chloropropane	**0.0589**	**0.0607**	0.0500	0.0500	118	121	61-137	3	28	
1,2,4-Trichlorobenzene	**0.0602**	**0.0599**	0.0500	0.0500	120	120	77-127	0	17	
Hexachlorobutadiene	**0.0527**	**0.0514**	0.0500	0.0500	105	103	77-125	2	22	
1,2,3-Trichlorobenzene	**0.0543**	**0.0562**	0.0500	0.0500	109	112	77-124	3	19	
Surrogate:										
Dibromofluoromethane					*94*	*93*	*75-130*			
Toluene-d8					*103*	*99*	*78-128*			
4-Bromofluorobenzene					*110*	*102*	*71-130*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-250-18					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	7.0	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	1.0	EPA 8260D	8-23-23	8-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-250-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823W1					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	7.0	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	1.0	EPA 8260D	8-23-23	8-23-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-23-23	8-23-23	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	1.0	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**6.83**	**6.26**	10.0	10.0	68	63	34-166	9	21	
Chloromethane	**10.2**	**10.2**	10.0	10.0	102	102	63-138	0	18	
Vinyl Chloride	**11.3**	**11.3**	10.0	10.0	113	113	71-135	0	20	
Bromomethane	**10.4**	**12.8**	10.0	10.0	104	128	20-151	21	36	
Chloroethane	**10.6**	**10.5**	10.0	10.0	106	105	76-125	1	20	
Trichlorofluoromethane	**9.70**	**10.2**	10.0	10.0	97	102	75-131	5	19	
1,1-Dichloroethene	**10.0**	**10.2**	10.0	10.0	100	102	78-125	2	19	
Iodomethane	**7.13**	**8.45**	10.0	10.0	71	85	10-155	17	40	
Methylene Chloride	**9.50**	**9.95**	10.0	10.0	95	100	80-120	5	15	
(trans) 1,2-Dichloroethene	**10.2**	**10.7**	10.0	10.0	102	107	80-125	5	17	
Methyl t-Butyl Ether	**10.2**	**10.5**	10.0	10.0	102	105	80-122	3	15	
1,1-Dichloroethane	**10.1**	**10.4**	10.0	10.0	101	104	80-125	3	17	
2,2-Dichloropropane	**12.4**	**13.1**	10.0	10.0	124	131	80-146	5	21	
(cis) 1,2-Dichloroethene	**10.7**	**11.1**	10.0	10.0	107	111	80-129	4	17	
Bromochloromethane	**10.4**	**10.8**	10.0	10.0	104	108	80-125	4	18	
Chloroform	**10.2**	**10.4**	10.0	10.0	102	104	80-123	2	16	
1,1,1-Trichloroethane	**10.3**	**10.5**	10.0	10.0	103	105	80-123	2	18	
Carbon Tetrachloride	**10.4**	**10.5**	10.0	10.0	104	105	80-126	1	17	
1,1-Dichloropropene	**10.4**	**10.5**	10.0	10.0	104	105	80-126	1	18	
Benzene	**10.4**	**10.6**	10.0	10.0	104	106	80-121	2	16	
1,2-Dichloroethane	**10.4**	**10.6**	10.0	10.0	104	106	80-124	2	15	
Trichloroethene	**10.1**	**10.2**	10.0	10.0	101	102	80-122	1	18	
1,2-Dichloropropane	**10.4**	**10.5**	10.0	10.0	104	105	80-123	1	15	
Dibromomethane	**10.5**	**10.5**	10.0	10.0	105	105	80-123	0	15	
Bromodichloromethane	**11.4**	**11.5**	10.0	10.0	114	115	80-125	1	15	
(cis) 1,3-Dichloropropene	**12.0**	**12.4**	10.0	10.0	120	124	80-129	3	15	
Toluene	**9.53**	**9.60**	10.0	10.0	95	96	80-120	1	18	
(trans) 1,3-Dichloropropene	**11.6**	**11.6**	10.0	10.0	116	116	80-134	0	17	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**11.0**	**11.2**	10.0	10.0	110	112	77-126	2	20	
Tetrachloroethene	**10.1**	**10.7**	10.0	10.0	101	107	80-124	6	18	
1,3-Dichloropropane	**11.1**	**11.2**	10.0	10.0	111	112	80-120	1	15	
Dibromochloromethane	**10.3**	**10.4**	10.0	10.0	103	104	80-128	1	15	
1,2-Dibromoethane	**11.3**	**11.7**	10.0	10.0	113	117	80-127	3	15	
Chlorobenzene	**11.1**	**11.1**	10.0	10.0	111	111	80-120	0	17	
1,1,1,2-Tetrachloroethane	**11.7**	**11.9**	10.0	10.0	117	119	80-125	2	17	
Ethylbenzene	**11.2**	**11.2**	10.0	10.0	112	112	80-125	0	18	
m,p-Xylene	**22.2**	**22.3**	20.0	20.0	111	112	80-127	0	18	
o-Xylene	**11.0**	**10.9**	10.0	10.0	110	109	80-126	1	18	
Bromoform	**12.3**	**12.5**	10.0	10.0	123	125	80-130	2	15	
Bromobenzene	**11.4**	**11.6**	10.0	10.0	114	116	76-128	2	16	
1,1,2,2-Tetrachloroethane	**12.6**	**13.1**	10.0	10.0	126	131	74-130	4	15	I
1,2,3-Trichloropropane	**11.7**	**10.1**	10.0	10.0	117	101	71-129	15	25	
2-Chlorotoluene	**11.6**	**12.2**	10.0	10.0	116	122	80-128	5	18	
4-Chlorotoluene	**12.3**	**12.5**	10.0	10.0	123	125	80-130	2	19	
1,3-Dichlorobenzene	**11.6**	**11.7**	10.0	10.0	116	117	80-126	1	17	
1,4-Dichlorobenzene	**11.5**	**11.7**	10.0	10.0	115	117	80-121	2	17	
1,2-Dichlorobenzene	**10.8**	**11.4**	10.0	10.0	108	114	79-125	5	15	
1,2-Dibromo-3-chloropropane	**10.5**	**11.2**	10.0	10.0	105	112	73-133	6	15	
1,2,4-Trichlorobenzene	**12.0**	**13.0**	10.0	10.0	120	130	80-139	8	18	
Hexachlorobutadiene	**12.2**	**12.7**	10.0	10.0	122	127	80-151	4	18	
1,2,3-Trichlorobenzene	**11.6**	**12.3**	10.0	10.0	116	123	75-146	6	28	
Surrogate:										
Dibromofluoromethane					*98*	*96*	*75-127*			
Toluene-d8					*99*	*98*	*80-127*			
4-Bromofluorobenzene					*106*	*104*	*78-125*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Naphthalene	**0.055**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]anthracene	**ND**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Chrysene	**0.0098**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-24-23	8-25-23	U1
Benzo(j,k)fluoranthene	**ND**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-24-23	8-25-23	U1
Indeno(1,2,3-c,d)pyrene	**ND**	0.0088	EPA 8270E/SIM	8-24-23	8-25-23	U1
Dibenz[a,h]anthracene	**ND**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*39-111*				
Pyrene-d10	*74*	*47-114*				
Terphenyl-d14	*84*	*44-121*				
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Naphthalene	**0.058**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[a]anthracene	**0.036**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Chrysene	**0.052**	0.0078	EPA 8270E/SIM	8-24-23	8-25-23	
Benzo[b]fluoranthene	**ND**	0.093	EPA 8270E/SIM	8-24-23	8-25-23	U1
Benzo(j,k)fluoranthene	**ND**	0.015	EPA 8270E/SIM	8-24-23	8-25-23	U1
Benzo[a]pyrene	**ND**	0.10	EPA 8270E/SIM	8-24-23	8-25-23	U1
Indeno(1,2,3-c,d)pyrene	**ND**	0.026	EPA 8270E/SIM	8-24-23	8-25-23	U1
Dibenz[a,h]anthracene	**ND**	0.015	EPA 8270E/SIM	8-24-23	8-25-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*39-111*				
Pyrene-d10	*67*	*47-114*				
Terphenyl-d14	*76*	*44-121*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S2					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*86*	*39-111*				
Pyrene-d10	*85*	*47-114*				
Terphenyl-d14	*91*	*44-121*				

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0824S2									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0794**	**0.0701**	0.0833	0.0833	95	84	57-116	12	16	
Acenaphthylene	**0.0798**	**0.0766**	0.0833	0.0833	96	92	59-124	4	15	
Acenaphthene	**0.0748**	**0.0706**	0.0833	0.0833	90	85	59-124	6	15	
Fluorene	**0.0770**	**0.0713**	0.0833	0.0833	92	86	62-122	8	15	
Phenanthrene	**0.0747**	**0.0702**	0.0833	0.0833	90	84	62-119	6	15	
Anthracene	**0.0761**	**0.0739**	0.0833	0.0833	91	89	64-123	3	15	
Fluoranthene	**0.0743**	**0.0735**	0.0833	0.0833	89	88	63-123	1	15	
Pyrene	**0.0715**	**0.0708**	0.0833	0.0833	86	85	62-124	1	15	
Benzo[a]anthracene	**0.0756**	**0.0765**	0.0833	0.0833	91	92	59-131	1	15	
Chrysene	**0.0716**	**0.0689**	0.0833	0.0833	86	83	61-124	4	15	
Benzo[b]fluoranthene	**0.0776**	**0.0767**	0.0833	0.0833	93	92	60-126	1	15	
Benzo(j,k)fluoranthene	**0.0726**	**0.0697**	0.0833	0.0833	87	84	63-121	4	17	
Benzo[a]pyrene	**0.0781**	**0.0760**	0.0833	0.0833	94	91	60-122	3	15	
Indeno(1,2,3-c,d)pyrene	**0.0897**	**0.0883**	0.0833	0.0833	108	106	58-127	2	15	
Dibenz[a,h]anthracene	**0.0894**	**0.0865**	0.0833	0.0833	107	104	60-124	3	15	
Benzo[g,h,i]perylene	**0.0821**	**0.0789**	0.0833	0.0833	99	95	58-124	4	15	
Surrogate:										
2-Fluorobiphenyl					*88*	*96*	*39-111*			
Pyrene-d10					*81*	*85*	*47-114*			
Terphenyl-d14					*89*	*92*	*44-121*			

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Aroclor 1016	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1221	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1232	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1242	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1248	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1254	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1260	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1262	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1268	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*67*	*50-127*				
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Aroclor 1016	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1221	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1232	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1242	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1248	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1254	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1260	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1262	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Aroclor 1268	**ND**	0.059	EPA 8082A	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*68*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-250-10										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.358**	**0.337**	0.500	0.500	ND	**72**	**67**	41-121	6	28	
Surrogate:											
DCB						*76*	*74*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-35-6.5-082223**					
Laboratory ID:	08-250-10					
Arsenic	**ND**	12	EPA 6010D	8-24-23	8-24-23	
Barium	**27**	2.9	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.59	EPA 6010D	8-24-23	8-24-23	
Chromium	**8.7**	0.59	EPA 6010D	8-24-23	8-24-23	
Copper	**12**	1.2	EPA 6010D	8-24-23	8-24-23	
Lead	**ND**	5.9	EPA 6010D	8-24-23	8-24-23	
Mercury	**ND**	0.29	EPA 7471B	8-23-23	8-23-23	
Nickel	**8.4**	2.9	EPA 6010D	8-24-23	8-24-23	
Selenium	**ND**	12	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.2	EPA 6010D	8-24-23	8-24-23	
Zinc	**25**	2.9	EPA 6010D	8-24-23	8-24-23	
Client ID:	**NT-SS-Dup-1-082223**					
Laboratory ID:	08-250-11					
Arsenic	**ND**	12	EPA 6010D	8-24-23	8-24-23	
Barium	**24**	2.9	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.59	EPA 6010D	8-24-23	8-24-23	
Chromium	**7.8**	0.59	EPA 6010D	8-24-23	8-24-23	
Copper	**11**	1.2	EPA 6010D	8-24-23	8-24-23	
Lead	**ND**	5.9	EPA 6010D	8-24-23	8-24-23	
Mercury	**ND**	0.29	EPA 7471B	8-23-23	8-23-23	
Nickel	**7.7**	2.9	EPA 6010D	8-24-23	8-24-23	
Selenium	**ND**	12	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.2	EPA 6010D	8-24-23	8-24-23	
Zinc	**22**	2.9	EPA 6010D	8-24-23	8-24-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824SM3					
Arsenic	**ND**	10	EPA 6010D	8-24-23	8-24-23	
Barium	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Cadmium	**ND**	0.50	EPA 6010D	8-24-23	8-24-23	
Chromium	**ND**	0.50	EPA 6010D	8-24-23	8-24-23	
Copper	**ND**	1.0	EPA 6010D	8-24-23	8-24-23	
Lead	**ND**	5.0	EPA 6010D	8-24-23	8-24-23	
Nickel	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Selenium	**ND**	10	EPA 6010D	8-24-23	8-24-23	
Silver	**ND**	1.0	EPA 6010D	8-24-23	8-24-23	
Zinc	**ND**	2.5	EPA 6010D	8-24-23	8-24-23	
Laboratory ID:	MB0823S1					
Mercury	**ND**	0.25	EPA 7471B	8-23-23	8-23-23	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-266-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**44.2**	**42.8**	NA	NA		NA		NA	3	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**20.3**	**17.5**	NA	NA		NA		NA	15	20	
Copper	**20.6**	**19.0**	NA	NA		NA		NA	8	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**25.4**	**24.0**	NA	NA		NA		NA	6	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**28.7**	**27.5**	NA	NA		NA		NA	4	20	
Laboratory ID:	08-218-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	08-266-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**99.9**	**99.3**	100	100	ND	**100**	**99**	75-125	1	20	
Barium	**147**	**148**	100	100	44.2	**103**	**104**	75-125	1	20	
Cadmium	**47.2**	**46.9**	50.0	50.0	ND	**94**	**94**	75-125	1	20	
Chromium	**119**	**120**	100	100	20.3	**98**	**99**	75-125	1	20	
Copper	**69.5**	**69.5**	50.0	50.0	20.6	**98**	**98**	75-125	0	20	
Lead	**249**	**248**	250	250	ND	**100**	**99**	75-125	0	20	
Nickel	**120**	**121**	100	100	25.4	**95**	**95**	75-125	0	20	
Selenium	**95.9**	**96.3**	100	100	ND	**96**	**96**	75-125	0	20	
Silver	**23.5**	**22.9**	25.0	25.0	ND	**94**	**91**	75-125	3	20	
Zinc	**129**	**130**	100	100	28.7	**100**	**101**	75-125	1	20	
Laboratory ID:	08-218-01										
Mercury	**0.507**	**0.509**	0.500	0.500	0.0124	**99**	**99**	80-120	0	20	

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Date of Report: August 31, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250
Project: Jorgensen UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-piping-SS-24-2.0-082123	08-250-01	**18**	8-28-23
NT-piping-SS-25-2.0-082123	08-250-02	**17**	8-28-23
NT-piping-SS-26-2.0-082123	08-250-03	**16**	8-28-23
NT-SS-29-6.5-082223	08-250-04	**13**	8-28-23
NT-SS-30-6.5-082223	08-250-05	**13**	8-28-23
NT-SS-31-6.5-082223	08-250-06	**13**	8-28-23
NT-SS-32-6.5-082223	08-250-07	**17**	8-28-23
NT-SS-33-6.5-082223	08-250-08	**18**	8-28-23
NT-SS-34-6.5-082223	08-250-09	**16**	8-28-23
NT-SS-35-6.5-082223	08-250-10	**15**	8-23-23
NT-SS-Dup-1-082223	08-250-11	**15**	8-23-23
ST-SS-8-8.5-082223	08-250-12	**21**	8-28-23
ST-SS-7-8.5-082223	08-250-13	**20**	8-28-23
ST-SS-6-8.5-082223	08-250-14	**19**	8-28-23
ST-SS-1-8.5-082223	08-250-15	**25**	8-28-23
ST-SS-2-8.5-082223	08-250-16	**24**	8-28-23
ST-SS-Dup-2-082223	08-250-17	**25**	8-28-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
- ☐ 2 Day ☐ 3 Day
- ☒ Standard 5-day (Hydrocarbon analyses: 5 days, All other analyses: 7 days)
- ☐ _____ (other)

Company: DH Environmental

Project No.:

Project Name: Jorgensen UST Site Assessment

Project Manager: N. Moxley

Project Manager:

Laboratory No. 08-250

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by ~~8260B~~ 8260D EDB/EDC/MTBE/BTEX	Halogenated Volatiles by ~~8260B~~ 8260D	Semivolatiles by 8270C	PAHs by ~~8270C~~ cPAHs/naphthalene 8270E/SIM	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8) + Cu, Ni, Zn	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	NT-piping-SS-24-2.0-082123	8/21/23	1110	Soil	5		X	X																X
2	NT-piping-SS-25-2.0-082123	↓	1115	↓	↓		↓	↓																↓
3	NT-piping-SS-26-2.0-082123		1120																					
4	NT-SS-29-6.5-082223	8/22/23	1200																					
5	NT-SS-30-6.5-082223		1150																					
6	NT-SS-31-6.5-082223		1140																					
7	NT-SS-32-6.5-082223		1130																					
8	NT-SS-33-6.5-082223		1120																					
9	NT-SS-34-6.5-082223		1110																					
10	NT-SS-35-6.5-082223		1100						X	X		X	X			X								
11	NT-SS-Dup-1-082223		0900						X	X		X	X			X								
12	ST-SS-8-8.5-082223	↓	1230	↓	↓		↓	↓																↓

RELINQUISHED BY	DATE	RECEIVED BY	DATE
DHE	8/22/23	Nichelle Biffle	8/22/23
FIRM	TIME	FIRM	TIME
DHE	1635	OSE	1635
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
~~Std~~ Nm
- Please report lowest possible reporting limits
- Samples may have high petroleum concentrations

Chromatographs with final report ☐

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard 5-day
(Hydrocarbon analyses: 5 days, All other analyses: 7 days)

☐ _____ (other)

Project Manager:

Laboratory No. 08-250

Company: DH Environmental

Project No.:

Project Name: Jorgensen UST Site Assessment

Project Manager: N. Moxley

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/~~BTEX~~	NWTPH-Dx	Volatiles by ~~8200~~ 8260 EDB/EDC/MTBE/BTEX	Halogenated Volatiles by ~~8260~~ 8260	Semivolatiles by 8270C	PAHs by 8270C	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
13	ST-SS-7-8.5-082223	8/22/23	1240	Soil	5		X	X																X
14	ST-SS-6-8.5-082223		1250																					
15	ST-SS-1-8.5-082223		1310																					
16	ST-SS-2-8.5-082223		1320																					
17	ST-SS-Dup-2-082223		0930																					
18	Trip Blank	8/22/23	1500	Water	3		X		X	X														

RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM: DHE	TIME: 1635	FIRM: OSE	TIME: 1635
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:

Chromatographs with final report ☐

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OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 20, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Jorgensen UST Site Assessment
Laboratory Reference No. 2308-250B

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 22, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

Case Narrative

Samples were collected on August 21 and 22, 2023 and received by the laboratory on August 22, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The percent recovery for 1,1-Dichloropropene and 1,2,4-Trichlorobenzene is outside the control limits in the Spike Blank and Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The client requested the analysis of sample NT-piping-SS-24-2.0-082123 after the holding time had expired.

PAHs EPA 8270E/SIM Analysis

Sample NT-SS-31-6.5-082223 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

The client requested the analysis of sample NT-piping-SS-24-2.0-082123 after the holding time had expired.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Chromium is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results

The Matrix Spike/ Matrix Spike Duplicate recoveries for Chromium are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 99%

Due to the high concentration of Nickel in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 102%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.0090	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.0015	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.0079	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.0058	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.0058	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.0075	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.012	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Toluene	ND	0.0058	EPA 8260D	9-5-23	9-5-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	ND	0.0023	EPA 8260D	9-5-23	9-5-23	
o-Xylene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.0058	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.058	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.29	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-130*				
Toluene-d8	*87*	*78-128*				
4-Bromofluorobenzene	*90*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.0063	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.0011	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.0056	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.0041	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.0041	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.0053	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.0082	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Toluene	ND	0.0041	EPA 8260D	9-5-23	9-5-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	ND	0.00082	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	0.0040	0.0016	EPA 8260D	9-5-23	9-5-23	
o-Xylene	0.0044	0.00082	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.0041	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.054	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.27	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.27	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.054	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*85*	*75-130*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*108*	*71-130*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Dichlorodifluoromethane	ND	0.077	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.40	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.067	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.35	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.26	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.26	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.33	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.067	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.51	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Toluene	ND	0.26	EPA 8260D	9-5-23	9-5-23	

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Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
(trans) 1,3-Dichloropropene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	0.12	0.10	EPA 8260D	9-5-23	9-5-23	
o-Xylene	0.078	0.051	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.26	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.051	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.26	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.051	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-130*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Dichlorodifluoromethane	ND	0.092	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.47	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.079	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.42	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.31	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.31	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.39	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.079	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.61	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Toluene	0.33	0.31	EPA 8260D	9-5-23	9-5-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
(trans) 1,3-Dichloropropene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	0.80	0.061	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	4.6	0.12	EPA 8260D	9-5-23	9-5-23	
o-Xylene	1.9	0.061	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.31	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.061	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.31	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.31	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.061	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*84*	*75-130*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.0072	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.0064	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.0047	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.0047	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.0060	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.0094	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Toluene	ND	0.0047	EPA 8260D	9-5-23	9-5-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	0.0060	0.0019	EPA 8260D	9-5-23	9-5-23	
o-Xylene	0.0036	0.00094	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.0047	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.0047	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0905S1					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	9-5-23	9-5-23	
Chloromethane	ND	0.0077	EPA 8260D	9-5-23	9-5-23	
Vinyl Chloride	ND	0.0013	EPA 8260D	9-5-23	9-5-23	
Bromomethane	ND	0.0068	EPA 8260D	9-5-23	9-5-23	
Chloroethane	ND	0.0050	EPA 8260D	9-5-23	9-5-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Iodomethane	ND	0.0050	EPA 8260D	9-5-23	9-5-23	
Methylene Chloride	ND	0.0064	EPA 8260D	9-5-23	9-5-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Chloroform	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	9-5-23	9-5-23	
Benzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
2-Chloroethyl Vinyl Ether	ND	0.010	EPA 8260D	9-5-23	9-5-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Toluene	ND	0.0050	EPA 8260D	9-5-23	9-5-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0905S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-5-23	9-5-23	
o-Xylene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Bromoform	ND	0.0050	EPA 8260D	9-5-23	9-5-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-5-23	9-5-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-5-23	9-5-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0905S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0341**	**0.0327**	0.0500	0.0500	68	65	30-160	4	26	
Chloromethane	**0.0326**	**0.0317**	0.0500	0.0500	65	63	59-131	3	26	
Vinyl Chloride	**0.0371**	**0.0356**	0.0500	0.0500	74	71	68-136	4	23	
Bromomethane	**0.0366**	**0.0366**	0.0500	0.0500	73	73	48-155	0	32	
Chloroethane	**0.0416**	**0.0392**	0.0500	0.0500	83	78	67-141	6	16	
Trichlorofluoromethane	**0.0463**	**0.0437**	0.0500	0.0500	93	87	76-127	6	19	
1,1-Dichloroethene	**0.0430**	**0.0402**	0.0500	0.0500	86	80	75-129	7	19	
Iodomethane	**0.0424**	**0.0371**	0.0500	0.0500	85	74	37-140	13	27	
Methylene Chloride	**0.0388**	**0.0386**	0.0500	0.0500	78	77	60-124	1	18	
(trans) 1,2-Dichloroethene	**0.0442**	**0.0408**	0.0500	0.0500	88	82	79-133	8	15	
Methyl t-Butyl Ether	**0.0426**	**0.0398**	0.0500	0.0500	85	80	73-125	7	17	
1,1-Dichloroethane	**0.0436**	**0.0412**	0.0500	0.0500	87	82	79-125	6	17	
2,2-Dichloropropane	**0.0504**	**0.0465**	0.0500	0.0500	101	93	79-126	8	18	
(cis) 1,2-Dichloroethene	**0.0407**	**0.0436**	0.0500	0.0500	81	87	75-131	7	15	
Bromochloromethane	**0.0456**	**0.0445**	0.0500	0.0500	91	89	80-126	2	15	
Chloroform	**0.0436**	**0.0410**	0.0500	0.0500	87	82	80-123	6	15	
1,1,1-Trichloroethane	**0.0418**	**0.0389**	0.0500	0.0500	84	78	78-124	7	21	
Carbon Tetrachloride	**0.0401**	**0.0395**	0.0500	0.0500	80	79	74-127	2	18	
1,1-Dichloropropene	**0.0372**	**0.0368**	0.0500	0.0500	74	74	80-123	1	15	I,I
Benzene	**0.0435**	**0.0408**	0.0500	0.0500	87	82	80-122	6	18	
1,2-Dichloroethane	**0.0449**	**0.0413**	0.0500	0.0500	90	83	75-124	8	15	
Trichloroethene	**0.0514**	**0.0490**	0.0500	0.0500	103	98	80-129	5	18	
1,2-Dichloropropane	**0.0491**	**0.0472**	0.0500	0.0500	98	94	80-123	4	15	
Dibromomethane	**0.0462**	**0.0448**	0.0500	0.0500	92	90	80-123	3	15	
Bromodichloromethane	**0.0503**	**0.0480**	0.0500	0.0500	101	96	80-129	5	15	
(cis) 1,3-Dichloropropene	**0.0508**	**0.0486**	0.0500	0.0500	102	97	80-130	4	15	
Toluene	**0.0466**	**0.0449**	0.0500	0.0500	93	90	80-120	4	18	
(trans) 1,3-Dichloropropene	**0.0568**	**0.0544**	0.0500	0.0500	114	109	80-124	4	15	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0905S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0487**	**0.0467**	0.0500	0.0500	97	93	80-120	4	15	
Tetrachloroethene	**0.0595**	**0.0600**	0.0500	0.0500	119	120	77-126	1	15	
1,3-Dichloropropane	**0.0521**	**0.0517**	0.0500	0.0500	104	103	77-123	1	15	
Dibromochloromethane	**0.0555**	**0.0531**	0.0500	0.0500	111	106	80-128	4	16	
1,2-Dibromoethane	**0.0536**	**0.0487**	0.0500	0.0500	107	97	80-122	10	20	
Chlorobenzene	**0.0534**	**0.0523**	0.0500	0.0500	107	105	80-120	2	18	
1,1,1,2-Tetrachloroethane	**0.0527**	**0.0497**	0.0500	0.0500	105	99	80-120	6	15	
Ethylbenzene	**0.0539**	**0.0532**	0.0500	0.0500	108	106	80-120	1	15	
m,p-Xylene	**0.107**	**0.104**	0.100	0.100	107	104	80-120	3	15	
o-Xylene	**0.0541**	**0.0531**	0.0500	0.0500	108	106	80-120	2	15	
Bromoform	**0.0537**	**0.0517**	0.0500	0.0500	107	103	78-126	4	15	
Bromobenzene	**0.0548**	**0.0555**	0.0500	0.0500	110	111	79-124	1	15	
1,1,2,2-Tetrachloroethane	**0.0536**	**0.0519**	0.0500	0.0500	107	104	75-122	3	17	
1,2,3-Trichloropropane	**0.0529**	**0.0508**	0.0500	0.0500	106	102	72-125	4	20	
2-Chlorotoluene	**0.0614**	**0.0596**	0.0500	0.0500	123	119	75-128	3	15	
4-Chlorotoluene	**0.0590**	**0.0586**	0.0500	0.0500	118	117	78-127	1	16	
1,3-Dichlorobenzene	**0.0595**	**0.0590**	0.0500	0.0500	119	118	78-123	1	17	
1,4-Dichlorobenzene	**0.0599**	**0.0587**	0.0500	0.0500	120	117	77-121	2	17	
1,2-Dichlorobenzene	**0.0569**	**0.0564**	0.0500	0.0500	114	113	80-120	1	15	
1,2-Dibromo-3-chloropropane	**0.0610**	**0.0578**	0.0500	0.0500	122	116	61-137	5	28	
1,2,4-Trichlorobenzene	**0.0659**	**0.0661**	0.0500	0.0500	132	132	77-127	0	17	I,I
Hexachlorobutadiene	**0.0582**	**0.0601**	0.0500	0.0500	116	120	77-125	3	22	
1,2,3-Trichlorobenzene	**0.0592**	**0.0607**	0.0500	0.0500	118	121	77-124	3	19	
Surrogate:										
Dibromofluoromethane					*84*	*84*	*75-130*			
Toluene-d8					*92*	*94*	*78-128*			
4-Bromofluorobenzene					*100*	*103*	*71-130*			

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Naphthalene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
2-Methylnaphthalene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
1-Methylnaphthalene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[a]anthracene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Chrysene	**0.038**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[b]fluoranthene	**0.056**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo(j,k)fluoranthene	**0.062**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[a]pyrene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Dibenz[a,h]anthracene	**ND**	0.033	EPA 8270E/SIM	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*39-111*				
Pyrene-d10	*79*	*47-114*				
Terphenyl-d14	*84*	*44-121*				

Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Naphthalene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
2-Methylnaphthalene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
1-Methylnaphthalene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]anthracene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Chrysene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo(j,k)fluoranthene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]pyrene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Dibenz[a,h]anthracene	**ND**	0.15	EPA 8270E/SIM	9-5-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*81*	*39-111*				
Pyrene-d10	*110*	*47-114*				
Terphenyl-d14	*122*	*44-121*				Q

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Naphthalene	**0.25**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
2-Methylnaphthalene	**0.17**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
1-Methylnaphthalene	**11**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]anthracene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Chrysene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo(j,k)fluoranthene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]pyrene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Dibenz[a,h]anthracene	**ND**	0.16	EPA 8270E/SIM	9-5-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*97*	*39-111*				
Pyrene-d10	*109*	*47-114*				
Terphenyl-d14	*94*	*44-121*				
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Naphthalene	**2.9**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
2-Methylnaphthalene	**21**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
1-Methylnaphthalene	**17**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]anthracene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Chrysene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo(j,k)fluoranthene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]pyrene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Dibenz[a,h]anthracene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*77*	*39-111*				
Pyrene-d10	*100*	*47-114*				
Terphenyl-d14	*93*	*44-121*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Naphthalene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
2-Methylnaphthalene	**0.66**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
1-Methylnaphthalene	**1.0**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]anthracene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Chrysene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo(j,k)fluoranthene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Benzo[a]pyrene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Dibenz[a,h]anthracene	**ND**	0.17	EPA 8270E/SIM	9-5-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39-111*				
Pyrene-d10	*102*	*47-114*				
Terphenyl-d14	*96*	*44-121*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0905S1					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*39-111*				
Pyrene-d10	*90*	*47-114*				
Terphenyl-d14	*81*	*44-121*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0905S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0610**	**0.0623**	0.0833	0.0833	73	75	57-116	2	16	
Acenaphthylene	**0.0624**	**0.0649**	0.0833	0.0833	75	78	59-124	4	15	
Acenaphthene	**0.0610**	**0.0630**	0.0833	0.0833	73	76	59-124	3	15	
Fluorene	**0.0637**	**0.0664**	0.0833	0.0833	76	80	62-122	4	15	
Phenanthrene	**0.0650**	**0.0679**	0.0833	0.0833	78	82	62-119	4	15	
Anthracene	**0.0696**	**0.0722**	0.0833	0.0833	84	87	64-123	4	15	
Fluoranthene	**0.0743**	**0.0770**	0.0833	0.0833	89	92	63-123	4	15	
Pyrene	**0.0719**	**0.0743**	0.0833	0.0833	86	89	62-124	3	15	
Benzo[a]anthracene	**0.0786**	**0.0804**	0.0833	0.0833	94	97	59-131	2	15	
Chrysene	**0.0784**	**0.0804**	0.0833	0.0833	94	97	61-124	3	15	
Benzo[b]fluoranthene	**0.0769**	**0.0832**	0.0833	0.0833	92	100	60-126	8	15	
Benzo(j,k)fluoranthene	**0.0861**	**0.0827**	0.0833	0.0833	103	99	63-121	4	17	
Benzo[a]pyrene	**0.0804**	**0.0818**	0.0833	0.0833	97	98	60-122	2	15	
Indeno(1,2,3-c,d)pyrene	**0.0812**	**0.0832**	0.0833	0.0833	97	100	58-127	2	15	
Dibenz[a,h]anthracene	**0.0839**	**0.0855**	0.0833	0.0833	101	103	60-124	2	15	
Benzo[g,h,i]perylene	**0.0845**	**0.0865**	0.0833	0.0833	101	104	58-124	2	15	
Surrogate:										
2-Fluorobiphenyl					*73*	*74*	*39-111*			
Pyrene-d10					*94*	*96*	*47-114*			
Terphenyl-d14					*87*	*88*	*44-121*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Aroclor 1016	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1221	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1232	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1242	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1248	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1254	**0.29**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1260	**0.23**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1262	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Aroclor 1268	**ND**	0.061	EPA 8082A	9-6-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*81*	*50-127*				
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Aroclor 1016	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1221	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1232	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1242	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1248	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1254	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1260	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1262	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Aroclor 1268	**ND**	0.058	EPA 8082A	9-6-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*53*	*50-127*				
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Aroclor 1016	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1221	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1232	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1242	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1248	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1254	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1260	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1262	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Aroclor 1268	**ND**	0.060	EPA 8082A	9-6-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*72*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Aroclor 1016	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1221	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1232	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1242	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1248	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1254	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1260	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1262	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Aroclor 1268	**ND**	0.063	EPA 8082A	9-6-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*71*	*50-127*				
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Aroclor 1016	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1221	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1232	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1242	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1248	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1254	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1260	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1262	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Aroclor 1268	**ND**	0.062	EPA 8082A	9-6-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*50-127*				

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0906S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-6-23	9-6-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0906S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.440**	**0.457**	0.500	0.500	N/A	**88**	**91**	55-119	4	34	
Surrogate:											
DCB						*87*	*92*	*50-127*			

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-piping-SS-24-2.0-082123**					
Laboratory ID:	08-250-01					
Arsenic	**27**	12	EPA 6010D	9-13-23	9-13-23	
Barium	**65**	3.1	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.61	EPA 6010D	9-13-23	9-13-23	
Chromium	**100**	0.61	EPA 6010D	9-13-23	9-13-23	
Copper	**150**	1.2	EPA 6010D	9-14-23	9-15-23	
Lead	**140**	6.1	EPA 6010D	9-13-23	9-13-23	
Mercury	**ND**	0.31	EPA 7471B	9-8-23	9-8-23	
Nickel	**910**	31	EPA 6010D	9-14-23	9-18-23	
Selenium	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.2	EPA 6010D	9-13-23	9-13-23	
Zinc	**190**	3.1	EPA 6010D	9-13-23	9-13-23	
Client ID:	**NT-SS-31-6.5-082223**					
Laboratory ID:	08-250-06					
Arsenic	**39**	12	EPA 6010D	9-13-23	9-13-23	
Barium	**26**	2.9	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.58	EPA 6010D	9-13-23	9-13-23	
Chromium	**7.2**	0.58	EPA 6010D	9-13-23	9-13-23	
Copper	**17**	1.2	EPA 6010D	9-14-23	9-19-23	
Lead	**ND**	5.8	EPA 6010D	9-13-23	9-13-23	
Mercury	**ND**	0.29	EPA 7471B	9-8-23	9-8-23	
Nickel	**12**	2.9	EPA 6010D	9-14-23	9-19-23	
Selenium	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.2	EPA 6010D	9-13-23	9-13-23	
Zinc	**19**	2.9	EPA 6010D	9-13-23	9-13-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-34-6.5-082223**					
Laboratory ID:	08-250-09					
Arsenic	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Barium	**24**	3.0	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.60	EPA 6010D	9-13-23	9-13-23	
Chromium	**7.0**	0.60	EPA 6010D	9-13-23	9-13-23	
Copper	**11**	1.2	EPA 6010D	9-14-23	9-18-23	
Lead	**ND**	6.0	EPA 6010D	9-13-23	9-13-23	
Mercury	**ND**	0.30	EPA 7471B	9-8-23	9-8-23	
Nickel	**8.1**	3.0	EPA 6010D	9-14-23	9-18-23	
Selenium	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.2	EPA 6010D	9-13-23	9-13-23	
Zinc	**21**	3.0	EPA 6010D	9-13-23	9-13-23	
Client ID:	**ST-SS-8-8.5-082223**					
Laboratory ID:	08-250-12					
Arsenic	**ND**	13	EPA 6010D	9-13-23	9-13-23	
Barium	**28**	3.2	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.63	EPA 6010D	9-13-23	9-13-23	
Chromium	**7.9**	0.63	EPA 6010D	9-13-23	9-13-23	
Copper	**10**	1.3	EPA 6010D	9-14-23	9-18-23	
Lead	**ND**	6.3	EPA 6010D	9-13-23	9-13-23	
Mercury	**ND**	0.32	EPA 7471B	9-8-23	9-8-23	
Nickel	**7.6**	3.2	EPA 6010D	9-14-23	9-18-23	
Selenium	**ND**	13	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.3	EPA 6010D	9-13-23	9-13-23	
Zinc	**23**	3.2	EPA 6010D	9-13-23	9-13-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-7-8.5-082223**					
Laboratory ID:	08-250-13					
Arsenic	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Barium	**23**	3.1	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.62	EPA 6010D	9-13-23	9-13-23	
Chromium	**7.7**	0.62	EPA 6010D	9-13-23	9-13-23	
Copper	**8.1**	1.2	EPA 6010D	9-14-23	9-18-23	
Lead	**ND**	6.2	EPA 6010D	9-13-23	9-13-23	
Mercury	**ND**	0.31	EPA 7471B	9-8-23	9-8-23	
Nickel	**6.5**	3.1	EPA 6010D	9-14-23	9-18-23	
Selenium	**ND**	12	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.2	EPA 6010D	9-13-23	9-13-23	
Zinc	**19**	3.1	EPA 6010D	9-13-23	9-13-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913SM2					
Arsenic	**ND**	10	EPA 6010D	9-13-23	9-13-23	
Barium	**ND**	2.5	EPA 6010D	9-13-23	9-13-23	
Cadmium	**ND**	0.50	EPA 6010D	9-13-23	9-13-23	
Chromium	**ND**	0.50	EPA 6010D	9-13-23	9-13-23	
Lead	**ND**	5.0	EPA 6010D	9-13-23	9-13-23	
Selenium	**ND**	10	EPA 6010D	9-13-23	9-13-23	
Silver	**ND**	1.0	EPA 6010D	9-13-23	9-13-23	
Zinc	**ND**	2.5	EPA 6010D	9-13-23	9-13-23	
Laboratory ID:	MB0908S2					
Mercury	**ND**	0.25	EPA 7471B	9-8-23	9-8-23	
Laboratory ID:	MB0914SM1					
Copper	**ND**	1.0	EPA 6010D	9-14-23	9-15-23	
Nickel	**ND**	2.5	EPA 6010D	9-14-23	9-15-23	

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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-250-01									
	ORIG	DUP								
Arsenic	**22.2**	**20.0**	NA	NA		NA	NA	10	20	
Barium	**53.4**	**55.3**	NA	NA		NA	NA	3	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**82.4**	**51.4**	NA	NA		NA	NA	46	20	K
Lead	**117**	**136**	NA	NA		NA	NA	15	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**159**	**160**	NA	NA		NA	NA	1	20	
Laboratory ID:	09-037-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-250-01									
	ORIG	DUP								
Copper	**124**	**128**	NA	NA		NA	NA	3	20	
Nickel	**741**	**761**	NA	NA		NA	NA	3	20	
MATRIX SPIKES										
Laboratory ID:	08-250-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**117**	**116**	100	100	22.2	**95**	**94**	75-125	1	20	
Barium	**155**	**149**	100	100	53.4	**102**	**96**	75-125	4	20	
Cadmium	**45.0**	**45.4**	50.0	50.0	ND	**90**	**91**	75-125	1	20	
Chromium	**150**	**144**	100	100	82.4	**67**	**62**	75-125	4	20	V
Lead	**359**	**352**	250	250	117	**97**	**94**	75-125	2	20	
Selenium	**91.4**	**92.5**	100	100	ND	**91**	**93**	75-125	1	20	
Silver	**23.6**	**23.7**	25.0	25.0	ND	**94**	**95**	75-125	1	20	
Zinc	**260**	**248**	100	100	159	**101**	**89**	75-125	5	20	
Laboratory ID:	09-037-01									
Mercury	**0.515**	**0.524**	0.500	0.500	0.0352	**96**	**98**	80-120	2	20	
Laboratory ID:	08-250-01									
	MS	MSD	MS	MSD		MS	MSD			
Copper	**179**	**166**	50.0	50.0	124	**111**	**85**	75-125	7	20	
Nickel	**812**	**815**	100	100	741	**71**	**74**	75-125	0	20	A

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 20, 2023
Samples Submitted: August 22, 2023
Laboratory Reference: 2308-250B
Project: Jorgensen UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-piping-SS-24-2.0-082123	08-250-01	**18**	8-28-23
NT-SS-31-6.5-082223	08-250-06	**13**	8-28-23
NT-SS-34-6.5-082223	08-250-09	**16**	8-28-23
ST-SS-8-8.5-082223	08-250-12	**21**	8-28-23
ST-SS-7-8.5-082223	08-250-13	**20**	8-28-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard 5-day
(Hydrocarbon analyses: 5 days, All other analyses: 7 days)

☐ _____ (other)

Project Manager:

Laboratory No. 08-250

Company: DH Environmental

Project No.:

Project Name: Jorgensen UST Site Assessment

Project Manager: N. Moxley

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by ~~8260B~~ 8260D EDB/EDC/MTBE/BTEX	Halogenated Volatiles by ~~8010B~~ 8260D	Semivolatiles by 8270C	PAHs by ~~8270C~~ cPAHs/naphthalene 8270E/SIM	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8) + Cu, Ni, Zn	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
1	NT-piping-SS-24-2.0-082123	8/21/23	1110	Soil	5		X	X	⊗	⊗		⊗	⊗			⊗									X
2	NT-piping-SS-25-2.0-082123	↓	1115	↓	↓		↓	↓																	↓
3	NT-piping-SS-26-2.0-082123		1120																						
4	NT-SS-29-6.5-082223	8/22/23	1200																						
5	NT-SS-30-6.5-082223		1150																						
6	NT-SS-31-6.5-082223		1140						⊗	⊗		⊗	⊗			⊗									
7	NT-SS-32-6.5-082223		1130																						
8	NT-SS-33-6.5-082223		1120																						
9	NT-SS-34-6.5-082223		1110						⊗	⊗		⊗	⊗			⊗									
10	NT-SS-35-6.5-082223		1100						X	X		X	X			X									
11	NT-SS-Dup-1-082223		0900						X	X		X	X			X									
12	ST-SS-8-8.5-082223	↓	1230	↓	↓		↓	↓	⊗	⊗		⊗	⊗			⊗									↓

RELINQUISHED BY	DATE	RECEIVED BY	DATE
	8/22/23	Nichelle Biffle	8/22/23
FIRM DHE	TIME 1635	FIRM OSE	TIME 1635
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:
~~Nm~~
- Please report lowest possible reporting limits
- Samples may have high petroleum concentrations
⊗ - Added 9/5/23 NB (STA)

Chromatographs with final report ☐ EIM-EDDs

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

Chain of Custody

OnSite Environmental Inc.
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard 5-day
(Hydrocarbon analyses: 5 days, All other analyses: 7 days)
☐ _____ (other)

Project Manager:

Laboratory No. 08-250

Company: DH Environmental
Project No.:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by ~~8200B~~ 8260B EDB/EDC/MTBE/BTEX	Halogenated Volatiles by ~~8000B~~ 8260B	Semivolatiles by 8270C	PAHs by 8270C cPAHs, Naphthalenes	PCB's by 8082	Pesticides by 8081	Herbicides by 8151A	Total RCRA Metals (8)+Cu,Ni,Zn	Priority Pollutant Metals (13)	TCLP Metals	VPH	EPH					% Moisture
13	ST-SS-7-8.5-082223	8/22/23	1240	Soil	5		X	X	⊗	⊗		⊗	⊗			⊗									X
14	ST-SS-6-8.5-082223		1250																						
15	ST-SS-1-8.5-082223		1310																						
16	ST-SS-2-8.5-082223		1320																						
17	ST-SS-Dup-2-082223		0930																						
18	Trip Blank	8/22/23	1500	Water	3		X		X	X															

RELINQUISHED BY	DATE	RECEIVED BY	DATE
	8/22/23	Nichelle Bafus	8/22/23
FIRM: DHE	TIME: 1635	FIRM: OSE	TIME: 1635
RELINQUISHED BY	DATE	RECEIVED BY	DATE
FIRM	TIME	FIRM	TIME
REVIEWED BY		DATE REVIEWED	

COMMENTS:

Chromatographs with final report ☐

DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 5, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge UST Site Assessment
Laboratory Reference No. 2308-315

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

Case Narrative

Samples were collected on August 28, 2023 and received by the laboratory on August 29, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Gasoline Range Organics	**480**	5.0	NWTPH-Gx	8-29-23	8-29-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Gasoline Range Organics	**180**	5.7	NWTPH-Gx	8-29-23	8-29-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Client ID:	**NT-SS-19-5.0-082823**					
Laboratory ID:	08-315-03					
Gasoline	**ND**	6.2	NWTPH-Gx	8-29-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-126*				
Client ID:	**NT-SS-16-5.0-082823**					
Laboratory ID:	08-315-04					
Gasoline	**ND**	6.0	NWTPH-Gx	8-29-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				
Client ID:	**NT-SS-15-5.0-082823**					
Laboratory ID:	08-315-05					
Gasoline Range Organics	**110**	5.1	NWTPH-Gx	8-29-23	8-29-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*65-126*				

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Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829S2					
Gasoline	**ND**	5.0	NWTPH-Gx	8-29-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-315-01										
	ORIG	DUP									
GRO	**413**	**372**	NA	NA		NA		NA	10	30	
Surrogate:											
Fluorobenzene						*83*	*85*	*65-126*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-315-06					
Gasoline	**ND**	100	NWTPH-Gx	8-30-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*65-122*				

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Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W1					
Gasoline	**ND**	100	NWTPH-Gx	8-30-23	8-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-276-10										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*91*	*89*	*65-122*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Diesel Range Organics	**25000**	2900	NWTPH-Dx	8-31-23	9-1-23	N
Lube Oil	**200000**	5900	NWTPH-Dx	8-31-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Diesel Range Organics	**2500**	310	NWTPH-Dx	8-31-23	9-1-23	N
Lube Oil	**21000**	620	NWTPH-Dx	8-31-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	---	*50-150*				S
Client ID:	**NT-SS-19-5.0-082823**					
Laboratory ID:	08-315-03					
Diesel Range Organics	**ND**	33	NWTPH-Dx	8-31-23	9-1-23	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	8-31-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**NT-SS-16-5.0-082823**					
Laboratory ID:	08-315-04					
Diesel Range Organics	**ND**	30	NWTPH-Dx	8-31-23	8-31-23	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	8-31-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				
Client ID:	**NT-SS-15-5.0-082823**					
Laboratory ID:	08-315-05					
Diesel Fuel #2	**210**	30	NWTPH-Dx	8-31-23	8-31-23	N
Lube Oil	**910**	60	NWTPH-Dx	8-31-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

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Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	8-31-23	8-31-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	8-31-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-315-01									
	ORIG	DUP								
Diesel Range Organics	**21400**	**18000**	NA	NA		NA	NA	17	40	
Lube Oil	**172000**	**141000**	NA	NA		NA	NA	20	40	
Surrogate:										
o-Terphenyl						---	---	*50-150*			S,S

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 5, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315
Project: Star Forge UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-SS-17-5.0-082823	08-315-01	**15**	8-31-23
NT-SS-18-5.0-082823	08-315-02	**19**	8-31-23
NT-SS-19-5.0-082823	08-315-03	**24**	8-31-23
NT-SS-16-5.0-082823	08-315-04	**17**	8-31-23
NT-SS-15-5.0-082823	08-315-05	**16**	8-31-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5 Days (other)

Laboratory Number: 08-315

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	NT-SS-17-5.0-082823	8/28/23	1200	S	5			X	X																		X
2	NT-SS-18-5.0-082823	↓	1330	↓	↓			↓	↓																		X
3	NT-SS-19-5.0-082823		1340																								X
4	NT-SS-16-5.0-082823		1415																								X
5	NT-SS-15-5.0-082823		1425																								X
6	Trip Blank			W	3			X																			

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8/28/23	1800
Received	Nichelle Buffin	OSE	8/29/23	0830
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Please report to lowest possible limits, but please be advised of potentially elevated petroleum concentrations

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 18, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge UST Site Assessment
Laboratory Reference No. 2308-315B

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

Case Narrative

Samples were collected on August 28, 2023 and received by the laboratory on August 29, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The percent recovery for Methylene Chloride, Bromobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene is outside the control limits in the Spike Blank and/or Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Some MTCA Method A cleanup levels are non-achievable for sample NT-SS-17-5.0-082823 due to the necessary dilution of the sample.

The value reported for o-Xylene in sample NT-SS-18-5.0-082823 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for o-Xylene.

Total Metals EPA 6010D/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Nickel are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 92%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Dichlorodifluoromethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Chloromethane	ND	0.25	EPA 8260D	9-7-23	9-7-23	
Vinyl Chloride	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Bromomethane	ND	0.25	EPA 8260D	9-7-23	9-7-23	
Chloroethane	ND	0.25	EPA 8260D	9-7-23	9-7-23	
Trichlorofluoromethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Iodomethane	ND	0.25	EPA 8260D	9-7-23	9-7-23	
Methylene Chloride	ND	0.25	EPA 8260D	9-7-23	9-7-23	
(trans) 1,2-Dichloroethene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Methyl t-Butyl Ether	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
2,2-Dichloropropane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
(cis) 1,2-Dichloroethene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Bromochloromethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Chloroform	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1,1-Trichloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Carbon Tetrachloride	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloropropene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Benzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Trichloroethene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloropropane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Dibromomethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Bromodichloromethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
2-Chloroethyl Vinyl Ether	ND	0.25	EPA 8260D	9-7-23	9-7-23	
(cis) 1,3-Dichloropropene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Toluene	ND	0.25	EPA 8260D	9-7-23	9-7-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
(trans) 1,3-Dichloropropene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1,2-Trichloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Tetrachloroethene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,3-Dichloropropane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Dibromochloromethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromoethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Chlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1,1,2-Tetrachloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Ethylbenzene	0.065	0.050	EPA 8260D	9-7-23	9-7-23	
m,p-Xylene	0.26	0.10	EPA 8260D	9-7-23	9-7-23	
o-Xylene	0.28	0.050	EPA 8260D	9-7-23	9-7-23	
Bromoform	ND	0.25	EPA 8260D	9-7-23	9-7-23	
Bromobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	9-7-23	9-7-23	
2-Chlorotoluene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
4-Chlorotoluene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	9-7-23	9-7-23	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Hexachlorobutadiene	ND	0.25	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	9-7-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*75-130*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*110*	*71-130*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Dichlorodifluoromethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Chloromethane	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
Vinyl Chloride	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Bromomethane	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
Chloroethane	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Iodomethane	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
Methylene Chloride	ND	0.0076	EPA 8260D	9-7-23	9-7-23	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethane	0.0030	0.00095	EPA 8260D	9-7-23	9-7-23	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
(cis) 1,2-Dichloroethene	0.0037	0.00095	EPA 8260D	9-7-23	9-7-23	
Bromochloromethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Chloroform	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Benzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Trichloroethene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Dibromomethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Bromodichloromethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Toluene	ND	0.0047	EPA 8260D	9-7-23	9-7-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Tetrachloroethene	0.0031	0.00095	EPA 8260D	9-7-23	9-7-23	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Dibromochloromethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Chlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Ethylbenzene	0.15	0.00095	EPA 8260D	9-7-23	9-7-23	
m,p-Xylene	0.12	0.0019	EPA 8260D	9-7-23	9-7-23	
o-Xylene	0.27	0.00095	EPA 8260D	9-7-23	9-7-23	E
Bromoform	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
Bromobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
2-Chlorotoluene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
4-Chlorotoluene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Hexachlorobutadiene	ND	0.0047	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	9-7-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-130*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Chloromethane	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Bromomethane	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
Chloroethane	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Iodomethane	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
Methylene Chloride	ND	0.0080	EPA 8260D	9-7-23	9-7-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Chloroform	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Benzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Toluene	ND	0.0050	EPA 8260D	9-7-23	9-7-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907S2					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-7-23	9-7-23	
o-Xylene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Bromoform	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-7-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-130*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0907S2									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0403**	**0.0404**	0.0500	0.0500	81	81	30-160	0	26	
Chloromethane	**0.0474**	**0.0475**	0.0500	0.0500	95	95	59-131	0	26	
Vinyl Chloride	**0.0486**	**0.0483**	0.0500	0.0500	97	97	68-136	1	23	
Bromomethane	**0.0506**	**0.0506**	0.0500	0.0500	101	101	48-155	0	32	
Chloroethane	**0.0453**	**0.0466**	0.0500	0.0500	91	93	67-141	3	16	
Trichlorofluoromethane	**0.0485**	**0.0493**	0.0500	0.0500	97	99	76-127	2	19	
1,1-Dichloroethene	**0.0473**	**0.0471**	0.0500	0.0500	95	94	75-129	0	19	
Iodomethane	**0.0445**	**0.0464**	0.0500	0.0500	89	93	37-140	4	27	
Methylene Chloride	**0.0959**	**0.0989**	0.0500	0.0500	192	198	60-124	3	18	I,I
(trans) 1,2-Dichloroethene	**0.0462**	**0.0472**	0.0500	0.0500	92	94	79-133	2	15	
Methyl t-Butyl Ether	**0.0444**	**0.0459**	0.0500	0.0500	89	92	73-125	3	17	
1,1-Dichloroethane	**0.0460**	**0.0460**	0.0500	0.0500	92	92	79-125	0	17	
2,2-Dichloropropane	**0.0457**	**0.0474**	0.0500	0.0500	91	95	79-126	4	18	
(cis) 1,2-Dichloroethene	**0.0459**	**0.0467**	0.0500	0.0500	92	93	75-131	2	15	
Bromochloromethane	**0.0456**	**0.0473**	0.0500	0.0500	91	95	80-126	4	15	
Chloroform	**0.0456**	**0.0474**	0.0500	0.0500	91	95	80-123	4	15	
1,1,1-Trichloroethane	**0.0468**	**0.0478**	0.0500	0.0500	94	96	78-124	2	21	
Carbon Tetrachloride	**0.0473**	**0.0495**	0.0500	0.0500	95	99	74-127	5	18	
1,1-Dichloropropene	**0.0472**	**0.0493**	0.0500	0.0500	94	99	80-123	4	15	
Benzene	**0.0466**	**0.0472**	0.0500	0.0500	93	94	80-122	1	18	
1,2-Dichloroethane	**0.0439**	**0.0452**	0.0500	0.0500	88	90	75-124	3	15	
Trichloroethene	**0.0502**	**0.0522**	0.0500	0.0500	100	104	80-129	4	18	
1,2-Dichloropropane	**0.0482**	**0.0505**	0.0500	0.0500	96	101	80-123	5	15	
Dibromomethane	**0.0474**	**0.0529**	0.0500	0.0500	95	106	80-123	11	15	
Bromodichloromethane	**0.0489**	**0.0518**	0.0500	0.0500	98	104	80-129	6	15	
(cis) 1,3-Dichloropropene	**0.0508**	**0.0537**	0.0500	0.0500	102	107	80-130	6	15	
Toluene	**0.0461**	**0.0499**	0.0500	0.0500	92	100	80-120	8	18	
(trans) 1,3-Dichloropropene	**0.0538**	**0.0574**	0.0500	0.0500	108	115	80-124	6	15	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0907S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0527**	**0.0571**	0.0500	0.0500	105	114	80-120	8	15	
Tetrachloroethene	**0.0584**	**0.0613**	0.0500	0.0500	117	123	77-126	5	15	
1,3-Dichloropropane	**0.0521**	**0.0560**	0.0500	0.0500	104	112	77-123	7	15	
Dibromochloromethane	**0.0552**	**0.0591**	0.0500	0.0500	110	118	80-128	7	16	
1,2-Dibromoethane	**0.0532**	**0.0586**	0.0500	0.0500	106	117	80-122	10	20	
Chlorobenzene	**0.0538**	**0.0560**	0.0500	0.0500	108	112	80-120	4	18	
1,1,1,2-Tetrachloroethane	**0.0536**	**0.0558**	0.0500	0.0500	107	112	80-120	4	15	
Ethylbenzene	**0.0554**	**0.0591**	0.0500	0.0500	111	118	80-120	6	15	
m,p-Xylene	**0.109**	**0.114**	0.100	0.100	109	114	80-120	4	15	
o-Xylene	**0.0542**	**0.0565**	0.0500	0.0500	108	113	80-120	4	15	
Bromoform	**0.0523**	**0.0566**	0.0500	0.0500	105	113	78-126	8	15	
Bromobenzene	**0.0599**	**0.0624**	0.0500	0.0500	120	125	79-124	4	15	I
1,1,2,2-Tetrachloroethane	**0.0552**	**0.0611**	0.0500	0.0500	110	122	75-122	10	17	
1,2,3-Trichloropropane	**0.0564**	**0.0610**	0.0500	0.0500	113	122	72-125	8	20	
2-Chlorotoluene	**0.0574**	**0.0609**	0.0500	0.0500	115	122	75-128	6	15	
4-Chlorotoluene	**0.0595**	**0.0636**	0.0500	0.0500	119	127	78-127	7	16	
1,3-Dichlorobenzene	**0.0567**	**0.0603**	0.0500	0.0500	113	121	78-123	6	17	
1,4-Dichlorobenzene	**0.0580**	**0.0608**	0.0500	0.0500	116	122	77-121	5	17	I
1,2-Dichlorobenzene	**0.0592**	**0.0611**	0.0500	0.0500	118	122	80-120	3	15	I
1,2-Dibromo-3-chloropropane	**0.0554**	**0.0658**	0.0500	0.0500	111	132	61-137	17	28	
1,2,4-Trichlorobenzene	**0.0620**	**0.0644**	0.0500	0.0500	124	129	77-127	4	17	I
Hexachlorobutadiene	**0.0564**	**0.0562**	0.0500	0.0500	113	112	77-125	0	22	
1,2,3-Trichlorobenzene	**0.0659**	**0.0683**	0.0500	0.0500	132	137	77-124	4	19	I,I
Surrogate:										
Dibromofluoromethane					*92*	*89*	*75-130*			
Toluene-d8					*94*	*93*	*78-128*			
4-Bromofluorobenzene					*100*	*101*	*71-130*			

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-315-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chloromethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromomethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Chloroethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Iodomethane	ND	7.5	EPA 8260D	9-7-23	9-7-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-7-23	9-7-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chloroform	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Benzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Trichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Dibromomethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Toluene	ND	1.0	EPA 8260D	9-7-23	9-7-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-315-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-7-23	9-7-23	
o-Xylene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromoform	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Bromobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*86*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chloromethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromomethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Chloroethane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Iodomethane	ND	7.5	EPA 8260D	9-7-23	9-7-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-7-23	9-7-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chloroform	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Benzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Trichloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Dibromomethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Toluene	ND	1.0	EPA 8260D	9-7-23	9-7-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-7-23	9-7-23	

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Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-7-23	9-7-23	
o-Xylene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Bromoform	ND	1.0	EPA 8260D	9-7-23	9-7-23	
Bromobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-7-23	9-7-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-7-23	9-7-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-7-23	9-7-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-7-23	9-7-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0907W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**11.8**	**11.1**	10.0	10.0	118	111	34-166	6	21	
Chloromethane	**10.5**	**10.1**	10.0	10.0	105	101	63-138	4	18	
Vinyl Chloride	**10.1**	**9.56**	10.0	10.0	101	96	71-135	5	20	
Bromomethane	**9.19**	**10.7**	10.0	10.0	92	107	20-151	15	36	
Chloroethane	**8.90**	**8.80**	10.0	10.0	89	88	76-125	1	20	
Trichlorofluoromethane	**9.33**	**9.29**	10.0	10.0	93	93	75-131	0	19	
1,1-Dichloroethene	**9.57**	**9.40**	10.0	10.0	96	94	78-125	2	19	
Iodomethane	**6.69**	**7.28**	10.0	10.0	67	73	10-155	8	40	
Methylene Chloride	**8.37**	**8.87**	10.0	10.0	84	89	80-120	6	15	
(trans) 1,2-Dichloroethene	**9.63**	**9.41**	10.0	10.0	96	94	80-125	2	17	
Methyl t-Butyl Ether	**9.73**	**9.14**	10.0	10.0	97	91	80-122	6	15	
1,1-Dichloroethane	**9.30**	**9.15**	10.0	10.0	93	92	80-125	2	17	
2,2-Dichloropropane	**11.7**	**11.7**	10.0	10.0	117	117	80-146	0	21	
(cis) 1,2-Dichloroethene	**9.50**	**9.48**	10.0	10.0	95	95	80-129	0	17	
Bromochloromethane	**9.75**	**9.35**	10.0	10.0	98	94	80-125	4	18	
Chloroform	**9.44**	**9.30**	10.0	10.0	94	93	80-123	1	16	
1,1,1-Trichloroethane	**9.50**	**9.13**	10.0	10.0	95	91	80-123	4	18	
Carbon Tetrachloride	**9.66**	**9.40**	10.0	10.0	97	94	80-126	3	17	
1,1-Dichloropropene	**9.16**	**8.91**	10.0	10.0	92	89	80-126	3	18	
Benzene	**9.35**	**9.11**	10.0	10.0	94	91	80-121	3	16	
1,2-Dichloroethane	**9.81**	**9.23**	10.0	10.0	98	92	80-124	6	15	
Trichloroethene	**10.2**	**10.0**	10.0	10.0	102	100	80-122	2	18	
1,2-Dichloropropane	**10.2**	**10.1**	10.0	10.0	102	101	80-123	1	15	
Dibromomethane	**10.5**	**10.1**	10.0	10.0	105	101	80-123	4	15	
Bromodichloromethane	**10.9**	**10.6**	10.0	10.0	109	106	80-125	3	15	
(cis) 1,3-Dichloropropene	**11.3**	**11.0**	10.0	10.0	113	110	80-129	3	15	
Toluene	**9.32**	**9.24**	10.0	10.0	93	92	80-120	1	18	
(trans) 1,3-Dichloropropene	**10.4**	**10.3**	10.0	10.0	104	103	80-134	1	17	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0907W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.97**	**10.5**	10.0	10.0	100	105	77-126	5	20	
Tetrachloroethene	**10.7**	**10.9**	10.0	10.0	107	109	80-124	2	18	
1,3-Dichloropropane	**9.84**	**9.91**	10.0	10.0	98	99	80-120	1	15	
Dibromochloromethane	**10.6**	**10.9**	10.0	10.0	106	109	80-128	3	15	
1,2-Dibromoethane	**10.7**	**10.8**	10.0	10.0	107	108	80-127	1	15	
Chlorobenzene	**10.1**	**10.3**	10.0	10.0	101	103	80-120	2	17	
1,1,1,2-Tetrachloroethane	**11.0**	**11.2**	10.0	10.0	110	112	80-125	2	17	
Ethylbenzene	**10.0**	**10.1**	10.0	10.0	100	101	80-125	1	18	
m,p-Xylene	**20.0**	**20.6**	20.0	20.0	100	103	80-127	3	18	
o-Xylene	**10.2**	**10.3**	10.0	10.0	102	103	80-126	1	18	
Bromoform	**11.3**	**11.5**	10.0	10.0	113	115	80-130	2	15	
Bromobenzene	**10.1**	**10.3**	10.0	10.0	101	103	76-128	2	16	
1,1,2,2-Tetrachloroethane	**10.0**	**10.4**	10.0	10.0	100	104	74-130	4	15	
1,2,3-Trichloropropane	**9.46**	**9.86**	10.0	10.0	95	99	71-129	4	25	
2-Chlorotoluene	**10.1**	**10.5**	10.0	10.0	101	105	80-128	4	18	
4-Chlorotoluene	**10.3**	**10.6**	10.0	10.0	103	106	80-130	3	19	
1,3-Dichlorobenzene	**10.0**	**10.5**	10.0	10.0	100	105	80-126	5	17	
1,4-Dichlorobenzene	**9.84**	**10.1**	10.0	10.0	98	101	80-121	3	17	
1,2-Dichlorobenzene	**9.82**	**10.1**	10.0	10.0	98	101	79-125	3	15	
1,2-Dibromo-3-chloropropane	**12.1**	**11.8**	10.0	10.0	121	118	73-133	3	15	
1,2,4-Trichlorobenzene	**10.2**	**10.8**	10.0	10.0	102	108	80-139	6	18	
Hexachlorobutadiene	**9.40**	**9.86**	10.0	10.0	94	99	80-151	5	18	
1,2,3-Trichlorobenzene	**10.6**	**11.3**	10.0	10.0	106	113	75-146	6	28	
Surrogate:										
Dibromofluoromethane					*92*	*90*	*75-127*			
Toluene-d8					*98*	*96*	*80-127*			
4-Bromofluorobenzene					*102*	*102*	*78-125*			

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Naphthalene	**0.89**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
2-Methylnaphthalene	**1.7**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
1-Methylnaphthalene	**1.1**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]anthracene	**0.026**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
Chrysene	**0.072**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[b]fluoranthene	**ND**	0.041	EPA 8270E/SIM	9-8-23	9-8-23	U1
Benzo(j,k)fluoranthene	**ND**	0.020	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]pyrene	**ND**	0.033	EPA 8270E/SIM	9-8-23	9-8-23	U1
Indeno(1,2,3-c,d)pyrene	**ND**	0.031	EPA 8270E/SIM	9-8-23	9-8-23	U1
Dibenz[a,h]anthracene	**ND**	0.036	EPA 8270E/SIM	9-8-23	9-8-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*76*	*39-111*				
Pyrene-d10	*92*	*47-114*				
Terphenyl-d14	*77*	*44-121*				
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Naphthalene	**0.13**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
2-Methylnaphthalene	**0.062**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
1-Methylnaphthalene	**0.088**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]anthracene	**0.0028**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
Chrysene	**0.0062**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[b]fluoranthene	**ND**	0.0045	EPA 8270E/SIM	9-8-23	9-8-23	U1
Benzo(j,k)fluoranthene	**ND**	0.0021	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]pyrene	**ND**	0.013	EPA 8270E/SIM	9-8-23	9-8-23	U1
Indeno(1,2,3-c,d)pyrene	**ND**	0.0054	EPA 8270E/SIM	9-8-23	9-8-23	U1
Dibenz[a,h]anthracene	**ND**	0.0022	EPA 8270E/SIM	9-8-23	9-8-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*39-111*				
Pyrene-d10	*79*	*47-114*				
Terphenyl-d14	*71*	*44-121*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0908S2					
Naphthalene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
2-Methylnaphthalene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
1-Methylnaphthalene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]anthracene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Chrysene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[b]fluoranthene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo(j,k)fluoranthene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Benzo[a]pyrene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Dibenz[a,h]anthracene	**ND**	0.0017	EPA 8270E/SIM	9-8-23	9-8-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39-111*				
Pyrene-d10	*81*	*47-114*				
Terphenyl-d14	*79*	*44-121*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0908S2									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0624**	**0.0621**	0.0833	0.0833	75	75	57-116	0	16	
Acenaphthylene	**0.0671**	**0.0670**	0.0833	0.0833	81	80	59-124	0	15	
Acenaphthene	**0.0654**	**0.0656**	0.0833	0.0833	79	79	59-124	0	15	
Fluorene	**0.0655**	**0.0659**	0.0833	0.0833	79	79	62-122	1	15	
Phenanthrene	**0.0662**	**0.0662**	0.0833	0.0833	79	79	62-119	0	15	
Anthracene	**0.0674**	**0.0677**	0.0833	0.0833	81	81	64-123	0	15	
Fluoranthene	**0.0692**	**0.0701**	0.0833	0.0833	83	84	63-123	1	15	
Pyrene	**0.0672**	**0.0675**	0.0833	0.0833	81	81	62-124	0	15	
Benzo[a]anthracene	**0.0705**	**0.0709**	0.0833	0.0833	85	85	59-131	1	15	
Chrysene	**0.0701**	**0.0689**	0.0833	0.0833	84	83	61-124	2	15	
Benzo[b]fluoranthene	**0.0746**	**0.0711**	0.0833	0.0833	90	85	60-126	5	15	
Benzo(j,k)fluoranthene	**0.0712**	**0.0763**	0.0833	0.0833	85	92	63-121	7	17	
Benzo[a]pyrene	**0.0713**	**0.0712**	0.0833	0.0833	86	85	60-122	0	15	
Indeno(1,2,3-c,d)pyrene	**0.0649**	**0.0672**	0.0833	0.0833	78	81	58-127	3	15	
Dibenz[a,h]anthracene	**0.0715**	**0.0708**	0.0833	0.0833	86	85	60-124	1	15	
Benzo[g,h,i]perylene	**0.0678**	**0.0671**	0.0833	0.0833	81	81	58-124	1	15	
Surrogate:										
2-Fluorobiphenyl					*74*	*74*	*39-111*			
Pyrene-d10					*82*	*83*	*47-114*			
Terphenyl-d14					*79*	*79*	*44-121*			

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Aroclor 1016	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1221	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1232	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1242	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1248	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1254	**0.16**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1260	**0.11**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1262	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Aroclor 1268	**ND**	0.059	EPA 8082A	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*53*	*50-127*				
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Aroclor 1016	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1221	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1232	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1242	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1248	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1254	**0.084**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1260	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1262	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Aroclor 1268	**ND**	0.062	EPA 8082A	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*62*	*50-127*				

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0911S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0911S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.404**	**0.428**	0.500	0.500	N/A	**81**	**86**	55-119	6	34	
Surrogate:											
DCB						*81*	*84*	*50-127*			

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-17-5.0-082823**					
Laboratory ID:	08-315-01					
Arsenic	**ND**	12	EPA 6010D	9-15-23	9-18-23	
Barium	**34**	2.9	EPA 6010D	9-15-23	9-18-23	
Cadmium	**ND**	0.59	EPA 6010D	9-15-23	9-18-23	
Chromium	**9.3**	0.59	EPA 6010D	9-15-23	9-18-23	
Copper	**20**	1.2	EPA 6010D	9-15-23	9-18-23	
Lead	**12**	5.9	EPA 6010D	9-15-23	9-18-23	
Mercury	**ND**	0.29	EPA 7471B	9-14-23	9-14-23	
Nickel	**18**	2.9	EPA 6010D	9-15-23	9-18-23	
Selenium	**ND**	12	EPA 6010D	9-15-23	9-18-23	
Silver	**ND**	1.2	EPA 6010D	9-15-23	9-18-23	
Zinc	**59**	2.9	EPA 6010D	9-15-23	9-18-23	
Client ID:	**NT-SS-18-5.0-082823**					
Laboratory ID:	08-315-02					
Arsenic	**ND**	12	EPA 6010D	9-15-23	9-18-23	
Barium	**28**	3.1	EPA 6010D	9-15-23	9-18-23	
Cadmium	**ND**	0.62	EPA 6010D	9-15-23	9-18-23	
Chromium	**7.7**	0.62	EPA 6010D	9-15-23	9-18-23	
Copper	**17**	1.2	EPA 6010D	9-15-23	9-18-23	
Lead	**ND**	6.2	EPA 6010D	9-15-23	9-18-23	
Mercury	**ND**	0.31	EPA 7471B	9-14-23	9-14-23	
Nickel	**9.4**	3.1	EPA 6010D	9-15-23	9-18-23	
Selenium	**ND**	12	EPA 6010D	9-15-23	9-18-23	
Silver	**ND**	1.2	EPA 6010D	9-15-23	9-18-23	
Zinc	**20**	3.1	EPA 6010D	9-15-23	9-18-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915SM1					
Arsenic	**ND**	10	EPA 6010D	9-15-23	9-15-23	
Barium	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Cadmium	**ND**	0.50	EPA 6010D	9-15-23	9-15-23	
Chromium	**ND**	0.50	EPA 6010D	9-15-23	9-15-23	
Copper	**ND**	1.0	EPA 6010D	9-15-23	9-15-23	
Lead	**ND**	5.0	EPA 6010D	9-15-23	9-15-23	
Nickel	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Selenium	**ND**	10	EPA 6010D	9-15-23	9-15-23	
Silver	**ND**	1.0	EPA 6010D	9-15-23	9-15-23	
Zinc	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Laboratory ID:	MB0914S1					
Mercury	**ND**	0.25	EPA 7471B	9-14-23	9-14-23	

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Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-098-01										
	ORIG	DUP									
Arsenic	**10.1**	**13.0**	NA	NA		NA		NA	25	20	C
Barium	**63.1**	**55.3**	NA	NA		NA		NA	13	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**58.4**	**57.2**	NA	NA		NA		NA	2	20	
Copper	**21.8**	**18.9**	NA	NA		NA		NA	14	20	
Lead	**79.2**	**82.5**	NA	NA		NA		NA	4	20	
Nickel	**283**	**241**	NA	NA		NA		NA	16	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**166**	**164**	NA	NA		NA		NA	2	20	
Laboratory ID:	09-034-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-098-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**95.9**	**96.7**	100	100	10.1	**86**	**87**	75-125	1	20	
Barium	**143**	**141**	100	100	63.1	**80**	**78**	75-125	1	20	
Cadmium	**41.0**	**40.3**	50.0	50.0	ND	**82**	**81**	75-125	2	20	
Chromium	**135**	**133**	100	100	58.4	**77**	**75**	75-125	1	20	
Copper	**63.3**	**66.8**	50.0	50.0	21.8	**83**	**90**	75-125	5	20	
Lead	**293**	**284**	250	250	79.2	**86**	**82**	75-125	3	20	
Nickel	**313**	**314**	100	100	283	**30**	**31**	75-125	0	20	V
Selenium	**82.9**	**82.6**	100	100	ND	**83**	**83**	75-125	0	20	
Silver	**21.8**	**21.3**	25.0	25.0	ND	**87**	**85**	75-125	2	20	
Zinc	**243**	**269**	100	100	166	**76**	**103**	75-125	10	20	
Laboratory ID:	09-034-01										
Mercury	**0.494**	**0.488**	0.500	0.500	0.0158	**96**	**94**	80-120	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-315B
Project: Star Forge UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-SS-17-5.0-082823	08-315-01	**15**	8-31-23
NT-SS-18-5.0-082823	08-315-02	**19**	8-31-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5 Days (other)

Laboratory Number: 08-315

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 *See list	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	NT-SS-17-5.0-082823	8/28/23	1200	S	5			X	X	X			X	X	X				X				X
2	NT-SS-18-5.0-082823		1330							X			X	X	X				X				X
3	NT-SS-19-5.0-082823		1340																				X
4	NT-SS-16-5.0-082823		1415																				X
5	NT-SS-15-5.0-082823		1425																				X
6	Trip Blank			W	3			X		X													

	Signature	Company	Date	Time
Relinquished		DHE	8/28/23	1800
Received	Nichelle Buffin	OSE	8/29/23	0830
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Please report to lowest possible limits, but please be advised of potentially elevated petroleum concentrations

* EDB, EDC, MTBE, BTEX, hVOCs
(X) Added 9/7/23. DB (STA)

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 8, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Jorgensen UST Site Assessment
Laboratory Reference No. 2308-357

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

Case Narrative

Samples were collected on August 30, 2023 and received by the laboratory on August 31, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-20-5.0-083023**					
Laboratory ID:	08-357-01					
Gasoline	**ND**	5.2	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-126*				
Client ID:	**NT-SS-21-5.0-083023**					
Laboratory ID:	08-357-02					
Gasoline	**ND**	5.1	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*65-126*				
Client ID:	**NT-SS-22-5.0-083023**					
Laboratory ID:	08-357-03					
Gasoline	**ND**	5.3	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*65-126*				
Client ID:	**NT-SS-23-5.0-083023**					
Laboratory ID:	08-357-04					
Gasoline	**ND**	6.2	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				
Client ID:	**NT-SS-14-5.0-083023**					
Laboratory ID:	08-357-05					
Gasoline Range Organics	**450**	5.0	NWTPH-Gx	9-1-23	9-1-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*65-126*				
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Gasoline Range Organics	**100**	4.3	NWTPH-Gx	9-1-23	9-1-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*80*	*65-126*				
Client ID:	**NT-SS-12-5.0-083023**					
Laboratory ID:	08-357-07					
Gasoline	**ND**	5.6	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*65-126*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-11-5.0-083023**					
Laboratory ID:	08-357-08					
Gasoline	**ND**	7.2	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**NT-SS-28-6.5-083023**					
Laboratory ID:	08-357-09					
Gasoline	**ND**	5.3	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*65-126*				
Client ID:	**NT-SS-27-6.5-083023**					
Laboratory ID:	08-357-10					
Gasoline	**ND**	7.7	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				
Client ID:	**NT-SS-26-6.5-083023**					
Laboratory ID:	08-357-11					
Gasoline	**ND**	4.9	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-126*				
Client ID:	**ST-SS-3-8.5-083023**					
Laboratory ID:	08-357-12					
Gasoline	**ND**	56	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*65-126*				
Client ID:	**ST-SS-4-8.5-083023**					
Laboratory ID:	08-357-13					
Gasoline	**ND**	5.8	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*80*	*65-126*				
Client ID:	**ST-SS-5-8.5-083023**					
Laboratory ID:	08-357-14					
Gasoline	**ND**	120	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*70*	*65-126*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Gasoline	**ND**	280	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*65-126*				
Client ID:	**ST-SS-16-6.5-083023**					
Laboratory ID:	08-357-16					
Gasoline	**ND**	230	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-126*				
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Gasoline	**ND**	170	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*78*	*65-126*				
Client ID:	**ST-SS-18-6.5-083023**					
Laboratory ID:	08-357-18					
Gasoline	**ND**	78	NWTPH-Gx	9-1-23	9-1-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-126*				
Client ID:	**ST-SS-19-6.5-083023**					
Laboratory ID:	08-357-19					
Gasoline	**ND**	4.7	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Client ID:	**ST-SS- 9-6.5-083023**					
Laboratory ID:	08-357-20					
Gasoline	**ND**	5.7	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*65-126*				
Client ID:	**ST-SS-10-6.5-083023**					
Laboratory ID:	08-357-21					
Gasoline	**ND**	7.1	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-126*				

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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-11-6.5-083023**					
Laboratory ID:	08-357-22					
Gasoline	**ND**	7.1	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-126*				
Client ID:	**ST-SS-12-6.5-083023**					
Laboratory ID:	08-357-23					
Gasoline	**ND**	6.6	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*65-126*				
Client ID:	**ST-SS-13-6.5-083023**					
Laboratory ID:	08-357-24					
Gasoline	**ND**	8.6	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*65-126*				
Client ID:	**ST-SS-14-6.5-083023**					
Laboratory ID:	08-357-25					
Gasoline	**ND**	6.8	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-126*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901S1					
Gasoline	**ND**	5.0	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Laboratory ID:	MB0901S2					
Gasoline	**ND**	5.0	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-126*				
Laboratory ID:	MB0901S3					
Gasoline	**ND**	5.0	NWTPH-Gx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-357-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*92*	*98*	*65-126*			
Laboratory ID:	08-357-02										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*94*	*93*	*65-126*			
Laboratory ID:	08-357-03										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*96*	*97*	*65-126*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip blank**					
Laboratory ID:	08-357-26					
Gasoline	**ND**	100	NWTPH-Gx	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*65-122*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0905W1					
Gasoline	**ND**	100	NWTPH-Gx	9-5-23	9-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-353-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*90*	*86*	*65-122*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-20-5.0-083023**					
Laboratory ID:	08-357-01					
Diesel Fuel #2	**96**	28	NWTPH-Dx	9-1-23	9-1-23	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*117*	*50-150*				
Client ID:	**NT-SS-21-5.0-083023**					
Laboratory ID:	08-357-02					
Diesel Range Organics	**ND**	30	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*106*	*50-150*				
Client ID:	**NT-SS-22-5.0-083023**					
Laboratory ID:	08-357-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**NT-SS-23-5.0-083023**					
Laboratory ID:	08-357-04					
Diesel Range Organics	**ND**	33	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				
Client ID:	**NT-SS-14-5.0-083023**					
Laboratory ID:	08-357-05					
Diesel Fuel #2	**4900**	690	NWTPH-Dx	9-1-23	9-6-23	N
Lube Oil	**33000**	1400	NWTPH-Dx	9-1-23	9-6-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Diesel Fuel #2	**4900**	1300	NWTPH-Dx	9-1-23	9-6-23	N
Lube Oil	**47000**	2700	NWTPH-Dx	9-1-23	9-6-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-12-5.0-083023**					
Laboratory ID:	08-357-07					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**NT-SS-11-5.0-083023**					
Laboratory ID:	08-357-08					
Diesel Range Organics	**ND**	35	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				
Client ID:	**NT-SS-28-6.5-083023**					
Laboratory ID:	08-357-09					
Diesel Range Organics	**ND**	29	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**NT-SS-27-6.5-083023**					
Laboratory ID:	08-357-10					
Diesel Range Organics	**ND**	32	NWTPH-Dx	9-1-23	9-1-23	
Lube Oil	**120**	63	NWTPH-Dx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*125*	*50-150*				
Client ID:	**NT-SS-26-6.5-083023**					
Laboratory ID:	08-357-11					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*130*	*50-150*				
Client ID:	**ST-SS-3-8.5-083023**					
Laboratory ID:	08-357-12					
Diesel Fuel #2	**330**	32	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-4-8.5-083023**					
Laboratory ID:	08-357-13					
Diesel Fuel #2	**130**	31	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*114*	*50-150*				
Client ID:	**ST-SS-5-8.5-083023**					
Laboratory ID:	08-357-14					
Diesel Fuel #2	**430**	29	NWTPH-Dx	9-1-23	9-1-23	
Lube Oil Range Organics	**ND**	57	NWTPH-Dx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*124*	*50-150*				
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Diesel Fuel #2	**15000**	130	NWTPH-Dx	9-1-23	9-6-23	
Lube Oil Range Organics	**ND**	740	NWTPH-Dx	9-1-23	9-6-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*146*	*50-150*				
Client ID:	**ST-SS-16-6.5-083023**					
Laboratory ID:	08-357-16					
Diesel Fuel #2	**6000**	130	NWTPH-Dx	9-1-23	9-6-23	
Lube Oil Range Organics	**ND**	710	NWTPH-Dx	9-1-23	9-6-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*134*	*50-150*				
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Diesel Fuel #2	**18000**	270	NWTPH-Dx	9-1-23	9-6-23	
Lube Oil Range Organics	**ND**	1100	NWTPH-Dx	9-1-23	9-6-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*---*	*50-150*				S
Client ID:	**ST-SS-18-6.5-083023**					
Laboratory ID:	08-357-18					
Diesel Fuel #2	**2900**	27	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	190	NWTPH-Dx	9-1-23	9-2-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*140*	*50-150*				

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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-19-6.5-083023**					
Laboratory ID:	08-357-19					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**ST-SS- 9-6.5-083023**					
Laboratory ID:	08-357-20					
Diesel Range Organics	**ND**	33	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	66	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**ST-SS-10-6.5-083023**					
Laboratory ID:	08-357-21					
Diesel Range Organics	**ND**	36	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	73	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**ST-SS-11-6.5-083023**					
Laboratory ID:	08-357-22					
Diesel Range Organics	**38**	35	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	70	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				
Client ID:	**ST-SS-12-6.5-083023**					
Laboratory ID:	08-357-23					
Diesel Range Organics	**ND**	32	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**ST-SS-13-6.5-083023**					
Laboratory ID:	08-357-24					
Diesel Range Organics	**ND**	40	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	80	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				

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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-14-6.5-083023**					
Laboratory ID:	08-357-25					
Diesel Range Organics	**ND**	35	NWTPH-Dx	9-1-23	9-2-23	
Lube Oil Range Organics	**ND**	69	NWTPH-Dx	9-1-23	9-2-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0901S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-1-23	9-1-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Laboratory ID:	MB0901S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-1-23	9-1-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-1-23	9-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-357-01										
	ORIG	DUP									
Diesel Fuel #2	**84.6**	**59.5**	NA	NA		NA		NA	35	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*117*	*101*	*50-150*			
Laboratory ID:	08-357-02										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*106*	*108*	*50-150*			
Laboratory ID:	08-357-21										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*58*	*87*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 8, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357
Project: Jorgensen UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-SS-20-5.0-083023	08-357-01	**11**	9-5-23
NT-SS-21-5.0-083023	08-357-02	**15**	9-5-23
NT-SS-22-5.0-083023	08-357-03	**16**	9-5-23
NT-SS-23-5.0-083023	08-357-04	**24**	9-5-23
NT-SS-14-5.0-083023	08-357-05	**9**	9-5-23
NT-SS-13-5.0-083023	08-357-06	**7**	9-5-23
NT-SS-12-5.0-083023	08-357-07	**10**	9-5-23
NT-SS-11-5.0-083023	08-357-08	**28**	9-5-23
NT-SS-28-6.5-083023	08-357-09	**13**	9-5-23
NT-SS-27-6.5-083023	08-357-10	**21**	9-5-23
NT-SS-26-6.5-083023	08-357-11	**10**	9-5-23
ST-SS-3-8.5-083023	08-357-12	**22**	9-5-23
ST-SS-4-8.5-083023	08-357-13	**19**	9-5-23
ST-SS-5-8.5-083023	08-357-14	**12**	9-5-23
ST-SS-15-6.5-083023	08-357-15	**6**	9-5-23
ST-SS-16-6.5-083023	08-357-16	**6**	9-5-23
ST-SS-17-6.5-083023	08-357-17	**6**	9-5-23
ST-SS-18-6.5-083023	08-357-18	**6**	9-5-23
ST-SS-19-6.5-083023	08-357-19	**11**	9-5-23
ST-SS- 9-6.5-083023	08-357-20	**24**	9-5-23
ST-SS-10-6.5-083023	08-357-21	**31**	9-5-23
ST-SS-11-6.5-083023	08-357-22	**28**	9-5-23
ST-SS-12-6.5-083023	08-357-23	**21**	9-5-23
ST-SS-13-6.5-083023	08-357-24	**37**	9-5-23
ST-SS-14-6.5-083023	08-357-25	**27**	9-5-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	NT-SS-20-5.0-083023	8/30/23	1015	Soil	5			X	X																		X
2	NT-SS-21-5.0-083023		1025																								
3	NT-SS-22-5.0-083023		1030																								
4	NT-SS-23-5.0-083023		1040																								
5	NT-SS-14-5.0-083023		1005																								
6	NT-SS-13-5.0-083023		1000																								
7	NT-SS-12-5.0-083023		0955																								
8	NT-SS-11-5.0-083023		1045																								
9	NT-SS-28-6.5-083023		0945																								
10	NT-SS-27-6.5-083023		0935																								

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8-31-23	1216
Received	Nichelle Robbins	OSE	8/31/23	1216
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- please report lowest possible reporting limits
- samples may have elevated petroleum concentrations

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
11	NT-SS-26-6.5-083023	8/30/23	0930	Soil	5			X	X																		X
12	ST-SS-3-8.5-083023		1220																								
13	ST-SS-4-8.5-083023		1225																								
14	ST-SS-5-8.5-083023		1235																								
15	ST-SS-15-6.5-083023		1250																								
16	ST-SS-16-6.5-083023		1300																								
17	ST-SS-17-6.5-083023		1310																								
18	ST-SS-18-6.5-083023		1320																								
19	ST-SS-19-6.5-083023		1330																								
20	ST-SS-9-6.5-083023		1210																								

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8-31-23	1216
Received	Nichelle Bolin	OSE	8/31/23	1214
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
21	ST-SS-10-6.5-083023	8/30/23	1205	Soil	5			X	X																		X
22	ST-SS-11-6.5-083023	↓	1155	↓	↓			↓	↓																		↓
23	ST-SS-12-6.5-083023		1150																								
24	ST-SS-13-6.5-083023		1145																								
25	ST-SS-14-6.5-083023		1140					↓	↓																		
26	Trip blank	–	–	W	3			X																			

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8-31-23	1216
Received	Nichelle Bolin	OSE	8/31/23	1216
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 22, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Jorgensen UST Site Assessment
Laboratory Reference No. 2308-357B

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

Case Narrative

Samples were collected on August 30, 2023 and received by the laboratory on August 31, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

Some MTCA Method A cleanup levels are not achievable for samples ST-SS-15-6.5-083023 and ST-SS-17-6.5-083023 due to the necessary dilution of these samples.

PAHs EPA 8270E/SIM Analysis

Sample ST-SS-15-6.5-083023 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

PCBs EPA 8082A Analysis

Sample matrix effects caused the percent recovery for the surrogate DCB in the sample NT-SS-13-5.0-083023 (49%) to be below the quality control limits of 50-127%. All other QC associated with this sample batch was within limits. No further action was undertaken.

Total Metals EPA 6010D/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Chromium and Nickel are outside control limits due to matrix inhomogeneity. The Spike Blank recovery was 108% for Chromium and 111% for Nickel.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Chloromethane	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
Vinyl Chloride	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Bromomethane	ND	0.0058	EPA 8260D	9-13-23	9-13-23	
Chloroethane	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
Trichlorofluoromethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Iodomethane	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
Methylene Chloride	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Methyl t-Butyl Ether	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
2,2-Dichloropropane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Bromochloromethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Chloroform	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Carbon Tetrachloride	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloropropene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Benzene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloroethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Trichloroethene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloropropane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Dibromomethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Bromodichloromethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Toluene	ND	0.0046	EPA 8260D	9-13-23	9-13-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1,2-Trichloroethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Tetrachloroethene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,3-Dichloropropane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Dibromochloromethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromoethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Chlorobenzene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
Ethylbenzene	ND	0.00092	EPA 8260D	9-13-23	9-13-23	
m,p-Xylene	0.0094	0.0018	EPA 8260D	9-13-23	9-13-23	
o-Xylene	0.0069	0.00092	EPA 8260D	9-13-23	9-13-23	
Bromoform	ND	0.0046	EPA 8260D	9-13-23	9-13-23	
Bromobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.043	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	0.21	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	0.21	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*76*	*71-130*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Dichlorodifluoromethane	ND	0.060	EPA 8260D	9-12-23	9-13-23	
Chloromethane	ND	0.21	EPA 8260D	9-12-23	9-13-23	
Vinyl Chloride	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Bromomethane	ND	0.27	EPA 8260D	9-12-23	9-13-23	
Chloroethane	ND	0.21	EPA 8260D	9-12-23	9-13-23	
Trichlorofluoromethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloroethene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Iodomethane	ND	0.21	EPA 8260D	9-12-23	9-13-23	
Methylene Chloride	ND	0.21	EPA 8260D	9-12-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Methyl t-Butyl Ether	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
2,2-Dichloropropane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Bromochloromethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Chloroform	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1,1-Trichloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Carbon Tetrachloride	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloropropene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Benzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2-Dichloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Trichloroethene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2-Dichloropropane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Dibromomethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Bromodichloromethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
2-Chloroethyl Vinyl Ether	ND	0.21	EPA 8260D	9-12-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Toluene	ND	0.21	EPA 8260D	9-12-23	9-13-23	

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Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
(trans) 1,3-Dichloropropene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1,2-Trichloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Tetrachloroethene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,3-Dichloropropane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Dibromochloromethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2-Dibromoethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Chlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Ethylbenzene	0.085	0.043	EPA 8260D	9-12-23	9-13-23	
m,p-Xylene	0.48	0.085	EPA 8260D	9-12-23	9-13-23	
o-Xylene	0.25	0.043	EPA 8260D	9-12-23	9-13-23	
Bromoform	ND	0.21	EPA 8260D	9-12-23	9-13-23	
Bromobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,1,2,2-Tetrachloroethane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2,3-Trichloropropane	ND	0.043	EPA 8260D	9-12-23	9-13-23	
2-Chlorotoluene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
4-Chlorotoluene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,3-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,4-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2-Dichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
1,2-Dibromo-3-chloropropane	ND	0.21	EPA 8260D	9-12-23	9-13-23	
1,2,4-Trichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Hexachlorobutadiene	ND	0.21	EPA 8260D	9-12-23	9-13-23	
1,2,3-Trichlorobenzene	ND	0.043	EPA 8260D	9-12-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

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Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Dichlorodifluoromethane	ND	0.061	EPA 8260D	9-12-23	9-13-23	
Chloromethane	ND	0.22	EPA 8260D	9-12-23	9-13-23	
Vinyl Chloride	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Bromomethane	ND	0.28	EPA 8260D	9-12-23	9-13-23	
Chloroethane	ND	0.22	EPA 8260D	9-12-23	9-13-23	
Trichlorofluoromethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloroethene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Iodomethane	ND	0.22	EPA 8260D	9-12-23	9-13-23	
Methylene Chloride	ND	0.22	EPA 8260D	9-12-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Methyl t-Butyl Ether	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
2,2-Dichloropropane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Bromochloromethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Chloroform	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1,1-Trichloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Carbon Tetrachloride	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1-Dichloropropene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Benzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2-Dichloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Trichloroethene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2-Dichloropropane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Dibromomethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Bromodichloromethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
2-Chloroethyl Vinyl Ether	ND	0.22	EPA 8260D	9-12-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Toluene	ND	0.22	EPA 8260D	9-12-23	9-13-23	

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Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
(trans) 1,3-Dichloropropene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1,2-Trichloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Tetrachloroethene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,3-Dichloropropane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Dibromochloromethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2-Dibromoethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Chlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Ethylbenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
m,p-Xylene	ND	0.087	EPA 8260D	9-12-23	9-13-23	
o-Xylene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Bromoform	ND	0.22	EPA 8260D	9-12-23	9-13-23	
Bromobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,1,2,2-Tetrachloroethane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2,3-Trichloropropane	ND	0.044	EPA 8260D	9-12-23	9-13-23	
2-Chlorotoluene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
4-Chlorotoluene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,3-Dichlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,4-Dichlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2-Dichlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
1,2-Dibromo-3-chloropropane	ND	0.22	EPA 8260D	9-12-23	9-13-23	
1,2,4-Trichlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Hexachlorobutadiene	ND	0.22	EPA 8260D	9-12-23	9-13-23	
1,2,3-Trichlorobenzene	ND	0.044	EPA 8260D	9-12-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chloromethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromomethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Chloroethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Iodomethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Methylene Chloride	ND	0.011	EPA 8260D	9-12-23	9-12-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chloroform	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Benzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Toluene	ND	0.0050	EPA 8260D	9-12-23	9-12-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-12-23	9-12-23	
o-Xylene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromoform	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	9-13-23	9-13-23	
Chloromethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromomethane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Chloroethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Iodomethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Methylene Chloride	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Chloroform	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Benzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Toluene	ND	0.0050	EPA 8260D	9-13-23	9-13-23	

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-13-23	9-13-23	
o-Xylene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromoform	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0426**	**0.0385**	0.0500	0.0500	85	77	30-160	10	26	
Chloromethane	**0.0460**	**0.0428**	0.0500	0.0500	92	86	59-131	7	26	
Vinyl Chloride	**0.0492**	**0.0468**	0.0500	0.0500	98	94	68-136	5	23	
Bromomethane	**0.0486**	**0.0456**	0.0500	0.0500	97	91	48-155	6	32	
Chloroethane	**0.0511**	**0.0482**	0.0500	0.0500	102	96	67-141	6	16	
Trichlorofluoromethane	**0.0507**	**0.0481**	0.0500	0.0500	101	96	76-127	5	19	
1,1-Dichloroethene	**0.0545**	**0.0501**	0.0500	0.0500	109	100	75-129	8	19	
Iodomethane	**0.0411**	**0.0417**	0.0500	0.0500	82	83	37-140	1	27	
Methylene Chloride	**0.0462**	**0.0446**	0.0500	0.0500	92	89	60-124	4	18	
(trans) 1,2-Dichloroethene	**0.0513**	**0.0496**	0.0500	0.0500	103	99	79-133	3	15	
Methyl t-Butyl Ether	**0.0504**	**0.0488**	0.0500	0.0500	101	98	73-125	3	17	
1,1-Dichloroethane	**0.0515**	**0.0497**	0.0500	0.0500	103	99	79-125	4	17	
2,2-Dichloropropane	**0.0531**	**0.0529**	0.0500	0.0500	106	106	79-126	0	18	
(cis) 1,2-Dichloroethene	**0.0538**	**0.0518**	0.0500	0.0500	108	104	75-131	4	15	
Bromochloromethane	**0.0499**	**0.0491**	0.0500	0.0500	100	98	80-126	2	15	
Chloroform	**0.0530**	**0.0513**	0.0500	0.0500	106	103	80-123	3	15	
1,1,1-Trichloroethane	**0.0523**	**0.0506**	0.0500	0.0500	105	101	78-124	3	21	
Carbon Tetrachloride	**0.0520**	**0.0484**	0.0500	0.0500	104	97	74-127	7	18	
1,1-Dichloropropene	**0.0520**	**0.0483**	0.0500	0.0500	104	97	80-123	7	15	
Benzene	**0.0517**	**0.0501**	0.0500	0.0500	103	100	80-122	3	18	
1,2-Dichloroethane	**0.0518**	**0.0510**	0.0500	0.0500	104	102	75-124	2	15	
Trichloroethene	**0.0570**	**0.0529**	0.0500	0.0500	114	106	80-129	7	18	
1,2-Dichloropropane	**0.0538**	**0.0538**	0.0500	0.0500	108	108	80-123	0	15	
Dibromomethane	**0.0532**	**0.0529**	0.0500	0.0500	106	106	80-123	1	15	
Bromodichloromethane	**0.0561**	**0.0546**	0.0500	0.0500	112	109	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0577**	**0.0564**	0.0500	0.0500	115	113	80-130	2	15	
Toluene	**0.0532**	**0.0511**	0.0500	0.0500	106	102	80-120	4	18	
(trans) 1,3-Dichloropropene	**0.0573**	**0.0564**	0.0500	0.0500	115	113	80-124	2	15	

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0528**	**0.0520**	0.0500	0.0500	106	104	80-120	2	15	
Tetrachloroethene	**0.0587**	**0.0556**	0.0500	0.0500	117	111	77-126	5	15	
1,3-Dichloropropane	**0.0535**	**0.0522**	0.0500	0.0500	107	104	77-123	2	15	
Dibromochloromethane	**0.0577**	**0.0567**	0.0500	0.0500	115	113	80-128	2	16	
1,2-Dibromoethane	**0.0534**	**0.0531**	0.0500	0.0500	107	106	80-122	1	20	
Chlorobenzene	**0.0569**	**0.0548**	0.0500	0.0500	114	110	80-120	4	18	
1,1,1,2-Tetrachloroethane	**0.0582**	**0.0554**	0.0500	0.0500	116	111	80-120	5	15	
Ethylbenzene	**0.0555**	**0.0531**	0.0500	0.0500	111	106	80-120	4	15	
m,p-Xylene	**0.116**	**0.111**	0.100	0.100	116	111	80-120	4	15	
o-Xylene	**0.0562**	**0.0546**	0.0500	0.0500	112	109	80-120	3	15	
Bromoform	**0.0561**	**0.0554**	0.0500	0.0500	112	111	78-126	1	15	
Bromobenzene	**0.0559**	**0.0535**	0.0500	0.0500	112	107	79-124	4	15	
1,1,2,2-Tetrachloroethane	**0.0528**	**0.0529**	0.0500	0.0500	106	106	75-122	0	17	
1,2,3-Trichloropropane	**0.0504**	**0.0508**	0.0500	0.0500	101	102	72-125	1	20	
2-Chlorotoluene	**0.0589**	**0.0570**	0.0500	0.0500	118	114	75-128	3	15	
4-Chlorotoluene	**0.0582**	**0.0558**	0.0500	0.0500	116	112	78-127	4	16	
1,3-Dichlorobenzene	**0.0581**	**0.0559**	0.0500	0.0500	116	112	78-123	4	17	
1,4-Dichlorobenzene	**0.0592**	**0.0563**	0.0500	0.0500	118	113	77-121	5	17	
1,2-Dichlorobenzene	**0.0562**	**0.0542**	0.0500	0.0500	112	108	80-120	4	15	
1,2-Dibromo-3-chloropropane	**0.0521**	**0.0520**	0.0500	0.0500	104	104	61-137	0	28	
1,2,4-Trichlorobenzene	**0.0606**	**0.0576**	0.0500	0.0500	121	115	77-127	5	17	
Hexachlorobutadiene	**0.0596**	**0.0562**	0.0500	0.0500	119	112	77-125	6	22	
1,2,3-Trichlorobenzene	**0.0598**	**0.0572**	0.0500	0.0500	120	114	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*95*	*92*	*75-130*			
Toluene-d8					*98*	*99*	*78-128*			
4-Bromofluorobenzene					*99*	*99*	*71-130*			

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0357**	**0.0328**	0.0500	0.0500	71	66	30-160	8	26	
Chloromethane	**0.0403**	**0.0370**	0.0500	0.0500	81	74	59-131	9	26	
Vinyl Chloride	**0.0450**	**0.0430**	0.0500	0.0500	90	86	68-136	5	23	
Bromomethane	**0.0395**	**0.0407**	0.0500	0.0500	79	81	48-155	3	32	
Chloroethane	**0.0472**	**0.0427**	0.0500	0.0500	94	85	67-141	10	16	
Trichlorofluoromethane	**0.0472**	**0.0454**	0.0500	0.0500	94	91	76-127	4	19	
1,1-Dichloroethene	**0.0496**	**0.0485**	0.0500	0.0500	99	97	75-129	2	19	
Iodomethane	**0.0442**	**0.0422**	0.0500	0.0500	88	84	37-140	5	27	
Methylene Chloride	**0.0439**	**0.0452**	0.0500	0.0500	88	90	60-124	3	18	
(trans) 1,2-Dichloroethene	**0.0487**	**0.0473**	0.0500	0.0500	97	95	79-133	3	15	
Methyl t-Butyl Ether	**0.0512**	**0.0507**	0.0500	0.0500	102	101	73-125	1	17	
1,1-Dichloroethane	**0.0506**	**0.0483**	0.0500	0.0500	101	97	79-125	5	17	
2,2-Dichloropropane	**0.0510**	**0.0493**	0.0500	0.0500	102	99	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0509**	**0.0488**	0.0500	0.0500	102	98	75-131	4	15	
Bromochloromethane	**0.0510**	**0.0507**	0.0500	0.0500	102	101	80-126	1	15	
Chloroform	**0.0497**	**0.0505**	0.0500	0.0500	99	101	80-123	2	15	
1,1,1-Trichloroethane	**0.0505**	**0.0490**	0.0500	0.0500	101	98	78-124	3	21	
Carbon Tetrachloride	**0.0496**	**0.0482**	0.0500	0.0500	99	96	74-127	3	18	
1,1-Dichloropropene	**0.0487**	**0.0477**	0.0500	0.0500	97	95	80-123	2	15	
Benzene	**0.0494**	**0.0489**	0.0500	0.0500	99	98	80-122	1	18	
1,2-Dichloroethane	**0.0522**	**0.0525**	0.0500	0.0500	104	105	75-124	1	15	
Trichloroethene	**0.0521**	**0.0535**	0.0500	0.0500	104	107	80-129	3	18	
1,2-Dichloropropane	**0.0538**	**0.0526**	0.0500	0.0500	108	105	80-123	2	15	
Dibromomethane	**0.0556**	**0.0566**	0.0500	0.0500	111	113	80-123	2	15	
Bromodichloromethane	**0.0558**	**0.0540**	0.0500	0.0500	112	108	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0584**	**0.0570**	0.0500	0.0500	117	114	80-130	2	15	
Toluene	**0.0525**	**0.0507**	0.0500	0.0500	105	101	80-120	3	18	
(trans) 1,3-Dichloropropene	**0.0575**	**0.0572**	0.0500	0.0500	115	114	80-124	1	15	

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QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0542**	**0.0540**	0.0500	0.0500	108	108	80-120	0	15	
Tetrachloroethene	**0.0547**	**0.0531**	0.0500	0.0500	109	106	77-126	3	15	
1,3-Dichloropropane	**0.0549**	**0.0537**	0.0500	0.0500	110	107	77-123	2	15	
Dibromochloromethane	**0.0583**	**0.0588**	0.0500	0.0500	117	118	80-128	1	16	
1,2-Dibromoethane	**0.0566**	**0.0562**	0.0500	0.0500	113	112	80-122	1	20	
Chlorobenzene	**0.0552**	**0.0536**	0.0500	0.0500	110	107	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0575**	**0.0555**	0.0500	0.0500	115	111	80-120	4	15	
Ethylbenzene	**0.0533**	**0.0522**	0.0500	0.0500	107	104	80-120	2	15	
m,p-Xylene	**0.112**	**0.108**	0.100	0.100	112	108	80-120	4	15	
o-Xylene	**0.0553**	**0.0533**	0.0500	0.0500	111	107	80-120	4	15	
Bromoform	**0.0609**	**0.0607**	0.0500	0.0500	122	121	78-126	0	15	
Bromobenzene	**0.0526**	**0.0525**	0.0500	0.0500	105	105	79-124	0	15	
1,1,2,2-Tetrachloroethane	**0.0555**	**0.0561**	0.0500	0.0500	111	112	75-122	1	17	
1,2,3-Trichloropropane	**0.0540**	**0.0558**	0.0500	0.0500	108	112	72-125	3	20	
2-Chlorotoluene	**0.0556**	**0.0528**	0.0500	0.0500	111	106	75-128	5	15	
4-Chlorotoluene	**0.0541**	**0.0526**	0.0500	0.0500	108	105	78-127	3	16	
1,3-Dichlorobenzene	**0.0549**	**0.0546**	0.0500	0.0500	110	109	78-123	1	17	
1,4-Dichlorobenzene	**0.0554**	**0.0550**	0.0500	0.0500	111	110	77-121	1	17	
1,2-Dichlorobenzene	**0.0548**	**0.0550**	0.0500	0.0500	110	110	80-120	0	15	
1,2-Dibromo-3-chloropropane	**0.0580**	**0.0634**	0.0500	0.0500	116	127	61-137	9	28	
1,2,4-Trichlorobenzene	**0.0565**	**0.0572**	0.0500	0.0500	113	114	77-127	1	17	
Hexachlorobutadiene	**0.0570**	**0.0550**	0.0500	0.0500	114	110	77-125	4	22	
1,2,3-Trichlorobenzene	**0.0580**	**0.0584**	0.0500	0.0500	116	117	77-124	1	19	
Surrogate:										
Dibromofluoromethane					*92*	*95*	*75-130*			
Toluene-d8					*100*	*97*	*78-128*			
4-Bromofluorobenzene					*102*	*104*	*71-130*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip blank**					
Laboratory ID:	08-357-26					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chloromethane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromomethane	ND	1.4	EPA 8260D	9-12-23	9-12-23	
Chloroethane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Iodomethane	ND	9.6	EPA 8260D	9-12-23	9-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-12-23	9-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chloroform	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Benzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Trichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Dibromomethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Toluene	ND	1.0	EPA 8260D	9-12-23	9-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip blank**					
Laboratory ID:	08-357-26					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-12-23	9-12-23	
o-Xylene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromoform	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Bromobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-127*				
Toluene-d8	*92*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chloromethane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromomethane	ND	1.4	EPA 8260D	9-12-23	9-12-23	
Chloroethane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Iodomethane	ND	9.6	EPA 8260D	9-12-23	9-12-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-12-23	9-12-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chloroform	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Benzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Trichloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Dibromomethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Toluene	ND	1.0	EPA 8260D	9-12-23	9-12-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-12-23	9-12-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-12-23	9-12-23	
o-Xylene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Bromoform	ND	1.0	EPA 8260D	9-12-23	9-12-23	
Bromobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*81*	*75-127*				
Toluene-d8	*91*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**8.42**	**7.07**	10.0	10.0	84	71	34-166	17	21	
Chloromethane	**9.40**	**8.82**	10.0	10.0	94	88	63-138	6	18	
Vinyl Chloride	**9.79**	**9.16**	10.0	10.0	98	92	71-135	7	20	
Bromomethane	**7.36**	**8.87**	10.0	10.0	74	89	20-151	19	36	
Chloroethane	**9.56**	**9.51**	10.0	10.0	96	95	76-125	1	20	
Trichlorofluoromethane	**9.07**	**8.84**	10.0	10.0	91	88	75-131	3	19	
1,1-Dichloroethene	**9.61**	**9.42**	10.0	10.0	96	94	78-125	2	19	
Iodomethane	**5.23**	**6.91**	10.0	10.0	52	69	10-155	28	40	
Methylene Chloride	**8.70**	**8.64**	10.0	10.0	87	86	80-120	1	15	
(trans) 1,2-Dichloroethene	**9.68**	**9.76**	10.0	10.0	97	98	80-125	1	17	
Methyl t-Butyl Ether	**8.85**	**9.03**	10.0	10.0	89	90	80-122	2	15	
1,1-Dichloroethane	**9.69**	**9.57**	10.0	10.0	97	96	80-125	1	17	
2,2-Dichloropropane	**10.9**	**10.9**	10.0	10.0	109	109	80-146	0	21	
(cis) 1,2-Dichloroethene	**9.79**	**9.89**	10.0	10.0	98	99	80-129	1	17	
Bromochloromethane	**9.60**	**9.61**	10.0	10.0	96	96	80-125	0	18	
Chloroform	**9.60**	**9.57**	10.0	10.0	96	96	80-123	0	16	
1,1,1-Trichloroethane	**9.23**	**9.18**	10.0	10.0	92	92	80-123	1	18	
Carbon Tetrachloride	**9.45**	**9.48**	10.0	10.0	95	95	80-126	0	17	
1,1-Dichloropropene	**8.93**	**9.29**	10.0	10.0	89	93	80-126	4	18	
Benzene	**9.59**	**9.38**	10.0	10.0	96	94	80-121	2	16	
1,2-Dichloroethane	**9.86**	**9.90**	10.0	10.0	99	99	80-124	0	15	
Trichloroethene	**9.88**	**9.71**	10.0	10.0	99	97	80-122	2	18	
1,2-Dichloropropane	**10.3**	**10.0**	10.0	10.0	103	100	80-123	3	15	
Dibromomethane	**10.0**	**9.66**	10.0	10.0	100	97	80-123	3	15	
Bromodichloromethane	**10.6**	**10.4**	10.0	10.0	106	104	80-125	2	15	
(cis) 1,3-Dichloropropene	**11.0**	**10.8**	10.0	10.0	110	108	80-129	2	15	
Toluene	**9.45**	**8.92**	10.0	10.0	95	89	80-120	6	18	
(trans) 1,3-Dichloropropene	**9.36**	**9.74**	10.0	10.0	94	97	80-134	4	17	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.63**	**9.92**	10.0	10.0	96	99	77-126	3	20	
Tetrachloroethene	**10.4**	**10.3**	10.0	10.0	104	103	80-124	1	18	
1,3-Dichloropropane	**9.40**	**9.71**	10.0	10.0	94	97	80-120	3	15	
Dibromochloromethane	**10.4**	**10.4**	10.0	10.0	104	104	80-128	0	15	
1,2-Dibromoethane	**9.83**	**10.2**	10.0	10.0	98	102	80-127	4	15	
Chlorobenzene	**9.82**	**9.64**	10.0	10.0	98	96	80-120	2	17	
1,1,1,2-Tetrachloroethane	**10.5**	**10.5**	10.0	10.0	105	105	80-125	0	17	
Ethylbenzene	**9.71**	**9.89**	10.0	10.0	97	99	80-125	2	18	
m,p-Xylene	**19.6**	**19.5**	20.0	20.0	98	98	80-127	1	18	
o-Xylene	**9.93**	**9.74**	10.0	10.0	99	97	80-126	2	18	
Bromoform	**10.6**	**10.6**	10.0	10.0	106	106	80-130	0	15	
Bromobenzene	**9.63**	**9.53**	10.0	10.0	96	95	76-128	1	16	
1,1,2,2-Tetrachloroethane	**9.81**	**9.78**	10.0	10.0	98	98	74-130	0	15	
1,2,3-Trichloropropane	**9.61**	**9.21**	10.0	10.0	96	92	71-129	4	25	
2-Chlorotoluene	**10.2**	**9.78**	10.0	10.0	102	98	80-128	4	18	
4-Chlorotoluene	**10.0**	**9.55**	10.0	10.0	100	96	80-130	5	19	
1,3-Dichlorobenzene	**9.79**	**9.57**	10.0	10.0	98	96	80-126	2	17	
1,4-Dichlorobenzene	**9.55**	**9.25**	10.0	10.0	96	93	80-121	3	17	
1,2-Dichlorobenzene	**9.65**	**9.31**	10.0	10.0	97	93	79-125	4	15	
1,2-Dibromo-3-chloropropane	**10.2**	**10.4**	10.0	10.0	102	104	73-133	2	15	
1,2,4-Trichlorobenzene	**9.51**	**9.76**	10.0	10.0	95	98	80-139	3	18	
Hexachlorobutadiene	**8.51**	**8.67**	10.0	10.0	85	87	80-151	2	18	
1,2,3-Trichlorobenzene	**10.1**	**10.2**	10.0	10.0	101	102	75-146	1	28	
Surrogate:										
Dibromofluoromethane					*85*	*83*	*75-127*			
Toluene-d8					*91*	*91*	*80-127*			
4-Bromofluorobenzene					*104*	*102*	*78-125*			

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Naphthalene	**0.14**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
2-Methylnaphthalene	**0.46**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
1-Methylnaphthalene	**0.87**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]anthracene	**0.13**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Chrysene	**0.15**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[b]fluoranthene	**0.097**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo(j,k)fluoranthene	**ND**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]pyrene	**0.14**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Indeno(1,2,3-c,d)pyrene	**0.080**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Dibenz[a,h]anthracene	**ND**	0.036	EPA 8270E/SIM	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*88*	*39-111*				
Pyrene-d10	*108*	*47-114*				
Terphenyl-d14	*106*	*44-121*				
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Naphthalene	**0.58**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
2-Methylnaphthalene	**27**	0.71	EPA 8270E/SIM	9-13-23	9-14-23	
1-Methylnaphthalene	**37**	0.71	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]anthracene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Chrysene	**0.16**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[b]fluoranthene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo(j,k)fluoranthene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]pyrene	**0.042**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Dibenz[a,h]anthracene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*95*	*39-111*				
Pyrene-d10	*124*	*47-114*				Q
Terphenyl-d14	*102*	*44-121*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Naphthalene	**0.17**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
2-Methylnaphthalene	**7.3**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
1-Methylnaphthalene	**15**	0.14	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]anthracene	**0.13**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Chrysene	**0.38**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[b]fluoranthene	**0.046**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo(j,k)fluoranthene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Benzo[a]pyrene	**0.074**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Dibenz[a,h]anthracene	**ND**	0.035	EPA 8270E/SIM	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*83*	*39-111*				
Pyrene-d10	*88*	*47-114*				
Terphenyl-d14	*95*	*44-121*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S1					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	9-13-23	9-13-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-13-23	9-13-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-13-23	9-13-23	
Benzo[a]anthracene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Chrysene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Benzo[b]fluoranthene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Benzo(j,k)fluoranthene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Benzo[a]pyrene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Dibenz[a,h]anthracene	**ND**	0.0017	EPA 8270E/SIM	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*83*	*39-111*				
Pyrene-d10	*97*	*47-114*				
Terphenyl-d14	*99*	*44-121*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0738**	**0.0726**	0.0833	0.0833	89	87	57-116	2	16	
Acenaphthylene	**0.0806**	**0.0811**	0.0833	0.0833	97	97	59-124	1	15	
Acenaphthene	**0.0735**	**0.0765**	0.0833	0.0833	88	92	59-124	4	15	
Fluorene	**0.0771**	**0.0804**	0.0833	0.0833	93	97	62-122	4	15	
Phenanthrene	**0.0699**	**0.0711**	0.0833	0.0833	84	85	62-119	2	15	
Anthracene	**0.0833**	**0.0924**	0.0833	0.0833	100	111	64-123	10	15	
Fluoranthene	**0.0770**	**0.0826**	0.0833	0.0833	92	99	63-123	7	15	
Pyrene	**0.0766**	**0.0808**	0.0833	0.0833	92	97	62-124	5	15	
Benzo[a]anthracene	**0.0695**	**0.0737**	0.0833	0.0833	83	88	59-131	6	15	
Chrysene	**0.0804**	**0.0842**	0.0833	0.0833	97	101	61-124	5	15	
Benzo[b]fluoranthene	**0.0772**	**0.0783**	0.0833	0.0833	93	94	60-126	1	15	
Benzo(j,k)fluoranthene	**0.0846**	**0.0930**	0.0833	0.0833	102	112	63-121	9	17	
Benzo[a]pyrene	**0.0828**	**0.0867**	0.0833	0.0833	99	104	60-122	5	15	
Indeno(1,2,3-c,d)pyrene	**0.0707**	**0.0668**	0.0833	0.0833	85	80	58-127	6	15	
Dibenz[a,h]anthracene	**0.0791**	**0.0832**	0.0833	0.0833	95	100	60-124	5	15	
Benzo[g,h,i]perylene	**0.0701**	**0.0738**	0.0833	0.0833	84	89	58-124	5	15	
Surrogate:										
2-Fluorobiphenyl					*88*	*88*	*39-111*			
Pyrene-d10					*96*	*99*	*47-114*			
Terphenyl-d14					*99*	*101*	*44-121*			

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Aroclor 1016	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1254	**0.13**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	9-15-23	9-20-23	
Aroclor 1268	**0.068**	0.054	EPA 8082A	9-15-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*49*	*50-127*				Q
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*50-127*				
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*50-127*				

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-141-16										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.800**	**0.773**	0.500	0.500	0.436	**73**	**67**	41-121	3	28	
Surrogate:											
DCB						*75*	*70*	*50-127*			

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**NT-SS-13-5.0-083023**					
Laboratory ID:	08-357-06					
Arsenic	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Barium	**27**	2.7	EPA 6010D	9-20-23	9-20-23	
Cadmium	**ND**	0.54	EPA 6010D	9-20-23	9-20-23	
Chromium	**7.9**	0.54	EPA 6010D	9-20-23	9-20-23	
Copper	**21**	1.1	EPA 6010D	9-20-23	9-20-23	
Lead	**ND**	5.4	EPA 6010D	9-20-23	9-20-23	
Mercury	**ND**	0.27	EPA 7471B	9-14-23	9-14-23	
Nickel	**11**	2.7	EPA 6010D	9-20-23	9-20-23	
Selenium	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Silver	**ND**	1.1	EPA 6010D	9-20-23	9-20-23	
Zinc	**23**	2.7	EPA 6010D	9-20-23	9-20-23	
Client ID:	**ST-SS-15-6.5-083023**					
Laboratory ID:	08-357-15					
Arsenic	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Barium	**21**	2.6	EPA 6010D	9-20-23	9-20-23	
Cadmium	**ND**	0.53	EPA 6010D	9-20-23	9-20-23	
Chromium	**7.1**	0.53	EPA 6010D	9-20-23	9-20-23	
Copper	**7.8**	1.1	EPA 6010D	9-20-23	9-20-23	
Lead	**11**	5.3	EPA 6010D	9-20-23	9-20-23	
Mercury	**ND**	0.26	EPA 7471B	9-14-23	9-14-23	
Nickel	**7.5**	2.6	EPA 6010D	9-20-23	9-20-23	
Selenium	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Silver	**ND**	1.1	EPA 6010D	9-20-23	9-20-23	
Zinc	**20**	2.6	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-SS-17-6.5-083023**					
Laboratory ID:	08-357-17					
Arsenic	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Barium	**25**	2.7	EPA 6010D	9-20-23	9-20-23	
Cadmium	**ND**	0.53	EPA 6010D	9-20-23	9-20-23	
Chromium	**8.3**	0.53	EPA 6010D	9-20-23	9-20-23	
Copper	**8.1**	1.1	EPA 6010D	9-20-23	9-20-23	
Lead	**ND**	5.3	EPA 6010D	9-20-23	9-20-23	
Mercury	**ND**	0.27	EPA 7471B	9-14-23	9-14-23	
Nickel	**8.0**	2.7	EPA 6010D	9-20-23	9-20-23	
Selenium	**ND**	11	EPA 6010D	9-20-23	9-20-23	
Silver	**ND**	1.1	EPA 6010D	9-20-23	9-20-23	
Zinc	**22**	2.7	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920SM2					
Arsenic	**ND**	10	EPA 6010D	9-20-23	9-20-23	
Barium	**ND**	2.5	EPA 6010D	9-20-23	9-20-23	
Cadmium	**ND**	0.50	EPA 6010D	9-20-23	9-20-23	
Chromium	**ND**	0.50	EPA 6010D	9-20-23	9-20-23	
Copper	**ND**	1.0	EPA 6010D	9-20-23	9-20-23	
Lead	**ND**	5.0	EPA 6010D	9-20-23	9-20-23	
Nickel	**ND**	2.5	EPA 6010D	9-20-23	9-20-23	
Selenium	**ND**	10	EPA 6010D	9-20-23	9-20-23	
Silver	**ND**	1.0	EPA 6010D	9-20-23	9-20-23	
Zinc	**ND**	2.5	EPA 6010D	9-20-23	9-20-23	
Laboratory ID:	MB0914S1					
Mercury	**ND**	0.25	EPA 7471B	9-14-23	9-14-23	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-187-15										
	ORIG	DUP									
Arsenic	**24.2**	**24.3**	NA	NA		NA		NA	1	20	
Barium	**68.9**	**73.0**	NA	NA		NA		NA	6	20	
Cadmium	**0.580**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**52.4**	**80.1**	NA	NA		NA		NA	42	20	L
Copper	**11.4**	**12.2**	NA	NA		NA		NA	7	20	
Lead	**32.1**	**28.7**	NA	NA		NA		NA	11	20	
Nickel	**266**	**348**	NA	NA		NA		NA	27	20	L
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**96.0**	**105**	NA	NA		NA		NA	9	20	
Laboratory ID:	09-034-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-187-15										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**123**	**122**	100	100	24.2	**99**	**98**	75-125	0	20	
Barium	**170**	**170**	100	100	68.9	**101**	**101**	75-125	0	20	
Cadmium	**45.0**	**44.6**	50.0	50.0	0.580	**89**	**88**	75-125	1	20	
Chromium	**161**	**151**	100	100	52.4	**109**	**98**	75-125	7	20	
Copper	**61.4**	**59.9**	50.0	50.0	11.4	**100**	**97**	75-125	2	20	
Lead	**284**	**282**	250	250	32.1	**101**	**100**	75-125	1	20	
Nickel	**399**	**342**	100	100	266	**132**	**76**	75-125	15	20	V
Selenium	**94.2**	**93.6**	100	100	ND	**94**	**94**	75-125	1	20	
Silver	**24.7**	**23.9**	25.0	25.0	ND	**99**	**96**	75-125	3	20	
Zinc	**186**	**176**	100	100	96.0	**90**	**80**	75-125	6	20	
Laboratory ID:	09-034-01										
Mercury	**0.494**	**0.488**	0.500	0.500	0.0158	**96**	**94**	80-120	1	20	

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Date of Report: September 22, 2023
Samples Submitted: August 31, 2023
Laboratory Reference: 2308-357B
Project: Jorgensen UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
NT-SS-13-5.0-083023	08-357-06	**7**	9-5-23
ST-SS-15-6.5-083023	08-357-15	**6**	9-5-23
ST-SS-17-6.5-083023	08-357-17	**6**	9-5-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260 *	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	NT-SS-20-5.0-083023	8/30/23	1015	Soil	5			X	X														X
2	NT-SS-21-5.0-083023		1025																				
3	NT-SS-22-5.0-083023		1030																				
4	NT-SS-23-5.0-083023		1040																				
5	NT-SS-14-5.0-083023		1005																				
6	NT-SS-13-5.0-083023		1000							(X)				(X)	(X)				(X)				
7	NT-SS-12-5.0-083023		0955																				
8	NT-SS-11-5.0-083023		1045																				
9	NT-SS-28-6.5-083023		0945																				
10	NT-SS-27-6.5-083023		0935																				

	Signature	Company	Date	Time
Relinquished		DHE	8-31-23	1216
Received	Nichelle Boehm	OSE	8/31/23	1216
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
- please report lowest possible reporting limits
- samples may have elevated petroleum concentrations

* - EDB, EDC, MTBE, BTEX, hVOCs
(X) Added 9/12/23. DB (STA)

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

Page 2 of 3

OnSite Environmental Inc.
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Project Number:
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Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 *	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
11	NT-SS-26-6.5-083023	8/30/23	0930	Soil	5			X	X																		X
12	ST-SS-3-8.5-083023		1220																								
13	ST-SS-4-8.5-083023		1225																								
14	ST-SS-5-8.5-083023		1235																								
15	ST-SS-15-6.5-083023		1250							X				X	X				X								
16	ST-SS-16-6.5-083023		1300																								
17	ST-SS-17-6.5-083023		1310							X				X	X				X								
18	ST-SS-18-6.5-083023		1320																								
19	ST-SS-19-6.5-083023		1330																								
20	ST-SS-9-6.5-083023		1210																								

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8-31-23	1216
Received	Nichelle Bolin	OSE	8/31/23	1216
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
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Company: DH Environmental
Project Number:
Project Name: Jorgensen UST Site Assessment
Project Manager: N. Moxley
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Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-357

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 *	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
21	ST-SS-10-6.5-083023	8/30/23	1205	Soil	5			X	X														X
22	ST-SS-11-6.5-083023	↓	1155	↓	↓			↓	↓														↓
23	ST-SS-12-6.5-083023		1150																				
24	ST-SS-13-6.5-083023		1145																				
25	ST-SS-14-6.5-083023	↓	1140	↓	↓			↓	↓														
26	Trip blank	–	–	W	3			X		(X)													

	Signature	Company	Date	Time
Relinquished	[signature]	DHE	8-31-23	1216
Received	Nichelle Bofinn	OSE	8/31/23	1216
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 17, 2023

Nathan Moxley
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge UST Site Assessment
Laboratory Reference No. 2310-177

Dear Nathan:

Enclosed are the analytical results and associated quality control data for samples submitted on October 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

Case Narrative

Samples were collected on October 13, 2023 and received by the laboratory on October 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The percent recovery for Chloroethane, 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene is outside the control limits in the Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Gasoline Range Organics	**220**	7.8	NWTPH-Gx	10-16-23	10-16-23	O
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*65-126*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Gasoline	**ND**	4.8	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-126*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Gasoline	**ND**	4.0	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-126*				

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Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Gasoline	**ND**	5.0	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-126*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-177-03										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*93*	*90*	*65-126*			

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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
Gasoline	**ND**	100	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-122*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
Gasoline	**ND**	100	NWTPH-Gx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*74*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-160-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*75*	*73*	*65-122*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Diesel Fuel #2	**3400**	140	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**860**	290	NWTPH-Dx	10-16-23	10-16-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*129*	*50-150*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Diesel Range Organics	**120**	28	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**260**	56	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Diesel Range Organics	**ND**	28	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil	**190**	55	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				

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Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	10-16-23	10-16-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-177-01										
	ORIG	DUP									
Diesel Fuel #2	**2970**	**2830**	NA	NA		NA		NA	5	40	
Lube Oil	**759**	**801**	NA	NA		NA		NA	5	40	
Surrogate:											
o-Terphenyl						*129*	*121*	*50-150*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Dichlorodifluoromethane	ND	0.048	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.048	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.18	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.18	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Toluene	0.40	0.18	EPA 8260D	10-16-23	10-16-23	

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Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
(trans) 1,3-Dichloropropene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	0.46	0.037	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	2.1	0.073	EPA 8260D	10-16-23	10-16-23	
o-Xylene	0.87	0.037	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.18	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.037	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.18	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.18	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.037	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-130*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*107*	*71-130*				

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Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.0011	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0041	EPA 8260D	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.00082	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0016	EPA 8260D	10-16-23	10-16-23	
o-Xylene	0.0012	0.00082	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0041	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.050	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.25	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.25	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.050	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*90*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Dichlorodifluoromethane	ND	0.00096	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.00096	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0037	EPA 8260D	10-16-23	10-16-23	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0015	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.0037	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*92*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.0013	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	0.0050	EPA 8260D	10-16-23	10-16-23	

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Project: Star Forge UST Site Assessment

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.0020	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-130*				
Toluene-d8	*95*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0382**	**0.0378**	0.0500	0.0500	76	76	30-160	1	26	
Chloromethane	**0.0437**	**0.0437**	0.0500	0.0500	87	87	59-131	0	26	
Vinyl Chloride	**0.0387**	**0.0382**	0.0500	0.0500	77	76	68-136	1	23	
Bromomethane	**0.0439**	**0.0437**	0.0500	0.0500	88	87	48-155	0	32	
Chloroethane	**0.0471**	**0.0468**	0.0500	0.0500	94	94	67-141	1	16	
Trichlorofluoromethane	**0.0490**	**0.0484**	0.0500	0.0500	98	97	76-127	1	19	
1,1-Dichloroethene	**0.0469**	**0.0478**	0.0500	0.0500	94	96	75-129	2	19	
Iodomethane	**0.0454**	**0.0433**	0.0500	0.0500	91	87	37-140	5	27	
Methylene Chloride	**0.0470**	**0.0482**	0.0500	0.0500	94	96	60-124	3	18	
(trans) 1,2-Dichloroethene	**0.0475**	**0.0481**	0.0500	0.0500	95	96	79-133	1	15	
Methyl t-Butyl Ether	**0.0520**	**0.0531**	0.0500	0.0500	104	106	73-125	2	17	
1,1-Dichloroethane	**0.0472**	**0.0473**	0.0500	0.0500	94	95	79-125	0	17	
2,2-Dichloropropane	**0.0478**	**0.0492**	0.0500	0.0500	96	98	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0469**	**0.0473**	0.0500	0.0500	94	95	75-131	1	15	
Bromochloromethane	**0.0509**	**0.0521**	0.0500	0.0500	102	104	80-126	2	15	
Chloroform	**0.0474**	**0.0480**	0.0500	0.0500	95	96	80-123	1	15	
1,1,1-Trichloroethane	**0.0472**	**0.0478**	0.0500	0.0500	94	96	78-124	1	21	
Carbon Tetrachloride	**0.0480**	**0.0481**	0.0500	0.0500	96	96	74-127	0	18	
1,1-Dichloropropene	**0.0470**	**0.0480**	0.0500	0.0500	94	96	80-123	2	15	
Benzene	**0.0462**	**0.0459**	0.0500	0.0500	92	92	80-122	1	18	
1,2-Dichloroethane	**0.0502**	**0.0515**	0.0500	0.0500	100	103	75-124	3	15	
Trichloroethene	**0.0470**	**0.0473**	0.0500	0.0500	94	95	80-129	1	18	
1,2-Dichloropropane	**0.0481**	**0.0489**	0.0500	0.0500	96	98	80-123	2	15	
Dibromomethane	**0.0494**	**0.0512**	0.0500	0.0500	99	102	80-123	4	15	
Bromodichloromethane	**0.0495**	**0.0491**	0.0500	0.0500	99	98	80-129	1	15	
(cis) 1,3-Dichloropropene	**0.0515**	**0.0521**	0.0500	0.0500	103	104	80-130	1	15	
Toluene	**0.0441**	**0.0446**	0.0500	0.0500	88	89	80-120	1	18	
(trans) 1,3-Dichloropropene	**0.0561**	**0.0567**	0.0500	0.0500	112	113	80-124	1	15	

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0539**	**0.0576**	0.0500	0.0500	108	115	80-120	7	15	
Tetrachloroethene	**0.0515**	**0.0520**	0.0500	0.0500	103	104	77-126	1	15	
1,3-Dichloropropane	**0.0530**	**0.0554**	0.0500	0.0500	106	111	77-123	4	15	
Dibromochloromethane	**0.0549**	**0.0565**	0.0500	0.0500	110	113	80-128	3	16	
1,2-Dibromoethane	**0.0551**	**0.0570**	0.0500	0.0500	110	114	80-122	3	20	
Chlorobenzene	**0.0513**	**0.0523**	0.0500	0.0500	103	105	80-120	2	18	
1,1,1,2-Tetrachloroethane	**0.0521**	**0.0533**	0.0500	0.0500	104	107	80-120	2	15	
Ethylbenzene	**0.0504**	**0.0511**	0.0500	0.0500	101	102	80-120	1	15	
m,p-Xylene	**0.105**	**0.105**	0.100	0.100	105	105	80-120	0	15	
o-Xylene	**0.0519**	**0.0520**	0.0500	0.0500	104	104	80-120	0	15	
Bromoform	**0.0553**	**0.0584**	0.0500	0.0500	111	117	78-126	5	15	
Bromobenzene	**0.0525**	**0.0538**	0.0500	0.0500	105	108	79-124	2	15	
1,1,2,2-Tetrachloroethane	**0.0535**	**0.0563**	0.0500	0.0500	107	113	75-122	5	17	
1,2,3-Trichloropropane	**0.0560**	**0.0589**	0.0500	0.0500	112	118	72-125	5	20	
2-Chlorotoluene	**0.0525**	**0.0526**	0.0500	0.0500	105	105	75-128	0	15	
4-Chlorotoluene	**0.0556**	**0.0577**	0.0500	0.0500	111	115	78-127	4	16	
1,3-Dichlorobenzene	**0.0526**	**0.0538**	0.0500	0.0500	105	108	78-123	2	17	
1,4-Dichlorobenzene	**0.0547**	**0.0548**	0.0500	0.0500	109	110	77-121	0	17	
1,2-Dichlorobenzene	**0.0562**	**0.0569**	0.0500	0.0500	112	114	80-120	1	15	
1,2-Dibromo-3-chloropropane	**0.0569**	**0.0647**	0.0500	0.0500	114	129	61-137	13	28	
1,2,4-Trichlorobenzene	**0.0543**	**0.0530**	0.0500	0.0500	109	106	77-127	2	17	
Hexachlorobutadiene	**0.0456**	**0.0463**	0.0500	0.0500	91	93	77-125	2	22	
1,2,3-Trichlorobenzene	**0.0584**	**0.0593**	0.0500	0.0500	117	119	77-124	2	19	
Surrogate:										
Dibromofluoromethane					*98*	*97*	*75-130*			
Toluene-d8					*95*	*95*	*78-128*			
4-Bromofluorobenzene					*106*	*108*	*71-130*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	1.3	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	5.0	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**trip blank**					
Laboratory ID:	10-177-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*108*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloromethane	ND	1.3	EPA 8260D	10-16-23	10-16-23	
Vinyl Chloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromomethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Chloroethane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Iodomethane	ND	5.0	EPA 8260D	10-16-23	10-16-23	
Methylene Chloride	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chloroform	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Benzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Trichloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromomethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromodichloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Toluene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Tetrachloroethene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Dibromochloromethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Chlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Ethylbenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
m,p-Xylene	ND	0.40	EPA 8260D	10-16-23	10-16-23	
o-Xylene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
Bromoform	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Bromobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	10-16-23	10-16-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	10-16-23	10-16-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**11.4**	**9.59**	10.0	10.0	114	96	34-166	17	21	
Chloromethane	**7.69**	**6.63**	10.0	10.0	77	66	63-138	15	18	
Vinyl Chloride	**9.12**	**8.03**	10.0	10.0	91	80	71-135	13	20	
Bromomethane	**11.4**	**10.1**	10.0	10.0	114	101	20-151	12	36	
Chloroethane	**8.59**	**7.29**	10.0	10.0	86	73	76-125	16	20	I
Trichlorofluoromethane	**10.3**	**9.42**	10.0	10.0	103	94	75-131	9	19	
1,1-Dichloroethene	**10.1**	**9.00**	10.0	10.0	101	90	78-125	12	19	
Iodomethane	**13.3**	**12.1**	10.0	10.0	133	121	10-155	9	40	
Methylene Chloride	**9.44**	**8.62**	10.0	10.0	94	86	80-120	9	15	
(trans) 1,2-Dichloroethene	**9.52**	**8.82**	10.0	10.0	95	88	80-125	8	17	
Methyl t-Butyl Ether	**10.1**	**9.23**	10.0	10.0	101	92	80-122	9	15	
1,1-Dichloroethane	**9.61**	**8.69**	10.0	10.0	96	87	80-125	10	17	
2,2-Dichloropropane	**11.5**	**10.9**	10.0	10.0	115	109	80-146	5	21	
(cis) 1,2-Dichloroethene	**10.0**	**9.32**	10.0	10.0	100	93	80-129	7	17	
Bromochloromethane	**9.81**	**9.31**	10.0	10.0	98	93	80-125	5	18	
Chloroform	**9.93**	**9.12**	10.0	10.0	99	91	80-123	9	16	
1,1,1-Trichloroethane	**10.1**	**9.13**	10.0	10.0	101	91	80-123	10	18	
Carbon Tetrachloride	**10.4**	**9.59**	10.0	10.0	104	96	80-126	8	17	
1,1-Dichloropropene	**10.0**	**9.31**	10.0	10.0	100	93	80-126	7	18	
Benzene	**9.37**	**8.53**	10.0	10.0	94	85	80-121	9	16	
1,2-Dichloroethane	**11.1**	**10.3**	10.0	10.0	111	103	80-124	7	15	
Trichloroethene	**10.5**	**9.54**	10.0	10.0	105	95	80-122	10	18	
1,2-Dichloropropane	**9.46**	**8.85**	10.0	10.0	95	89	80-123	7	15	
Dibromomethane	**10.4**	**9.64**	10.0	10.0	104	96	80-123	8	15	
Bromodichloromethane	**10.8**	**9.70**	10.0	10.0	108	97	80-125	11	15	
(cis) 1,3-Dichloropropene	**10.6**	**9.81**	10.0	10.0	106	98	80-129	8	15	
Toluene	**9.63**	**9.18**	10.0	10.0	96	92	80-120	5	18	
(trans) 1,3-Dichloropropene	**11.9**	**11.1**	10.0	10.0	119	111	80-134	7	17	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.97**	**9.87**	10.0	10.0	100	99	77-126	1	20	
Tetrachloroethene	**11.5**	**11.0**	10.0	10.0	115	110	80-124	4	18	
1,3-Dichloropropane	**10.5**	**10.1**	10.0	10.0	105	101	80-120	4	15	
Dibromochloromethane	**11.5**	**10.6**	10.0	10.0	115	106	80-128	8	15	
1,2-Dibromoethane	**11.6**	**10.6**	10.0	10.0	116	106	80-127	9	15	
Chlorobenzene	**11.2**	**11.0**	10.0	10.0	112	110	80-120	2	17	
1,1,1,2-Tetrachloroethane	**11.2**	**10.9**	10.0	10.0	112	109	80-125	3	17	
Ethylbenzene	**11.0**	**10.6**	10.0	10.0	110	106	80-125	4	18	
m,p-Xylene	**22.3**	**21.7**	20.0	20.0	112	109	80-127	3	18	
o-Xylene	**10.9**	**10.7**	10.0	10.0	109	107	80-126	2	18	
Bromoform	**12.6**	**12.0**	10.0	10.0	126	120	80-130	5	15	
Bromobenzene	**11.1**	**10.5**	10.0	10.0	111	105	76-128	6	16	
1,1,2,2-Tetrachloroethane	**10.3**	**10.3**	10.0	10.0	103	103	74-130	0	15	
1,2,3-Trichloropropane	**9.95**	**9.79**	10.0	10.0	100	98	71-129	2	25	
2-Chlorotoluene	**11.2**	**11.4**	10.0	10.0	112	114	80-128	2	18	
4-Chlorotoluene	**11.4**	**11.2**	10.0	10.0	114	112	80-130	2	19	
1,3-Dichlorobenzene	**11.6**	**11.4**	10.0	10.0	116	114	80-126	2	17	
1,4-Dichlorobenzene	**11.3**	**11.3**	10.0	10.0	113	113	80-121	0	17	
1,2-Dichlorobenzene	**11.4**	**11.3**	10.0	10.0	114	113	79-125	1	15	
1,2-Dibromo-3-chloropropane	**11.7**	**11.4**	10.0	10.0	117	114	73-133	3	15	
1,2,4-Trichlorobenzene	**13.6**	**14.5**	10.0	10.0	136	145	80-139	6	18	I
Hexachlorobutadiene	**12.8**	**13.1**	10.0	10.0	128	131	80-151	2	18	
1,2,3-Trichlorobenzene	**13.9**	**15.1**	10.0	10.0	139	151	75-146	8	28	I
Surrogate:										
Dibromofluoromethane					*104*	*102*	*75-127*			
Toluene-d8					*111*	*109*	*80-127*			
4-Bromofluorobenzene					*100*	*103*	*78-125*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Naphthalene	**2.1**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**6.6**	0.15	EPA 8270E/SIM	10-16-23	10-17-23	
1-Methylnaphthalene	**4.6**	0.15	EPA 8270E/SIM	10-16-23	10-17-23	
Benzo[a]anthracene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.071**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.045**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.034**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*69*	*39-111*				
Pyrene-d10	*97*	*47-114*				
Terphenyl-d14	*76*	*44-121*				

Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Naphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**0.11**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.13**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.18**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**0.056**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.13**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**0.16**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**0.031**	0.030	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*39-111*				
Pyrene-d10	*91*	*47-114*				
Terphenyl-d14	*93*	*44-121*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Naphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**0.57**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**0.59**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**0.68**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**0.23**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**0.63**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**0.37**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**0.088**	0.029	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*74*	*39-111*				
Pyrene-d10	*87*	*47-114*				
Terphenyl-d14	*92*	*44-121*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*80*	*39-111*				
Pyrene-d10	*87*	*47-114*				
Terphenyl-d14	*92*	*44-121*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1016S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0700**	**0.0664**	0.0833	0.0833	84	80	57-116	5	16	
Acenaphthylene	**0.0796**	**0.0743**	0.0833	0.0833	96	89	59-124	7	15	
Acenaphthene	**0.0749**	**0.0709**	0.0833	0.0833	90	85	59-124	5	15	
Fluorene	**0.0739**	**0.0752**	0.0833	0.0833	89	90	62-122	2	15	
Phenanthrene	**0.0685**	**0.0776**	0.0833	0.0833	82	93	62-119	12	15	
Anthracene	**0.0749**	**0.0863**	0.0833	0.0833	90	104	64-123	14	15	
Fluoranthene	**0.0757**	**0.0820**	0.0833	0.0833	91	98	63-123	8	15	
Pyrene	**0.0772**	**0.0822**	0.0833	0.0833	93	99	62-124	6	15	
Benzo[a]anthracene	**0.0756**	**0.0754**	0.0833	0.0833	91	91	59-131	0	15	
Chrysene	**0.0784**	**0.0790**	0.0833	0.0833	94	95	61-124	1	15	
Benzo[b]fluoranthene	**0.0783**	**0.0764**	0.0833	0.0833	94	92	60-126	2	15	
Benzo(j,k)fluoranthene	**0.0827**	**0.0847**	0.0833	0.0833	99	102	63-121	2	17	
Benzo[a]pyrene	**0.0783**	**0.0785**	0.0833	0.0833	94	94	60-122	0	15	
Indeno(1,2,3-c,d)pyrene	**0.0760**	**0.0777**	0.0833	0.0833	91	93	58-127	2	15	
Dibenz[a,h]anthracene	**0.0833**	**0.0849**	0.0833	0.0833	100	102	60-124	2	15	
Benzo[g,h,i]perylene	**0.0808**	**0.0817**	0.0833	0.0833	97	98	58-124	1	15	
Surrogate:										
2-Fluorobiphenyl					*80*	*76*	*39-111*			
Pyrene-d10					*83*	*88*	*47-114*			
Terphenyl-d14					*92*	*92*	*44-121*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Aroclor 1016	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.057	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*50-127*				
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Aroclor 1016	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Aroclor 1016	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.055	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*50-127*				

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1016S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	10-16-23	10-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1016S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.428**	**0.432**	0.500	0.500	N/A	**86**	**86**	55-119	1	34	
Surrogate:											
DCB						*92*	*91*	*50-127*			

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-20-6.5**					
Laboratory ID:	10-177-01					
Arsenic	**31**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**82**	2.8	EPA 6010D	10-13-23	10-13-23	
Cadmium	**0.85**	0.57	EPA 6010D	10-13-23	10-13-23	
Chromium	**25**	0.57	EPA 6010D	10-13-23	10-13-23	
Copper	**67**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**49**	5.7	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.28	EPA 7471B	10-16-23	10-16-23	
Nickel	**94**	2.8	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**280**	2.8	EPA 6010D	10-13-23	10-13-23	
Client ID:	**ST-piping-SS-21-2.0**					
Laboratory ID:	10-177-02					
Arsenic	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**41**	2.8	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.55	EPA 6010D	10-13-23	10-13-23	
Chromium	**55**	0.55	EPA 6010D	10-13-23	10-13-23	
Copper	**56**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**18**	5.5	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.28	EPA 7471B	10-16-23	10-16-23	
Nickel	**64**	2.8	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**44**	2.8	EPA 6010D	10-13-23	10-13-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**ST-piping-SS-22-2.0**					
Laboratory ID:	10-177-03					
Arsenic	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Barium	**33**	2.7	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.55	EPA 6010D	10-13-23	10-13-23	
Chromium	**20**	0.55	EPA 6010D	10-13-23	10-13-23	
Copper	**30**	1.1	EPA 6010D	10-13-23	10-13-23	
Lead	**18**	5.5	EPA 6010D	10-13-23	10-13-23	
Mercury	**ND**	0.27	EPA 7471B	10-16-23	10-16-23	
Nickel	**58**	2.7	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	11	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.1	EPA 6010D	10-13-23	10-13-23	
Zinc	**43**	2.7	EPA 6010D	10-13-23	10-13-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1013SM1					
Arsenic	**ND**	10	EPA 6010D	10-13-23	10-13-23	
Barium	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Cadmium	**ND**	0.50	EPA 6010D	10-13-23	10-13-23	
Chromium	**ND**	0.50	EPA 6010D	10-13-23	10-13-23	
Copper	**ND**	1.0	EPA 6010D	10-13-23	10-13-23	
Lead	**ND**	5.0	EPA 6010D	10-13-23	10-13-23	
Nickel	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Selenium	**ND**	10	EPA 6010D	10-13-23	10-13-23	
Silver	**ND**	1.0	EPA 6010D	10-13-23	10-13-23	
Zinc	**ND**	2.5	EPA 6010D	10-13-23	10-13-23	
Laboratory ID:	MB1016S1					
Mercury	**ND**	0.25	EPA 7471B	10-16-23	10-16-23	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	10-091-04										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**18.0**	**17.5**	NA	NA		NA		NA	3	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**9.65**	**9.10**	NA	NA		NA		NA	6	20	
Copper	**16.6**	**17.8**	NA	NA		NA		NA	7	20	
Lead	**24.5**	**27.9**	NA	NA		NA		NA	13	20	
Nickel	**7.25**	**7.35**	NA	NA		NA		NA	1	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**43.8**	**42.7**	NA	NA		NA		NA	3	20	
Laboratory ID:	10-089-02										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	10-091-04										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**102**	**101**	100	100	ND	**102**	**101**	75-125	1	20	
Barium	**116**	**115**	100	100	18.0	**98**	**97**	75-125	1	20	
Cadmium	**47.3**	**46.4**	50.0	50.0	ND	**95**	**93**	75-125	2	20	
Chromium	**109**	**107**	100	100	9.65	**100**	**97**	75-125	2	20	
Copper	**67.1**	**65.7**	50.0	50.0	16.6	**101**	**98**	75-125	2	20	
Lead	**282**	**275**	250	250	24.5	**103**	**100**	75-125	2	20	
Nickel	**108**	**105**	100	100	7.25	**101**	**98**	75-125	2	20	
Selenium	**94.0**	**93.1**	100	100	ND	**94**	**93**	75-125	1	20	
Silver	**24.6**	**24.0**	25.0	25.0	ND	**98**	**96**	75-125	2	20	
Zinc	**139**	**139**	100	100	43.8	**95**	**95**	75-125	0	20	
Laboratory ID:	10-089-02										
Mercury	**0.509**	**0.527**	0.500	0.500	0.0446	**93**	**97**	80-120	3	20	

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Date of Report: October 17, 2023
Samples Submitted: October 13, 2023
Laboratory Reference: 2310-177
Project: Star Forge UST Site Assessment

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
ST-piping-SS-20-6.5	10-177-01	**12**	10-13-23
ST-piping-SS-21-2.0	10-177-02	**10**	10-13-23
ST-piping-SS-22-2.0	10-177-03	**9**	10-13-23

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge UST Site Assessment
Project Manager: N. Moxley
Sampled by: N. Moxley

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ Fastest Available (other)

Laboratory Number: 10-177

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260 *See 1,2,1	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) cPAHs + Naphthalenes	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals + Cu, Ni, Zn	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	ST-piping-SS-20-6.5	10/13/23	0920	S.1	5			X	X	X				X	X				X								40
2	ST-piping-SS-21-2.0	↓	0930	↓	↓			↓	↓	↓				↓	↓				↓								1
3	ST-piping-SS-22-2.0	↓	0940	↓	↓			↓	↓	↓				↓	↓				↓								
4	trip blank			W	3			X		X																	

	Signature	Company	Date	Time
Relinquished		DHE	10/13/23	1100
Received		OHE	10-13-23	1100
Relinquished		OHE	10-13-23	1305
Received		OHE	10/13/23	1305
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Please report to lowest possible limits, but note potentially elevated petroleum concentrations

* EDB, EDC, MTBE, BTEX, HVOCs

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Appendix B

Final Clean Closure Report

Final Dangerous Waste Clean Closure Report

Former Jorgensen Forge Site
RCRA Site ID: WAD000602813

8531 East Marginal Way South
Tukwila, WA 98108

MAY 10th, 2024

Prepared for:

Star Forge, LLC
8531 East Marginal Way South
Tukwila, WA 98108

Prepared by:

DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98134

Executive Summary

This Final Dangerous Waste Clean Closure Report has been prepared by DH Environmental, Inc. for the purpose of documenting efforts undertaken by Star Forge, LLC (Star Forge) to carry out Clean Closure of the Dangerous Waste Management Units at the Former Jorgensen Forge Site located at 8531 East Marginal Way South, Tukwila, WA. In addition, this report presents documentation of disposal of chemicals and other waste generated from demolition of the Former Jorgensen Forge Facility.

The facility is subject to Clean Closure because it was a Large Quantity Generator of Dangerous Waste and operated multiple Dangerous Waste Management Units. As of the date of this report, Star Forge has completed the required Clean Closure activities under the Dangerous Waste Regulations (WAC 173-303-200(h)) and in accordance with Agreed Order No. DE 21034 between the Washington State Department of Ecology and Star Forge, as well as the associated Interim Action Work Plan that incorporated final elements required for Clean Closure. This Final Dangerous Waste Clean Closure Report is a follow-up document to the Star Forge's interim Clean Closure Report submitted to Ecology in July 2022, which is attached for reference.

Project Information

Project Title	Former Jorgensen Forge Site
Project Location	8531 East Marginal Way South Tukwila, WA 98108
Project Owner	Star Forge, LLC 8531 East Marginal Way South Tukwila, WA 98108
Report Delivery Date	April 2024
Report Prepared by	Stacy Fox, CHMM Sr. Project Scientist DH Environmental, Inc. Nathan Moxley, LG, LHG Principal Hydrogeologist DH Environmental, Inc. David Hill, PE, CHMM Principal Engineer DH Environmental, Inc. 

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Attachment 6: July 2020 Dangerous Waste Clean Closure Report

LIST OF ACRONYMS AND ABBREVIATIONS

CAA	Central Accumulation Area
DOT	Department of Transportation
DWMU	Dangerous Waste Management Unit
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
HVOC	Halogenated Organic Compounds
MTCA	Washington State Model Toxics Control Act
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
SVOC	Semivolatile Organic Compounds
TCLP	Toxicity Characteristic Leachate Procedure
TSDF	Treatment, Storage and Disposal Facility
VOC	Volatile Organic Compounds

1.0 OVERVIEW

DH Environmental, Inc. (DH Environmental) has prepared this Report on behalf of Star Forge, LLC (Star Forge) to document final Clean Closure of the former Jorgensen Forge Facility located at 8531 East Marginal Way South, Tukwila, Washington (the "Facility"; Figure 2). The purpose of this document is to report the results of the efforts that have been undertaken by Star Forge to carry out Clean Closure of the applicable Dangerous Waste Management Units at the Facility in accordance with WAC 173-303-610(2) and (5) and in accordance with Agreed Order No. DE 21034 between the Washington State Department of Ecology and Star Forge LLC, as well as the associated Interim Action Work Plan that incorporated final elements required for Clean Closure. This Final Dangerous Waste Clean Closure Report is a follow-up document to Star Forge's interim Clean Closure Report submitted to Ecology in July 2022, which is attached for reference.

1.1 Site Description[1]

The former Jorgensen Forge Site is approximately 21.6 acres, located in an industrial area along the east bank of the Lower Duwamish Waterway. The site is bordered to the north by the Boeing Plant 2 property, and to the south by the Boeing Isaacson property. It is bordered to the west by the Lower Duwamish Waterway, and to the east-by-East Marginal Way South and the King County Regional Airport.

The Facility was used from 1942-1965 for fabrication of structural steel, tractor and road equipment. Operations at the site included forging and heat-treating by Isaacson Iron Works, which operated as a U.S. naval vessel manufacturer.

The Facility was owned and operated by Earle M. Jorgensen Company (EMJ) from 1965 until 1992, when it was purchased by the plant management group and became the Jorgensen Forge Corporation. Jorgensen manufactured specialized large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. They also processed nickel, titanium, and specialized alloys.

Contamination at the Facility is the result of heavy industrial use since the 1940's, and possible contaminated groundwater migrating onto the property from off-site sources.

Contaminants of concern at the site include:

- Polychlorinated biphenyls (PCBs)
- Volatile organic compounds (VOCs)
- Halogenated volatile organic compounds (HVOCs)
- Metals (including but not limited to arsenic, cadmium, chromium, lead, nickel, copper, and zinc)
- Petroleum hydrocarbons

[1] Information in this section was derived from the Washington State Department of Ecology's Jorgensen Forge Corp. Site Information webpage page: https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=3689

1.2 Clean Closure Overview

Closure is the term used in the Dangerous Waste Regulations to refer to the process of taking a Dangerous Waste Management Unit (DWMU) out of service and properly cleaning up or decontaminating the DWMU and any areas affected by potential releases from the DWMU. When this process is finished, a unit is referred to as "closed."[2]

Generators are required to meet closure performance standards at WAC 173-303-610(2) and (5). This means that when a DWMU is closed all Dangerous Waste must be removed, and DWMUs that managed or accumulated Dangerous Wastes must be removed or decontaminated.

After wastes and waste residues are removed and units have been inspected, facility owners and generators will manage two types of materials during closure: debris (such as unit parts, structures, piping, equipment, and unit containment systems) and environmental media (such as soil, groundwater, surface water, and sediments). In accordance with Ecology's guidance for Clean Closure, if environmental media has been contaminated as a result of DWMU operations, and cleanup levels have not been established for a site, then by default, MTCA Method A or B unrestricted cleanup levels can be used to achieve Clean Closure of the associated DWMU.

The following sections describe the efforts taken to comply with the requirements for Clean Closure of the DWMUs. In addition, all chemical products, abated hazardous building materials, and industrial materials at the facility that could not be beneficially reused were designated in accordance with WAC 173-303-070 and disposed of off-site at a RCRA permitted Treatment, Storage, and Disposal Facility (TSDF), or other properly permitted disposal facility if the waste did not designate as Dangerous Waste. Table 1 summarizes the waste disposed of associated with the DWMU Clean Closures, and chemical products and industrial materials requiring disposal as dangerous waste for demolition and overall closure of the Facility. The initial Clean Closure Report submitted in July 2020 contains details about removal and disposal of other wastes not discussed in this final Clean Closure Report but are included in the disposal summary in Table 1.

[2]Ecology, 2005. *Guidance for Clean Closure of Dangerous Waste Units and Facilities*. Hazardous Waste and Toxics Reduction Program. Publication No. 94-111.

2.0 CLOSURE OF DANGEROUS WASTE MANAGEMENT UNITS

For the purpose of Clean Closure in accordance with the Dangerous Waste Regulations, DH Environmental evaluated various areas at the Facility that generated and/or stored Dangerous Waste through historical records and discussions with former staff. Some of these areas served as Dangerous Waste Central Accumulation Areas (CAAs), while others were locations where waste was generated and temporarily stored. Figure 2 shows the areas determined to be DWMU's subject to closure.

The following areas were determined to be DWMU's subject to closure because they either served as CAAs, or waste was generated and temporarily stored and handled in quantities greater than 55 gallons. The Clean Closure work summarized below was all conducted in conjunction with general demolition of the entire facility in 2023 and 2024, and in accordance with the Interim Action Workplan.

2.1 Central Accumulation Area DWMU

The Central Accumulation Area (CAA) was one of two 90/180-day Dangerous Waste accumulation areas. The CAA was located on the northwest corner of the Facility and the location is shown in Figure 2. The CAA was an approximately 1,000 square feet (SF) structure with aluminum siding, a concrete slab, and an approximately 1 ft. concrete base wall that served as secondary containment. The CAA stored Dangerous Waste in drums and small containers generated from facility maintenance and operations. Based on historical documents and interviews with facility staff, the structure at one time contained a 300 gallon above ground storage tank that serviced diesel fuel. Consequently, the structure was also known as the "diesel house". As discussed in the July 2020 Clean Closure Report, due to visual staining of the concrete inside the CAA, an attempt to decontaminate the concrete was made using high pressure steam and water sprays. However, subsequent sampling of the concrete slab revealed the concrete still exceeded MTCA Method A, Unrestricted, for Diesel Range Organics. Consequently, it was written into the Interim Action Workplan that the concrete would be removed, designated, and disposed of off-site, and the underlying soil would be sampled for Diesel Range Organics in accordance with the IAWP Sampling and Analysis Plan to determine if any excavation of underlying soil would be necessary to achieve Clean Closure of this DWMU. In August 2023, the CAA was demolished, and the underlying soil concentrations of Diesel Range Organics were confirmed to be less than the MTCA Method A unrestricted soil cleanup level of 2,000 milligrams per kilogram (mg/kg). After backfilling the footprint of the CAA with approved and tested clean fill (crushed rock), the CAA was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5). Further details about closure of the CAA, including data and photo documentation, are included in the individual CAA Clean Closure Package in Attachment 1.

2.2 Tote Storage Area DWMU

The Tote Storage Area was another 90/180-day Dangerous Waste accumulation area located on the west side of the Facility and the location is shown in Figure 2. The Tote Storage Area was an approximately 800 SF structure with wooden siding and an asphalt slab. The Tote Storage Area stored Dangerous Waste and used oil totes and drums generated from facility maintenance and operations. Based on historical documents and interviews with facility staff, the structure at one time was used to clean and etch product samples prior to laboratory testing.

Subsequently, the structure was also known as the "Acid House" or "Etch House" before it was used as a 90/180-day Dangerous Waste accumulation area in the 1990s.

Similar to the CAA, the Tote Storage Area slab was found to be visually impacted with staining and suspected historical releases. After the slab was treated in accordance with Clean Closure Performance standards using high-pressure steam and water sprays, the asphalt slab was sampled in June of 2020, and found to exceed MTCA Method A concentrations for Diesel Range Organics as well as PCBs. In addition, subsurface sampling in the Tote Storage Area was conducted by Shannon and Wilson in November 2020 and January 2021 to support a Remedial Investigation being conducted by the former owner of the facility (EMJ). The results of the subsurface sampling of the Tote Storage Area revealed that PCBs exceeded the MTCA Method A soil cleanup level of 1 mg/kg, at depths up to 1.5-feet below grade in two locations. Consequently, it was written into the IAWP that the concrete would be removed, designated, and disposed of off-site, and the underlying soil would be excavated to depths necessary to achieve cleanup levels. In addition, the IAWP required confirmation sampling to be conducted in accordance with the IAWP Sampling and Analysis Plan to demonstrate that cleanup levels for PCBs and diesel range organics were obtained.

In October 2023, the Tote Storage Area superstructure and slab were demolished, and excavation was conducted to maximum depth of 2 feet within the footprint of the structure (including the entrance ramp). This resulted in removal of approximately 98 tons of soil/debris from the Tote Storage Area footprint. After confirmation sampling confirmed all cleanup levels were met, the footprint of the Tote Storage Area was backfilled with approved and tested clean fill (crushed rock). As such, the Tote Storage Area was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5). Further details about closure of the Tote Storage Area, including data and photo documentation, are included in the individual Tote Storage Area Clean Closure Package in Attachment 2.

2.3 Baghouse DWMU

The baghouse and baghouse processing area were located north of the west end of the main building and north of the tote storage building. The baghouse building was approximately 4,000 SF, and housed equipment to capture and contain dust from the baghouse tunnel that conveyed air and dust from the former melt shop to the baghouse. The baghouse dust was designated as a K061 waste stream as it meets the definition of K061 Specific Source Waste from iron and steel sources in accordance with WAC 173-303-9904. The baghouse processing area and concrete slab were divided by a wall thereby creating two separate areas denoted as 'Baghouse North' and 'Baghouse South' for the purposes of cleaning and sampling. Only the Baghouse North slab exceeded Clean Closure cleanup levels for diesel range organics and hexavalent chromium. After the baghouse structure was demolished, the Baghouse North slab was excavated and disposed of offsite as K061 Hazardous Waste. The underlying soil was then sampled in accordance with the IAWP and found to meet MTCA Method A cleanup levels for diesel range organics and hexavalent chromium.

The baghouse tunnel was the baghouse dust conveyance duct connecting the former melt shop and the baghouse. Although significant dust removal was conducted in 2019 by Clean Harbors as contracted by Star Forge, some K061 dust remained in the duct that could not be safely removed until it was lowered to the ground and reduced to smaller sections. The baghouse tunnel was cut in place and carefully lowered to the ground using cranes onto

bermed exclusion zones where the ducting and all associated equipment was inspected again prior to further reduction. All remaining dust was removed using a combination of "wet wiping", scraping, and the use of a vacuum with HEPA filters. All media generated from removing the residual dust inside the duct was managed as K061 Hazardous Waste. Once the Clean Debris performance standards were met in accordance with WAC 173-303-610(2) and (5), the tunnel sections were shipped off site for recycling. Where sections of the ducting could not meet the Clean Debris standard, for example, along expansion joints, those sections were disposed of as K061 waste.

In November 2023, the baghouse and associated equipment were effectively demolished. The decontamination of the baghouse media, along with disposal of materials that could not be reasonably decontaminated resulted in generation and disposal of approximately 106 tons of K061 Debris that was placed in 20-yard roll-off bins and shipped via rail to Chemical Waste Management in Arlington, OR for macroencapsulation and disposal. In addition, approximately 282 gallons (2,350 lbs) of K061 designated water was generated from decontamination efforts. This water was also disposed of at Chemical Waste Management in Arlington, OR.

On 11/18/2023, the underlying soil of the Baghouse North footprint was sampled in accordance with the IAWP SAP and was demonstrated to meet all cleanup levels. After the footprint of the baghouse was backfilled with approved and tested clean fill (crushed rock), the Baghouse DWMU was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5).

An individual DWMU Closure Package was developed for each of these areas and is provided in Attachments 1-3. Confirmation sampling laboratory data of underlying soil, photo logs, and disposal documentation (hazardous waste manifests) are included in the individual closure packages. The closure requirements for each DWMU have been met and are described in detail in the individual packages.

3.0 LIME HOPPER RELEASE INCIDENT

On the southwest side of the Facility, there was an elevated storage hopper approximately 25 feet above ground containing lime that was historically used in forging operations. This hopper was enclosed inside a structure and elevated, so it was not apparent to anyone that it contained any materials. This area of the facility, referred to as the "melt shop," ceased operation in 2015, prior to Star Forge's ownership of the facility. Therefore, the on-site presence of this lime was unknown to all parties.

On 11/22/2023, the lime hopper was breached by Star Forge's demolition contractor while cutting into the structure for demolition. The breach resulted in an estimated 500-lbs of lime falling from the vessel onto the ground. Due to the northerly wind direction and location of the hopper being approximately 150 feet from the south property line, some of the lime crossed over onto Boeing's property adjacent to the south. The lime did not impact the Duwamish River because the wind was blowing directly south. The wind was light to moderate at the time of the release.

All catch basins in the area of demolition were blocked prior to the incident occurring as a stormwater Best Management Practice. In addition, all stormwater drainage at the Facility is treated and batched tested before discharging the Lower Duwamish under two Administrative Orders with the WA State Department of Ecology.

No injuries or exposures were reported because of this release. Lime (calcium hydroxide/calcium oxide) is not highly toxic, but it does designate as Dangerous Waste in accordance with the WA State Dangerous Waste regulations because when mixed with an equal weight of water, the pH exceeds 12.5. This testing was conducted on-site by DH Environmental with a pH meter. Washington has a State-Only Dangerous Waste designation of WSC2 for corrosive solids. Due to this release qualifying as a "Dangerous Waste Release", the Washington State Emergency Management Division (1-800-258-5990) was notified in addition to the National Response Center (1-800-424-8802). Beau Johnson, the Ecology Site Manager, was also notified, in addition to the Boeing EHS manager for the property to the south. The incident was assigned a Washington Statewide Environmental Tracking System (ERTS) number 726905.

After initial actions were taken to clean up the lime that was released to the ground and temporarily contain the lime inside the hopper to avoid further dispersion, Star Forge's team assessed removal actions and began planning for removal of the remaining lime in the elevated hopper. From 11/22/2023 – 12/7/2023, Star Forge, through its demolition contractor, Construction Group International, deployed HAZMAT workers elevated on a scissor lift to remove the remaining lime from the elevated hopper using air movers and vacuum boxes to contain the lime without dispersion. The lime was successfully removed from the hopper and contained in DOT vacuum bins for off-site disposal. Impacted subsurface debris and gravel was loaded into roll off boxes for offsite disposal as well. All lime and impacted debris associated with the cleanup was designated as WA State Dangerous Waste Corrosive Solid (WSC2) and WA State Dangerous Waste, Toxic (WT02). This resulted in disposal of 95 tons of lime and impacted debris. All of the waste associated with the cleanup was disposed of at Chemical Waste Management in Arlington, OR. Attachment 5 is the Incident Report that was delivered to all authorities and parties notified of the incident.

5.0 HAZARDOUS BUILDING MATERIALS ABATEMENT AND DISPOSAL

In August 2019, SoundEarth Strategies contracted with Star Forge to complete the pre-demolition hazardous building materials survey of the Former Jorgensen Forge Facility in accordance with the Washington State Labor and Industries "Good Faith Inspection" requirements (WAC 296-62-07721) and the Puget Sound Clean Air Agency asbestos survey requirements.

From September 2019 to February 2020, Star Forge's demolition contractor, Construction Group International (a licensed abatement contractor) conducted abatement activities of the hazardous building materials identified in the survey reports prior to demolition except for the Galbestos[3] siding identified in the survey that was found to contain asbestos greater than one percent. Removal of the Galbestos siding was conducted in conjunction with demolition in 2023 and 2024 and was classified as Class 2 Asbestos Work[4].

Abatement of the hazardous building materials identified in the pre-demolition survey resulted in removal and disposal of approximately 72 cubic yards of materials classifying as friable asbestos and 661 tons of materials classifying as non-friable asbestos which was primarily Galbestos siding. In addition, PCB Bulk Product Waste[5] was identified in the Tote Storage Area paint on structural beams and was profiled and disposed of along with other PCB Remediation Waste associated with the Tote Storage Area DWMU closure (see Attachment 2 for further details).

[3] Galbestos is the registered trademark for galvanized panels consisting of thick gauge, corrugated galvanized metal sheeting with thin, double-sided asbestos felt-like coatings.

[4] *Class II asbestos work* means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

[5] PCB bulk product waste is waste derived from products manufactured to contain PCB in a non-liquid state at 50 parts per million or greater, such as paint and sealants.

6.0 SUMMARY

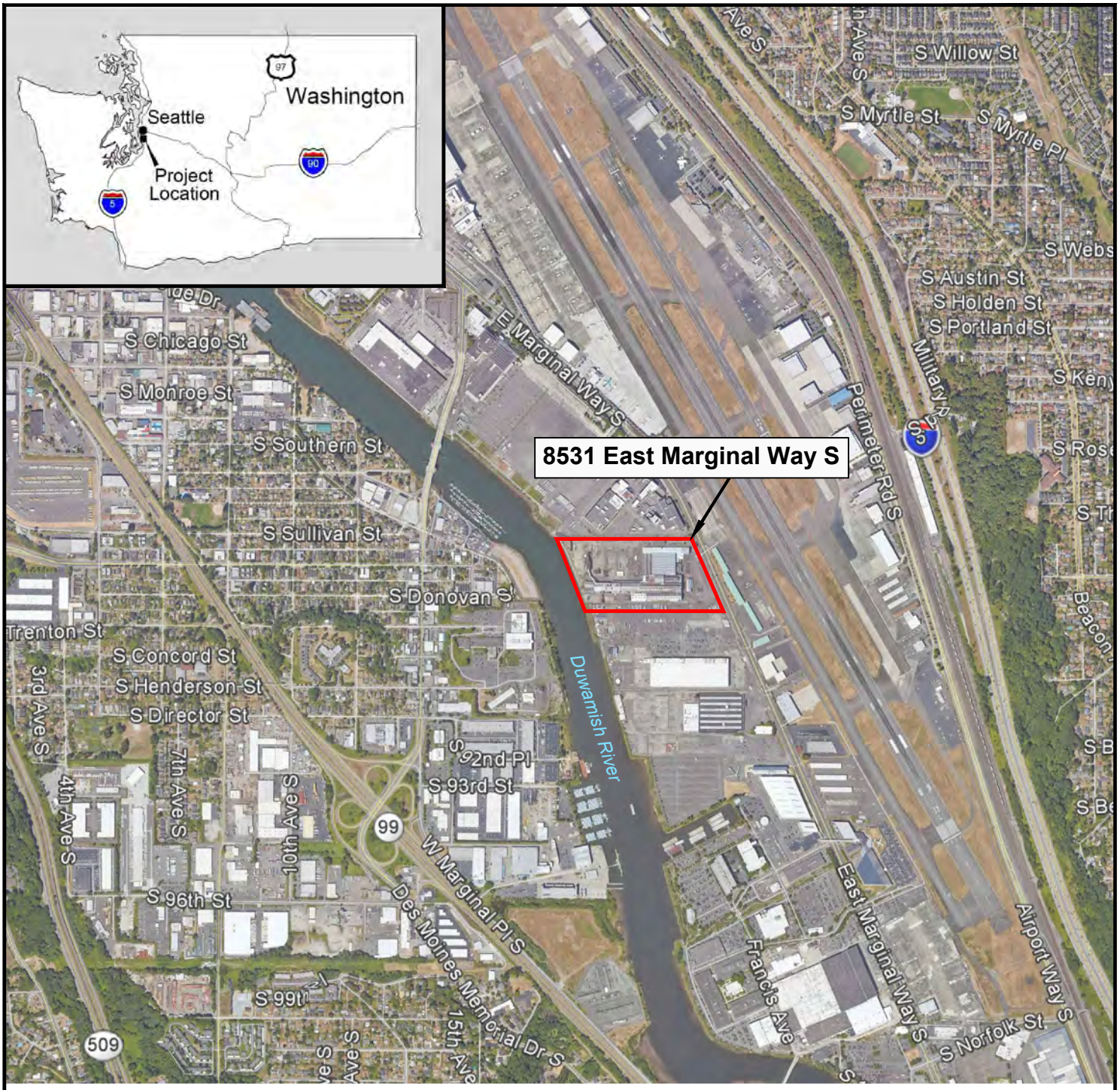
DH Environmental was contracted by Star Forge to assist with facilitation and documentation of Dangerous Waste Clean Closure for the former Jorgensen Forge Facility located at 8531 East Marginal Way South Tukwila, WA. From 2020 – 2024, DH Environmental supported Star Forge with Facility cleanouts from shops and work areas, DWMU designation and evaluation, DWMU cleaning and confirmation sampling, and overall documentation of Clean Closure activities occurring concurrently with demolition operations. As of the date of this report, Star Forge has completed the required Clean Closure requirements under the Dangerous Waste Regulations (WAC 173-303-200(h)) and in accordance with Agreed Order No. DE 21034 between the Washington State Department of Ecology and Star Forge, LLC. The 2023 Dangerous Waste Annual Report has been updated to include notification of closure of the three DWMUs described in in this Final Clean Closure Report and is included in Attachment 4.

TABLE - 1
Star Forge, LLC
Hazardous Waste Shipments from Overall Facility Closure
2018 - 2024

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code	TSCA
CH1721830-1	PPE from decontamination of facility	11/08/2018	75	12885240FLE	D007	NA	NA
CH1721784-1	Sludge from decontamination of facility	11/08/2018	1200	12885239FLE	D007	NA	NA
CH1735588	Aquasol 20 20	01/11/2019	356	012885528FLE	D002	NA	NA
CH1742114	CH2O Boiler Treatment - 6267	01/11/2019	293	012885527FLE	D002	NA	NA
CH1750992	Consolidated Aerosol Liquids	01/11/2019	139	012885528FLE	D001, D035	NA	NA
1282936-1	Contaminated Grease	01/11/2019	235	012885527FLE	NONE	WT02	NA
CH1735567	Coolacide - Loosepack	01/11/2019	110	012885528FLE	NONE	WP02, WT02	NA
CH1729496	Eliminator 103 - Loosepack	01/11/2019	25	012885528FLE	NONE	WT02	NA
1282936-1	Contaminated Grease	01/17/2019	167	011776126FLE	NONE	WT02	NA
CH1786528	Consolidated Acids	02/18/2019	132	012884952FLE	D002	NA	NA
CH1786533	Flammable acids	02/18/2019	135	012884952FLE	D001, D002	NA	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	02/18/2019	30	012884952FLE	D002	WT02	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	02/18/2019	22	012884952FLE	D001, D002	WT02	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	02/18/2019	6	012884952FLE	D002	WT02	NA
LCCRB	Labpack Basic & Basic Compatibles For Incineration	02/18/2019	60	012884952FLE	D002	WT02	NA
LCCRC	Labpack Organics For Incineration	02/18/2019	37	012884952FLE	NONE	WT02	NA
LCCRO	Labpack Oxidizers For Incineration	02/18/2019	7	012884952FLE	D001, D003	WT02	NA
ES1785848	Pit Cleaning Sludge	02/18/2019	8457	012886241FLE	D004,D007,D008	NA	NA
ES1785845	Pit Cleaning Sludge	02/18/2019	2788	012886241FLE	D006,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	03/15/2019	8418	012886248FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	03/15/2019	10841	012886264FLE	D004,D007,D008	NA	NA
ES1795989	Ring Mill Coolant - Antifreeze	03/22/2019	9988	012886287FLE	NONE	WT02	NA
ES1785848	Pit Cleaning Sludge	05/03/2019	9851	012886309FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	05/03/2019	2865	012886328FLE	D004,D007,D008	NA	NA
OR329284	Pit Cleaning Sludge	05/08/2019	8500	011968468FLE	D004,D007,D008	NA	NA
OR329284	Pit Cleaning Sludge	05/17/2019	12780	011961581FLE	D004,D007,D008	NA	NA
OR329284	Pit Cleaning Sludge	05/17/2019	3060	011961582FLE	D004,D007,D008	NA	NA
OR340979	Vault Sludge	05/20/2019	10000	012886361FLE	NONE	WP02, WT02	NA
OR329284	Pit Cleaning Sludge	05/23/2019	16160	011961597FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	05/31/2019	17976	012886371FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	06/03/2019	7719	012886372FLE	D004,D007,D008	NA	NA
ES1795989	Ring Mill Coolant - Antifreeze	06/12/2019	1260	012886377FLE	NONE	WT02	NA
OR340979	Vault Sludge	06/25/2019	10960	012886384FLE	NONE	WP02, WT02	NA
OR340979	Vault Sludge	06/25/2019	1080	012886385FLE	NONE	WP02, WT02	NA
OR340979	Vault Sludge	06/26/2019	39660	011968520FLE	NONE	WP02, WT02	NA
OR340979	Vault Sludge	06/26/2019	33580	011968521FLE	NONE	WP02, WT02	NA
OR340979	Vault Sludge	07/10/2019	53120	020246762JJK	NONE	WP02, WT02	NA
1877983	Echogel - Unused	08/02/2019	554	011968578FLE	NONE	WT02	NA
1883817	Echogel - Used	08/02/2019	2946	011968578FLE	NONE	WT02	NA
ES1785848	Pit Cleaning Sludge	08/06/2019	12786	012886399FLE	D004,D007,D008	NA	NA
OR329284	Pit Cleaning Sludge	09/12/2019	15820	011961788FLE	D004,D007,D008	NA	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	10/11/2019	252	013867363FLE	D001, D002	NA	NA
LCCRB	Labpack Basic & Basic Compatibles For Incineration	10/11/2019	200	013867363FLE	D002	NA	NA
OR343220	Oil Tank Cleaning Sludge	11/06/2019	19160	012886418FLE	NONE	WT02	NA
49312	Area-wide Dust	11/18/2019	63320	012886445FLE	NONE	WT02	NA
49312	Area-wide Dust	11/19/2019	64780	012886444FLE	NONE	WT02	NA
49312	Area-wide Dust	11/21/2019	63020	012886471FLE	NONE	WT02	NA
49312	Area-wide Dust	11/21/2019	63000	012886472FLE	NONE	WT02	NA
49312	Area-wide Dust	11/25/2019	61380	012886473FLE	NONE	WT02	NA
49312	Area-wide Dust	11/25/2019	64320	012886474FLE	NONE	WT02	NA
49312	Area-wide Dust	12/03/2019	62000	012886475FLE	NONE	WT02	NA
49312	Area-wide Dust	12/03/2019	64000	012886476FLE	NONE	WT02	NA
49312	Area-wide Dust	12/05/2019	62000	012886477FLE	NONE	WT02	NA
49312	Area-wide Dust	12/05/2019	64000	012886478FLE	NONE	WT02	NA
49312	Area-wide Dust	12/09/2019	62000	012886479FLE	NONE	WT02	NA
49312	Area-wide Dust	12/09/2019	62000	012886480FLE	NONE	WT02	NA
49312	Area-wide Dust	12/09/2019	64000	012886481FLE	NONE	WT02	NA
49312	Area-wide Dust	12/10/2019	62000	012886482FLE	NONE	WT02	NA
49312	Area-wide Dust	12/11/2019	62000	012886483FLE	NONE	WT02	NA
49312	Area-wide Dust	12/11/2019	62000	012886484FLE	NONE	WT02	NA
49312	Area-wide Dust	12/11/2019	64000	012886485FLE	NONE	WT02	NA
49312	Area-wide Dust	12/12/2019	62000	012886486FLE	NONE	WT02	NA
49312	Area-wide Dust	12/13/2019	63020	012886487FLE	NONE	WT02	NA
49312	Area-wide Dust	12/13/2019	64000	012886488FLE	NONE	WT02	NA
49312	Area-wide Dust	12/15/2019	62000	012886491FLE	NONE	WT02	NA
49312	Area-wide Dust	12/16/2019	64000	012886489FLE	NONE	WT02	NA
49312	Area-wide Dust	12/16/2019	62000	012886490FLE	NONE	WT02	NA
49312	Area-wide Dust	12/17/2019	64000	012886492FLE	NONE	WT02	NA
49312	Area-wide Dust	12/18/2019	63000	012886493FLE	NONE	WT02	NA
49312	Area-wide Dust	12/18/2019	62000	012886494FLE	NONE	WT02	NA
49312	Area-wide Dust	12/19/2019	62000	012886495FLE	NONE	WT02	NA
49312	Area-wide Dust	12/19/2019	64000	012886509FLE	NONE	WT02	NA
49312	Area-wide Dust	12/20/2019	64000	012886500FLE	NONE	WT02	NA
49312	Area-wide Dust	12/20/2019	62000	012886501FLE	NONE	WT02	NA
49312	Area-wide Dust	12/20/2019	62000	012886502FLE	NONE	WT02	NA
49312	Area-wide Dust	01/08/2020	62740	012886503FLE	NONE	WT02	NA
49312	Area-wide Dust	01/30/2020	60560	012886504FLE	NONE	WT02	NA
49312	Area-wide Dust	02/10/2020	61460	012886505FLE	NONE	WT02	NA
49312	Area-wide Dust	02/10/2020	61100	012886506FLE	NONE	WT02	NA
OR344535	Baghouse Dust	02/10/2020	19760	014224090FLE	K061	NA	NA
OR343941	AOD pit Solids	02/11/2020	34260	014224089FLE	D007	NA	NA
OR343941	AOD pit Solids	02/11/2020	21660	014224091FLE	D007	NA	NA
49312	Area-wide Dust	02/12/2020	62780	012886507FLE	NONE	WT02	NA

TABLE - 1
Star Forge, LLC
Hazardous Waste Shipments from Overall Facility Closure
2018 - 2024

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code	TSCA
49312	Area-wide Dust	02/13/2020	62220	012886508FLE	NONE	WT02	NA
OR344529	Baghouse Dust/Debris	02/17/2020	4440	013537409FLE	K061	NA	NA
OR344529	Baghouse Dust/Debris	02/17/2020	3880	013537410FLE	K061	NA	NA
OR344529	Baghouse Dust/Debris	02/17/2020	2840	013537411FLE	K061	NA	NA
OR344535	Baghouse Dust	02/25/2020	20620	013537408FLE	K061	NA	NA
49312	Area-wide Dust	02/27/2020	63500	012886511FLE	NONE	WT02	NA
OR344529	Baghouse Dust/Debris	03/12/2020	4220	013537460FLE	K061	NA	NA
OR344341	Stormwater Treatment Tank Sludge	03/19/2020	48900	012886530FLE	D007, D008	NA	NA
49312	Area-wide Dust	03/31/2020	20700	012886541FLE	NONE	WT02	NA
49312	Area-wide Dust	03/31/2020	27020	012886544FLE	NONE	WT02	NA
49312	Area-wide Dust	03/31/2020	16600	012886545FLE	NONE	WT02	NA
49312	Area-wide Dust	03/31/2020	20860	012886546FLE	NONE	WT02	NA
49312	Area-wide Dust	03/31/2020	21480	012886551FLE	NONE	WT02	NA
CH1997101	Paint chips/Dust/Sandblast media	04/01/2020	180	014582446FLE	D005, D006, D007, D008	NA	NA
ES1785848	Pit Cleaning Sludge	04/01/2020	400	014582446FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	04/01/2020	400	014582446FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	04/01/2020	400	014582446FLE	D004,D007,D008	NA	NA
CH1997777	Safety Klean Cleaning Solvent	04/01/2020	190	014582447FLE	D001, D039	NA	NA
CH1997727	Salt Rock	04/01/2020	400	014582446FLE	D004, D005, D006, D007, D008, D010	NA	NA
CH1997099	Oil Based Paint	04/02/2020	120	014582452FLE	D001, D005, D006, D007, D008, D011, D035	NA	NA
ES1785848	Pit Cleaning Sludge	04/02/2020	600	014582453FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	04/02/2020	600	014582453FLE	D004,D007,D008	NA	NA
ES1785848	Pit Cleaning Sludge	04/02/2020	600	014582453FLE	D004,D007,D008	NA	NA
49312	Area-wide Dust	04/20/2020	11580	012886243FLE	NONE	WT02	NA
OR344535	Baghouse Dust	04/28/2020	31660	008281988FLE	K061	NA	NA
OR344535	Baghouse Dust	04/28/2020	31500	008281990FLE	K061	NA	NA
CH2030655	Filter Cleaning Wash Water contaminated with Baghouse Dust	06/18/2020	8650	014587860FLE	K061, D007	NA	NA
CH344529	Baghouse Dust/Debris	06/18/2020	700	014587861FLE	K061	NA	NA
OR345145	Baghouse Decon Water	06/29/2020	375	020121293JJK	K061	NA	NA
OR345146	Baghouse Dust	06/29/2020	5000	020121293JJK	K061	NA	NA
OR345148	Baghouse Debris	06/29/2020	600	020121293JJK	K061	NA	NA
OR345688	Spill cleanup debris from vandalized transformer	09/25/2020	220	021751122JJK	NONE	NONE	PCB
OR346417	Lithium Grease	02/19/2021	30	021751223JJK	NONE	WT02	NA
OR346415	Hydrochloric Acid	02/19/2021	25	021751223JJK	D002	NA	NA
OR350784	Non-Fluorinated AFFF	06/14/2022	667	023708599JJK	NONE	WP02	NA
OR350789	AFFF contaminated Debris Disposal of Non-flourinated AFFF vessels.	06/16/2022	2080	023708603JJK	NONE	WP02	NA
OR350974	Catch Basin Solids Waste	06/24/2022	1914	023708607JJK	NONE	NONE	PCB
OR356878	Lead Paint Chips - Oil Shed Demo	10/20/2023	950	023708954JJK	D008	NA	NA
OR350947	Spill cleanup debris from vandalized transformer	10/20/2023	1584	023708954JJK	NONE	NONE	PCB
OR356878	Lead Paint Chips	10/20/2023	950	023708954JJK	D008	NA	NA
OR356857	Tote Storage Building Demolition	10/24/2023	57,380.00	023708958JJK	NONE	NONE	PCB
OR356857	Tote Storage Building Demolition	10/24/2023	57,840.00	023708959JJK	NONE	NONE	PCB
OR356857	Tote Storage Building Demolition	10/24/2023	44,900.00	023708960JJK	NONE	NONE	PCB
OR356857	Tote Storage Building Demolition	10/24/2023	35,220.00	023708961JJK	NONE	NONE	PCB
OR356547	K061 Debris	10/25/2023	5400	023708963JJK	K061	NA	NA
OR356547	K061 Debris	11/21/2023	41860	023708972JJK	K061	NA	NA
OR356547	K061 Debris	11/21/2023	38900	023708973JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	47320	023708986JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	7480	023708987JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	28940	023708988JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	9320	023708989JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	31880	023709000JJK	K061	NA	NA
OR357669	Lime Decon water	12/11/2023	4000	023708907JJK	D002	NA	NA
OR357533	Lead Debris	12/14/2023	37120	025895501JJK	D008	NA	NA
OR357533	Lead Debris	12/14/2023	50840	025895502JJK	D008	NA	NA
OR357533	Lead Debris	12/14/2023	36880	025895505JJK	D008	NA	NA
OR357533	Lead Debris	12/14/2023	48980	025895506JJK	D008	NA	NA
OR357533	Lead Debris	12/14/2023	35540	025895507JJK	D008	NA	NA
OR357535	Lime Debris	12/14/2023	18280	025895512JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	19100	025895513JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	12180	025895514JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	31600	025895515JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	30220	025895516JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	32890	025895517JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	26000	025895518JJK	NONE	WSC2, WT02	NA
OR357535	Lime Debris	12/14/2023	19110	025895519JJK	NONE	WSC2, WT02	NA
OR357533	Lead Debris	12/15/2023	24780	025895508JJK	D008	NA	NA
OR357562	K061 decon water	12/18/2023	2200	025895530JJK	K061	NA	NA
OR357562	K061 decon water	12/18/2023	150	025895530JJK	K061	NA	NA
OR357799	Debris from cleanup of vandalized transformer	12/27/2023	57140	018614506FLE	NONE	NONE	PCB
OR357799	Debris from cleanup of vandalized transformer	12/27/2023	45360	018614507FLE	NONE	NONE	PCB
OR357799	Debris from cleanup of vandalized transformer	12/27/2023	46380	018614508FLE	NONE	NONE	PCB
OR357799	Debris from cleanup of vandalized transformer	12/27/2023	54100	018614509FLE	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/11/2024	52820	017543360JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/11/2024	56820	017543361JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/22/2024	64940	025895556JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/22/2024	57600	025895557JJK	NONE	NONE	PCB
OR347800	Drained TSCA Transformer Carcass Disposal	01/24/2024	2240	025895525JJK	NONE	NONE	PCB
OR358045	Drained non-TSCA Transformer Carcass Disposal	01/24/2024	16530	025895526JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/30/2024	60152.4	025895550JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	01/30/2024	60280	025895553JJK	NONE	NONE	PCB
OR357533	Lead Debris	02/01/2024	34160	025895511JJK	D008	NA	NA
OR357930	PCB impacted soil discovered during demo of Powerhouse	02/01/2024	34440	025895551JJK	NONE	NONE	PCB
OR357930	PCB impacted soil discovered during demo of Powerhouse	02/01/2024	35120	025895552JJK	NONE	NONE	PCB
OR357533	Lead Debris	02/23/2024	23860	025895503JJK	D008	NA	NA
OR357533	Lead Debris	02/23/2024	33660	025895504JJK	D008	NA	NA
OR357533	Lead Debris	02/23/2024	31640	025895510JJK	D008	NA	NA
OR357533	Lead Debris	03/04/2024	25161	025895600JJK	D008	NA	NA
OR357533	Lead Debris	03/04/2024	23570	025895601JJK	D008	NA	NA



LEGEND

Property Location

N

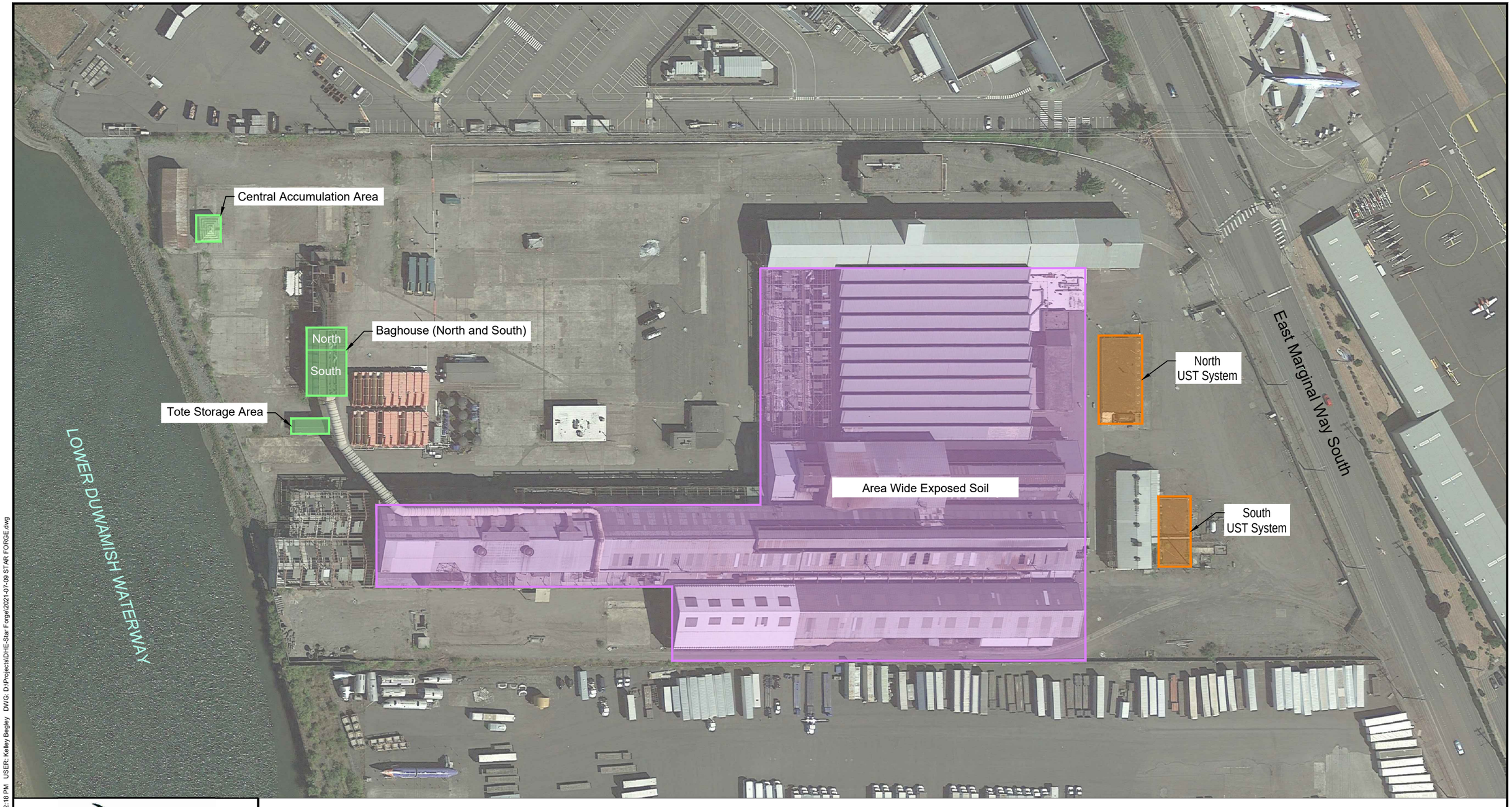
Background Images Source: Google Earth Pro 5/26/2018

DH Environmental Inc

VICINITY MAP

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, Washington	05-22-2020	Figure 1

PLOT TIME: 5/22/2020 11:18 AM MOD TIME: 5/22/2020 11:17 AM USER: Kelley Begley DWG: P:\DH Environmental\Site\Jorgensen\DH 2020-05 Jorgensen Vic Map.dwg



Interim Action Work Areas

Former Jorgensen Forge Facility 8531 E. Marginal Way S. Tukwila, WA, 98108	07/12/2021	Figure 2

Legend

- Former Dangerous Waste Management Units
- Underground Storage Tank Systems
- Area Wide Interior Soil and Dust

Note:

1. Aerial Photography Source: Google Earth Pro, 08/14/2020.

N

0 60 120

Scale in Feet

PLOT TIME: 7/12/2021 2:19 PM MOD TIME: 7/12/2021 2:18 PM USER: Kelley Begley DWG: D:\Projects\DHE-Star Forge\2021-07-09 STAR FORGE.dwg

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

1 Facility Information

Facility Name	Former Jorgensen Forge Facility
Address	8531 East Marginal Way South Tukwila, WA 98108
DWMU Name/Identifier	Central Accumulation Area (CAA)
RCRA ID Number	WAD000602813
Facility History, Function, Location and Layout	The Former Jorgensen Forge Facility was in operation by multiple owners from 1942-2017. The facility fabricated and manufactured structural steel, tractor, and road equipment, as well as large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. The facility also processed nickel, titanium, and specialized alloys.
Generator Status	Large Quantity Generator
Reason for Closure	Facility Operations Ceased Operations in 2018
DWMU Closure Date	August 31st, 2023

2 Dangerous Waste Management Unit Information

Unit Description	The CAA was an approximately 1,000 SF structure with aluminum siding, a concrete slab, and an approximately 1 ft. concrete base wall that served as secondary containment. The CAA stored Dangerous Waste in drums and small containers generated from facility maintenance and operations.
Location	Figure 1 of shows a vicinity map, and Figure 2 shows the Site Map with locations of the Dangerous Waste Management Units.
Waste Managed at the DWMU	Although the entire history of waste operations at the CAA is unknown, based on statements from former facility staff and review of annual reports, the Dangerous Waste accumulated in the CAA DWMU was primarily facility maintenance waste such as paint related material, solvents, lubricants, and investigation derived waste from environmental investigations.
Applicable Waste Codes	D001, D035, D002, D007, D008, WT02, WP02 (not all inclusive)

3 Closure Performance Standard

WAC 173-303-200(h)

i) All dangerous waste and dangerous waste residues must be removed from the containment system. Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues must be decontaminated or removed.

ii) In addition, such a generator is exempt from all the requirements in WAC 173-303-610 and 173-303-620, except for WAC 173-303-610(2) and (5).

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

4 Closure Activities

As discussed in the July 2020 interim Clean Closure Report, due to visual staining of the concrete inside the CAA, an attempt to decontaminate the concrete was made using high pressure steam and water sprays. However, subsequent sampling revealed the concrete still exceeded MTCA Method A, Unrestricted, for Diesel Range Organics. Consequently, it was written into the Interim Action Workplan that the concrete would be removed, designated, and disposed of off-site, and the underlying soil would be sampled for Diesel Range Organics in accordance with the IAWP Sampling and Analysis Plan to determine if any excavation of underlying soil would be necessary to achieve Clean Closure of this DWMU. August 2023, the CAA was demolished, and the underlying soil Diesel Range Organics concentrations were found to be below MTCA Method A unrestricted levels. After backfilling the footprint of the CAA with approved and tested clean fill (crushed rock), the CAA was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5). Figure CAA-1 shows the confirmation sample locations and Table CAA-1 provides the summary table of the confirmation results.

All samples were transported to OnSite Environmental of Redmond, WA for laboratory analysis following standard chain of custody procedures. OnSite Environmental is a WA State laboratory accredited in accordance with WAC 173-50. Each sample area was analyzed by the following test methods in accordance with the IAWP Sampling and Analysis Plan:

- Diesel Range Organics by NWTPH-Dx

4 Closure Status

The following closure criteria for the Central Accumulation Area DWMU have been met:

☒ All Dangerous Waste has been removed from the DWMU and disposed of off-site

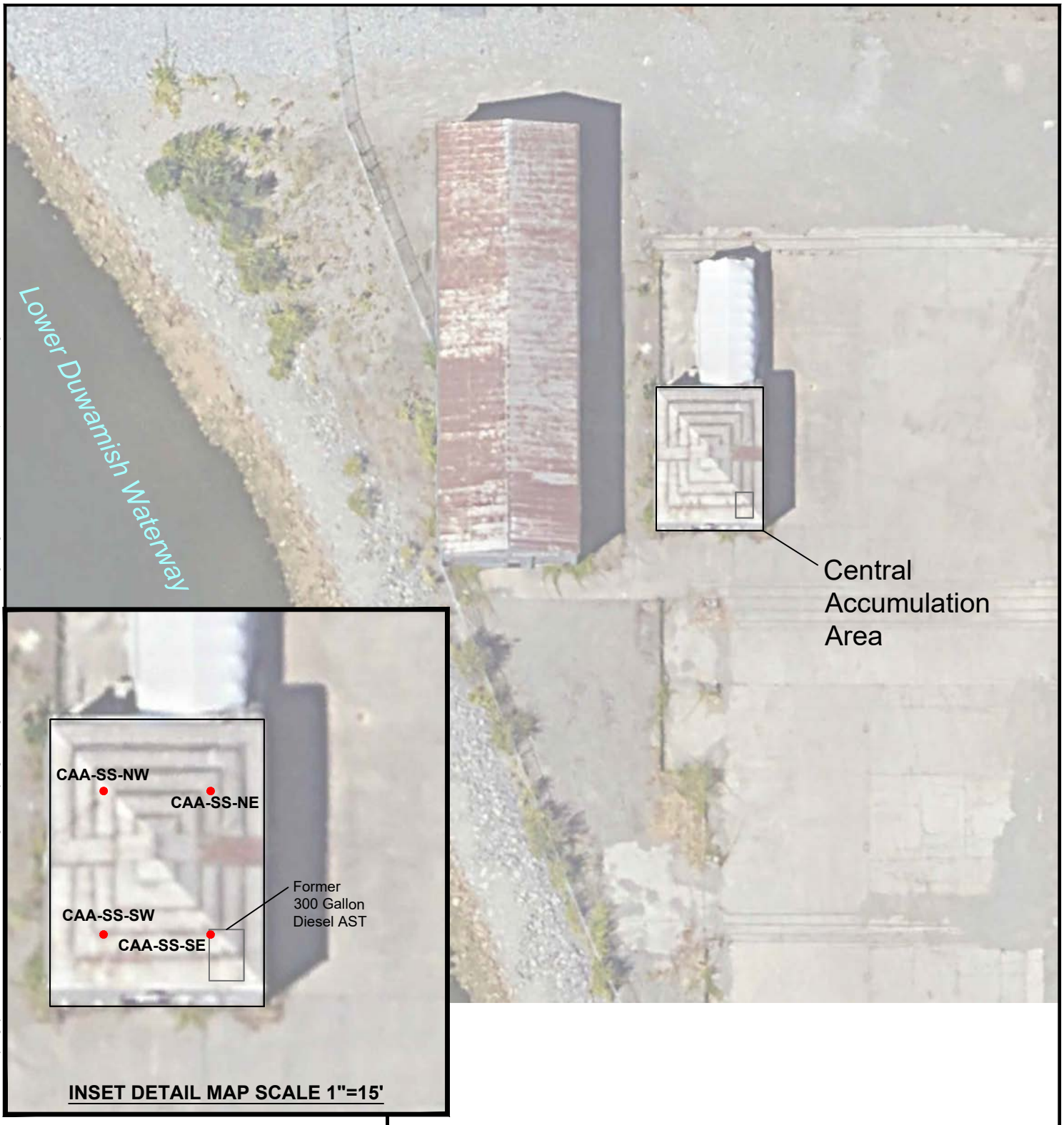
☒ Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues have been decontaminated or removed.

☒ The underlying soil has been sampled and evaluated against MTCA Method A or B unrestricted use exposure assumptions in accordance with WAC 173-303-610(2)(b), and the results indicate the contaminant concentrations are below action levels/cleanup levels.

As of 8/31/2023, the Central Accumulation Area Clean Closure requirements have been met.

The following attached documents support documentation of the Central Accumulation Area Clean Closure completion status.

- Figure CAA-1
- Table CAA-1
- CAA Photo Log
- OnSite Environmental Laboratory Report 2308-281



LEGEND

- Waste Designation Sample Location

N

0 15 30

Scale in Feet

DH Environmental Inc

DANGEROUS WASTE CENTRAL ACCUMULATION AREA SAMPLE LOCATIONS

Former Jorgensen Forge Facility 8531 East Marginal Way S Tukwila, WA, 98108	01-12-2024	**Figure CAA-1**

PLOT TIME: 1/26/2024 2:34 PM MOD TIME: 1/26/2024 11:49 AM USER: Kelley Begley DWG: P:\DH Environmental\Site\Star Forge-Formerly Jorgensen\Figures\2024-01\DH 2024-01 Star Forge Dangerous Waste Central sample locations info.dwg

Table CAA-1
CAA DWMU Sample Location Data Summary
Former Jorgnensen Forge Final Clean Closure Report
Star Forge, LLC

	Central Accumulation Area DWMU				
Sample ID	CAA-SS-NW-0.25-082423	CAA-SS-NE-0.25-082423	CAA-SS-SW-0.25-082423	CAA-SS-SE-0.25-082423	CAA-SS-DUP-1-082423
Analyte					
Petroleum Hydrocarbons (mg/kg)					
Diesel Range Organics	ND (PQL 26)	790	ND (PQL 27)	87	ND (PQL 27)
Lube Oil Range Organics	93	410	220	340	290

Notes:
1. All samples were below the MTCA Method A Unrestricted cleanup level of 2,000 mg/kg.

Abbreviations
ID = Identification
ND = Non-Detect at the PQL
NA = Not Analysed
PQL = Practical Quantitation Limit

Analytical Methods
NWTPH-DX Analysis by OnSite Environmental, Inc., see lab report # 2308-281

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
CAA Photo Log



Photo CAA-01: Facing West, Pre-Demolition Photo of the CAA (forefront building)
Date Taken: 8/24/2023



Photo CAA-02: Facing South, Slab Demolition Photo of the CAA
Date Taken: 8/24/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
CAA Photo Log (Continued – Page 2)



Photo CAA-03: Facing Southwest, Photo of the CAA sub-slab soil
Date Taken: 8/24/2023



Photo CAA-04: Facing Southwest, Photo of the CAA, backfilled and closure completed
Date Taken: 4/23/2024

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 31, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge
Laboratory Reference No. 2308-281

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 24, 2023
Laboratory Reference: 2308-281
Project: Star Forge

Case Narrative

Samples were collected on August 24, 2023 and received by the laboratory on August 24, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 24, 2023
Laboratory Reference: 2308-281
Project: Star Forge

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**CAA-SS-NW-0.25-082423**					
Laboratory ID:	08-281-01					
Diesel Range Organics	**ND**	26	NWTPH-Dx	8-28-23	8-28-23	
Lube Oil	**93**	53	NWTPH-Dx	8-28-23	8-28-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				
Client ID:	**CAA-SS-NE-0.25-082423**					
Laboratory ID:	08-281-02					
Diesel Range Organics	**790**	26	NWTPH-Dx	8-28-23	8-28-23	
Lube Oil Range Organics	**410**	52	NWTPH-Dx	8-28-23	8-28-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				
Client ID:	**CAA-SS-SW-0.25-082423**					
Laboratory ID:	08-281-03					
Diesel Range Organics	**ND**	27	NWTPH-Dx	8-28-23	8-29-23	
Lube Oil	**220**	54	NWTPH-Dx	8-28-23	8-29-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**CAA-SS-SE-0.25-082423**					
Laboratory ID:	08-281-04					
Diesel Range Organics	**87**	27	NWTPH-Dx	8-28-23	8-31-23	N
Lube Oil	**340**	54	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**CAA-SS-DUP-1-082423**					
Laboratory ID:	08-281-05					
Diesel Range Organics	**ND**	27	NWTPH-Dx	8-28-23	8-31-23	
Lube Oil	**290**	53	NWTPH-Dx	8-28-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 24, 2023
Laboratory Reference: 2308-281
Project: Star Forge

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0828S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	8-28-23	8-28-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	8-28-23	8-28-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-165-02									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Surrogate:										
o-Terphenyl						*64* *64*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2023
Samples Submitted: August 24, 2023
Laboratory Reference: 2308-281
Project: Star Forge

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
CAA-SS-NW-0.25-082423	08-281-01	**5**	8-28-23
CAA-SS-NE-0.25-082423	08-281-02	**4**	8-28-23
CAA-SS-SW-0.25-082423	08-281-03	**7**	8-28-23
CAA-SS-SE-0.25-082423	08-281-04	**7**	8-28-23
CAA-SS-DUP-1-082423	08-281-05	**6**	8-28-23

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge
Project Manager: D. Hill
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ 5-day (other)

Laboratory Number: 08-281

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
1	CAA-SS-NW-0.25-082423	8/24/23	1300	Soil	1				X														X
2	CAA-SS-NE-0.25-082423	↓	1310	↓	↓				↓														X
3	CAA-SS-SW-0.25-082423		1320																				X
4	CAA-SS-SE-0.25-082423		1330																				X
5	CAA-SS-Dup-1-082423		0800																				X

	Signature	Company	Date	Time
Relinquished		DHE	8/24/23	1420
Received		OSE	8/24/23	1420
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

EIM

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

1 Facility Information

Facility Name	Former Jorgensen Forge Facility
Address	8531 East Marginal Way South Tukwila, WA 98108
DWMU Name/Identifier	Tote Storage Area
RCRA ID Number	WAD000602813
Facility History, Function, Location and Layout	The Former Jorgensen Forge Facility was in operation by multiple owners from 1942-2017. The facility fabricated and manufactured structural steel, tractor, and road equipment, as well as large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. The facility also processed nickel, titanium, and specialized alloys.
Generator Status	Large Quantity Generator
Reason for Closure	Facility Operations Ceased Operations in 2018
DWMU Closure Date	10/26/2023

2 Dangerous Waste Management Unit Information

Unit Description	The Tote Storage Area was a 90/180-day Dangerous Waste accumulation area located on the west side of the site. The Tote Storage Area was an approximately 800 SF structure with wooden siding and an asphalt slab. The Tote Storage Area stored Dangerous Waste and used oil totes and drums generated from facility maintenance and operations. Based on historical documents and statements from former facility staff, the structure at one time was used to clean and etch product samples prior to laboratory testing. Subsequently, the structure was also known as the "Acid House" or "Etch House" before it was used as a 90/180-day Dangerous Waste accumulation area in the 1990s.
Location	The Tote Storage was located on the west side of the property just south of the Baghouse. Figure 1 of the Final Clean Closure Report shows a vicinity map, and Figure 2 shows the Site Map with locations of the Dangerous Waste Management Units.
Waste Managed at the DWMU	Although the entire history of waste operations at the Tote Storage Area is unknown, based on statements from former facility staff and review of annual reports, the Dangerous Waste accumulated in the Tote Storage Area DWMU was primarily facility maintenance rinsewaters, oils, and investigation derived waste.
Applicable Waste Codes	D007, D008, K061, and TSCA Regulated Waste

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

3 Closure Performance Standard

WAC 173-303-200(h)
i) All dangerous waste and dangerous waste residues must be removed from the containment system. Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues must be decontaminated or removed.

ii) In addition, such a generator is exempt from all the requirements in WAC 173-303-610 and 173-303-620, except for WAC 173-303-610(2) and (5).

4 Closure Activities

As discussed in the July 2020 interim Clean Closure Report, due to visual staining of the asphalt flooring inside the Tote Storage Area, an attempt to decontaminate the concrete was made using high pressure steam and water sprays. However, subsequent sampling revealed the concrete still exceeded MTCA Method A, Unrestricted, for Diesel Range Organics and PCBs. Consequently, it was written into the Interim Action Workplan that the concrete would be removed, designated, and disposed of off-site, and the underlying soil would be excavated down to applicable cleanup levels (2,000 mg/kg for Diesel Range Organics and 1 mg/kg for PCBs) and confirmation sampling would be conducted in accordance with the IAWP Sampling and Analysis Plan.

In October 2023, the Tote Storage Area DWMU was demolished. Due to PCBs detected in the Tote Storage Area structure paint, concrete, and underlying soil, all the demolition debris and underlying soil were designated as TSCA Remediation Waste (performance based) and was profiled into Chemical Waste Management in Arlington, OR for disposal. The structure and slab were demolished, and the underlying soil was excavated down to a maximum depth of approximately 2 feet below ground surface which resulted in off-site disposal of approximately 98 tons of soil/debris.

Confirmation samples of the underlying soil were collected in the areas shown in Figure TSA-1. All results confirmed that MTCA Method A cleanup levels for Diesel Range Organics and PCBs were achieved. The results are summarized in Table TSA-1. After backfilling the footprint of the Tote Storage Area with approved and tested clean fill (crushed rock), the Tote Storage Area was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5). The Tote Storage Area Photo Log provides additional closure documentation.

All samples were transported to OnSite Environmental of Redmond, WA for laboratory analysis following standard chain of custody procedures. OnSite Environmental is a WA State laboratory accredited in accordance with WAC 173-50. Each sample was analyzed by the following test methods in accordance with the IAWP Sampling and Analysis Plan:

- Diesel Range Organics by NWTPH-Dx
- PCBs by EPA 8082

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

4 Closure Status

The following closure criteria for the Tote Storage Area DWMU have been met:

☒ All Dangerous Waste has been removed from the DWMU and disposed of off-site

☒ Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues have been decontaminated or removed.

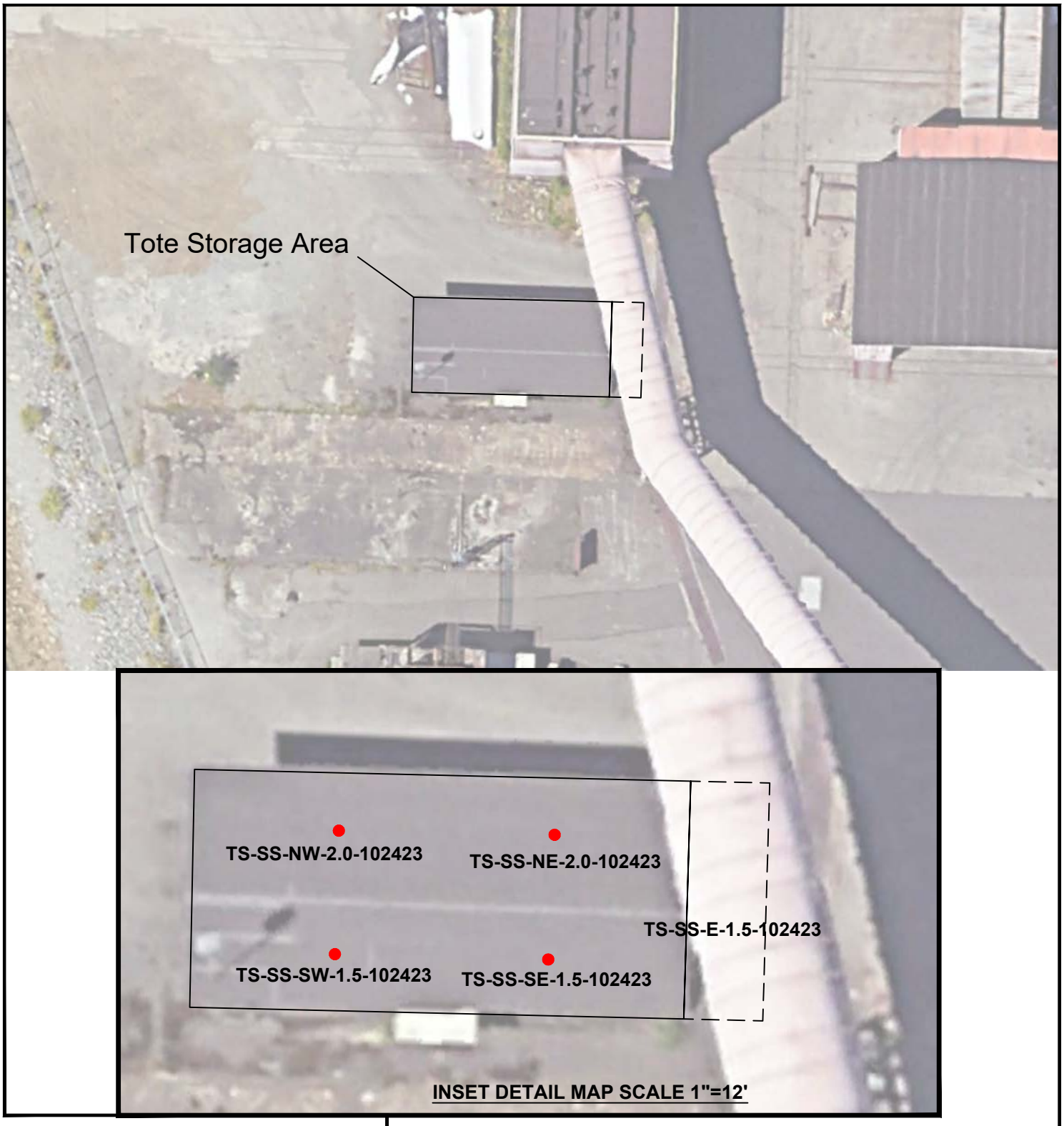
☒ The underlying soil has been sampled and evaluated against MTCA Method A or B unrestricted use exposure assumptions in accordance with WAC 173-303-610(2)(b), and the results indicate the contaminant concentrations are below action levels/cleanup levels.

As of 10/26/2023, the Tote Storage Area Clean Closure requirements have been met.

The following attached documents support documentation of the Central Accumulation Area Clean Closure completion status.

- Figure TSA-1
- Table TSA-1
- Tote Storage Area Photo Log
- OnSite Environmental Laboratory Report 2310-277
- Off-site disposal records:

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code	TSCA Status
OR356857	Tote Storage Building Demolition	10/24/2023	57,380.00	023708958JJK	NONE	NONE	PCB Remediation Waste
OR356857	Tote Storage Building Demolition	10/24/2023	57,840.00	023708959JJK	NONE	NONE	PCB Remediation Waste
OR356857	Tote Storage Building Demolition	10/24/2023	44,900.00	023708960JJK	NONE	NONE	PCB Remediation Waste
OR356857	Tote Storage Building Demolition	10/24/2023	35,220.00	023708961JJK	NONE	NONE	PCB Remediation Waste
		Total	195,340	lbs			
			97.67	tons			



TOTE STORAGE AREA CONFIRMATION SAMPLING

Former Jorgensen Forge Facility 8531 East Marginal Way S Tukwila, WA, 98108	01-26-2024	Figure TSA-01

LEGEND

- Tote Storage Area Confirmation Sample Location

N

0 15 30

Scale in Feet

PLOT TIME: 1/26/2024 2:34 PM MOD TIME: 1/26/2024 1:10 PM USER: Kelley Begley DWG: P:\DH Environmental\Site\Star Forge-Formerly Jorgensen\Figures\2024-01\DH 2024-01 Star Forge Tote Storage Bldg.dwg

Table TSA-1
Tote Storage Area DWMU Sample Location Data Summary
Former Jorgnensen Forge Final Clean Closure Report
Star Forge, LLC

	Tote Storage Area					
Sample ID	**TS-Dup-1**	**TS-SS-NW-2.0-102423**	**TS-SS-NE-2.0-102423**	**TS-SS-SW-1.5-102423**	**TS-SS-SE-1.5-102423**	**TS-SS-E-1.5-102423**
Analyte						
Petroleum Hydrocarbons (mg/kg) by NWTPH-Dx						
Diesel Range Organics	**33**	**ND (PQL 27)**	**430**	**ND (PQL 26)**	**ND (PQL 26)**	**900**
Lube Oil Range Organics	**ND (PQL 53)**	**ND (PQL 53)**	**260**	**ND (PQL 52)**	**ND (PQL 52)**	**560**
Polychlorinated Biphenyls (mg/kg) by EPA 8082A	**0.063 Total**	**ND (PQL 0.053)**	**0.18 Total**	**ND (PQL 0.052)**	**ND (PQL 0.052)**	**0.36 Total**

Notes:

1. **All samples were below the MTCA Method A Unrestricted cleanup level of 2,000 mg/kg for Diesel Range Organics**
2. **All samples were below the MTCA Method A Unrestricted cleanup level of 1 mg/kg for Polychlorinated Biphenyls**

Abbreviations

ID = Identification
ND = Non-Detect at the PQL
NA = Not Analysed
PQL = Practical Quantitation Limit

Analytical Methods

NWTPH-DX and EPA 8082A Analysis by OnSite Environmental, Inc., see lab report # 2308-281

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Tote Storage Area Photo Log (Page 1)



Photo TSA-01: Facing West, Interior Photo of the CAA
Date Taken: 3/11/2019



Photo TSA-02: Facing Northeast, Active Demolition of the Tote Storage Area
Date Taken: 10/24/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Tote Storage Area Photo Log (Continued – Page 2)



Photo TSA-03: Facing West, Active Confirmation Sampling of Tote Storage Area Subsurface Soil
Date Taken: 8/24/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Tote Storage Area Photo Log (Continued – Page 3)



Photo TSA-04: Facing Waste, Backfilled Footprint of Tote Storage Area
Date Taken: 4/22/2024

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 26, 2023

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge Tote Storage Area
Laboratory Reference No. 2310-277

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

Case Narrative

Samples were collected on October 24, 2023 and received by the laboratory on October 24, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TS-Dup-1**					
Laboratory ID:	10-277-01					
Diesel Range Organics	**33**	27	NWTPH-Dx	10-25-23	10-25-23	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	10-25-23	10-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**TS-SS-NW-2.0-102423**					
Laboratory ID:	10-277-02					
Diesel Range Organics	**ND**	27	NWTPH-Dx	10-25-23	10-25-23	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	10-25-23	10-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**TS-SS-NE-2.0-102423**					
Laboratory ID:	10-277-03					
Diesel Range Organics	**430**	26	NWTPH-Dx	10-25-23	10-25-23	
Lube Oil Range Organics	**260**	52	NWTPH-Dx	10-25-23	10-25-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**TS-SS-SW-1.5-102423**					
Laboratory ID:	10-277-04					
Diesel Range Organics	**ND**	26	NWTPH-Dx	10-25-23	10-25-23	
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	10-25-23	10-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**TS-SS-SE-1.5-102423**					
Laboratory ID:	10-277-05					
Diesel Range Organics	**ND**	26	NWTPH-Dx	10-25-23	10-26-23	
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**TS-SS-E-1.5-102423**					
Laboratory ID:	10-277-06					
Diesel Range Organics	**900**	27	NWTPH-Dx	10-25-23	10-26-23	
Lube Oil Range Organics	**560**	53	NWTPH-Dx	10-25-23	10-26-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*128*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1025S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	10-25-23	10-25-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	10-25-23	10-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-239-06									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Lube Oil	**68.0**	**57.2**	NA	NA		NA	NA	17	40	
Surrogate:										
o-Terphenyl						*66* *72*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TS-Dup-1**					
Laboratory ID:	10-277-01					
Aroclor 1016	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**0.063**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*79*	*50-127*				
Client ID:	**TS-SS-NW-2.0-102423**					
Laboratory ID:	10-277-02					
Aroclor 1016	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				
Client ID:	**TS-SS-NE-2.0-102423**					
Laboratory ID:	10-277-03					
Aroclor 1016	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**0.18**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*84*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TS-SS-SW-1.5-102423**					
Laboratory ID:	10-277-04					
Aroclor 1016	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*50-127*				
Client ID:	**TS-SS-SE-1.5-102423**					
Laboratory ID:	10-277-05					
Aroclor 1016	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*81*	*50-127*				
Client ID:	**TS-SS-E-1.5-102423**					
Laboratory ID:	10-277-06					
Aroclor 1016	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1254	**0.24**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1260	**0.12**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	10-25-23	10-26-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1025S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	10-25-23	10-25-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1025S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.427**	**0.500**	0.500	0.500	N/A	**85**	**100**	55-119	16	34	
Surrogate:											
DCB						*87*	*99*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 26, 2023
Samples Submitted: October 24, 2023
Laboratory Reference: 2310-277
Project: Star Forge Tote Storage Area

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
TS-Dup-1	10-277-01	**6**	10-25-23
TS-SS-NW-2.0-102423	10-277-02	**6**	10-25-23
TS-SS-NE-2.0-102423	10-277-03	**4**	10-25-23
TS-SS-SW-1.5-102423	10-277-04	**4**	10-25-23
TS-SS-SE-1.5-102423	10-277-05	**4**	10-25-23
TS-SS-E-1.5-102423	10-277-06	**6**	10-25-23

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge Tote Storage Area
Project Manager: D Hill
Sampled by: N. Moxley

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☒ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 10-277

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664					% Moisture
1	TS-Dup-1	10/24/23	0900	Soil	1				X						X												X
2	TS-SS-~~NE~~ NW-2.0-102423		1010																								1
3	TS-SS-NE-2.0-102423		1015																								
4	TS-SS-SW-1.5-102423		1020																								
5	TS-SS-SE-1.5-102423		1025																								
6	TS-SS-E-1.5-102423		1030																								

	Signature	Company	Date	Time
Relinquished		DHE	10/24/23	1240
Received		OSE	10/24/23	1240
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 82584

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	11/01/2023	Vehicle#	R83 Volume
Payment Type	Credit Account	Container	
CWM Load#	500506	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708960JJK		
Destination		Grid	
PO	1		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	11/01/2023 09:55:47	MANUAL WT	JALTAMI1		Gross
Out	11/01/2023 09:55:47		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

F83

500506

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD000602813	1	800-337-7455	023708960 JJK

GENERATOR

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: Wayne R Turk
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 255-8177

6. Transporter 1 Company Name
R Transport Inc
U.S. EPA ID Number
WAH000028338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid 9, PGII	1	DT	20307 ~~27,000~~	K	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile# OR356857 Out of Service date: 10/24/23 ERG#171

20307kg.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hill
Signature: David J. Hill on behalf of Star Forge LLC
Month: 10 Day: ~~23~~ 24 Year: 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Timothy Wilsey
Signature: Timothy Wilsey
Month: 10 Day: 24 Year: 23

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Driver corrected Weight + New 10-24 ~~23~~
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Megan Wolf
Signature:
Month: 10 Day: 24 Year: 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

TC

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 82585

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	11/01/2023	Vehicle#	R78 Volume
Payment Type	Credit Account	Container	
CWM Load#	500507	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708959JJK		
Destination		Grid	
PO	1		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	11/01/2023 09:56:45	MANUAL WT	JALTAMI1		Gross
Out	11/01/2023 09:56:45		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

R18

500507

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD000602813	1	800-337-7455	023708959 JJK

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: Wayne R Turk
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 255-8177

6. Transporter 1 Company Name
R Transport Inc
U.S. EPA ID Number
WAH000028338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid 9, PGII	1	DT	27,000	K	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile# OR356857 Out of Service date: 10/24/23 ERG#171

57840#.
26236kg.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hill
Signature: David S Hill on behalf of Star Forge LLC
Month 10 Day 24 Year 23

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David Barnes
Signature:
Month 10 Day 24 Year 23
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Morgan Wolf
Signature:
Month 10 Day 24 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.
DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 82588

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	11/01/2023	Vehicle#	R82 Volume
Payment Type	Credit Account	Container	
CWM Load#	500510	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708958JJK		
Destination		Grid	
PO	1		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	11/01/2023 09:59:47	MANUAL WT	JALTAMI1		Gross
Out	11/01/2023 09:59:47		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

R02

500510

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD000602813
2. Page 1 of: 1
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 023708958 JJK

5. Generator's Name and Mailing Address
Att: Wayne R Turk
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Generator's Phone: 206 255-8177

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc
U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid 9, PGII	1	DT	27,000	K	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile# OR356857 Out of Service date: 10/24/23 ERG#171

57380p.
26027kg.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hill
Signature: David Hill on behalf of Star Forge LLC
Month 10 Day 24 Year 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kelly Dubert
Signature: Kelly Dubert
Month 10 Day 24 Year 23
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Morgan Wolf
Signature: Wolf
Month 10 Day 24 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 82762

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	11/06/2023	Vehicle#	R81 Volume
Payment Type	Credit Account	Container	
CWM Load#	500561	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708961JJK		
Destination		Grid	
PO	1		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	11/06/2023 07:44:09	MANUAL WT	JALTAMI1		Gross
Out	11/06/2023 07:44:09		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

P81

500561

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	WAD000602813	1	800-337-7455	023708961 JJK

GENERATOR

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: Wayne R Turk
Generator's Site Address (if different than mailing address)
Generator's Phone: 206 255-8177

6. Transporter 1 Company Name
R Transport Inc
U.S. EPA ID Number
WAH000028338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid 9, PGII	1	DT	15976 ~~13,000~~	KD K	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile# OR356857 Out of Service date: 10/24/23 ERG#171

15976kg.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hill
Signature: David J. Hill on behalf of Star Forge LLC
Month: 10 Day: 24 Year: 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mark DUKART
Signature:
Month: 10 Day: 24 Year: 23

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Driver corrected weight. MW 10-25-23 Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Morgan Sar
Signature:
Month: 10 Day: 25 Year: 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 85489

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	12/08/2023	Vehicle#	R83 Volume
Payment Type	Credit Account	Container	
CWM Load#	500506	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708960JJK		
Destination		Grid	
PO	OR356857		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	12/08/2023 08:40:18	MANUAL WT	pslider1		Gross	44901 lb*
Out	12/08/2023 08:40:18		pslider1		Tare	1 lb*
			* Manual Weight		Net	44900 lb
					Tons	22.45

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	TSCA Disp-Tons-TSC	100	22.45	Tons	172.10	449.00	$3863.65	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.21		$306.94	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	WWM-WASTE WATER MA	100		%	4.75		$183.52	WA-TUKWILA
5	LINER EA-LINER PER	100	2.00	Each	75.00		$150.00	WA-TUKWILA
6	CERT-CERTIFICATE D	100	1.00	Each	35.00		$35.00	WA-TUKWILA

Total Tax	$449.00
Total Ticket	$5013.11

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 85490

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	12/08/2023	Vehicle#	R78 Volume
Payment Type	Credit Account	Container	
CWM Load#	500507	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708959JJK		
Destination		Grid	
PO	OR356857		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	12/08/2023 08:46:39	MANUAL WT	pslider1		Gross	57841 lb*
Out	12/08/2023 08:46:39		pslider1		Tare	1 lb*
			* Manual Weight		Net	57840 lb
					Tons	28.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	TSCA Disp-Tons-TSC	100	28.92	Tons	172.10	578.40	$4977.13	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.21		$388.51	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	WWM-WASTE WATER MA	100		%	4.75		$236.41	WA-TUKWILA
5	LINER EA-LINER PER	100	2.00	Each	75.00		$150.00	WA-TUKWILA

Total Tax	$578.40
Total Ticket	$6355.45

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 85491

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	12/08/2023	Vehicle#	R82 Volume
Payment Type	Credit Account	Container	
CWM Load#	500510	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708958JJK		
Destination		Grid	
PO	OR356857		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	12/08/2023 08:51:59	MANUAL WT	pslider1		Gross	57381 lb*
Out	12/08/2023 08:51:59		pslider1		Tare	1 lb*
			* Manual Weight		Net	57380 lb
					Tons	28.69

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	TSCA Disp-Tons-TSC	100	28.69	Tons	172.10	573.80	$4937.55	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.21		$385.52	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	WWM-WASTE WATER MA	100		%	4.75		$234.53	WA-TUKWILA
5	LINER EA-LINER PER	100	2.00	Each	75.00		$150.00	WA-TUKWILA

Total Tax	$573.80
Total Ticket	$6306.40

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 85493

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	RTRANSPORT R Transport Inc
Ticket Date	12/08/2023	Vehicle#	R81 Volume
Payment Type	Credit Account	Container	
CWM Load#	500561	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708961JJK		
Destination		Grid	
PO	OR356857		
Profile	OR356857 (PCB Remediation Waste: PCB01)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	12/08/2023 08:58:55	MANUAL WT	pslider1		Gross	35221 lb*
Out	12/08/2023 08:58:55		pslider1		Tare	1 lb*
			* Manual Weight		Net	35220 lb
					Tons	17.61

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	TSCA Disp-Tons-TSC	100	17.61	Tons	172.10	352.20	$3030.68	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.21		$241.51	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	WWM-WASTE WATER MA	100		%	4.75		$143.96	WA-TUKWILA
5	LINER EA-LINER PER	100	2.00	Each	75.00		$150.00	WA-TUKWILA

Total Tax	$352.20
Total Ticket	$3943.35

Driver`s Signature

Dangerous Waste Management Unit Closure Documentation Form

Dangerous Waste Generators

1 Facility Information

Facility Name	Former Jorgensen Forge Facility
Address	8531 East Marginal Way South Tukwila, WA 98108
DWMU Name/Identifier	Baghouse
RCRA ID Number	WAD000602813
Facility History, Function, Location and Layout	The Former Jorgensen Forge Facility was in operation by multiple owners from 1942-2017. The facility fabricated and manufactured structural steel, tractor, and road equipment, as well as large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. The facility also processed nickel, titanium, and specialized alloys.
Generator Status	Large Quantity Generator
Reason for Closure	Facility Operations Ceased Operations in 2018
DWMU Closure Date	11/21/23

2 Dangerous Waste Management Unit Information

Unit Description	The Baghouse building was primarily a steel structure with an approximately 4,000 SF footprint that housed equipment to capture and contain dust from the Baghouse tunnel that conveyed air and dust from the former melt shop to the Baghouse. The Baghouse processing area and concrete slab were divided by a wall thereby creating two separate areas denoted as 'Baghouse North' and 'Baghouse South' for the purposes of cleaning and sampling. For the purpose of Clean Closure, the Baghouse building, as well as approximately 550 feet of Baghouse duct (also referred to as the "Baghouse tunnel") which was comprised of steel duct, rubber gaskets, and flanges were subject to closure and the Clean Debris Standard as defined in the Alternative Treatment Standards for Hazardous Debris as established in 40 CFR 268.45 and described in Ecology's guidance[1]. The duct diameter ranged from approximately 2 feet to 12 feet. All Baghouse dust and debris that could not be decontaminated to meet the clean debris standard was designated as a K061 waste stream as it meets the definition of K061 Specific Source Waste from iron and steel sources in accordance with WAC 173-303-9904.
Location	The Baghouse and Baghouse processing area were located north of the west end of the facility and north of the Tote Storage Area. Figure 1 of the Final Clean Closure Report shows a vicinity map, and Figure 2 shows the Site Map with locations of the Dangerous Waste Management Units.
Waste Managed at the DWMU	Although the entire history of waste operations at the Baghouse is unknown, based on statements from former facility staff and review of annual reports, the Dangerous Waste accumulated in the Baghouse DWMU was primarily

[1] Washington State Department of Ecology, *Guidance for Clean Closure of Dangerous Waste Units and Facilities*, Publication No. 94111, Revised May 2005.

	K061 dust and debris which was released from hoppers and placed in bulk containers (such as roll-off boxes) for off-site disposal.
Applicable Waste Codes	K061

3 Closure Performance Standard

WAC 173-303-200(h)
i) All dangerous waste and dangerous waste residues must be removed from the containment system. Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues must be decontaminated or removed.

ii) In addition, such a generator is exempt from all the requirements in WAC 173-303-610 and 173-303-620, except for WAC 173-303-610(2) and (5).

4 Closure Activities

As discussed in the July 2020 interim Clean Closure Report, due to visual staining and suspected contamination of the Baghouse concrete slab, an attempt to decontaminate the concrete was made using high pressure steam and water sprays. However, subsequent sampling revealed the Baghouse North concrete slab still exceeded MTCA Method A, Unrestricted, for Diesel Range Organics and Hexavalent Chromium. Consequently, it was written into the Interim Action Workplan that the concrete would be removed, designated, and disposed of off-site, and the underlying soil would be sampled for Diesel Range Organics and Hexavalent Chromium in accordance with the IAWP Sampling and Analysis Plan to determine if any excavation of underlying soil would be necessary to achieve Clean Closure of this DWMU.

In November 2023, the Baghouse was demolished, and the Baghouse tunnel was cut by lift elevated crews with blowtorches and lowered to the ground using cranes and placed into exclusion zones for inspection and decontamination as described in the IAWP. All materials associated with the Baghouse were visually inspected to determine if the clean debris standards were met. If it was determined that the clean debris standards were not met, the ducting and other materials were decontaminated by a combination of “wet wiping”, scraping, and the use of a vacuum with HEPA filters. All media generated from removing the residual dust inside the duct was managed as K061 Hazardous Waste. The decontamination of the Baghouse media, along with disposal of materials that could not be reasonably decontaminated resulted in generation and disposal of approximately 106 tons of K061 Debris that was placed in 20-yard roll-off bins and shipped via rail Chemical Waste Management in Arlington, OR for macroencapsulation and disposal. In addition, approximately 282 gallons (2,350 lbs) of K061 designated water was generated from decontamination efforts.

As a conservative approach, prior to sampling the subsurface of the Baghouse slab, the top 6 inches of soil was “scraped” from the underlying soil from Baghouse slab footprint. Upon collection of samples of the underlying Baghouse North area, the soil Diesel Range Organics and Hexavalent Chromium concentrations were found to be below MTCA Method A unrestricted levels. After backfilling the footprint of the Baghouse with approved and tested clean fill (crushed rock), the Baghouse was determined to have met all Clean Closure standards in accordance with WAC 173-303-610(2) and (5). Figure BH-1 shows the confirmation sample locations and Table BH-1 provides the summary table of the confirmation results. The Baghouse Photo Log provides additional closure documentation.

All samples were transported to OnSite Environmental of Redmond, WA for laboratory analysis following standard chain of custody procedures. OnSite Environmental is a WA State laboratory accredited in accordance with WAC 173-50. Each sample area was analyzed by the following test methods in accordance with the IAWP Sampling and Analysis Plan:

- Diesel Range Organics by NWTPH-Dx
- Hexavalent Chromium by EPA 7196A

4 Closure Status

The following closure criteria for the Baghouse DWMU have been met:

☒ All Dangerous Waste has been removed from the DWMU and disposed of off-site

☒ Remaining containers, liners, base, and soil containing or contaminated with dangerous waste or dangerous waste residues have been decontaminated or removed.

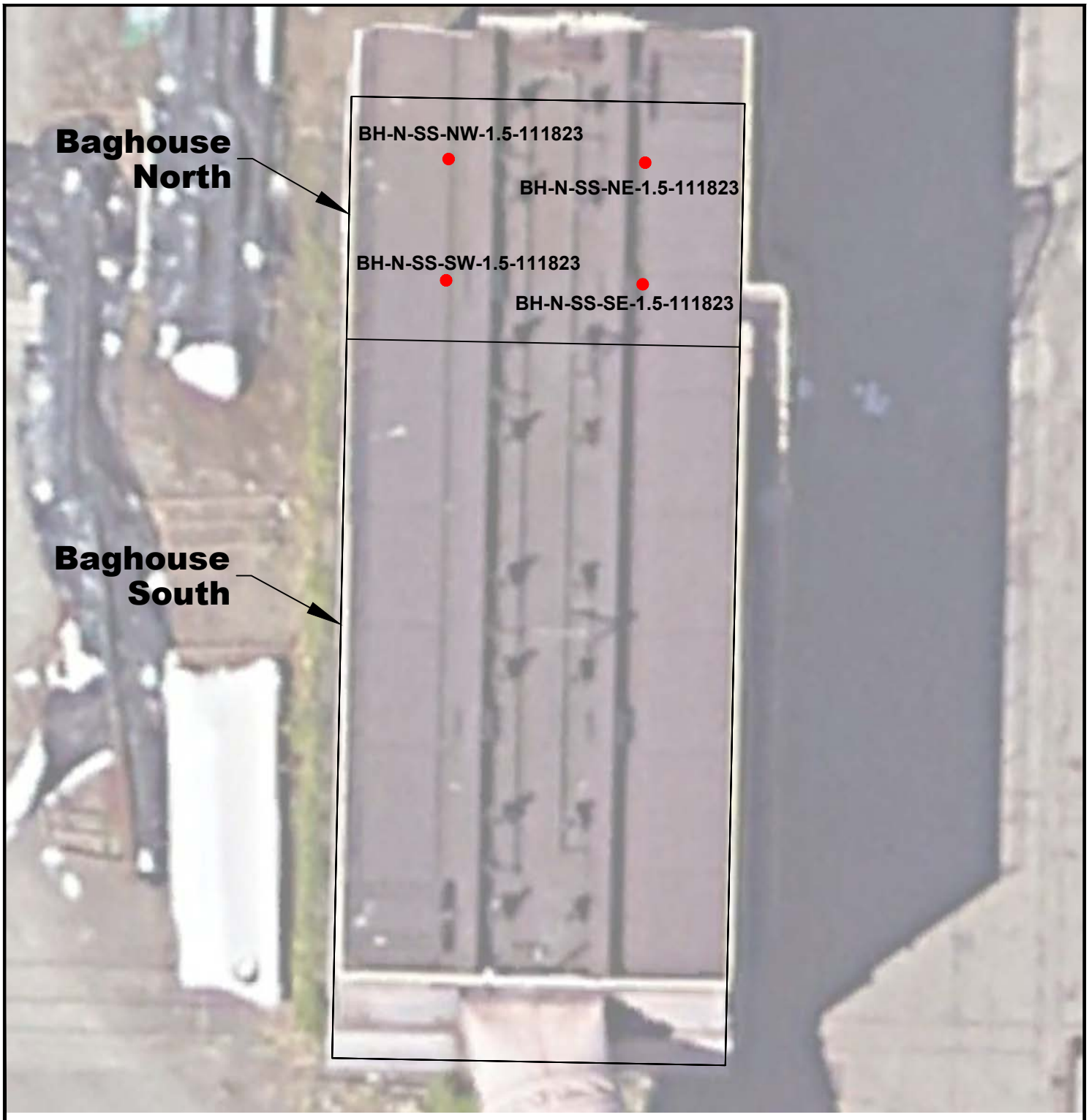
☒ The underlying soil has been sampled and evaluated against MTCA Method A or B unrestricted use exposure assumptions in accordance with WAC 173-303-610(2)(b), and the results indicate the contaminant concentrations are below action levels/cleanup levels.

As of 11/21/2023, the Baghouse DWMU Clean Closure requirements have been met.

The following attached documents support documentation of the Baghouse Clean Closure completion status.

- Figure BH-1
- Table BH-1
- Baghouse Photo Log
- OnSite Environmental Laboratory Report 2311-212
- Off-site disposal records from IAWP related Clean Closure efforts:

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code	TSCA
OR356547	K061 Debris	10/25/2023	5,400	023708963JJK	K061	NA	NA
OR356547	K061 Debris	11/21/2023	41,860	023708972JJK	K061	NA	NA
OR356547	K061 Debris	11/21/2023	38,900	023708973JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	47,320	023708986JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	7,480	023708987JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	28,940	023708988JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	9,320	023708989JJK	K061	NA	NA
OR356547	K061 Debris	12/07/2023	31,880	023709000JJK	K061	NA	NA
OR357562	K061 decon water	12/18/2023	2,200	025895530JJK	K061	NA	NA
OR357562	K061 decon water	12/18/2023	150	025895530JJK	K061	NA	NA
		Total	213,450	lbs			
			106.73	tons			



DH Environmental Inc

Baghouse North Sample Location Map

Former Jorgensen Forge Facility 8531 East Marginal Way S Tukwila, WA, 98108	01-12-2024	Figure BH-1

LEGEND

- Clean Closure Confirmation Sample Location

N

0 6 12

Scale in Feet

PLOT TIME: 1/26/2024 2:34 PM MOD TIME: 1/26/2024 12:19 PM USER: Kelley Begley DWG: P:\DH Environmental\Site\Star Forge-Formerly Jorgensen\Figures\2024-01\DH 2024-01 Star Forge Baghouse.dwg

Table BH-1
Baghouse DWMU Sample Location Data Summary
Former Jorgnensen Forge Final Clean Closure Report
Star Forge, LLC

	Baghouse				
Sample ID	**BH-N-Dup-1**	**BH-N-SS-NW-1.5-111823**	**BH-N-SS-NE-1.5-111823**	**BH-N-SS-SW-1.5-111823**	**BH-N-SS-SE-1.5-111823**
Analyte					
Petroleum Hydrocarbons (mg/kg) by NWTPH-Dx					
Diesel Range Organics	**ND (PQL 58)**	**ND (PQL 29)**	**ND (PQL 29)**	**ND (PQL 43)**	**ND (PQL 58)**
Lube Oil Range Organics	**570**	**180**	**210**	**430**	**570**
Hexavalent Chromium by EPA 7196A	**ND (PGL 1.1)**	**2.8**	**ND (PQL 1.1)**	**1.4**	**ND (PQL 1.1)**

Notes:
1. All samples were below the MTCA Method A Unrestricted cleanup level of 2,000 mg/kg for Diesel Range Organics
2. All samples were below the MTCA Method A Unrestricted cleanup level of 19 mg/kg for Hexavalent Chromium

Abbreviations
ID = Identification
ND = Non-Detect at the PQL
NA = Not Analysed
PQL = Practical Quantitation Limit

Analytical Methods
NWTPH-DX and EPA 7196A Analysis by OnSite Environmental, Inc., see lab report # 2311-212

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 1)



Photo BH-01: Facing Southwest, Google Earth Aerial Image, August, 22nd, 2022

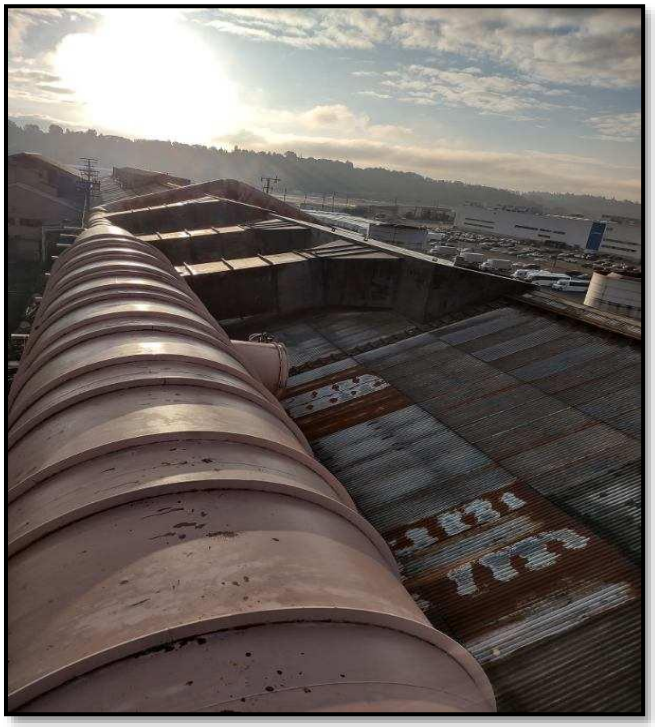


Photo BH-02: Facing East, Rooftop Image of Baghouse Tunnel Pre-Demolition
Photo Taken: 9/5/2023



Photo BH-03: Facing Southwest, Active Removal and Lowering of the Baghouse Tunnel
Photo Taken: 9/22/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 3)

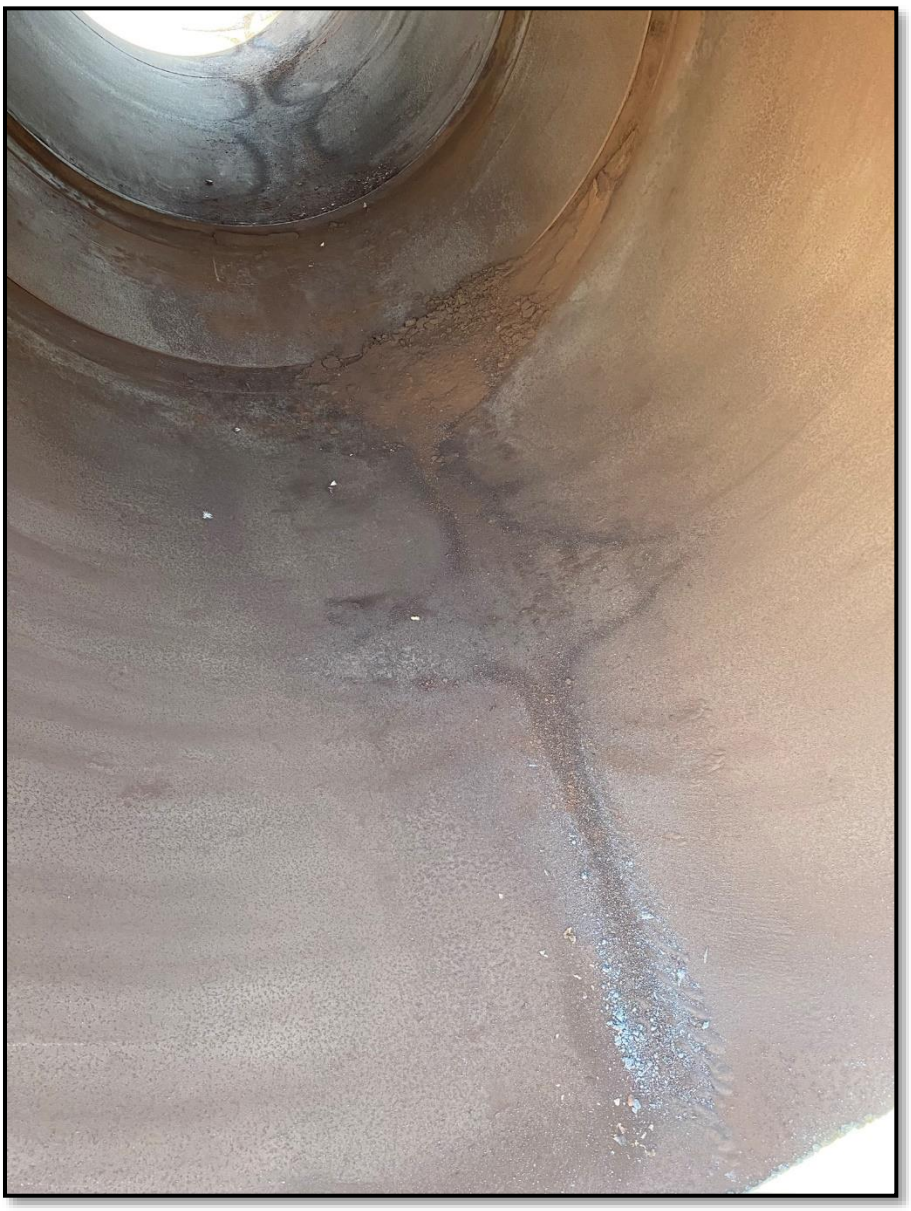


Photo BH-04: Example of Residual Baghouse Dust in the Duct Interior Requiring Removal
Photo Taken: 9/21/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 4)

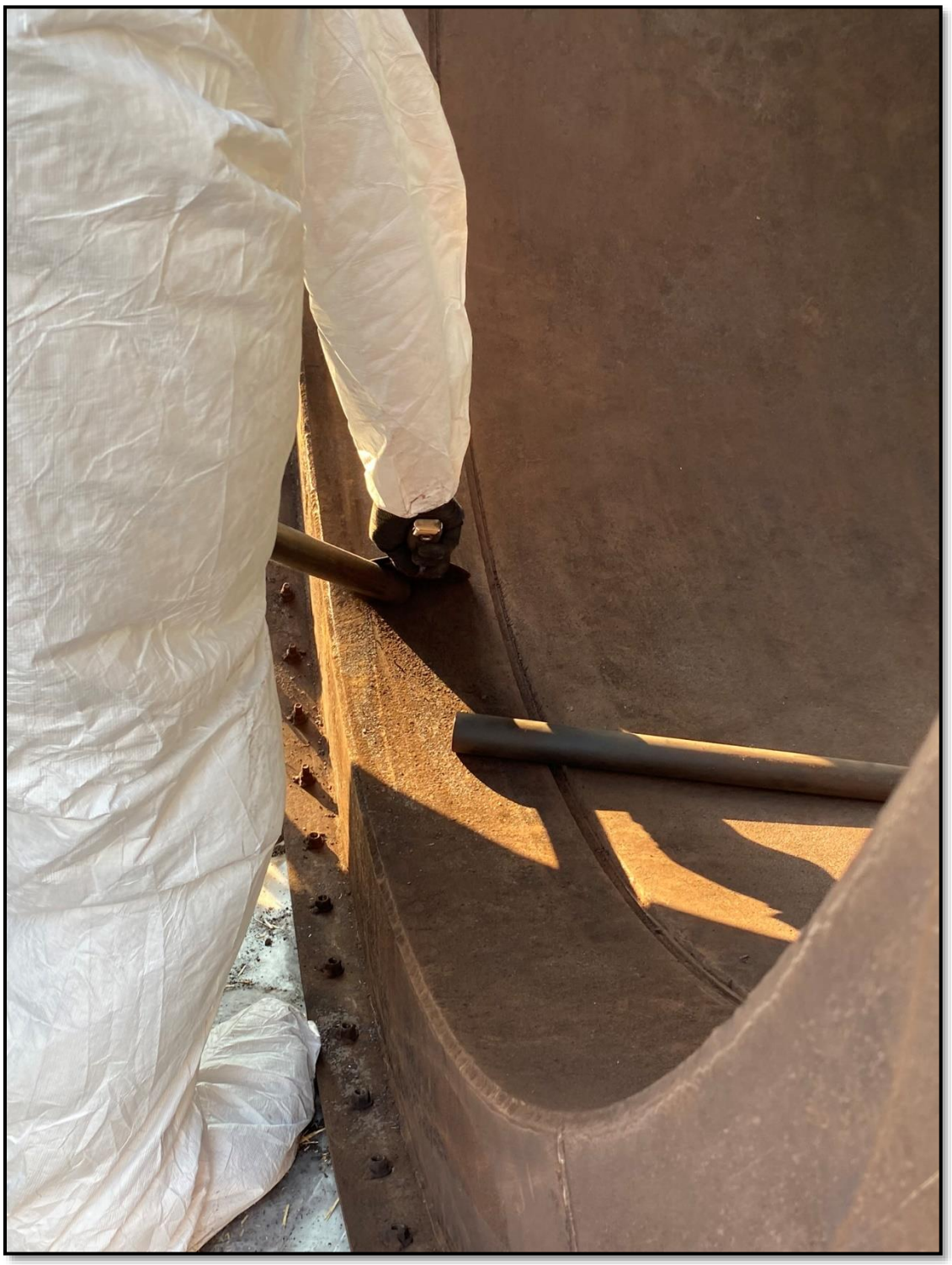


Photo BH-05: Active Scraping and Vacuum Removal of Baghouse Dust in the Duct Interior
Photo Taken: 9/22/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 5)

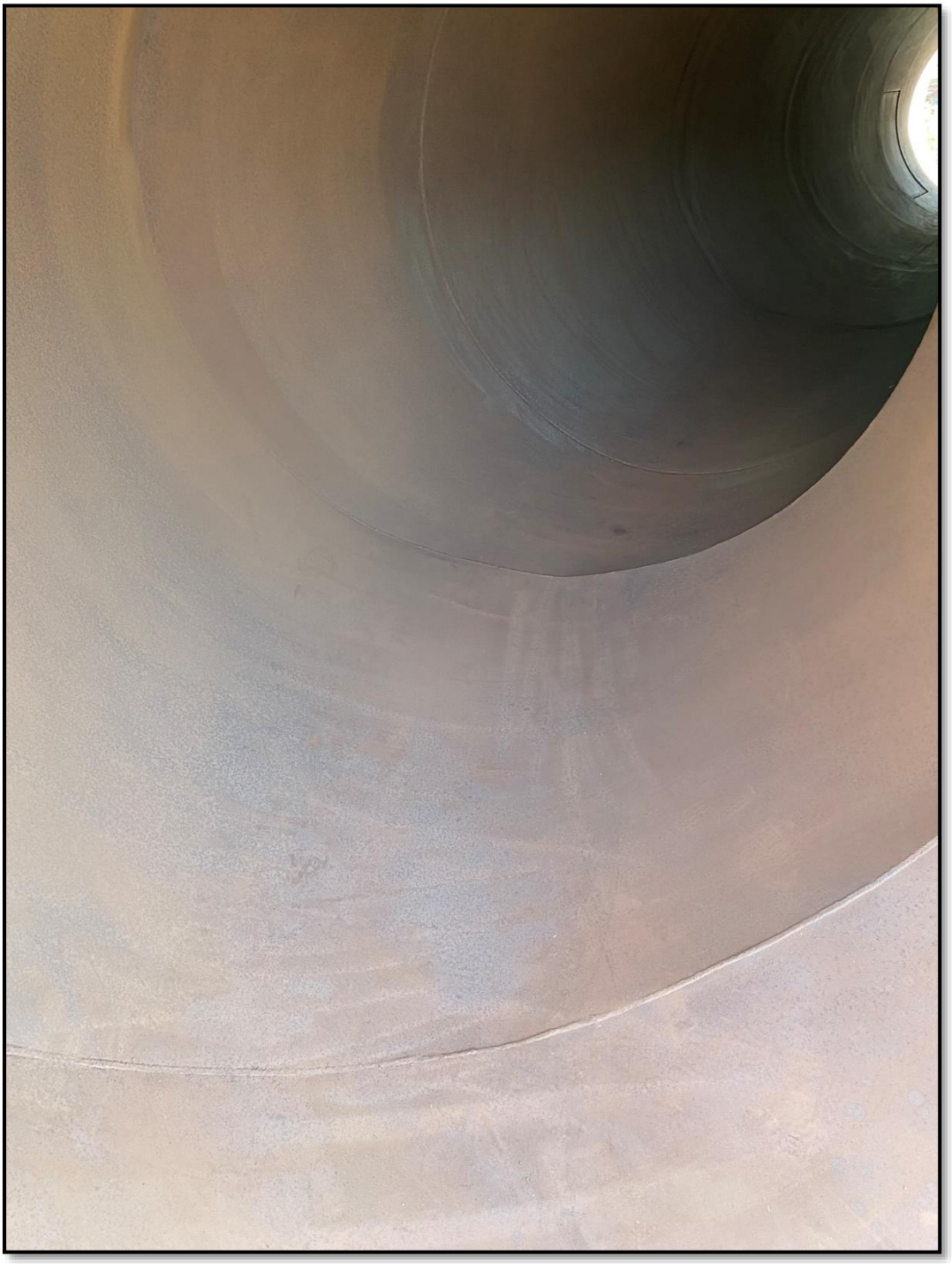


Photo BH-06: Example of Decontaminated Baghouse Duct Inspected and Cleared for Meeting Clean Debris Standard
Photo Taken: 9/20/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 7)



Photo BH-07: Facing East, Active Demolition of Baghouse
Structure Photo Taken: 11/10/2023

Dangerous Waste Management Unit Closure Documentation
Former Jorgensen Forge Facility
Baghouse Photo Log (Page 8)



Photo BH-08: Facing North, Footprint of Baghouse North After Slab Removal
Photo Taken: 11/22/2023



Photo BH-09: Facing West, Backfilled Footprint of Baghouse North Post Demolition
Photo Taken: 4/22/2024

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 5, 2024

David Hill
DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98103

Re: Analytical Data for Project Star Forge Baghouse North
Laboratory Reference No. 2311-212

Dear David:

Enclosed are the analytical results and associated quality control data for samples submitted on November 20, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

Case Narrative

Samples were collected on November 18, 2023 and received by the laboratory on November 20, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BH-N-SS-NW-1.5-111823**					
Laboratory ID:	11-212-01					
Diesel Range Organics	**ND**	29	NWTPH-Dx	11-20-23	11-20-23	U1
Lube Oil	**180**	56	NWTPH-Dx	11-20-23	11-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**BH-N-SS-NE-1.5-111823**					
Laboratory ID:	11-212-02					
Diesel Range Organics	**ND**	29	NWTPH-Dx	11-20-23	11-21-23	U1
Lube Oil	**210**	55	NWTPH-Dx	11-20-23	11-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**BH-N-SS-SW-1.5-111823**					
Laboratory ID:	11-212-03					
Diesel Range Organics	**ND**	29	NWTPH-Dx	11-20-23	11-20-23	
Lube Oil	**140**	58	NWTPH-Dx	11-20-23	11-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**BH-N-SS-SE-1.5-111823**					
Laboratory ID:	11-212-04					
Diesel Range Organics	**ND**	43	NWTPH-Dx	11-20-23	11-21-23	U1
Lube Oil	**430**	57	NWTPH-Dx	11-20-23	11-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**BH-N-Dup-1**					
Laboratory ID:	11-212-05					
Diesel Range Organics	**ND**	58	NWTPH-Dx	11-20-23	11-21-23	U1
Lube Oil	**570**	56	NWTPH-Dx	11-20-23	11-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1120S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	11-20-23	11-20-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	11-20-23	11-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-212-01									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	U1,
Lube Oil	**155**	**152**	NA	NA		NA	NA	2	40	
Surrogate:										
o-Terphenyl						*78* *88*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**BH-N-SS-NW-1.5-111823**					
Laboratory ID:	11-212-01					
Hexavalent Chromium	**2.8**	1.1	EPA 7196A mod.	11-20-23	11-20-23	
Client ID:	**BH-N-SS-NE-1.5-111823**					
Laboratory ID:	11-212-02					
Hexavalent Chromium	**ND**	1.1	EPA 7196A mod.	11-20-23	11-20-23	
Client ID:	**BH-N-SS-SW-1.5-111823**					
Laboratory ID:	11-212-03					
Hexavalent Chromium	**1.4**	1.2	EPA 7196A mod.	11-20-23	11-20-23	
Client ID:	**BH-N-SS-SE-1.5-111823**					
Laboratory ID:	11-212-04					
Hexavalent Chromium	**ND**	1.1	EPA 7196A mod.	11-20-23	11-20-23	
Client ID:	**BH-N-Dup-1**					
Laboratory ID:	11-212-05					
Hexavalent Chromium	**ND**	1.1	EPA 7196A mod.	11-20-23	11-20-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1120S1					
Hexavalent Chromium	**ND**	1.0	EPA 7196A mod.	11-20-23	11-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-113-03										
	ORIG	DUP									
Hexavalent Chromium	**ND**	**ND**	NA		NA	NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-113-03										
	MS	MSD	MS	MSD		MS	MSD				
Hexavalent Chromium	**4.66**	**4.91**	5.00	5.00	ND	93	98	75-125	5	20	
SPIKE BLANK											
Laboratory ID:	SB1120S1										
	SB		SB			SB					
Hexavalent Chromium	**4.89**		5.00		NA	98		80-120	NA	NA	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 5, 2024
Samples Submitted: November 20, 2023
Laboratory Reference: 2311-212
Project: Star Forge Baghouse North

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
BH-N-SS-NW-1.5-111823	11-212-01	**11**	11-20-23
BH-N-SS-NE-1.5-111823	11-212-02	**9**	11-20-23
BH-N-SS-SW-1.5-111823	11-212-03	**13**	11-20-23
BH-N-SS-SE-1.5-111823	11-212-04	**12**	11-20-23
BH-N-Dup-1	11-212-05	**11**	11-20-23

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: DH Environmental
Project Number:
Project Name: Star Forge Baghouse North
Project Manager: D. Hill
Sampled by: N. Moxley

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☒ Fastest Available (other)

Laboratory Number: 11-212

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Hex Chrome				% Moisture
1	BH-N-SS-NW-1.5-111823	11/18/23	0900	Soil	1				X														X				X
2	BH-N-SS-NE-1.5-111823	↓	0910	↓	↓				↓														↓				X
3	BH-N-SS-SW-1.5-111823		0920																								X
4	BH-N-SS-SE-1.5-111823		0930																								X
5	BH-N-Dup-1		0940																								X

	Signature	Company	Date	Time
Relinquished		DHE	11/18/23	1100
Received		OSE	11/20/23	0845
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

0.3°C

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 83819

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	11/16/2023	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	500851	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708963JJK		
Destination		Grid	
PO	1		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	11/16/2023 12:01:27	MANUAL WT	JALTAMI1		Gross
Out	11/16/2023 12:01:27		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each				

Total Tax
Total Ticket

Driver`s Signature

Please print or type. 50085 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD000802813 | 2. Page 1 of 1 | 3. Emergency Response Phone: 800-337-7455 | 4. Manifest Tracking Number: 023708963 JJK

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: James Robertson
Generator's Phone: 206-767-5775

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: UPRR — U.S. EPA ID Number: NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454 2843 — U.S. EPA ID Number: ORD009152352 TC 11-7-23

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	01	CM	5400 L MW 11-7-23	P T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR358547 ERG#171
CAN II 8711
5400P.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: David Hill — Signature: David Hill on behalf of Star Forge — Month 10 Day 25 Year 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Albert Coffer — Signature: Albert Coffer — Month 10 Day 25 Year 23

Transporter 2 Printed/Typed Name: Heather Mota — Signature: H Mota — Month 10 Day 25 Year 23

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Weight correction per David J. Hill / President — Manifest Reference Number: MW 11-7-23

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Morgan Wolf — Signature: M Wolf — Month 11 Day 03 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY COPY

IF YOU RECEIVED THIS MANIFEST, YOU HAVE RESPONSIBILITIES UNDER THE e-MANIFEST ACT. SEE INSTRUCTIONS ON REVERSE SIDE.

JC

Please print or type. 500851 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	WAD000602813	2-2	023708963 JJK

24. Generator's Name: Star Forge LLC

25. Transporter 3 Company Name: pcc — U.S. EPA ID Number: IORQ000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 85374

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	12/06/2023	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	500851	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708963JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	Gross	5400 lb*
In	12/06/2023 12:34:36	MANUAL WT	pslider1		Tare	
Out	12/06/2023 12:34:36		pslider1		Net	5400 lb
			* Manual Weight		Tons	2.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Each CYB	100	20.00	Each	265.00	81.00	$5300.00	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.21		$543.04	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	785.00		$785.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	75.00		$75.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	27.00	Each	20.00		$540.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	520.00		$520.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$251.75	WA-TUKWILA
9	CERT-CERTIFICATE D	100	1.00	Each	35.00		$35.00	WA-TUKWILA

Total Tax	$81.00
Total Ticket	$8155.79

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87108

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/08/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502021	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708987JJK		
Destination		Grid	
PO	1		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	01/08/2024 08:37:06	MANUAL WT	JALTAMI1		Gross
Out	01/08/2024 08:37:06		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

12/10 SW 12/14/23 ~~502020~~ 502021

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD000602813	1	800-337-7455	023708987 JJK

GENERATOR

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Generator's Phone: 281 785-7875

Generator's Site Address (if different than mailing address)
Att: James Robertson

6. Transporter 1 Company Name: R Transport Inc — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	01	CM	4	T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR358547 ERG#171

Container WMXV 8698
7480 P.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Morley on behalf of Star Forge — Signature: [signature] — Month 12 Day 7 Year 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Blum — Signature: [signature] — Month 12 Day 7 Year 23

Transporter 2 Printed/Typed Name: Alisha Lerius — Signature: Alisha Lerius — Month 12 Day 7 Year 23

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Morgan Wolf — Signature: [signature] — Month 12 Day 18 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

BMS

502021

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	WAD000602813	2	023708987JJK

24. Generator's Name: Star Forge

25. Transporter 3 Company Name: PCE — U.S. EPA ID Number: ORQ000041480

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87692

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/18/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502020	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708989JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	Gross	9320 lb*
In	01/18/2024 10:16:05	MANUAL WT	pslider1		Tare	
Out	01/18/2024 10:16:05		pslider1		Net	9320 lb
			* Manual Weight		Tons	4.66

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	20.00	Yards	291.06	93.20	$5821.20	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.71		$548.72	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	20.00	Each	25.00		$500.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$276.51	WA-TUKWILA

Total Tax	$93.20
Total Ticket	$8819.63

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87693

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/18/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502021	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708987JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	01/18/2024 10:25:00	MANUAL WT	pslider1		Gross	7480 lb*
Out	01/18/2024 10:25:00		pslider1		Tare	
			* Manual Weight		Net	7480 lb
					Tons	3.74

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	20.00	Yards	291.06	74.80	$5821.20	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.71		$588.98	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	44.00	Each	25.00		$1100.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$276.51	WA-TUKWILA

Total Tax	$74.80
Total Ticket	$9441.49

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87694

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/18/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502211	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708973JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	Gross	38900 lb*
In	01/18/2024 10:30:11	MANUAL WT	pslider1		Tare	
Out	01/18/2024 10:30:11		pslider1		Net	38900 lb
			* Manual Weight		Tons	19.45

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	25.00	Yards	291.06	389.00	$7276.50	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.71		$625.85	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	5.00	Each	25.00		$125.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$345.63	WA-TUKWILA

Total Tax	$389.00
Total Ticket	$10341.98

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87695

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/18/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502212	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708972JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	01/18/2024 10:34:42	MANUAL WT	pslider1		Gross	41860 lb*
Out	01/18/2024 10:34:42		pslider1		Tare	
			* Manual Weight		Net	41860 lb
					Tons	20.93

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	25.00	Yards	291.06	418.60	$7276.50	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.71		$625.85	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	5.00	Each	25.00		$125.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$345.63	WA-TUKWILA

Total Tax	$418.60
Total Ticket	$10371.58

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 87708

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/18/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502237	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023709000JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	01/18/2024 14:31:33	MANUAL WT	pslider1		Gross	31880 lb*
Out	01/18/2024 14:31:33		pslider1		Tare	
			* Manual Weight		Net	31880 lb
					Tons	15.94

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	25.00	Yards	291.06	318.80	$7276.50	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.71		$666.11	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	29.00	Each	25.00		$725.00	WA-TUKWILA
7	WWM-WASTE WATER MA	100		%	4.75		$345.63	WA-TUKWILA
8	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA

Total Tax	$318.80
Total Ticket	$10912.04

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 88028

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/23/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502212	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708972JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	01/23/2024 09:20:10	MANUAL WT	JALTAMI1		Gross
Out	01/23/2024 09:20:10		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

Please print or type. 12/17 502212 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD000602813 | 2. Page 1 of: 2 | 3. Emergency Response Phone: 800-337-7455 | 4. Manifest Tracking Number: 023708972 JJK

5. Generator's Name and Mailing Address
Att: James Robertson
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Generator's Phone: 281 785-7875

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: UPRR — U.S. EPA ID Number: NED007929160

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2843
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K081 Debris) 9, PGIII	1	cm	~~10~~ 21 Per. David Hill IPE 01012/26/23	T	K081
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR358547 ERG#171
CAN# 8955
418608

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge — Signature: [signature] — Month: 11 Day: 21 Year: 23

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Albert Coulter — Signature: [signature] — Month: 11 Day: 21 Year: 23

Transporter 2 Printed/Typed Name: Roadrer Mab — Signature: [signature] — Month: 11 Day: 21 Year: 23

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Permission to change weight Per David Hill IPE 01012/26/23
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as ~~noted in Item 18a~~

Printed/Typed Name: Dawn Dunlop — Signature: [signature] — Month: 12 Day: 26 Year: 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

BMS

Please print or type. 502212 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number WAD000602813 BMS 1.4.24	22. Page 2	23. Manifest Tracking Number 023708972 JJK

24. Generator's Name: STAR Forge LLC

25. Transporter 3 Company Name: PCL — U.S. EPA ID Number: ORD000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 88029

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	01/23/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502237	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023709000JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	01/23/2024 09:21:35	MANUAL WT	JALTAMI1		Gross
Out	01/23/2024 09:21:35		JALTAMI1		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

12/18 SD2287

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD000602813	2	800-337-7455	023709000 JJK

GENERATOR

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: James Robertson
Generator's Phone: 281 785-7875
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: UPRR — U.S. EPA ID Number: NED007992910 ems 1.4.24

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	01	CM	4 16 per David Hill PE Dwo 12/26/23	T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR356547 ERG#171
WMXU 8866
31880 P.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge — Signature — Month 12 Day 7 Year 23

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jason Edmonds — Signature — Month 12 Day 7 Year 23

Transporter 2 Printed/Typed Name: Alisha Lemus — Signature: Alisha Lemus — Month 12 Day 7 Year 23

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Permission to change weight Per David Hill, PE Dwo 12/26/23 — Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Dawn Dyke — Signature — Month 12 Day 26 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

BMS

Please print or type. 502237 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: WAD000602813

22. Page: 2

23. Manifest Tracking Number: 023709000 JJK

24. Generator's Name: STAR FORGE LLC

25. Transporter 3 Company Name: PCL U.S. EPA ID Number: ORQ000041180

26. Transporter _____ Company Name: U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 88844

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	02/14/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502693	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708986JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound		
In	02/14/2024 08:36:43	MANUAL WT	pslider1		Gross	47320 lb*
Out	02/14/2024 08:36:43		pslider1		Tare	
			* Manual Weight		Net	47320 lb
					Tons	23.66

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	40.00	Yards	291.06	473.20	$11642.40	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	7.24		$1035.35	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	21.00	Each	25.00		$525.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$553.01	WA-TUKWILA

Total Tax	$473.20
Total Ticket	$15808.96

Driver`s Signature

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 89202

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	PC PC LOGISTICS GROUP INC
Ticket Date	02/20/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502020	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708989JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	02/20/2024 08:04:31	MANUAL WT	aalvalos		Gross
Out	02/20/2024 08:04:31		aalvalos		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

12/10 502020

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD000602813
2. Page 1 of: 2
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 023708989 JJK

5. Generator's Name and Mailing Address
Att: James Robertson
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Generator's Phone: 281 785-7875

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc
U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: Union Pacific Railroad
U.S. EPA ID Number: NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris), 9, PGIII	01	CM	5 4 MW 1-4-24	T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR356547 ERG#171
9320P.
Container # WMXV 8693

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge
Signature:
Month 12 Day 7 Year 23

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Blum
Signature:
Month 12 Day 7 Year 23

Transporter 2 Printed/Typed Name: Alisha Lennis
Signature: Alisha Lennis
Month 12 Day 7 Year 23

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Weight correction per David Hill/principal. MW 1-4-24
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Morgan Wolf
Signature: MWolf
Month 12 Day 18 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

DMS

502020

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	WAD000602813	2	023708989JJK

24. Generator's Name: Stay Forge

25. Transporter 3 Company Name: PCE — U.S. EPA ID Number: DRQ000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 89297

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	02/21/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502211	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708973JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	02/21/2024 06:09:24	MANUAL WT	aalvalos		Gross
Out	02/21/2024 06:09:24		aalvalos		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

Please print or type. 502211 12/17 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	WAD000602813	2	800-337-7455	023708973 JJK

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: James Robertson
Generator's Site Address (if different than mailing address)
Generator's Phone: 281 785-7875

6. Transporter 1 Company Name
R Transport Inc
U.S. EPA ID Number
WAH000028338

7. Transporter 2 Company Name
BNSF UPRR DMO 12/21/23
U.S. EPA ID Number
NJD001792910 MND048341788

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	1	CM	19 +0 Rev. David Hill PE DMO 12/26/23	T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR358547 ERG#171
Can WMXU 8904
38900P

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge
Signature:
Month 11 Day 21 Year 23

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Albert Carstar
Signature:
Month 11 Day 21 Year 23
Transporter 2 Printed/Typed Name: Alisha Lenius
Signature:
Month 11 Day 21 Year 23

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Permission to change weight Rev. David Hill PE DMO 12/26/23
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Dawn Dunlap
Signature:
Month 12 Day 26 Year 23

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

DMS

Please print or type. SD2211 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	WAD000602813	2	023708973JJK

24. Generator's Name: STAR Forge LLC

25. Transporter 3 Company Name: PCL — U.S. EPA ID Number: ORQ000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials — Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials — Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 90082

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	02/27/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	502693	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708986JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	02/27/2024 07:34:39	MANUAL WT	aalvalos		Gross
Out	02/27/2024 07:34:39		aalvalos		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

Please print or type. 502693 1-5 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAD000602813	1	800-337-7455	023708986 JJK

5. Generator's Name and Mailing Address
Att: James Robertson
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Generator's Phone: 281 785-7975

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: R Transport Inc — U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	01	CM	24 4 mw 1-17-24	T	K061		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR356547 ERG#171
WMKH 8899 47320P.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge — Signature — Month 12 Day 7 Year 23

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jason Edmonds — Signature — Month 12 Day 7 Year 23

Transporter 2 Printed/Typed Name: Alisha Lenius — Signature: Alisha Lenius — Month 12 Day 7 Year 23

DESIGNATED FACILITY
18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Weight correction per David Hill/pres. 01-17-24 Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Morgan Wolf — Signature: MWolf — Month 01 Day 15 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

BMS

Please print or type. SD 2693 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: WAD000602813

22. Page: 2

23. Manifest Tracking Number: 023708986JJK

24. Generator's Name: STAR FORGE LLC

25. Transporter 3 Company Name: PCL — U.S. EPA ID Number: ORQ000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 90768

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	03/01/2024	Vehicle#	RAIL Volume
Payment Type	Credit Account	Container	
CWM Load#	503488	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708988JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

	Time	Scale	Operator	Inbound	
In	03/01/2024 08:33:59	MANUAL WT	aalvalos		Gross
Out	03/01/2024 08:33:59		aalvalos		Tare
					Net
					Tons

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	MANIFEST TRACKING-	100	1.00	Each	0.00			

Total Tax
Total Ticket

Driver`s Signature

Please print or type. S03488 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: WAD000602813
2. Page 1 of: 2
3. Emergency Response Phone: 800-337-7455
4. Manifest Tracking Number: 023708988 JJK

5. Generator's Name and Mailing Address
Star Forge LLC DBA Jorgensen Forge
8531 E Marginal Way S
Seattle WA 98108
Att: James Robertson
Generator's Site Address (if different than mailing address)
Generator's Phone: 281 785-7976

6. Transporter 1 Company Name: R Transport Inc
U.S. EPA ID Number: WAH000028338

7. Transporter 2 Company Name: Union Pacific Railroad
U.S. EPA ID Number: NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2843
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, Hazardous waste, solid, n.o.s. (K061 Debris) 9, PGIII	01	cm	14 mw 2.26.24	T	K061
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(T) Profile# OR356547 ERG#171
28940p
container # wmxu 8924

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Nathan Moxley on behalf of Star Forge
Signature:
Month 12 Day 7 Year 23

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Blum
Signature:
Month 12 Day 7 Year 23

Transporter 2 Printed/Typed Name: Alisha Lerius
Signature: Alisha Lerius
Month 12 Day 7 Year 23

DESIGNATED FACILITY
18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Weight correction per David Hill/CHmm mw 2.26.24
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Morgan Wolf
Signature:
Month 02 Day 07 Year 24

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete. DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RMS

Please print or type. 503488 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: WAD000602813

22. Page: 2

23. Manifest Tracking Number: 023708988JJK

24. Generator's Name: Star Forge LLC

25. Transporter 3 Company Name: PCC — U.S. EPA ID Number: ORQ000041180

26. Transporter _____ Company Name — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

Chemical Waste Management of the NorthWest
17629 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2643

Reprint
Ticket# 91968

Customer Name	CONSTRUCTION GROUP INTERNATIO	Carrier	WATCO PALUOSE & COULEE CITY
Ticket Date	03/15/2024	Vehicle#	RAIL
Payment Type	Credit Account	Container	
CWM Load#	503488	Driver	
Hauling Ticket#		Check#	
Route		Billing #	0000255
State Waste Code		Gen EPA ID	
Manifest	023708988JJK		
Destination		Grid	
PO	OR356547		
Profile	OR356547 (K061 DEBRIS)		
Generator	OR-STAR FORGE LLC 8531 STAR FORGE LLC DBA JORGENSEN FORGE 8531 E MARGINAL WA		

Volume

	Time	Scale	Operator	Inbound	Gross	28940 lb*
In	03/15/2024 09:24:13	MANUAL WT	pslider1		Tare	
Out	03/15/2024 09:24:13		pslider1		Net	28940 lb
			* Manual Weight		Tons	14.47

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	RCRA Macr-Cubic Ya	100	25.00	Yards	291.06	289.40	$7276.50	WA-TUKWILA
2	ENERGY-Energy Surc	100		%	6.96		$677.01	WA-TUKWILA
3	MFE-e-Manifest (La	100	1.00	Each	25.00		$25.00	WA-TUKWILA
4	RAIL EA-RAIL EA	100	1.00	Each	835.00		$835.00	WA-TUKWILA
5	LINER EA-LINER PER	100	1.00	Each	85.00		$85.00	WA-TUKWILA
6	RENT DAILY-RENT PE	100	21.00	Each	25.00		$525.00	WA-TUKWILA
7	CONT PICKUP-CONTAI	100	1.00	Each	635.00		$635.00	WA-TUKWILA
8	WWM-WASTE WATER MA	100		%	4.75		$345.63	WA-TUKWILA

Total Tax	$289.40
Total Ticket	$10693.54

Driver`s Signature

STAR FORGE LLC DBA JORGENSEN FORGE

WAD000602813
FS ID: 2382

8531 E MARGINAL WAY S
SEATTLE , WA 98108

AR 2023

General Information

Received Date 4/8/2024

1. Reason for Submittal

N - Annual Report

Effective Date: 12/31/2023

2. Site ID

EPA Id: WAD000602813

Activity Location: WA

3. Site Name

Name: STAR FORGE LLC DBA JORGENSEN FORGE

4. Site Location

8531 E MARGINAL WAY S ,SEATTLE WA 98108

KING County, UNITED STATES

Latitude 47.526520 **Longitude:** -122.303090

Use Lat/Long as primary address: ☐

State District: NWRO

5. Site Mailing Address

8531 E MARGINAL WAY S ,SEATTLE WA 98108 UNITED STATES

6. Site Land Type

Private

7. North American Industry Classification System (NAICS)

332111 - IRON AND STEEL FORGING

8. Site Contact Person

Wayne R Turk - Project Administrator

wturk@jorgensenforge.com 206 255-8177

8a. Site Contact Address

8531 E. Marginal Way S. ,Seattle WA 98108-4018 UNITED STATES
206 255-8177

9a. Legal Owner

Type	Name	Address	Phone	Date
Private	STAR FORGE LLC DBA JORGENSEN FORGE	8531 E MARGINAL WAY S , SEATTLE WA 98108	(206)762-1100	3/27/1992

9b. Land Owner

Type	Name	Address	Phone	Date
Private	Star Forge LLC dba Jorgensen Forge	8531 E MARGINAL WAY S , SEATTLE WA 98108	(206)255-8177	3/16/2018

9c. Site Operator

Type	Name	Address	Phone	Date
Private	Star Forge LLC dba Jorgensen Forge	8531 E. MARGINAL WAY S. , SEATTLE WA 98108	(206)255-8177	3/27/1992

10. Type of Federal Regulated Waste Activity

10a. Dangerous Waste Activities

1. State Generator Category

LQG

2. Federal Generator Category

LQG

3. Short Term Generator
(This question is automatically reported as “no” to U.S. Environmental Protection Agency).

☐ **4. United States Importer of Dangerous Waste**

☐ **5. Mixed Waste (Dangerous and radioactive) Generator**

6. Transporter of Dangerous Waste
☐ a. HW Transporter
☐ b. HW Transfer Facility

☐ **7. Designated Facility of Dangerous Waste (TSD)**
(Requires an Ecology Part A or Part B permit for dangerous waste

8. Recycler of Dangerous Waste
☐ a. Stores Prior to Recycling
☐ b. Does Not Store Prior to Recycling

9. Exempt Boiler and / or Industrial Furnace
☐ a. Small Quantity On-site Burner Exemption
☐ b. Smelting, Melting, Refining Furnace Exemption

☐ **10. Underground Injection Control**
(Requires a registered underground injection well. See WAC 173-218).

☐ **11. Receives Dangerous Waste from Off-site**

12. Recognized Trader
☐ a. Importer ☐ b. Exporter

13. Importer/Exporter of Spent Lead Acid Batteries (SLABs)
☐ a. Importer ☐ b. Exporter

management).

10b. Universal Waste Activities

1. Large Quantity Handler of Universal Waste

☐ a. Batteries ☐ b. Lamps ☐ c. Mercury containing equipment

(Large quantity handlers accumulate 11,000 pounds or more total of universal waste (batteries, thermostats, and lamps calculated collectively) and/or accumulates more than maintain your LQHUW status through the end of the calendar year.)

(Between 2,200 and 10,999 lbs of universal waste lamps at any time in the calendar year. If you collected more than 10,999 pounds, select the box in 10b1b)

☐ **3. Destination Facility for Universal Waste**

10c. Used Oil Activities

1. Off-Specification Used Oil Burner

☐ a. Utility Boiler
☐ b. Industrial boiler
☐ c. Industrial furnace

2. Used Oil Processor and/or Re-refiner - Indicate types of activities.

☐ a. Processor
☐ b. Re-refiner

3. Used Oil Transporter - Indicate types of activities.

☐ a. Transporter
☐ b. Transfer Facility

4. Used Oil Fuel Marketer - Indicate types of activities.

☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

10d. Eligible Academic Entities with Laboratories

1. Yes, I am managing dangerous wastes under this rule.

☐ a. College or University

☐ b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.

☐ c. Non-profit institute that is owned by (or has a formal written affiliation agreement with) a college or university.

☐ **Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select this option.)**

10e. State Required Information. The following information is required by Washington State.

1. Washington State Tax Registration Number (UBI number): 813682678

2. How Frequently do you generate dangerous waste?

☐ a. Monthly ☑ b. Batch ☐ c. Spill Event ☐ d. Clean-Up

☐ **3. Generator of Special Waste (Regulated under WAC 173-303-073)**

☐ **4. Recycler of On-Site Waste (i.e. on-site use, reuse, or reclamation of a waste after it was generated)**

☐ **5. Permit-by-Rule (PBR)**

☐ **6. Treatment by Generator (TBG)**

☐ **7. Transport your own waste**

8. Dangerous Waste Fuel Activity

☐ a. Generator of dangerous waste fuel

☐ b. Generator marketing to burner

☐ c. Other marketers (i.e. blender, distributer etc)

d. Burner (indicate type of combustion unit)

☐ 1. Utility boiler ☐ 2. Industrial Boiler ☐ 3. Industrial Furnace

11. Federal Waste Codes

D002,D008,K061

12. State Waste Codes

WSC2,WT02

13. Episodic Generator

No Episodic Waste Exists

14. LQG Receiving Waste for Consolidation

☐ Are you an LQG notifying of consolidating SQG Hazardous Waste Under the Control of the Same Person following to WAC 173-303-171(1)(e)(IX)

15. Notification of LQG Site Closure for a Central Accumulation Unit (CAU) (optional) OR Entire Facility

☑ LQG Site Closure of a Central Accumulation Unit (CAU) or Entire Facility. WAC 173-303-200(12)

	Closure Type	Expected Closure Date	Requesting New Closure Date	Date Closed	Meets Compliance Standards

Entire Facility			No
Entire Facility	8/31/2021		Yes
Entire Facility		12/31/2024	No

16. Notification of Hazardous Secondary Material (HSM) Activity

☐ A. Are you notifying under WAC 173-303-017(8) that you will begin managing, are managing, or will stop managing hazardous secondary material under WAC 173-303-017(5)?

No HSM Activity reported

17. Manifest Broker

☐ Are you a Manifest Broker?

18. Pharmaceutical Activities

If you manage dangerous waste under the Pharmaceutical Requirements WAC 173-303-555, indicate the facility type in question a. If these requirements no longer apply, check the box in question b to withdraw.

I am managing dangerous wastes under the requirements as a:

☐ Healthcare facility
☐ Reverse distributor

☐ I wish to withdraw from this rule.

Note: If you are a Reverse Distributor, you may only withdraw from these requirements if you are also withdrawing your EPA/State Id number.

19. Comments

Waste is generated from activities related to site demolition and closure. Final clean closure will be complete in 2024. Amended Clean Closure was completed on individual Dangerous waste management units on the dates listed: CAA – 8/31/2023; Tote Storage Area – 10/26/2023; Baghouse – 11/21/2023.

20. Certification

Title	First Name	Last Name
Project Administrator	Wayne	Turk
Email		**Certification Date**
wturk@jorgensenforge.com		4/8/2024

Close

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 1

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR356878 (Optional)

A-2. Lead Paint Chips

A-3. D008

A-4.

A-5. [ ] EHW [X] DW

A-6. [X] No [ ] Yes

A-7. G15

A-8. W406

A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi

A-9.a.

A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes

A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site

B-2.a. Was waste managed according to the treatment-by-generator guidance?

_____
___

[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H132	950	
See GM Addendum B3 for Shipments Sent Page number 1			

B-4. 950 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Debris contaminated with lead paint chips from demolition of buildings associated with site closure.

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 2

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR356547 (Optional)

A-2. K061 Debris

A-3. K061	A-4.

A-5. [ ] EHW [X] DW	A-6. [X] No [ ] Yes	A-7. G15
A-8. W319	A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi A-9.a.	A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes	A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site	B-2.a. Was waste managed according to the treatment-by-generator guidance?
_____	[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H132	211100	
See GM Addendum B3 for Shipments Sent Page number 2			

B-4. 211100 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Baghouse dust generated from demolition of baghouse system associated with Clean Closure and site closure.

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 3

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR357533 (Optional)

A-2. Lead Contaminated Debris

A-3. D008

A-4.

A-5. [ ] EHW [X] DW

A-6. [X] No [ ] Yes

A-7. G15

A-8. W002

A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi

A-9.a.

A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes

A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site

_____

___

B-2.a. Was waste managed according to the treatment-by-generator guidance?

[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H141	37120	0
ORD089452353	H132	197020	
See GM Addendum B3 for Shipments Sent Page number 3			

B-4. 234140 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Waste generated during demolition of building for site closure.

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 4

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR357535 (Optional)

A-2. Calcium Oxide

A-3.

A-4. WSC2 ,WT02

A-5. [ ] EHW [X] DW

A-6. [X] No [ ] Yes

A-7. G32

A-8. W319

A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi

A-9.a.

A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes

A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site

B-2.a. Was waste managed according to the treatment-by-generator guidance?

_____

[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H132	189380	
See GM Addendum B3 for Shipments Sent Page number 4			

B-4. 189380 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Calcium Oxide and debris generated during site demolition and facility closure.

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 5

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR357562 (Optional)

A-2. K061 Decon Water

A-3. K061

A-4.

A-5. [ ] EHW [X] DW

A-6. [X] No [ ] Yes

A-7. G15

A-8. W101

A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi

A-9.a.

A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes

A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site

B-2.a. Was waste managed according to the treatment-by-generator guidance?

_____

[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H132	2350	
See GM Addendum B3 for Shipments Sent Page number 5			

B-4. 2350 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Water contaminated with baghouse dust generated from demolition of baghouse system associated with Clean Closure and facility closure.

Generation and Management Form	GM

Please enter your US EPA/State ID Number and your site name in the small box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Then complete one answer sheet for each waste stream.
Reference the instructions on pages 29 through 36 as you complete this form.

Please type or print legibly in blue or black ink.

Please Enter:

Your US EPA/State Id: WAD000602813

Site Name: STAR FORGE LLC DBA JORGENSEN FORGE

Page Number: 6

For Ecology Use Only: _____

A. Description of Dangerous Waste Stream

Where was this waste stream managed? [X] Off-Site [ ] On-Site

A-1. OR357669 (Optional)

A-2. Calcium Oxide Decon Water

A-3. D002

A-4.

A-5. [ ] EHW [X] DW

A-6. [X] No [ ] Yes

A-7. G32

A-8. W101

A-9. [ ] i [X] ii [ ] iii [ ] iv [ ] v [ ] vi

A-9.a.

A-10. [X] No [ ] Yes

A-11. [X] No [ ] Yes

A-12.

B. Waste Management Activities

B-1. To be completed by Generators, TSD and Recyclers- Additional space is available on the continuation sheet

B-2. Enter waste managed On-Site

B-2.a. Was waste managed according to the treatment-by-generator guidance?

_____

[X] No [ ] Yes

B-3. Enter Off-site summary

Designated Facility (TSDR)	Management Code	Quantity	Recycling Percent
ORD089452353	H134	4000	
See GM Addendum B3 for Shipments Sent Page number 6			

B-4. 4000 [ ] Tons [X] Pounds [ ] Kilograms [ ] Gallons (If gallons, answer B-4.a.)

B-4.a. _____ [ ] Lbs/gal [ ] Specific Gravity

C. Comments

Water generated during decontamination of equipment during demolition associated with facility closure.

Generation Management					Addendum B3	
Page Num	Date Shipped (mm/dd/ yyyy)	Manifest Document Number	Internal Tracking Code	Designated Facility Number	Quantity Shipped	Management Code
1	10/20/2023	023708954JJK		ORD089452353	950	H132
2	10/25/2023	023708963JJK		ORD089452353	5400	H132
2	11/21/2023	023708973JJK		ORD089452353	38900	H132
2	11/21/2023	023708972JJK		ORD089452353	41860	H132
2	12/07/2023	023708986JJK		ORD089452353	47320	H132
2	12/07/2023	023708987JJK		ORD089452353	7480	H132
2	12/07/2023	023709000JJK		ORD089452353	31880	H132
2	12/07/2023	023708989JJK		ORD089452353	9320	H132
2	12/07/2023	023708988JJK		ORD089452353	28940	H132
3	12/14/2023	025895501JJK		ORD089452353	37120	H141
3	12/14/2023	025895506JJK		ORD089452353	48980	H132
3	12/14/2023	025895507JJK		ORD089452353	35540	H132
3	12/14/2023	025895505JJK		ORD089452353	36880	H132
3	12/14/2023	025895502JJK		ORD089452353	50840	H132
3	12/15/2023	025895508JJK		ORD089452353	24780	H132
4	12/14/2023	025895513JJK		ORD089452353	19100	H132
4	12/14/2023	025895516JJK		ORD089452353	30220	H132
4	12/14/2023	025895514JJK		ORD089452353	12180	H132
4	12/14/2023	025895519JJK		ORD089452353	19110	H132
4	12/14/2023	025895518JJK		ORD089452353	26000	H132
4	12/14/2023	025895517JJK		ORD089452353	32890	H132
4	12/14/2023	025895515JJK		ORD089452353	31600	H132
4	12/14/2023	025895512JJK		ORD089452353	18280	H132
5	12/18/2023	025895530JJK		ORD089452353	2350	H132
6	12/11/2023	023708907JJK		ORD089452353	4000	H134

1011 SW KLICKITAT WAY
SUITE 107
SEATTLE, WASHINGTON 98134
(206) 939-0886

SPILL / RELEASE REPORT FORM

FILE NAME:
Star Forge Lime Release Report 11-22-23.

LOCATION OF SPILL/RELEASE:
8531 E Marginal Way S
Tukwila, WA 98108

DATE OF SPILL/RELEASE:
11/22/2023

ESTIMATED TIME OF SPILL/RELEASE:
12:30 PM

WA STATE ERTS #
726905

REPORT PREPARED BY:
David Hill, PE, CHMM
Principal – DH Environmental, Inc.
Phone: (206) 293-3126
Email: davehill@dhenviro.com

MATERIAL(S) RELEASE:
Lime (calcium hydroxide / calcium oxide ratio unknown)

ESTIMATED QUANTITY OF SPILL/RELEASE:
500 lbs

AGENCIES NOTIFIED:
- WA State Emergency Management Division
- WA State Department of Ecology
- National Response Center

SITE CONTACT:
James Robertson
Star Forge, LLC
Phone: (281) 785-7875

WEATHER:
No Rain, Moderate Northerly Wind (heading directly south)

WATER BODY IMPACTED:
None

SUMMARY OF INJURIES OR EXPOSURES: No injuries or exposures were reported as a result of the release.

Summary of Spill/Release Incident

The former Jorgensen Forge facility located at 8531 E. Marginal Way S. in Tukwila, WA is currently undergoing permitted demolition of all structures on the property. The site is currently under an Agreed Order between the Washington State Department of Ecology and the current property owner (Star Forge, LLC) for a MTCA Interim Action Cleanup (Cleanup Site ID 3689). The site is also under an Agreed Order between the WA State Department of Ecology and a former owner (Earle M. Jorgensen Company) for a MTCA Remedial Investigation and Feasibility Study. The property was used from 1942 to 2018 to manufacture structural steel, tractor and road equipment, and large-scale metal parts for the aircraft and marine industries. The demolition contractor is Construction Group International (CGI). DH Environmental, Inc. is contracted with Star Forge to provide environmental compliance oversight for the Interim Action work.

On the southwest side of the site, there is an elevated storage hopper approximately 25 feet above ground (see attached map showing the approximate vessel location) containing lime. This hopper was enclosed inside a structure and elevated, so it was not apparent to anyone that it contained any materials. This area of the facility, referred to as the "melt shop," ceased operation in 2015, prior to Star Forge's ownership of the facility. The on-site presence of this lime was unknown to all parties.

On Wednesday 11/22/2023 at approximately 12:30 PM, the lime hopper was breached as CGI was cutting into the structure for demolition. The breach resulted in an estimated 500-lbs of lime falling from the vessel onto the ground. Due to the northerly wind direction and location of the hopper being approximately 150 feet from the south property line, some of the lime crossed over onto Boeing's property adjacent to the south. We do not believe that the lime impacted the Duwamish River because the wind was blowing directly south. The wind was light to moderate at the time of the release.

All catch basins in the area of demolition were blocked prior to the incident occurring as a stormwater Best Management Practice. In addition, all stormwater drainage at the facility is treated and batched tested before discharging the Lower Duwamish under two Administrative Orders with the WA State Department of Ecology.

No injuries or exposures were reported because of this release. Lime is not highly toxic, but it is an irritant to skin, eyes, gastrointestinal tracts, and respiratory tracts. The lime designated as Dangerous Waste in accordance with the WA State Dangerous Waste regulations because when mixed with an equal weight of water, the pH exceeded 12.5. This testing was conducted on-site by DH Environmental with a pH meter. WA state has a State-Only Dangerous Waste designation of WSC2 for corrosive solids. Due to this release qualifying as a "Dangerous Waste Release", the WA State Emergency Management Division (1-800-258-5990) was notified in addition to the National Response Center (1-800-424-8802). These notifications were made from approximately 1:30 – 2:30PM. Beau Johnson, the Ecology Site Manager, was also notified, in addition to the Boeing EHS manager for the property to the south. Because Boeing's

ATTACHMENTS:
☒Site Photos ☐Sketch ☐Chain of Custody ☐Other:
☐Sample Log ☒Drawing(s) ☐Calibration Records

property is a military operations facility, we were not allowed to take any action on Boeing's property due to their security protocol. The Boeing EHS representative informed us that they blocked their stormwater conveyance lines in the area and planned to bring out a spill response contractor to recover the spilled lime from their property.

Actions taken on-site to contain the release:

- CGI used a boom lift to raise an employee near the breach and "plugged" it with sheet metal and adhesive foam to stop further release and dispersion of lime from the source (see Photo – 01)
- The lime on the ground on the Star Forge property was scraped (by CGI) into a pile with equipment and covered with plastic sheeting/visqueen (see photo 02).
- The area was demarcated with Danger Tape.

The lime in the source hopper is currently contained and lime on the ground has been consolidated and covered with plastic pending disposal.

Due to the height of the hopper and potential structural risks, the remaining lime (estimated 10-15 tons) could not be immediately removed as specialized equipment is required to be deployed. As of the date of this report, Star Forge and its contractors and consultants are assessing all options for safe removal of the lime to avoid further release and dispersion.

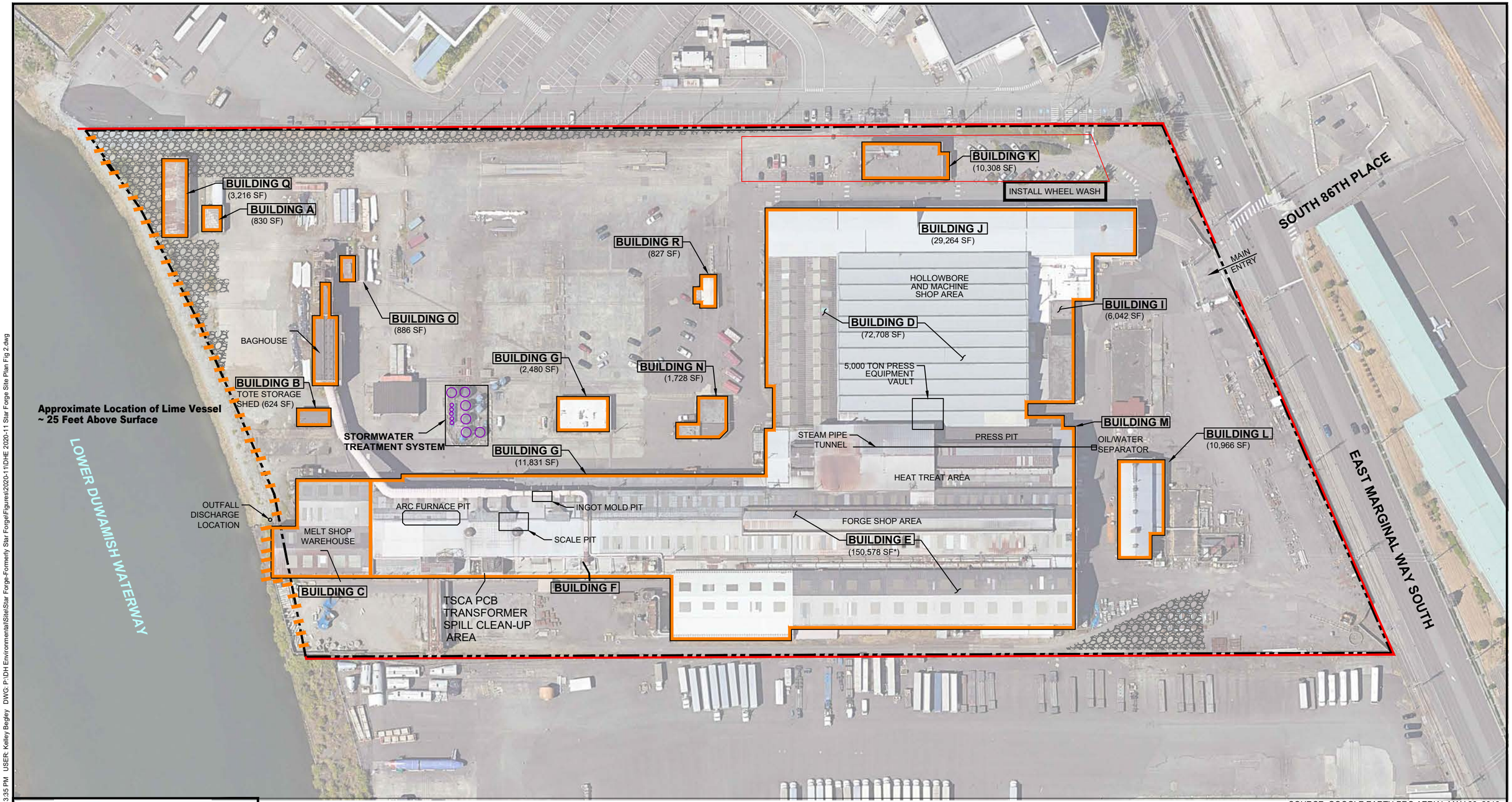
Photos:



Photo 01
Facing East, Lime Vessel Breach "Plug" with Sheet Metal and Adhesive Foam, 11/22/2023



Photo 02
Facing East, Surface Impacted Lime Contained and Covered, 11/22/2023



SOURCE: GOOGLE EARTH PRO AERIAL MAY 26, 2018.

DH Environmental Inc

Demolition Plan Site Map and Sequencing Plan

Star Forge 8531 East Marginal Way South Tukwila, Washington	11/19/2020 Stacy Fox	Figure 1

PHASES

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

LEGEND

- PROPERTY BOUNDARY
- BUILDING OUTLINE
- EXSISTING CONCRETE BERM OR SPRAY APPLIED, RIGID POLYURETHANE FOAM WATER-TIGHT BERM
- INSTALL PRIVACY FENCE
- GRAVEL SURFACE
- SF SQUARE FEET
- * COMBINED SF OF BUILDINGS E AND F
- HAY BALE BARRIER

N

0 30 60 120

APPROXIMATE SCALE IN FEET

PLOT TIME: 11/19/2020 3:41 PM MOD TIME: 11/19/2020 3:35 PM USER: Kelley Begley DWG: P:\DH Environmental\Site\Star Forge-Formerly Star Forge\Figures\2020-11\DHE 2020-11 Star Forge Site Plan Fig 2.dwg

Dangerous Waste Clean Closure Report

Former Jorgensen Forge Site
RCRA Site ID: WAD000602813

8531 East Marginal Way South
Tukwila, WA 98108

22 July 2020

Prepared for:

Star Forge, LLC
8531 East Marginal Way South
Tukwila, WA 98108

Prepared by:

DH Environmental, Inc.
1011 SW Klickitat Way, Suite 107
Seattle, WA 98134

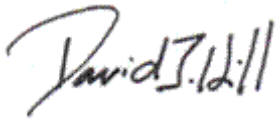
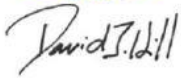
EXECUTIVE SUMMARY

This Dangerous Waste Clean Closure Report has been prepared by DH Environmental, Inc. ("DH Environmental") for the purpose of documenting the Clean Closure of Dangerous Waste Management Units at the former Jorgensen Forge Facility located at 8531 E Marginal Way S., Tukwila, Washington 98108. This report also presents the waste designation of materials within the buildings which will be demolished at the facility following issuance of a demolition permit by the City of Tukwila.

The facility is subject to Clean Closure because it was a generator of Dangerous Waste and operated Dangerous Waste Management Units throughout its history, which extends back to the 1940s. Star Forge, LLC ("Star Forge") is the current owner of the property and is conducting this Clean Closure prior to the sale and redevelopment of the property. Earle M. Jorgensen ("EMJ"), a former owner of the facility, bought the plant from the original owner, Isaacson Steel and operated an industrial operation on the site for many years. EMJ is investigating and remediating the legacy contamination on the Property under an Agreed Order it entered into with the Washington State Department of Ecology in 2017.

Star Forge has completed the Clean Closure activities that can be accomplished under the Dangerous Waste Regulations with the buildings still intact, and without interfering with the work being undertaken by EMJ. Final closure of some of the Dangerous Waste Management Units subject to Clean Closure will be accomplished once cleanup levels are established under the site-wide Agreed Order being conducted by EMJ. Star Forge and EMJ are cooperating to make sure that each entity can carry out the work for which it is responsible.

PROJECT INFORMATION

Project Title	Former Jorgensen Forge Clean Closure
Project Location	8531 E Marginal Way S., Tukwila, Washington 98108
Project Owner	Star Forge LLC
Report Delivery Date	22 July 2020
Report Prepared by	 Stacy Fox, CHMM Senior Project Scientist DH Environmental, Inc.  Nathan Moxley, LG, LHG Senior Project Hydrogeologist  David Hill, PE, CHMM, CPEA Principal DH Environmental, Inc.   Expires 01 December 2021

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LIST OF ACRONYMS AND ABBREVIATIONS

CAA	Central Accumulation Area
DWMU	Dangerous Waste Management Unit
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
HVOC	Halogenated Organic Compounds
MTCA	Washington State Model Toxics Control Act
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
QA/QC	Quality Assurance / Quality Control
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation / Feasibility Study
SAP	Sampling and Analysis Plan
SVOC	Semivolatile Organic Compounds
TCLP	Toxicity Characteristic Leachate Procedure
UST	Underground Storage Tank
VOC	Volatile Organic Compounds

1.0 OVERVIEW

DH Environmental has prepared this Report on behalf of Star Forge, to document Clean Closure of the former Jorgensen Forge Facility located at 8531 E Marginal Way S., in Tukwila, Washington 98108 (the "Facility"; Figure 2). The purpose of this document is to report the results of work undertaken by Star Forge to carry out Clean Closure of the applicable Dangerous Waste Management Units ("DWMUs") at the Facility in accordance with WAC 173-303-610(2) and (5). In addition, this report presents the waste designation of materials within the buildings located on the Facility in accordance with WAC 173-303-070.

Star Forge has conducted the required Clean Closure activities that can be accomplished under Washington's Dangerous Waste regulations with the structures still intact, and without interfering with the work being undertaken by EMJ.

DH Environmental has prepared a Sampling and Analysis Plan (SAP) to describe the sampling and analysis protocols that were followed during sampling at the Facility. These protocols meet the requirements of WAC 173-303-070, the technical requirements of EPA publication SW-846, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, Washington State Department of Ecology (Ecology) Publication #97-407, *Chemical Testing Methods for Designating Dangerous Waste (2014),* and Ecology Publication 94-111, *Guidance for Clean Closure of Dangerous Waste Units and Facilities* (2005). The SAP is included as Appendix 1. Appendix 2 is the Health and Safety plan developed for the work associated with this report.

1.1 Site Description[1]

The former Jorgensen Forge Facility consists of approximately 21.6 acres, located in an industrial area along the east bank of the Lower Duwamish Waterway. The site is bordered to the north by Boeing Plant 2, and to the south by the Boeing Isaacson property. It is bordered to the west by the Lower Duwamish Waterway, and to the east by East Marginal Way South and the King County Regional Airport ("Boeing Field").

The property was used from 1942-1965 to fabricate structural steel, tractor, and road equipment. Operations at the site included forging and heat-treating operations conducted for the U.S. Navy.

The property was developed first by Isaacson Steel, from 1942-1965. It was owned and operated by Earl M. Jorgenson Co. ("EMJ") from 1965 until 1992, when it was purchased by Jorgensen Forge Corporation ("JFC"). JFC manufactured specialized large-scale metal parts for the aircraft and marine industries, including open die steel forgings and rolled aluminum rings. JFC also processed nickel, titanium, and specialized alloys.

[1] Information in this section was derived from the Washington State Department of Ecology's Jorgensen Forge Corp. Site Information webpage: https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=3689

Industrial use by Isaacson, EMJ and JFC since the 1940's has left a legacy soil and groundwater contamination documented in previous studies. Contaminated groundwater may have also migrated onto the property from off-site sources.

Contaminants of concern at the site include:

- Polychlorinated biphenyls (PCBs)
- Volatile organic compounds (VOCs)
- Halogenated volatile organic compounds (HVOCs)
- Metals (including but not limited to arsenic, cadmium, chromium, lead, nickel, copper, and zinc)

1.2 Work Performed by Others

Star Forge purchased the facility in bankruptcy from the estate of JFC on November 28, 2016. It operated the Facility for less than two years before ceasing operations in 2018.

Pursuant to a Settlement Agreement reached in the bankruptcy, EMJ entered into an Agreed Order with Ecology in 2017 to complete a remedial investigation and feasibility study (RI/FS) and conduct remediation under a Cleanup Action Plan to be prepared by Ecology. Since 2017, EMJ has been negotiating a draft Remedial Investigation Work Plan with Ecology's Toxic Cleanup Program. The most recent draft, dated April 15, 2020, is being reviewed by Ecology's Toxics Cleanup Program (TCP). TCP's Project Manager has asked EMJ to provide a copy of this closure report when it becomes available, and has informed EMJ that additional sampling may be required as part of the remedial investigation to address issues raised by the data provided in this Report. Star Forge will provide a copy of this report directly to the TCP and to EMJ to facilitate their work under the Agreed Order.

From October 2018 to April 2020, SoundEarth Strategies of Seattle, WA ("SES") conducted hazardous building materials surveys, dangerous waste designations, and oversaw abatement and removal of hazardous building materials and Dangerous Waste from the site. Table 2 summarizes the waste shipped off-site associated with Clean Closure efforts. DH Environmental was engaged by Star Forge in April 2020 to complete all remaining Clean Closure activities, and to carry out other environmental work.

1.3 Clean Closure Target Areas and Materials

"Closure" refers to the process of taking a DWMU out of service and properly cleaning up or decontaminating the DWMU and any areas affected by releases from the DWMU. When this process is finished, a unit is referred to as "closed."[2]

Generators are required to meet closure performance standards at WAC 173-303-610(2) and (5). When a DWMU is closed, all Dangerous Waste generated at the facility must be removed, and DWMUs that managed or accumulated Dangerous Wastes must also be removed or decontaminated. Legacy contamination of environmental

[2]Ecology, 2005. *Guidance for Clean Closure of Dangerous Waste Units and Facilities*. Hazardous Waste and Toxics Reduction Program. Publication No. 94-111.

media is being investigated and remediated by EMJ. To facilitate EMJ's cleanup, however, and a condition of sale, Star Forge has undertaken the Clean Closure of the structures on the Property, leveling the site so that it can be fully investigated, remediated, and redeveloped.

The Clean Closure work that has been conducted by Star Forge includes decontamination, designation, and/or removal of debris, containers, and above ground materials potentially designating as Dangerous Waste. Residual slag or significant accumulations of dust on structural elements have been designated and, in some cases, have been removed and disposed of off-site to prepare the structure for demolition. Groundwater is being investigated by EMJ, as is soil contamination, pursuant to the Agreed Order.

The following sections describe the areas identified as DWMUs subject to closure, and additional areas/materials of concern identified across the facility where Dangerous Waste may remain in soil. The sampling schemes are also summarized along with the results of sampling efforts.

2.0 DANGEROUS WASTE MANAGEMENT UNITS

DH Environmental has identified three DWMUs subject to Clean Closure. These areas include two Dangerous Waste Central Accumulation Areas and the baghouse structure and associated equipment that contacted K-listed waste. These areas have been identified by physical inspection, review of historical documents, and interviews with staff that worked at the facility when it was operational. Figure 2 shows the locations of the DWMUs.

Each of the DWMUs have been emptied and sampled. The concrete floors of each unit were cleaned by high pressure steam and water sprays. Concrete wash water was contained and captured using a vacuum truck. The concrete floors were sampled by drilling into the slab to shallow depths of approximately 3-4 inches with a roto-hammer concrete drill and capturing the tailings for analysis. The specific sampling scheme for each DWMU is summarized below and detailed in the attached SAP.

2.1 Clean Closure Performance Standards

The sampling and analysis conducted on the DWMUs was designed with the following objectives in order of precedence:

1. Determine if the DWMU containment or ancillary equipment meets the definition of "hazardous debris" defined as debris that is contaminated with listed dangerous waste or which itself exhibits a dangerous waste characteristic or criteria. If the DWMU containment or ancillary equipment meets the definition of "hazardous debris", it will be designated and removed accordingly. If the hazardous debris cannot be removed prior to demolition of the superstructure, it will be protected from cross contamination during demolition and addressed after the superstructure is demolished.

2. Determine if the DWMU debris requires further decontamination or removal to meet site cleanup levels or if investigation of surrounding environmental media is warranted based on contaminants detected in the debris. Because site-wide cleanup levels, feasibility analysis, and the Cleanup Action Plan to be implemented under the Agreed Order have not yet been completed, further decontamination, removal, or investigation of environmental media cannot be carried out at this time. All Clean Closure activities that can be done at this time have been completed and are documented herein.

2.2 Former Dangerous Waste Central Accumulation Areas

2.2.1 Central Accumulation Area

The Central Accumulation Area (CAA) is one of two 90/180-day Dangerous Waste accumulation areas. The CAA is located on the northwest corner of the site and is shown in Photo 1 below. The CAA is an approximately 1,000 SF structure with aluminum siding, a concrete slab, and an approximately 1 ft. concrete base wall that served as secondary containment. The CAA stored Dangerous Waste in drums and small containers generated from facility maintenance and operations. Based on historical documents and interviews with facility staff, the structure at one time contained a 300 gallon above ground storage tank that serviced diesel fuel. Consequently, the structure was also known as the "diesel house".

Sample locations from the concrete floor of the CAA were determined in the field by dividing the area into quadrants. Each sample was collected from areas of staining, if present. If no areas of staining were observed, the sample from the respective quadrant was collected from the center of the quadrant. Samples were collected using a roto-hammer concrete drill and drilling into the concrete surface approximately 3-4 inches and then extracting the drill bit. The drill tailings were collected and placed into laboratory supplied sampling containers. Multiple drill holes were required to obtain sufficient sample volume, obtained from drill holes in close proximity to each other. Photo 1 below shows the location of the CAA and Photos 2 and 3 show the concrete containment and collection of the samples on 29 May 2020. Figure 3 shows the approximate locations of the sample locations on the slab.

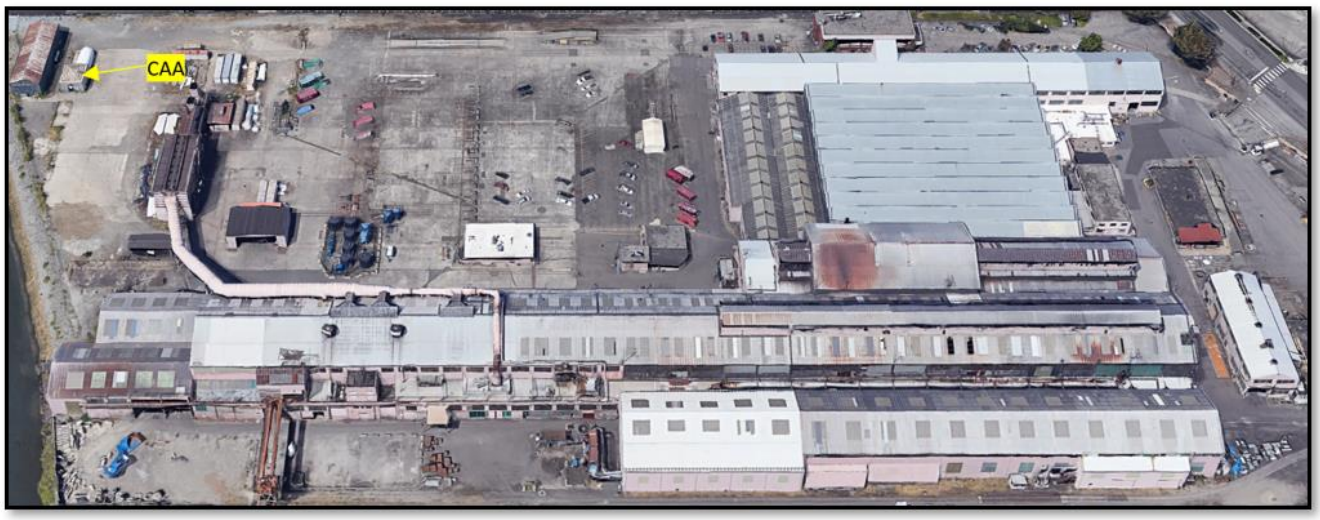


Photo 1: CAA Dangerous Waste Management Unit, Facing North, Adapted from Google Earth, 2018 Imagery



Photo 2: CAA Containment, SE Quadrant, 29 May 2020



Photo 3: CAA Containment, NW, Quadrant, 29 May 2020

Each sample, consisting of a composite of several drill hole tailings, was analyzed for gasoline range organics by NWTPH-Gx, diesel range organics by NWTPH-Dx, volatile organic compounds by EPA 8260C, PCBs by EPA Method 8082A, Total RCRA Metals + copper, nickel, and zinc, and TCLP for RCRA 8 Metals. The results are summarized in Table 3 and the Washington State Equivalent Calculations are summarized in Table 4. Based on the results, DH

Environmental has concluded that the CAA containment does not designate as a characteristic waste, listed waste, or a Washington State criteria waste. Therefore, the CAA containment does not meet the definition of hazardous debris. One of the four samples from the CAA containment did exceed the MTCA Method A unrestricted cleanup level for diesel range organics.

2.2.2 Tote Storage Area

The Tote Storage Area is the other 90/180-day Dangerous Waste accumulation area located on the west side of the site and is shown in Photo 4 below. The Tote Storage Area is an approximately 800 SF structure with wooden siding and an asphalt slab. The Tote Storage Area stored Dangerous Waste and used oil totes and drums generated from facility maintenance and operations. Based on historical documents and interviews with facility staff, the structure at one time was used to clean and etch product samples prior to laboratory testing. Consequently, the structure was also known as the "Acid House" or "Etch House" before it was used as a 90/180-day Dangerous Waste accumulation area in the 1990s.

Similar to the CAA, sample locations from the asphalt floor of the Tote Storage Area were determined in the field in accordance with the SAP by dividing the area into quadrants, as shown in Figure 4. Each sample was collected from areas of staining, if present. If no areas of staining were observed, the sample from the respective quadrant was collected from the center of the quadrant. Samples were collected by using a roto-hammer drill and drilling into the asphalt surface approximately 3-4 inches and extracting the drill bit and tailings in a manner similar to the CAA sampling. Photos 5 and 6 below show the asphalt slab and collection of the samples on 03 June 2020.

Each sample, consisting of a composite of several drill hole tailings, was analyzed for gasoline range organics by NWTPH-Gx, diesel range organics by NWTPH-Dx, volatile organic compounds by EPA 8260C, PCBs by EPA Method 8082A, Total RCRA Metals + copper, nickel, and zinc, and TCLP for RCRA 8 Metals. The results are summarized in Table 3. Based on the results, the Tote Storage Area containment does not designate as a characteristic waste, listed waste, or a Washington State criteria waste. PCBs were detected in the asphalt slab in concentrations up to 40 mg/kg. However, the original source of the PCBs is unknown and Star Forge is not aware of any PCBs stored, released, or otherwise managed at this location during the time it has owned the Property, which dates only to 2016. The Washington State WPCB source code listing should not apply to the concrete as the listing applies when the source is from the following, or residues thereof, in accordance with WAC 173-303-9904:

Discarded transformers, capacitors or bushings containing polychlorinated biphenyls (PCB) at concentrations of 2 parts per million or greater (except when drained of all free flowing liquid) and the following wastes generated from the salvaging, rebuilding, or discarding of transformers, capacitors or bushings containing polychlorinated biphenyls (PCB) at concentrations of 2 parts per million or greater: Cooling and insulating fluids and cores, including core papers.

The Tote Storage Area containment does not meet the definition of hazardous debris. However, the Tote Storage Area containment does exceed MTCA Method A unrestricted cleanup levels for diesel range hydrocarbons as well as PCBs.

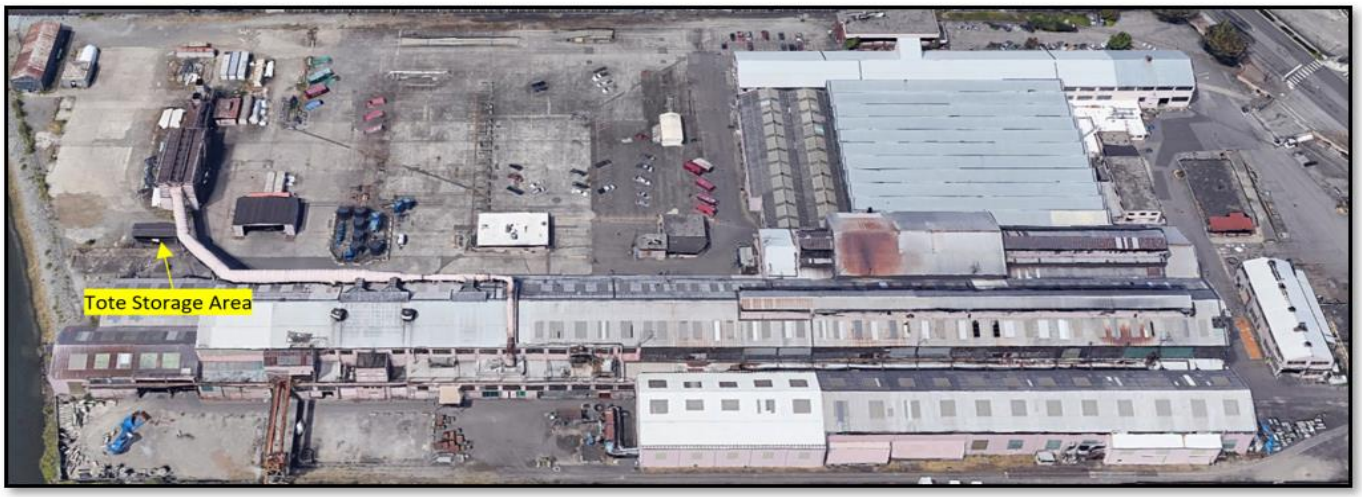


Photo 4: Tote Storage Area Dangerous Waste Management Unit, Facing North, Adapted from Google Earth, 2018 Imagery



Photo 5: Tote Storage Area Facing West, 03 June 2020



Photo 6: Tote Storage Area NW Quadrant, 03 June 2020

2.3 Baghouse

The baghouse is located in the western portion of the property and was constructed in late 1977 to early 1978. For the purpose of Clean Closure, the baghouse has been designated as a DWMU that includes the approximately 4,000 SF baghouse building and related equipment, including the baghouse tunnel, that conveyed air and dust from the melt shop to the baghouse. The baghouse dust was designated as a K061 waste stream as it meets the definition of K061 - Specific Source Waste from iron and steel sources in accordance with WAC 173-303-9904:

Emission control dust/sludge from the primary production of steel in electric furnaces.

In addition, an electrical utility trench that runs along the eastern perimeter of the baghouse was found to have significant sediment accumulation presumably contaminated with K061 dust.

From December 2019 to March 2020, Clean Harbors Environmental Services, on behalf of Star Forge, conducted extensive dust removal and cleaning of the baghouse equipment. The baghouse equipment, including the baghouse tunnel was cleaned to Alternative Treatment Standards using a combination of high-pressure steam and water sprays, and physical scrubbing. Approximately 119,000 lbs. of K061 dust and debris was removed and disposed of off-site from the baghouse tunnel and the baghouse structures.

The baghouse processing area and concrete slab is divided by a wall thereby creating two separate areas denoted as Baghouse North and Baghouse South. Photo 7 below is an aerial photo showing the baghouse areas designated as the DWMU. Photo 8 shows the baghouse facing west and the division of the structure for the purpose of the sampling and cleaning.

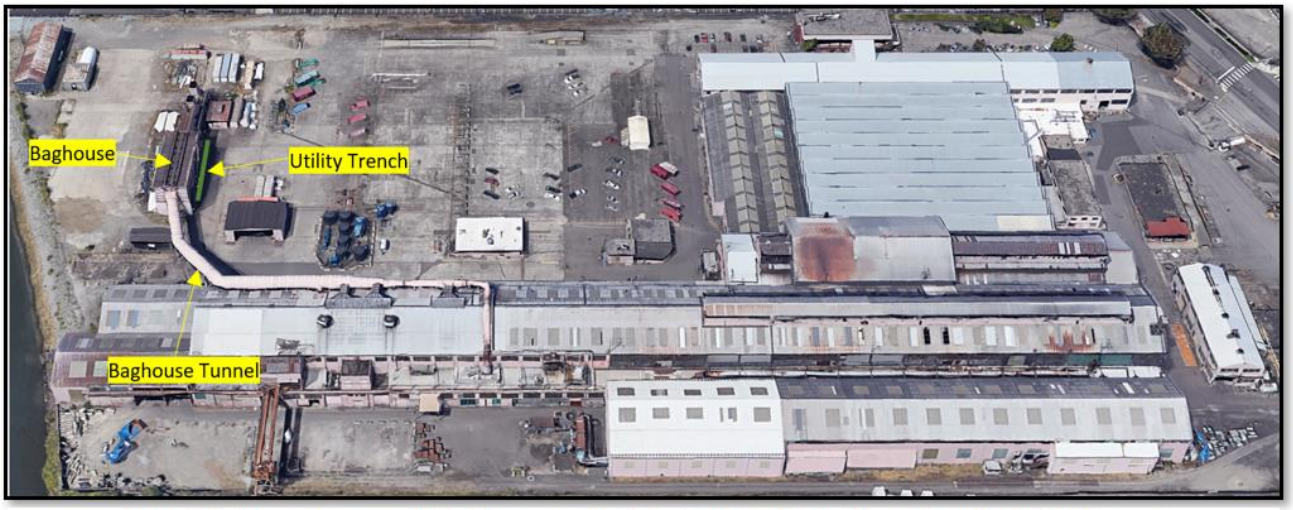


Photo 7: Baghouse Dangerous Waste Management Unit, Facing North, Adapted from Google Earth, 2008 Imagery



Photo 8: Baghouse Dangerous Waste Management Unit, Facing West, Adapted from Google Earth, 2008 Imagery

The utility trench and concrete slab of the baghouse were cleaned using high pressure steam and water sprays in June 2020 by DH Environmental as part of the baghouse DWMU evaluation. Photos 9 and 10 below show the baghouse utility trench while being cleaned, and after cleaning, respectively.



Photo 9: Baghouse Utility Trench, Facing North, 16 June 2020



Photo 10: Baghouse Utility Trench, Facing South, 16 June 2020

The sampling design for the baghouse consisted of gridding each area. The southern portion of the baghouse was gridded into six equal sized areas due to its larger size and the northern portion was divided into quadrants. The concrete utility trench east of the baghouse was divided into three equally spaced intervals along the length of the trench. See Figure 5 for the sample location detail.

Each sample was collected from areas of staining, if present. If no areas of staining were observed, the sample from the respective grid area was collected from the center of the grid area. Samples were collected by using a roto-hammer concrete drill and drilling into the concrete surface approximately 3-4 inches and extracting the drill bit. The drill tailings were then collected and placed into laboratory supplied sampling containers. Multiple drill holes were required to obtain sufficient sample volume. The drill holes were drilled in close proximity to each other.

Each sample, consisting of a composite of several drill hole tailings, was analyzed for gasoline range organics by NWTPH-Gx, diesel range organics by NWTPH-Dx, volatile organic compounds by EPA 8260C, PCBs by EPA Method

8082A, Total RCRA Metals + copper, nickel, and zinc, and TCLP for RCRA 8 Metals. The results are summarized in Table 3 and the Washington State Equivalent Calculations are summarized in Table 4.

Based on the results, the "Baghouse North" concrete slab designates as a K061 listed waste and should be considered hazardous debris subject to further investigation, decontamination or removal.

Pursuant to 40 CFR Appendix VII to Part 261 - Basis for Listing Hazardous Waste, K061 is listed for hexavalent chromium, lead, and cadmium. Therefore, we propose that the basis for listing and/or delisting the concrete debris associated with the Baghouse DWMU should be a demonstration that the concrete concentrations of hexavalent chromium, lead, and cadmium are below MTCA Method A levels for unrestricted land use. As shown in Table 3, the concentrations of lead and cadmium are below the MTCA Method A levels of 250 mg/kg and 2 mg/kg, respectively. The concentration of trivalent chromium is well below the MTCA Method A level of 2,000 mg/kg. However, hexavalent chromium was found in one location in the Baghouse North at 24 mg/kg, which is above the 19 mg/kg, MTCA Method A cleanup level. The Baghouse concrete containment also exceeds MTCA Method A unrestricted cleanup levels for diesel range hydrocarbons.

2.4 Summary of DWMUs Closure Status

Three DWMUs have been identified for closure in accordance with WAC 173-303-200(h). Table 1 below summarizes the current status of each DWMU in accordance with the Dangerous Waste Regulations.

DWMU Name	Media Designation	Performance Standard	Status of Numeric Clean Closure Levels
Central Accumulation Area	The DWMU concrete slab and superstructure are Non-Hazardous Debris.	High Pressure Steam and Water Sprays	Exceeds MTCA Method A, Unrestricted, for Diesel Range Organics
Tote Storage Area	The DWMU asphalt slab and superstructure are Non-Hazardous Debris.	High Pressure Steam and Water Sprays	Exceeds MTCA Method A, Unrestricted, for Diesel Range Organics and PCBs
Baghouse North	▪ The DWMU concrete slab is K061 Hazardous Debris. ▪ The DWMU superstructure and baghouse tunnel is Non-Hazardous Debris.	High Pressure Steam and Water Sprays, Physical Abrasion and Scrubbing	Exceeds MTCA Method A, Unrestricted, for Diesel Range Organics and Hexavalent Chromium
Baghouse South	▪ The DWMU concrete slab is Non-Hazardous Debris. ▪ The DWMU superstructure and baghouse tunnel is Non-Hazardous Debris.	High Pressure Steam and Water Sprays, Physical Abrasion and Scrubbing	Exceeds MTCA Method A, Unrestricted, for Diesel Range Organics
Baghouse Utility Trench	▪ The Baghouse Utility Trench is Non-Hazardous Debris	High Pressure Steam and Water Sprays, Physical Abrasion and Scrubbing	Contaminant levels are below MTCA Method A

Table 1: Summary of DWMUs Closure Status

3.0 WASTE DESIGNATION OF SUSPECT MATERIALS

The following sections discuss the waste designation of materials remaining on-site that were either previously designated as Dangerous Waste, suspected of being Dangerous Waste, or required designation for off-site disposal.

3.1 Melt Shop / Forge Shop Slag

Previous sampling and analysis of slag and sludge in the melt shop and forge shop indicated this material contained high levels of chromium and other metals. Based on total metals only, the slag was designated as characteristic for chromium Toxicity. In addition, some of the slag and sludge removed from the pits was designated as characteristic for chromium, lead, and cadmium however no TCLP analysis was conducted on the slag waste stream. The previous D007, D006, and D008 designation was assumed based on total metals analysis.

On 28 May 2020, DH Environmental conducted additional sampling to thoroughly designate the remaining slag and solids in three different pits including the "AOD Pit", "AFD Pit", and the "HE Pit". These locations are shown in Figure 6. Representative samples were collected from each pit and initially analyzed for VOCs by EPA 8260C, PAHs by EPA 8270D, PCBs by EPA 8082, and Total RCRA 8 Metals + Copper, Nickel, and Zinc as well as TCLP for RCRA 8 metals.

The slag exhibited high total concentrations of chromium, copper, and nickel consistent with previous total metals analysis. However, despite the high total concentrations, all samples "passed" the TCLP for RCRA 8 metals. In addition, the total analysis of volatiles by EPA 8260C and PAHs by EPA 8270D did not indicate the slag should designate as characteristic for any TCLP volatile or semi-volatile compounds.

Analysis has identified low level trace constituents listed in 40 CFR 261.31 (and WAC 173-303-9904), Wastes from Non-Specific Sources. For example, acetone was detected in the "AFP Pit" at a concentration of 0.0091 mg/kg as well as benzene at 0.0059 mg/kg. However, the original processes generating any of the trace constituents in question are unknown and therefore RCRA F Series is not applicable. This designation is consistent with USEPA interpretation of unknown F-Listed trace constituents:

Where a facility owner/operator makes a good faith effort to determine if a material is a listed hazardous waste but cannot make such a determination because documentation regarding a source of contamination, contaminant, or waste is unavailable or inconclusive, EPA has stated that one may assume the source, contaminant or waste is not listed hazardous waste.[3]

After it was determined that no characteristic or listed waste designations should apply to the slag, Toxic Equivalent Concentration calculations were conducted on each sample in accordance with WAC 173-303-100(5). Samples exhibiting the highest Equivalent Concentrations calculated from the total metals analysis from each pit were then sent to Rainier Environmental of Fife, WA for analysis by Ecology Method 80-12, Dangerous Waste Fish Bioassay. The samples submitted for the fish bioassay study represented a worst-case sample from all the samples collected.

[3] Management of Remediation Waste Under RCRA, EPA Publication 530-F-98-026

Subsequently, all of the samples submitted for Dangerous Waste Fish Bioassay testing resulted in zero mortality of the fish population exposed to the slag. The slag was then designated as Non-Dangerous Solid Waste. Attachment 4 is a waste designation package that serves as the designation record for the slag remaining in the Forge Shop and Melt Shop.

3.2 Concrete Stockpile

During the course of Clean Closure and equipment disposal activities, approximately 500 tons of concrete debris was generated to expose and repair underground piping that conveyed stormwater. The origin of the concrete was the "Heat Treat Area". The concrete pile was previously sampled by Sound Earth Strategies on 03 March 2020. DH Environmental conducted additional sampling on 01 May 2020 to confirm the designation with additional data, and to collect a representative sample for a Dangerous Waste Fish Bioassay. The pile varied from large pieces of broken concrete to small granular sized particles. In addition, some soil overburden was commingled and removed with the concrete as was necessary to remove the concrete from the work area.

After the concrete stockpile was determined not to be a characteristic or listed waste, a Washington State Toxic Criteria book designation was conducted in accordance with WAC 173-303-100(5)(b)) on the highest levels detected for RCRA 8 Metals plus copper, nickel, and zinc, along with PAH values. The book designation resulted in an equivalent concentration of 0.0052 which designates as Dangerous Waste, Toxic, WT02. This book designation was refuted by a follow-up fish bioassay in accordance with WAC 173-303-110(3)(b), Biological Testing Methods for the Designation of Dangerous Waste, Method 80-12. The fish bioassay resulted in zero fish mortality therefore the waste stream was designated as Non-Dangerous Solid Waste. The concrete pile was shipped off-site and disposed of at the Roosevelt Regional Landfill from 10 June 2020 – 12 June 2020. Attachment 5 is a waste designation package that serves as the designation record for the concrete stockpile.

3.3 Underground Storage Tank Liquids, Sand, and Fill Slag

On 21 April 2020, DH Environmental sampled ten partially buried underground storage tanks (USTs) located within two locations on the east side of the site near E Marginal Way South as shown in Figure 2, with detail shown in Figure 8. The individual USTs are partially buried below grade but are within above grade structures consisting of concrete walls with the space between the tanks filled primarily with slag. Based on a review of historical documents and interviews with individuals that worked at the facility when it was operational, the USTs serviced metal cutting oil, diesel fuel, and various fuel oils including bunker oil.

Out of a total of eighteen USTs, eight of the tanks were empty, three contained sand from previous closure efforts, six contained oily water, and one contained diesel fuel. For each of the tanks that contained media, all were sampled and analyzed for volatile organic compounds by EPA Method 8260C, semi-volatile analysis by 8270D, PCBs by EPA Method 8082A, total metals, and follow up TCLP if warranted. In addition, the slag that surrounds the tanks in the tank system was sampled and analyzed for the same analytes with follow-up analysis for TCLP arsenic and chromium along with a Dangerous Waste Fish Bioassay. Sample locations for the slag are shown on Figure 8.

Based on the analysis of the UST liquids, sand, and surrounding fill slag, all the media designated as Non-Dangerous Solid Waste. The UST liquids were removed and disposed of or recycled off-site at appropriately permitted facilities

during the week of 12 May 2020. The fill-slag remains on-site along with the empty USTs which are, as of the date of this report, in the process of being licensed and registered so that they may be closed in accordance with WAC 173-360A. A UST plan to close the USTs in place, as permitted by Ecology's UST rules, has been submitted to the UST program. The designation packages for the UST liquids, sand, and slag are included as Attachment 6.

3.4 Area Wide Statistical Sampling

The interior of the main structure comprising the former melt shop, forge shop, and the heat treat area is shown in Figure 2. Star Forge conducted extensive removal of dust, fine particles, and exposed soil (henceforth "area wide dust") from the floor, trusses, and other structural surfaces during 2019 to early 2020. The area wide dust has been referred to as process waste in previous documents and correspondence. This material is a mixture of dust, fine particulates, soil "track-in" and exposed soil that accumulated throughout the facility over many years of operation. The material is not a waste stream that was generated from any one process or unit operation.

Previous designation of this material is based on total metals, TCLP metals and total PCBs. This waste stream previously "passed" TCLP for RCRA 8 metals. However, the total metals content caused the area-wide dust to "book designate" as a Toxic Criteria Dangerous Waste and was assigned WA State Dangerous Waste number WT02. A fish bioassay was not conducted to refute the book designation. Therefore, the WT02 designation was assumed and approximately 2,500,000 lbs. of the area wide dust were removed and disposed of as WA State Toxic Criteria WT02 waste during 2019 and early 2020.

Although most of the area wide dust has been removed from inside the buildings, some of this material remains on the floor of the facility and has possibly comingled with areas of exposed soil. Therefore, an area wide statistical analysis of the dust, fine particles, and exposed soil was conducted to designate the remaining material so that it can be properly managed during the forthcoming demolition of the structures.

The statistical evaluation of the area wide dust was conducted using Visual Sample Plan (VSP); a statistical software package developed by the Pacific Northwest National Laboratory. VSP integrates data quality objectives into a defensible sampling design and conducts the required calculations for sample size and sample location. The required sample size estimated by VSP is based on several variables including the constituent estimated concentration standard deviation, regulatory threshold, and desired confidence level.

The sample design for the area wide sampling incorporated 22 sample locations chosen randomly on a grid generated by VSP. The sampling locations are shown on Figure 9. All samples were analyzed for Volatiles by EPA Method 8260C, PCBs by EPA Method 8082A, Total RCRA Metals + Copper, Nickel, and Zinc, and TCLP RCRA 8 metals.

Based on the statistical analysis, the mean TCLP concentration of all RCRA 8 metals was below the respective thresholds for the toxicity characteristic. In addition, the mean PCB concentration of the area wide dust was shown to be 0.83 mg/kg. Analysis did identify low level trace VOCs listed in 40 CFR 261.31 (and WAC 173-303-9904), Wastes from Non-Specific Sources. The concentration of VOCs did not approach TCLP volatiles characteristic levels and none of the original processes generating any of the trace constituents in question are known therefore RCRA F Series is not applicable.

After the laboratory results were received, a Washington State Toxic Criteria book designation calculation was performed for each of the 22 samples taken throughout the facility. All samples had an Equivalent Concentration (EC) between 0.001% and 1.0%, resulting in a book designation of Washington State Toxic Criteria WT02. This book designation was refuted by a follow-up fish bioassay in accordance with WAC 173-303-110(3)(b). The two area wide samples with the highest EC calculations were selected for fish bioassay analysis. Both fish bioassays resulted in zero fish mortality and therefore the WT02 designation was refuted.

Based on the statistical analysis of total metals, TCLP metals, PCBs and VOCs, the area wide dust has been designed as Non-Dangerous Solid Waste. Further details about the sampling plan design are included in the SAP. In addition, the designation package for the area wide dust is included in Attachment 7. This designation is meant to apply to dust, fine particles, and above ground exposed soil remaining in the forge Shop, melt shop, and heat treat shop areas in the main facility structure. During the course of demolition and site stabilization, this media may need to be removed and disposed of off-site for several reasons including stormwater pollutant source control, dust control, and surface preparation for asphalt application to stabilize areas of exposed soil. This designation is not meant to apply to any subsurface environmental media.

4.0 SUMMARY AND RECOMMENDATIONS

Star Forge has conducted the required Clean Closure activities that can be accomplished under Washington's Dangerous Waste regulations with the structures still intact, and without interfering with the work being undertaken by EMJ. The concrete and asphalt slabs associated with the DWMU's, along with the soil and groundwater under the DWMUs, may require remediation following the completion of the Cleanup Action Plan for the Site.

Central Accumulation Area

The Central Accumulation Area concrete slab has been designated as Non-Hazardous Debris. The concrete slab does exceed MTCA Method A cleanup levels for diesel range organics. We recommend the slab should be either removed or scarified to meet site-wide cleanup levels once they have been established, after the superstructure has been demolished, and the CAP has been finalized. Further, we recommend additional investigation of the environmental media under the slab to ensure compliance with WAC 173-303-610(2) and (5). The slab should be protected during demolition to avoid cross contamination or further contamination of environmental media.

Tote Storage Area

The Tote Storage Area concrete slab has been designated as Non-Hazardous Debris. The concrete slab does exceed MTCA Method A cleanup levels for diesel range organics and PCBs. We recommend the slab should be either removed or scarified to meet site-wide cleanup levels once they have been established, after the superstructure has been demolished, and the CAP has been finalized. Further, we recommend additional investigation of the environmental media under the slab to ensure compliance with WAC 173-303-610(2) and (5). The slab should be protected during demolition to avoid cross contamination or further contamination of environmental media.

Baghouse

The Baghouse concrete slab has been designated as Hazardous Debris for K061 Listing. The concrete slab also exceeds MTCA Method A cleanup levels for diesel range hydrocarbons and hexavalent chromium. We recommend the slab should be either removed or scarified to meet site-wide cleanup levels once they have been established, after the superstructure has been demolished, and the CAP has been finalized. Further, we recommend additional investigation of the environmental media under the slab to ensure compliance with WAC 173-303-610(2) and (5). The slab should be protected during demolition to avoid cross contamination or further contamination of environmental media. The baghouse tunnel and all baghouse equipment should also be visually inspected once they have been brought to ground level so they can be safely and more thoroughly evaluated prior to off-site disposal or recycling.

Melt Shop / Forge Shop Slag

The slag remaining in the melt shop / forge shop has been designated as Non-Dangerous Solid Waste and is not subject to Clean Closure or the Dangerous Waste regulations. The slag does not present an impediment to demolition. However, the slag does contain high concentrations of heavy metals and should be targeted for evaluation under the RI/FS.

Concrete Stockpile

The concrete stockpile was designated as Non-Dangerous Solid Waste and was shipped off-site and disposed of at the Roosevelt Regional Landfill from 10 June 2020 – 12 June 2020. No further action is required for this waste stream other than to maintain designation records for five years in accordance with WAC 173-303-210.

Underground Storage Tank Liquids, Sand, and Fill Slag

All media associated with the USTs was designated as Non-Dangerous Solid Waste. The liquids in the USTs were disposed of off-site on during the week of 12 May 2020. The fill-slag remains on-site along with the empty USTs which are, as of the date of this report, in the process of being licensed and registered so that they may be closed in accordance with WAC 173-360A. The fill-slag does not present an impediment to demolition of the larger structures at the facility. However, the slag does contain high concentrations of heavy metals. Further study of the UST area has been targeted by EMJ for evaluation as part of the RI/FS.

Area Wide Dust

The area wide dust has been designated as Non-Dangerous Solid Waste. During the course of demolition and site stabilization, this media may need to be removed and disposed of off-site for several reasons including stormwater pollutant source control, dust control, and surface preparation for asphalt application to stabilize areas of exposed soil. Drums and/or solid waste containers should be available to contain the area wide dust before, during, and after demolition. The area wide dust may be removed through sweeping, vacuum truck, or by heavy equipment if necessary. The designation of the area wide dust does not apply to any subsurface environmental media.

TABLE -2

Star Forge, LLC

Hazardous Waste Shipments of from Site Closure Operations

November 2018 to Present

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code
CH1721830-1	PPE from decontamination of facility	11/8/2018	75	12885240FLE	D007	NA
CH1721784-1	Sludge from decontamination of facility	11/8/2018	1200	12885239FLE	D007	NA
CH1735588	Aquasol 20 20	1/11/2019	356	012885528FLE	D002	NA
CH1742114	CH2O Boiler Treatment - 6267	1/11/2019	293	012885527FLE	D002	NA
CH1750992	Consolidated Aerosol Liquids	1/11/2019	139	012885528FLE	D001, D035	NA
1282936-1	Contaminated Grease	1/11/2019	235	012885527FLE	NONE	WT02
CH1735567	Coolacide - Loosepack	1/11/2019	110	012885528FLE	NONE	WP02, WT02
CH1729496	Eliminator 103 - Loosepack	1/11/2019	25	012885528FLE	NONE	WT02
1282936-1	Contaminated Grease	1/17/2019	167	011776126FLE	NONE	WT02
CH1786528	Consolidated Acids	2/18/2019	132	012884952FLE	D002	NA
CH1786533	Flammable acids	2/18/2019	135	012884952FLE	D001, D002	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	2/18/2019	30	012884952FLE	D002	WT02
LCCRA	Labpack Acid & Acid Compatibles For Incineration	2/18/2019	22	012884952FLE	D001, D002	WT02
LCCRA	Labpack Acid & Acid Compatibles For Incineration	2/18/2019	6	012884952FLE	D002	WT02
LCCRB	Labpack Basic & Basic Compatibles For Incineration	2/18/2019	60	012884952FLE	D002	WT02
LCCRC	Labpack Organics For Incineration	2/18/2019	37	012884952FLE	NONE	WT02
LCCRO	Labpack Oxidizers For Incineration	2/18/2019	7	012884952FLE	D001, D003	WT02
ES1785848	Pit Cleaning Sludge	2/18/2019	8457	012886241FLE	D004,D007,D008	NA
ES1785845	Pit Cleaning Sludge	2/18/2019	2788	012886241FLE	D006,D007,D008	NA
ES1785848	Pit Cleaning Sludge	3/15/2019	8418	012886248FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	3/15/2019	10841	012886264FLE	D004,D007,D008	NA
ES1795989	Ring Mill Coolant - Antifreeze	3/22/2019	9988	012886287FLE	NONE	WT02
ES1785848	Pit Cleaning Sludge	5/3/2019	9851	012886309FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	5/3/2019	2865	012886328FLE	D004,D007,D008	NA
OR329284	Pit Cleaning Sludge	5/8/2019	8500	011968468FLE	D004,D007,D008	NA
OR329284	Pit Cleaning Sludge	5/17/2019	12780	011961581FLE	D004,D007,D008	NA
OR329284	Pit Cleaning Sludge	5/17/2019	3060	011961582FLE	D004,D007,D008	NA
OR340979	Vault Sludge	5/20/2019	10000	012886361FLE	NONE	WP02, WT02
OR329284	Pit Cleaning Sludge	5/23/2019	16160	011961597FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	5/31/2019	17976	012886371FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	6/3/2019	7719	012886372FLE	D004,D007,D008	NA
ES1795989	Ring Mill Coolant - Antifreeze	6/12/2019	1260	012886377FLE	NONE	WT02
OR340979	Vault Sludge	6/25/2019	10960	012886384FLE	NONE	WP02, WT02
OR340979	Vault Sludge	6/25/2019	1080	012886385FLE	NONE	WP02, WT02
OR340979	Vault Sludge	6/26/2019	39660	011968520FLE	NONE	WP02, WT02
OR340979	Vault Sludge	6/26/2019	33580	011968521FLE	NONE	WP02, WT02
OR340979	Vault Sludge	7/10/2019	53120	020246762JJK	NONE	WP02, WT02
1877983	Echogel - Unused	8/2/2019	554	011968578FLE	NONE	WT02
1883817	Echogel - Used	8/2/2019	2946	011968578FLE	NONE	WT02
ES1785848	Pit Cleaning Sludge	8/6/2019	12786	012886399FLE	D004,D007,D008	NA
OR329284	Pit Cleaning Sludge	9/12/2019	15820	011961788FLE	D004,D007,D008	NA
LCCRA	Labpack Acid & Acid Compatibles For Incineration	10/11/2019	252	013867363FLE	D001, D002	NA
LCCRB	Labpack Basic & Basic Compatibles For Incineration	10/11/2019	200	013867363FLE	D002	NA
OR343220	Oil Tank Cleaning Sludge	11/6/2019	19160	012886418FLE	NONE	WT02
49312	Area-wide Dust	11/18/2019	63320	012886445FLE	NA	WT02
49312	Area-wide Dust	11/19/2019	64780	012886444FLE	NA	WT02
49312	Area-wide Dust	11/21/2019	63020	012886471FLE	NA	WT02
49312	Area-wide Dust	11/21/2019	63000	012886472FLE	NA	WT02
49312	Area-wide Dust	11/25/2019	61380	012886473FLE	NA	WT02
49312	Area-wide Dust	11/25/2019	64320	012886474FLE	NA	WT02
49312	Area-wide Dust	12/3/2019	62000	012886475FLE	NA	WT02
49312	Area-wide Dust	12/3/2019	64000	012886476FLE	NA	WT02

TABLE -2

Star Forge, LLC

Hazardous Waste Shipments of from Site Closure Operations

November 2018 to Present

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code
49312	Area-wide Dust	12/5/2019	62000	012886477FLE	NA	WT02
49312	Area-wide Dust	12/5/2019	64000	012886478FLE	NA	WT02
49312	Area-wide Dust	12/9/2019	62000	012886479FLE	NA	WT02
49312	Area-wide Dust	12/9/2019	62000	012886480FLE	NA	WT02
49312	Area-wide Dust	12/9/2019	64000	012886481FLE	NA	WT02
49312	Area-wide Dust	12/10/2019	62000	012886482FLE	NA	WT02
49312	Area-wide Dust	12/11/2019	62000	012886483FLE	NA	WT02
49312	Area-wide Dust	12/11/2019	62000	012886484FLE	NA	WT02
49312	Area-wide Dust	12/11/2019	64000	012886485FLE	NA	WT02
49312	Area-wide Dust	12/12/2019	62000	012886486FLE	NA	WT02
49312	Area-wide Dust	12/13/2019	63020	012886487FLE	NA	WT02
49312	Area-wide Dust	12/13/2019	64000	012886488FLE	NA	WT02
49312	Area-wide Dust	12/15/2019	62000	012886491FLE	NA	WT02
49312	Area-wide Dust	12/16/2019	64000	012886489FLE	NA	WT02
49312	Area-wide Dust	12/16/2019	62000	012886490FLE	NA	WT02
49312	Area-wide Dust	12/17/2019	64000	012886492FLE	NA	WT02
49312	Area-wide Dust	12/18/2019	63000	012886493FLE	NA	WT02
49312	Area-wide Dust	12/18/2019	62000	012886494FLE	NA	WT02
49312	Area-wide Dust	12/19/2019	62000	012886495FLE	NA	WT02
49312	Area-wide Dust	12/19/2019	64000	012886509FLE	NA	WT02
49312	Area-wide Dust	12/20/2019	64000	012886500FLE	NA	WT02
49312	Area-wide Dust	12/20/2019	62000	012886501FLE	NA	WT02
49312	Area-wide Dust	12/20/2019	62000	012886502FLE	NA	WT02
49312	Area-wide Dust	1/8/2020	62740	012886503FLE	NA	WT02
49312	Area-wide Dust	1/30/2020	60560	012886504FLE	NA	WT02
49312	Area-wide Dust	2/10/2020	61460	012886505FLE	NA	WT02
49312	Area-wide Dust	2/10/2020	61100	012886506FLE	NA	WT02
OR344535	Baghouse Dust	2/10/2020	19760	014224090FLE	K061	NA
OR343941	AOD pit Solids	2/11/2020	34260	014224089FLE	D007	NA
OR343941	AOD pit Solids	2/11/2020	21660	014224091FLE	D007	NA
49312	Area-wide Dust	2/12/2020	62780	012886507FLE	NA	WT02
49312	Area-wide Dust	2/13/2020	62220	012886508FLE	NA	WT02
OR344529	Baghouse Dust/Debris	2/17/2020	4440	013537409FLE	K061	NA
OR344529	Baghouse Dust/Debris	2/17/2020	3880	013537410FLE	K061	NA
OR344529	Baghouse Dust/Debris	2/17/2020	2840	013537411FLE	K061	NA
OR344535	Baghouse Dust	2/25/2020	20620	013537408FLE	K061	NA
49312	Area-wide Dust	2/27/2020	63500	012886511FLE	NA	WT02
OR344529	Baghouse Dust/Debris	3/12/2020	4220	013537460FLE	K061	NA
OR344341	Stormwater Treatment Tank Sludge	3/19/2020	48900	012886530FLE	D007, D008	NA
49312	Area-wide Dust	3/31/2020	20700	012886541FLE	NA	WT02
49312	Area-wide Dust	3/31/2020	27020	012886544FLE	NA	WT02
49312	Area-wide Dust	3/31/2020	16600	012886545FLE	NA	WT02
49312	Area-wide Dust	3/31/2020	20860	012886546FLE	NA	WT02
49312	Area-wide Dust	3/31/2020	21480	012886551FLE	NA	WT02
CH1997101	Paint chips/Dust/Sandblast media	4/1/2020	180	014582446FLE	D005, D006, D007, D008	NA
ES1785848	Pit Cleaning Sludge	4/1/2020	400	014582446FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	4/1/2020	400	014582446FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	4/1/2020	400	014582446FLE	D004,D007,D008	NA
CH1997777	Safety Klean Cleaning Solvent	4/1/2020	190	014582447FLE	D001, D039	NA
CH1997727	Salt Rock	4/1/2020	400	014582446FLE	D004, D005, D006, D007, D008, D010	NA

TABLE -2

Star Forge, LLC

Hazardous Waste Shipments of from Site Closure Operations

November 2018 to Present

Profile #	Waste Description	Shipment Date	Shipment Weight (lbs)	Manifest #	Hazardous Waste Code	Dangerous Waste Code
CH1997099	Oil Based Paint	4/2/2020	120	014582452FLE	D001, D005, D006, D007, D008, D011, D035	NA
ES1785848	Pit Cleaning Sludge	4/2/2020	600	014582453FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	4/2/2020	600	014582453FLE	D004,D007,D008	NA
ES1785848	Pit Cleaning Sludge	4/2/2020	600	014582453FLE	D004,D007,D008	NA
49312	Area-wide Dust	4/20/2020	11580	012886243FLE	NA	WT02
OR344535	Baghouse Dust	4/28/2020	31660	008281988FLE	K061	NA
OR344535	Baghouse Dust	4/28/2020	31500	008281990FLE	K061	NA
CH2030655	Filter Cleaning Wash Water contaminated with Baghouse Dust	6/18/2020	8650	014587860FLE	K061, D007	NA
CH344529	Baghouse Dust/Debris	6/18/2020	700	014587861FLE	K061	NA
OR345145	Baghouse Decon Water	6/29/2020	375	020121293JJK	K061	NA
OR345146	Baghouse Dust	6/29/2020	5000	020121293JJK	K061	NA
OR345148	Baghouse Debris	6/29/2020	600	020121293JJK	K061	NA

Table 3
DWMUs Sample Location Data Summary
(All units Mg/Kg)
Clean Closure Report
Star Forge, IIC
Tukwila, Washington

	Central Accumulation Area DWMU				Baghouse DWMU													Tote Storage Area DWMU			
Sample ID	CAA-NW-WC	CAA-NE-WC	CAA-SW-WC	CAA-SE-WC	BH-N-SW	BH-N-NW	BH-N-SE	BH-N-NE	BH-S-SE	BH-S-SW	BH-S-M-E	BH-S-M-W	BH-S-NE	BH-S-NW	BH-NE-Trench-WC-01	BH-SE-Trench-WC-02	BH-SE-Trench-WC-03	TS-SW-WC	TS-NW-WC	TS-SE-WC	TS-NE-WC
Analyte																					
TOTAL METALS by 6010D/7471B																					
Arsenic	ND	ND	ND	ND	22	21	16	22	17	15	18	17	19	18	ND	ND	ND	ND	12	24	ND
Barium	230	250	260	210	47	48	62	67	54	47	64	47	48	46	34	72	67	58	74	86	76
Cadmium	ND	0.58	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	26	25	27	20	43	71	55	39	23	21	27	21	150	36	16	23	22	30	66	200	42
Copper	30	27	25	31	24	33	29	26	20	19	24	19	40	23	18	30	28	34	32	44	32
Lead	ND	ND	ND	ND	14	59	130	33	9.8	12	12	12	86	23	13	12	12	7.5	8.5	26	10
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	23	16	23	16	15	26	22	21	16	15	19	14	49	19	11	9.2	20	31	36	53	31
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	69	72	64	52	63	130	220	110	57	64	62	55	200	79	40	64	54	38	85	63	51
Hexavalent Chromium	NS	NS	NS	NS	23	1.6	5.2	1.4	ND	ND	1.1	ND	ND	ND	ND	ND	ND	NS	NS	NS	NS
TCLP METALS by 1311/6010D/7470A																					
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.77	0.76	0.79	0.79	0.21		0.22	0.20	ND	ND	0.22	ND	0.26	0.25	0.37	0.39	0.34	0.65	0.29	0.57	0.63
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.12	0.094	0.11	0.087	0.86	0.16	0.49	0.12	0.078	0.077	0.10	0.11	0.10	0.14	0.073	0.072	0.062	0.054	ND	0.12	0.054
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILES by EPA 8260C[1]																					
Acetone	0.26	0.041	ND	0.18	0.032	0.050	0.014	0.02	0.025	0.029	0.017	ND	0.020	0.02	0.023	0.013	ND	0.057	0.33	0.14	0.11
Carbon Disulfide	ND	ND	0.0049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0062	0.0046	0.0051
2-Butanone	0.044	ND	ND	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.081	0.037	0.028
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014	ND	ND	ND
Tetrachloroethene	ND	ND	0.0032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	0.0086	ND	0.011	0.0093	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	ND	ND
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025	ND	ND	ND
Total PCBs by EPA 8082A																					
Total PCB's	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	40	15.1	21.2	15.5
Total PAHs by EPA 8270D/SIM																					
Total PAH's	NA	NA	NA	0.765	NA	NA	0.008	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Petroleum Hydrocarbons																					
Gasoline Range	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND
Diesel Range	76	53	76	4700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND
Heavy Hydrocarbon Range	1300	950	860	2400	87	2900	ND	1200	220	ND	ND	ND	ND	ND	NA	NA	NA	20000	15000	16000	20000

Notes:
1. Complete 8260C Analysis was conducted. Analytes not listed were not detected at the PQL.
2. Values highlied in green exceed MTCA Method A Cleanup Levels

Abbreviations
ID = Identification
ND = Non-Detect at the PQL
NA = Not Analysed
PQL = Practical Quantitation Limit

Analytical Methods
Analysis by OnSite Environmental, Inc., see lab report # 2005-232, 2006-050, 2006-184, 2005-232B, 2006-050B, 2006-184B

Table 4
Area-wide Samples Equivalent Concentration
Calculations Summary
Star Forge, IIC
Clean Closure Report
Tukwila, Washington

Sample ID	Equivalent Concentration %[1]	Dangerous Waste Code Based on Book Designation	Fish Bioassay Result	Final Waste Designation
AW-16	0.0345528	WT02	Zero Mortality[2]	Non-Dangerous Waste
AW-8	0.0349020			
AW-1	0.0081201		Passed[3]	
AW-2	0.0074927			
AW-3	0.0245554			
AW-4	0.0063162			
AW-5	0.0214360			
AW-6	0.0126289			
AW-7	0.0067670			
AW-9	0.0205954			
AW-10	0.0286634			
AW-11	0.0151456			
AW-12	0.0128458			
AW-13	0.0157622			
AW-14	0.0060410			
AW-15	0.0272353			
AW-17	0.0289236			
AW-18	0.0291953			
AW-19	0.0227061			
AW-20	0.0179552			
AW-21	0.0062260			
AW-22	0.0203450			

Notes:

1. Equivalent Concentration Calculation as per WAC 173-303100
2. Fish Bioassay conducted per Ecology Publication 80-12.
3. For the purposes of refuting WA Toxic Criteria Book Designation, two area-wide samples (AW-8 and AW-16) with the highest E.C. values were selected for follow-up fish bioassay.

Abbreviations

ID = Identification
WAC = Washington State Administrative Code
AW = Areawide

Analytical Methods

Analysis by OnSite Environmental, Inc., see lab report # 2006-002, 2006-002B