

**Glennallen Fuel and Service
UST Closure and Site Assessment Report
Mile 186 Glenn Highway, Glennallen, Alaska
ADEC Facility ID 2292**



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ACRONYMS AND ABBREVIATIONS

| | |
|-------|---|
| ADEC | Alaska Department of Environmental Conservation |
| AK | Alaska Method |
| bgs | Below Ground Surface |
| DRO | Diesel range organics |
| EDB | 1,2-dibromoethane |
| EMI | Environmental Management, Inc. |
| FSG | ADEC Field Sample Guidance |
| GRO | Gasoline Range Organics |
| IDW | Investigative Derived waste |
| mg/kg | Milligrams per kilogram |
| µg/kg | Micrograms per kilogram |
| MTG | Migration to Groundwater Cleanup Level, 18 AAC 75 |
| PAH | Polynuclear Aromatic hydrocarbons |
| PID | photoionization detector |
| PPE | Personal Protective Equipment |
| ppmv | Parts per million by volume |
| SGS | SGS North America, Inc. |
| UST | Underground Storage Tank |
| VOC | Volatile organic compounds |

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1.0 INTRODUCTION

This report documents the site assessment and release investigation conducted by Environmental Management, Inc., (EMI) during and following the removal of one regulated underground storage tank (UST) from the Glennallen Fuel and Service gas station located at Mile 186 Glenn Highway, Glennallen, Alaska, 99588 (ADEC Facility ID: 2292). EMI performed the work described herein under contract with American Village of Alaska, Inc., the owner of the facility.

2.0 SITE DESCRIPTION AND BACKGROUND

Glennallen Fuel and Service is a gas station and auto mechanic shop. According to the Alaska Department of Environmental Conservation (ADEC) UST Database, the first registered UST at the site was installed in 1968, indicating the station has been in operation for at least 50 years. Over the years seven USTs have been installed at the site, two of which are currently in use (tanks 6 and 7), four have been previously removed in 1993 (tanks 1 – 4), and tank 5, which is the subject of this report.

Tank 5 was installed in 1991 and is a 10,000-gallon dual compartment UST that housed both gasoline and diesel. It was taken out of use, unofficially, sometime prior to 2013. In August 2013 a *Empty Tank Affidavit* was submitted to ADEC to put the tank in “tank out of service status”. On April 3, 2019, ADEC issued a letter stating the UST system had been determined to be substandard and was therefore required to be permanently closed via removal.

ADEC lists two leaking UST events on the UST Database; however, only limited information related to these events are available on the database. These events are ADEC File No. 240.26.001 which was given a “cleanup complete” determination on October 21, 1993, and ADEC File No. 23199 which was given “cleanup compete” status on September 4, 1992.

There is an active contaminated site on the property (ADEC File No. 240.38.017) which is the result of release from a heating oil UST in 2018. The location the release is approximately 100 feet southeast of Tank 5.

3.0 METHODOLOGY

Field activities were conducted in general accordance with UST Regulations (18 AAC 78, July 1, 2017), and the August 2017 *ADEC Field Sampling Guidance* (FSG). Further details on the field screening methods, soil sampling methods, and laboratory analysis are provided below.

3.1 Field Screening Methods

EMI conducted field screening during and following the decommissioning activities, including screening of the excavation base and piping in accordance with the *UST Procedures Manual*, and

FSG, as applicable. See Figure 2 for headspace sample locations. Headspace samples were collected by filling re-sealable quart size bags approximately 1/3 to 1/2 full with soil. The bags were then agitated before being allowed to develop for at least 10 minutes, but not longer than an hour. During this time the soils were warmed to a minimum temperature of 40°F. After the samples have been warmed and allowed to develop, the probe of the MiniRAE 3000 photoionization detector (PID) was inserted into the bag and the displayed reading was recorded in the field notes along with other pertinent information such as the time of collection and reading, and the location of the sample.

3.2 Soil Sampling Methods

Analytical samples were collected from the base, dispensers and piping at the frequencies required per 18 AAC 78 for an assessment of a closure by removal. Analytical samples from stockpiles were collected at the frequencies presented in Table 2B of the FSG. Additional samples were collected for the purpose of further characterizing suspect soils within the excavation, including one sidewall sample that was collected from near the southeast corner, and an analytical sample was also collected from the base of the 5-foot test pit which was excavated to look for the presence of groundwater (but not encountered). Analytical soil samples were collected using new, clean, disposable nitrile gloves and soils were placed directly into clean laboratory-provided containers. Volatile samples were collected first and preserved with 25-mL of methanol, per Alaska Method (AK 101). Six inches of soil were removed prior to sampling. When the excavator was used to collect soil for sampling from within the excavation, the sample was collected from soils away from the surface of the bucket, and six inches of soil were removed immediately prior to sampling to expose fresh soils.

3.3 Analytical Methods

The analytical samples were submitted to SGS North America, Inc. (SGS) of Anchorage, Alaska. All samples were analyzed for:

- gasoline range organics (GRO) by method AK 101,
- diesel range organics (DRO) by method AK 102
- volatile organic compounds (VOCs) by method EPA 8260C, and

In addition, 10% of samples were analyzed for:

- polynuclear aromatic hydrocarbons (PAH) by EPA 8270D SIMS and
- 1,2-dibromoethane (EDB) by EPA 8260C SIMS.

4.0 FIELD ACTIVITIES

Field activities were conducted on September 16 and 17, 2019. Weather at the time of the investigation consisted of mostly cloudy skies, with scattered light showers and ambient temperatures ranging from 45 to 55 ° Fahrenheit. Glenn Hasburgh, EMI operated as both the ADEC Certified UST Worker and ADEC Qualified Environmental Professional (QEP). J&L Enterprises, Inc. was contracted by the owner to provide the heavy equipment and operator. EMI subcontracted with SGS to provide the analytical services. Field notes documenting the field activities are provided in Appendix A.

4.1 Dispenser and Piping Removal

The pumphouses for the dispensers were removed sometime in past years, but the concrete island remained. Google Earth Street View from 2011 shows the dispensers to not be present at that time. When operational, gasoline and diesel had separate dispensers, as indicated by the remaining dispenser boxes on the island. The dispenser boxes were offset from the centerline of the tank, with one to the east and the other to the west. Immediately adjacent to the dispenser boxes (within 2 feet) were the vent lines. The lines ran into a common sump that housed the fill ports for both the gasoline and diesel. There were no pipe runs or trenches that extended beyond the limits of excavation.

Initial operations consisted of removing the concrete island on surrounding pad, which measured approximately 30 feet by 30 feet. During the concrete removal ambient PID readings were collected from the freshly exposed soils and they were inspected for odor. No PID deflections greater than one ppm or odor were noted, nor were any other indicators of contamination.

On September 17 the removal of the tank and appurtenances began. EMI took three headspace samples from beneath each of the dispensers to represent the dispensers and the vent line. These soils were also inspected for odor. No indications of contamination associated with the dispensers were noted. Analytical samples were then collected in accordance with the above referenced regulations.

4.2 Tank Removal

Once the samples from the dispenser area were collected excavation began to uncover the tank. Soils were regularly inspected and headspace were collected at a minimum frequency of one per 10 cubic yard (cy). When excavating in the area of the sump, on the west side of the sump near its interface with the tank, fuel odors and elevated PID readings were observed. Four headspace samples were collected from around the sump, roughly inline with the cardinal directions. Only the headspace from the west side of the sump had an elevated reading. An analytical sample was collected from this location (sample ID: Sump-1).

Excavation continued and suspect soils were transferred to short-term stockpile that was constructed using two layers of 6-mil reinforced polyethylene sheeting. The contamination initially was only present on the west side of the tank, and it appeared that the release from the sump followed the curvature of the tank. However, when excavating in the southeast corner fuel odor was once again observed, beginning approximately one foot below ground surface (bgs). The source of this second area of contamination is unknown since there were no appurtenances in the area.

Approximately 30-50 cy of impacted soil was removed and segregated and placed into presumed clean and presumed contaminated stockpiles.

The tank was then lifted from the ground secured with blocking to prevent rolling and labeled in accordance with American Petroleum Institute 1604. Following the tank removal, the excavation

measured 18 x 37 feet with a total excavation area of approximately 370 sq.ft.. The excavation was approximately 12 feet in depth from the ground surface at the deepest location.

4.3 Stockpile Characterization

Two stockpiles were generated during the course of the investigation; a presumed clean stockpile and a presumed contaminated stockpile. The presumed clean stockpile was initially placed immediately adjacent to the excavation, but was ultimately divided into two separate piles due to limited space. The presumed contaminated stockpile located on a lined area approximately 400 feet southwest from the excavation, near the Caribou Hotel which is owned by the same entity.

The portion of the presumed clean stockpile that was relocated was placed in the same general vicinity of the presumed contaminated. For the purpose of characterization, the divided presumed clean pile was field screened as if they were separate piles, but analytical sample frequencies were based on it being a single pile.

The presumed clean stockpile was estimated to contain 150 cubic yards and the presumed contaminated contained approximately 40 cubic yards. Analytical samples were also collected at the frequencies presented in the FSG. The presumed clean stockpile was field screened and sampled according to the FSG.

4.4 Excavation Characterization

The excavation was characterized by field screening the base of the excavation in accordance with the FSG and collecting analytical samples as required by 18 AAC 78 for closure by removal. The sidewalls were field screened by collecting 12 headspace samples from each the east and west sidewalls and nine from each the north and south sidewalls. One analytical sample was collected from each sidewall from the most elevated headspace. However all except one (sample ID: SSW-1) were placed on hold pending result of other samples. Analysis determined sample SSW-1 had contaminant concentrations in excess of MTG cleanup levels, therefore, the other sidewall samples were not analyzed since clean closure was no longer an option.

From the base of the excavation 14 headspace samples were collected and analyzed in accordance with the FSG. Based on the square footage of the excavation four analytical samples were collected per 18 AAC 78, plus a duplicate (EX-19 is a duplicate of EX-9).

4.5 Investigative Derived Waste

Investigative derived waste (IDW) generated during the field activities included disposable sampling equipment, and personal protective equipment (PPE). Both PPE and sampling equipment were generated in small quantities, and were disposed of as municipal solid waste. This included nitrile gloves, Ziploc bags, and empty methanol vials.

5.0 RESULTS

This section presents the field screening and analytical results associated with this site assessment. Field screening results are presented in Table 1 and analytical results are presented in Table 2. The SGS laboratory report and ADEC Laboratory Data Review Checklist are provided in Appendix C.

5.1 Field Screening Results

A total of 110 headspace samples were collected during the course of the site assessment. This sample set consisted of: three from beneath each of the two dispensers; four from around the sump; 12 from exhumed soils during the course of excavation; 23 from the presumed clean stockpile; seven from the presumed contaminated stockpile; 14 from the excavation base, 12 each from the east and west sidewalls; and nine each from the north and south sidewalls. Headspace results are presented in Table 1.

Of the headspace samples (10 total) collected to represent the dispenser area and the sump only one had an elevated result, with a value of 227 ppm (headspace ID: sump 1); the soils associated with the headspace also had a noticeable fuel odor. The other headspace were all less than 5 ppm with no detected odor.

Results for the headspace samples collected during the course of excavation ranged from 0.3 to 227 ppm (headspace ID: Excavation 7), which was collected from the west side of the tank, near the tanks midline and beneath the suspected release from the sump.

Two headspace from the base of the of the excavation had elevated headspace results, these results were 244 ppm (headspace ID; Base 1) and 338 ppm (headspace ID: Base 9). All other results were less than 15 ppm, with the majority being less than 2 ppm.

Headspace results from the south sidewall ranged from 4.2 to 888 ppm, with three samples having values greater than 200 ppm. These samples came from the same general area around the southeast corner of the excavation. The headspace values along the remainder of the south sidewall were all less than 10 ppm. The headspace results from the other sidewalls were also relatively low, with the highest being 11.7 (headspace ID: West Sidewall 9).

A total of 17 headspace were originally collected presumed clean stockpile. Of these four had elevated reading greater than 50 ppm and as a result the soils were removed and placed into the presumed contaminated stockpile. An additional six headspace were collected after these soils were removed. There results of these additional headspace were all below 15 ppm except one which had a result of 59.2 ppm (headspace ID: Stockpile 22).

The results of the headspace collected from presumed contaminated stockpile ranged from 37.1 to 261 ppm.

5.2 Analytical Results

A total of 16 analytical samples were analyzed for this project, including one duplicate (sample EX-19 is a duplicate of EX-9). A duplicate for EDB analysis was not collected. This sample set consisted of one sample from each of the two dispensers, one from the sump, four from the base of the excavation, one from the base of the test pit, one from the south sidewall, four from presumed clean stockpile, and two from the contaminated stockpile. Additional samples were collected from the other three sidewalls, but were put on hold and not analyzed since clean closure is not being pursued.

Each of the samples collected from beneath the dispenser had analytes that exceed ADEC Method Two cleanup level for migration to groundwater (MTG). Sample Gas-Disp-01 had DRO at a concentration of 2,930 mg/kg, which exceeds the 250 mg/kg MTG cleanup level. This samples also had naphthalene in excess of the cleanup level, with a concentration of .046 mg/kg (MTG cleanup level: 0.038 mg/kg). Sample Gas-Disp-02 had Tetrachloroethene (PCE) detected at a concentration of 0.356 mg/kg, which exceeds the 0.190 mg/kg MTG cleanup level. PCE was also detected in other project samples, but at concentrations below the cleanup level. The soils which represent these samples were removed during the excavation and placed into the contaminated stockpile.

Sample Sump-1 which was collected from the area where contamination was first identified detected DRO at a concentration of 5,000 mg/kg, exceeding the MTG cleanup level. Trimethylbenzene was also detected in excess of the cleanup level at a concentration of 0.820 mg/kg (MTG cleanup level: 0.66 mg/kg). These soils were removed during the course of excavation and placed into the presumed contaminated stockpile.

All samples from the base of the excavation had analyte detections below MTG cleanup levels.

The one sidewall sample that was analyzed (sample ID: SSW-1) had multiple analytes at concentrations in excess of their MTG cleanup levels. These include: DRO at 693 mg/kg (MTG cleanup level: 250 mg/kg); 1,2,4-trimethylbenzene at 5.57 mg/kg (MTG cleanup level: 0.66 mg/kg); ethylbenzene at 0.347 mg/kg (MTG cleanup level: 0.13 mg/kg); naphthalene at 0.388 mg/kg (MTG cleanup level: 0.38 mg/kg); and xylenes at 6.83 mg/kg (MTG cleanup level: 1.5 mg/kg). Other analytes in this sample were below their respective cleanup levels.

Samples from presumed the clean stockpile, which was used as backfill at the site, found all analytes to be below the MTG cleanup levels. Sample Con-ST-1, collected from the presumed contaminated stockpile had DRO at a concentration of 1,010 mg/kg, 1,2,3-trimethylbenzene at 0.763 mg/kg, and naphthalene at 0.088 mg/kg; each of these are in excess of MTG cleanup levels. It should also be noted that soils associated with sample Gas-Disp-02, which found tetrachloroethene in excess of the MTG, was placed into the contaminated stockpile. Tetrachloroethene was also detected in both samples collected from the contaminated stockpile, but at concentrations below the MTG cleanup level.

5.3 Data Validation

An ADEC Laboratory Data Review Checklist was completed for SGS Report 1193586. This check list is attached to the laboratory report in Appendix C.

Only minor QC failures were noted in the report. One was surrogate recovery failures in some of the field samples which were the result of matrix interference. This does not impact data usability since other analytes in the affected samples had detections in excess of the MTG cleanup level. The other discrepancy noted was failed recoveries in the matrix Spike (MS) and matrix spike duplicate (MSD). This does not have a significant impact on the accuracy of the data since

laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were also analyzed for the affected samples and analyses and were within control limits.

No other quality control failures that would impact data usability were noted.

6.0 DISCUSSION

Some of the contamination at the site is believed to be the result of a leak from a connection within the sump. Field screening and site observations suggest that release flowed down to the top of the tank and then flowed over the tank's curvature to the west, where it migrated deeper in the sandy soils. No impermeable soils or features such as permafrost that would act as a confining layer were encountered. Due to the sandy nature of the soils and the lack of confining layers there is the potential that the contamination has migrated to groundwater interface, where it would likely then form a smear zone and move laterally.

The contamination near the southeast corner of the excavation is of unknown origin, but has indications of being a surface release. The extent of this contamination is also unknown.

The presumed clean stockpile was confirmed as clean. These soils were used as backfill following excavation. The presumed contaminated stockpile was confirmed and contaminated and remains onsite pending the development and implementation of a treatment plan.

The tank was rinsed with water and the rinsate was transported to Anchorage, Alaska for disposal by NRC Alaska, LLC. The tank was sold to a private party on October 19, 2019. The disposal receipt for the rinsate and bill of sale are attached.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Soils with contaminant levels in excess of the ADEC MTG cleanup levels are present at the site. All analytes sampled were below the Human Health levels for the Under 40-Inch Zone. The vertical and lateral extent of the contamination is still unknown and it is also unknown if groundwater at the site has been impacted.

Based on data obtained during this site assessment and the unknown extent of contamination, additional site characterization to assess the extent and impact to groundwater is warranted.

The person who prepared this report meets the requirements of a Qualified Environmental Professional per 18 AAC 78.088(b). If you have any questions or wish to discuss this project further please do not hesitate to contact Glenn Hasburgh or the undersigned at (907) 272-9336.

Environmental Management, Inc.



Glenn Hasburgh
Environmental Scientist, QEP

Table 1 - Field Screening Results

| ID | Time Collected | Time Read | Depth (feet) | Result (ppm) | Notes | Sample ID |
|--|--------------------------------------|-----------|--------------|--------------|------------------------|-------------|
| Dispensers, Lines and Appurtenances | | | | | | |
| Disp-Diesel 1 | 7:41 | 7:58 | 2.50 | 3.1 | | Gas-Disp-01 |
| Disp-Diesel 2 | 7:42 | 7:59 | 2.5 | 3 | | |
| Disp-Diesel 3 | 7:43 | 7:59 | 2.5 | 2.7 | | |
| Disp-Gas 1 | 7:47 | 8:12 | 2.5 | 0 | | |
| Disp-Gas 2 | 7:48 | 8:12 | 2.5 | 1.5 | | Gas-Disp-02 |
| Disp-Gas 3 | 7:49 | 8:11 | 2.5 | 0.5 | | |
| Sump 1 | 9:35 | 10:13 | 5.0 | 227 | Strong Odor | Sump-1 |
| Sump 2 | 9:35 | 10:13 | 5.0 | 1.3 | | |
| Sump 3 | 9:36 | 10:14 | 4.5 | 0.7 | | |
| Sump 4 | 9:37 | 10:14 | 4.5 | 0.8 | | |
| General Excavation | | | | | | |
| Excavation 1 | 8:31 | 9:10 | NA | 0.3 | | |
| Excavation 2 | 8:40 | 9:10 | NA | 1 | | |
| Excavation 3 | 8:49 | 9:11 | NA | 0.8 | | |
| Excavation 4 | 8:55 | 9:11 | 3.0 | 10.2 | | |
| Excavation 5 | 9:19 | 9:30 | 2.5 | 7.1 | | |
| Excavation 6 | 9:25 | 9:50 | 4.0 | 155 | Near sump - segregated | |
| Excavation 7 | 10:06 | 10:16 | 7.0 | 227 | Near sump - segregated | |
| Excavation 8 | 10:40 | 10:57 | 8.0 | 61 | Near sump - segregated | |
| Excavation 9 | 11:00 | 11:50 | 8.0 | 1.2 | | |
| Excavation 10 | 11:00 | 11:50 | 6.0 | 2.4 | | |
| Excavation 11 | 11:20 | 11:51 | 8.0 | 5.3 | | |
| Excavation 12 | 11:30 | 11:51 | 8.0 | Void | | EX-12 |
| Excavation Characterization Samples | | | | | | |
| Base 1 | Collected and Analyzed within 1 hour | | 8.0 | 244 | | EX-1 |
| Base 2 | Collected and Analyzed within 1 hour | | 14.0 | 1.2 | | |
| Base 3 | Collected and Analyzed within 1 hour | | 8.0 | 1.6 | | |
| Base 4 | Collected and Analyzed within 1 hour | | 8.0 | 3.2 | | |
| Base 5 | Collected and Analyzed within 1 hour | | 14.0 | 1.4 | | |
| Base 6 | Collected and Analyzed within 1 hour | | 8.0 | 1.8 | | |
| Base 7 | Collected and Analyzed within 1 hour | | 8.0 | 2.1 | | |
| Base 8 | Collected and Analyzed within 1 hour | | 14.0 | 2.1 | | |

Table 1 - Field Screening Results

| ID | Time Collected | Time Read | Depth (feet) | Result (ppm) | Notes | Sample ID |
|------------------|--------------------------------------|-----------|--------------|--------------|-------|-----------------|
| Base 9 | Collected and Analyzed within 1 hour | | 8.0 | 338 | | Ex-9: Dup EX-19 |
| Base 10 | Collected and Analyzed within 1 hour | | 8.0 | 4.5 | | |
| Base 11 | Collected and Analyzed within 1 hour | | 14.0 | 2.6 | | |
| Base 12 | Collected and Analyzed within 1 hour | | 8.0 | 11.8 | | EX-12 |
| Base 13 | Collected and Analyzed within 1 hour | | 8.0 | 1.7 | | |
| Base 14 | Collected and Analyzed within 1 hour | | 14.0 | 2.1 | | EX-14 |
| West Sidewall 1 | Collected and Analyzed within 1 hour | | 1.5 | 0.7 | | |
| West Sidewall 2 | Collected and Analyzed within 1 hour | | 5.0 | 1.4 | | |
| West Sidewall 3 | Collected and Analyzed within 1 hour | | 8.0 | 1.2 | | |
| West Sidewall 4 | Collected and Analyzed within 1 hour | | 1.5 | 1.9 | | |
| West Sidewall 5 | Collected and Analyzed within 1 hour | | 5.0 | 1.6 | | |
| West Sidewall 6 | Collected and Analyzed within 1 hour | | 8.0 | 1.9 | | |
| West Sidewall 7 | Collected and Analyzed within 1 hour | | 1.5 | 1.7 | | |
| West Sidewall 8 | Collected and Analyzed within 1 hour | | 5.0 | 1.5 | | |
| West Sidewall 9 | Collected and Analyzed within 1 hour | | 8.0 | 11.7 | | |
| West Sidewall 10 | Collected and Analyzed within 1 hour | | 1.5 | 1.2 | | |
| West Sidewall 11 | Collected and Analyzed within 1 hour | | 5 | 1 | | |
| West Sidewall 12 | Collected and Analyzed within 1 hour | | 8 | 1.2 | | |
| North Sidewall 1 | Collected and Analyzed within 1 hour | | 1.5 | 1.1 | | |
| North Sidewall 2 | Collected and Analyzed within 1 hour | | 5 | 1.6 | | |
| North Sidewall 3 | Collected and Analyzed within 1 hour | | 8 | 1.2 | | |
| North Sidewall 4 | Collected and Analyzed within 1 hour | | 1.5 | 1.4 | | |
| North Sidewall 5 | Collected and Analyzed within 1 hour | | 5 | 1.3 | | |
| North Sidewall 6 | Collected and Analyzed within 1 hour | | 8 | 7.4 | | |
| North Sidewall 7 | Collected and Analyzed within 1 hour | | 1.5 | 1.7 | | |
| North Sidewall 8 | Collected and Analyzed within 1 hour | | 5 | 1.2 | | |
| North Sidewall 9 | Collected and Analyzed within 1 hour | | 8 | 1.8 | | |
| South Sidewall 1 | Collected and Analyzed within 1 hour | | 1.5 | 888 | | SSW-1 |
| South Sidewall 2 | Collected and Analyzed within 1 hour | | 5 | 350 | | |
| South Sidewall 3 | Collected and Analyzed within 1 hour | | 8 | 237 | | |
| South Sidewall 4 | Collected and Analyzed within 1 hour | | 1.5 | 6.4 | | |
| South Sidewall 5 | Collected and Analyzed within 1 hour | | 5 | 2.4 | | |
| South Sidewall 6 | Collected and Analyzed within 1 hour | | 8 | 4.2 | | |

Table 1 - Field Screening Results

| ID | Time Collected | Time Read | Depth (feet) | Result (ppm) | Notes | Sample ID |
|-----------------------------------|--------------------------------------|-----------|--------------|--------------|----------------------------|---------------|
| South Sidewall 7 | Collected and Analyzed within 1 hour | | 1.5 | 6 | | |
| South Sidewall 8 | Collected and Analyzed within 1 hour | | 5 | 3 | | |
| South Sidewall 9 | Collected and Analyzed within 1 hour | | 8 | 7 | | |
| East Sidewall 1 | Collected and Analyzed within 1 hour | | 1.5 | 4.1 | | |
| East Sidewall 2 | Collected and Analyzed within 1 hour | | 5 | 2.2 | | |
| East Sidewall 3 | Collected and Analyzed within 1 hour | | 8 | 74 | | |
| East Sidewall 4 | Collected and Analyzed within 1 hour | | 1.5 | 7.4 | | |
| East Sidewall 5 | Collected and Analyzed within 1 hour | | 5 | 5.7 | | |
| East Sidewall 6 | Collected and Analyzed within 1 hour | | 8 | 3.3 | | |
| East Sidewall 7 | Collected and Analyzed within 1 hour | | 1.5 | 5.7 | | |
| East Sidewall 8 | Collected and Analyzed within 1 hour | | 5 | 3.5 | | |
| East Sidewall 9 | Collected and Analyzed within 1 hour | | 8 | 3.5 | | |
| East Sidewall 10 | Collected and Analyzed within 1 hour | | 1.5 | 4.2 | | |
| East Sidewall 11 | Collected and Analyzed within 1 hour | | 5 | 1.4 | | |
| East Sidewall 12 | Collected and Analyzed within 1 hour | | 8 | 2.4 | | |
| Test Pit 1 | Collected and Analyzed within 1 hour | | 20 | 1.5 | Transition to native soils | |
| Test Pit 2 | Collected and Analyzed within 1 hour | | 27 | 58.5 | Base of test pit | Base-Test Pit |
| Stockpile Characterization | | | | | | |
| Stockpile 1 | Collected and Analyzed within 1 hour | | 1.5 | Void | | |
| Stockpile 2 | Collected and Analyzed within 1 hour | | 1.5 | 2.8 | | |
| Stockpile 3 | Collected and Analyzed within 1 hour | | 1.5 | 3.3 | | |
| Stockpile 4 | Collected and Analyzed within 1 hour | | 1.5 | 71.9 | Moved to Cont. Stockpile | |
| Stockpile 5 | Collected and Analyzed within 1 hour | | 1.5 | 18.9 | | ST-1-5 |
| Stockpile 6 | Collected and Analyzed within 1 hour | | 1.5 | 2.5 | | |
| Stockpile 7 | Collected and Analyzed within 1 hour | | 1.5 | 2.6 | | |
| Stockpile 8 | Collected and Analyzed within 1 hour | | 1.5 | 20.2 | | ST-1-7 |
| Stockpile 9 | Collected and Analyzed within 1 hour | | 1.5 | 14.9 | | |
| Stockpile 10 | Collected and Analyzed within 1 hour | | 1.5 | 6.9 | | |
| Stockpile 11 | Collected and Analyzed within 1 hour | | 1.5 | 117 | Moved on Cont. Stockpile | |
| Stockpile 12 | Collected and Analyzed within 1 hour | | 1.5 | 84.2 | Moved on Cont. Stockpile | |
| Stockpile 13 | Collected and Analyzed within 1 hour | | 1.5 | 59.9 | Moved on Cont. Stockpile | |
| Stockpile 14 | Collected and Analyzed within 1 hour | | 1.5 | 59.7 | Moved on Cont. Stockpile | |
| Stockpile 15 | Collected and Analyzed within 1 hour | | 1.5 | 5.6 | | |

Table 1 - Field Screening Results

| ID | Time Collected | Time Read | Depth (feet) | Result (ppm) | Notes | Sample ID |
|--------------------------|--------------------------------------|-----------|--------------|--------------|--------------------|-----------|
| Stockpile 16 | Collected and Analyzed within 1 hour | | 1.5 | 15.7 | | ST-1-16 |
| Stockpile 17 | Collected and Analyzed within 1 hour | | 1.5 | 9.3 | | |
| Stockpile 18 | Collected and Analyzed within 1 hour | | 1.5 | 0.5 | After soil removal | |
| Stockpile 19 | Collected and Analyzed within 1 hour | | 1.5 | 0.7 | After soil removal | |
| Stockpile 20 | Collected and Analyzed within 1 hour | | 1.5 | 0.4 | After soil removal | |
| Stockpile 21 | Collected and Analyzed within 1 hour | | 1.5 | 11.7 | After soil removal | |
| Stockpile 22 | Collected and Analyzed within 1 hour | | 1.5 | 59.2 | After soil removal | ST-1-22 |
| Stockpile 23 | Collected and Analyzed within 1 hour | | 1.5 | 12.5 | After soil removal | |
| Contaminated Stockpile 1 | Collected and Analyzed within 1 hour | | 1.5 | 261 | | Con-St-1 |
| Contaminated Stockpile 2 | Collected and Analyzed within 1 hour | | 1.5 | 37.1 | | |
| Contaminated Stockpile 3 | Collected and Analyzed within 1 hour | | 1.5 | 126 | | |
| Contaminated Stockpile 4 | Collected and Analyzed within 1 hour | | 1.5 | 49.1 | | |
| Contaminated Stockpile 5 | Collected and Analyzed within 1 hour | | 1.5 | 55.5 | | |
| Contaminated Stockpile 6 | Collected and Analyzed within 1 hour | | 1.5 | 76 | | |
| Contaminated Stockpile 7 | Collected and Analyzed within 1 hour | | 1.5 | 203 | | Con-ST-7 |

Table 2a - Tank and Excavation Analytical Results

| | | | EMI Sample Id: | Gas-Disp-02 | Gas-Disp-01 | Sump-1 | EX-1 | EX-9 | EX-19 | EX-12 | EX-14 | SSW-1 | Base-Test Pit | Trip Blank |
|------------|-----------------------------|-------|----------------|-------------|-------------|--------|---------|---------|---------|---------|---------|--------|---------------|------------|
| Analysis | Analyte | Unit | Cleanup Level | | | | | | | | | | | |
| AK101 | Gasoline Range Organics | mg/Kg | 300 | 1.83 U | 2.29 U | 28.5 | 2.15 U | 1.61 U | 1.70 U | 1.89 U | 1.54 U | 51.3 | | 2.51 U |
| AK102 | Diesel Range Organics | mg/Kg | 250 | 91.9 | 2930 | 5000 | 33.3 | 91.3 | 63.6 | 48.9 | 31.6 | 693 | 75.2 | |
| SM21 2540G | Total Solids | % | | 92.5 | 89.8 | 96.9 | 90.5 | 94.3 | 94.9 | 95.0 | 97.5 | 93.0 | 94.3 | |
| SW6020A | Lead | mg/Kg | | 21.8 | 14.2 | 1.46 | 33.7 | 11.2 | 10.9 | 5.61 | 1.51 | 31.0 | | |
| SW8260C | 1,1,1,2-Tetrachloroethane | ug/Kg | 22 | 14.6 U | 18.3 U | 117 U | 17.2 U | 12.9 U | 13.6 U | 15.1 U | 12.4 U | 73.2 U | | 20.1 U |
| SW8260C | 1,1,1-Trichloroethane | ug/Kg | 32000 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,1,2,2-Tetrachloroethane | ug/Kg | 3 | 1.46 U | 1.83 U | 11.7 U | 1.72 U | 1.29 U | 1.36 U | 1.51 U | 1.24 U | 7.32 U | | 2.01 U |
| SW8260C | 1,1,2-Trichloroethane | ug/Kg | 1.4 | 0.585 U | 0.733 U | 4.68 U | 0.687 U | 0.515 U | 0.543 U | 0.606 U | 0.494 U | 2.93 U | | 0.802 U |
| SW8260C | 1,1-Dichloroethane | ug/Kg | 92 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,1-Dichloroethene | ug/Kg | 1200 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,1-Dichloropropene | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,2,3-Trichlorobenzene | ug/Kg | 150 | 36.6 U | 45.8 U | 293 U | 42.9 U | 32.2 U | 33.9 U | 37.9 U | 30.9 U | 183 U | | 50.1 U |
| SW8260C | 1,2,3-Trichloropropane | ug/Kg | 0.031 | 0.731 U | 0.916 U | 5.86 U | 0.858 U | 0.644 U | 0.679 U | 0.757 U | 0.618 U | 3.66 U | | 1.00 U |
| SW8260C | 1,2,4-Trichlorobenzene | ug/Kg | 82 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,2,4-Trimethylbenzene | ug/Kg | 610 | 36.6 U | 45.8 U | 293 U | 42.9 U | 32.2 U | 33.9 U | 37.9 U | 30.9 U | 5720 | | 50.1 U |
| SW8260C | 1,2-Dibromo-3-chloropropane | ug/Kg | | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | 1,2-Dibromoethane | ug/Kg | 0.24 | 0.731 U | 0.916 U | 5.86 U | 0.858 U | 0.644 U | 0.679 U | 0.757 U | 0.618 U | 3.66 U | | 1.00 U |
| SW8260C | 1,2-Dichlorobenzene | ug/Kg | 2400 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,2-Dichloroethane | ug/Kg | 5.5 | 1.46 U | 1.83 U | 11.7 U | 1.72 U | 1.29 U | 1.36 U | 1.51 U | 1.24 U | 7.32 U | | 2.01 U |
| SW8260C | 1,2-Dichloropropane | ug/Kg | 30 | 7.31 U | 9.16 U | 58.6 U | 8.58 U | 6.44 U | 6.79 U | 7.57 U | 6.18 U | 36.6 U | | 10.0 U |
| SW8260C | 1,3,5-Trimethylbenzene | ug/Kg | 660 | 18.3 U | 22.9 U | 820 | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 5570 | | 25.1 U |
| SW8260C | 1,3-Dichlorobenzene | ug/Kg | 2300 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 1,3-Dichloropropane | ug/Kg | | 7.31 U | 9.16 U | 58.6 U | 8.58 U | 6.44 U | 6.79 U | 7.57 U | 6.18 U | 36.6 U | | 10.0 U |
| SW8260C | 1,4-Dichlorobenzene | ug/Kg | 37 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 2,2-Dichloropropane | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 2-Butanone (MEK) | ug/Kg | 15000 | 183 U | 229 U | 1460 U | 215 U | 161 U | 170 U | 189 U | 154 U | 914 U | | 251 U |
| SW8260C | 2-Chlorotoluene | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 2-Hexanone | ug/Kg | 110 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | 4-Chlorotoluene | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | 4-Isopropyltoluene | ug/Kg | | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 3490 | | 100 U |
| SW8260C | 4-Methyl-2-pentanone (MIBK) | ug/Kg | 18000 | 183 U | 229 U | 1460 U | 215 U | 161 U | 170 U | 189 U | 154 U | 914 U | | 251 U |
| SW8260C | Acetone | ug/Kg | 38000 | 183 U | 229 U | 1460 U | 215 U | 161 U | 170 U | 189 U | 154 U | 914 U | | 251 U |
| SW8260C | Benzene | ug/Kg | 22 | 9.14 U | 11.5 U | 73.2 U | 10.7 U | 8.05 U | 8.48 U | 9.46 U | 7.72 U | 45.7 U | | 12.5 U |
| SW8260C | Bromobenzene | ug/Kg | 360 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Bromochloromethane | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Bromodichloromethane | ug/Kg | 4.3 | 1.46 U | 1.83 U | 11.7 U | 1.72 U | 1.29 U | 1.36 U | 1.51 U | 1.24 U | 7.32 U | | 2.01 U |
| SW8260C | Bromoform | ug/Kg | 100 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Bromomethane | ug/Kg | 24 | 14.6 U | 18.3 U | 117 U | 17.2 U | 12.9 U | 13.6 U | 15.1 U | 12.4 U | 73.2 U | | 20.1 U |
| SW8260C | Carbon disulfide | ug/Kg | 2900 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | Carbon tetrachloride | ug/Kg | 21 | 9.14 U | 11.5 U | 73.2 U | 10.7 U | 8.05 U | 8.48 U | 9.46 U | 7.72 U | 45.7 U | | 12.5 U |
| SW8260C | Chlorobenzene | ug/Kg | 460 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |

Table 2a - Tank and Excavation Analytical Results

| Table 2a - Tank and Excavation Analytical Results | | | EMI Sample Id: | Gas-Disp-02 | Gas-Disp-01 | Sump-1 | EX-1 | EX-9 | EX-19 | EX-12 | EX-14 | SSW-1 | Base-Test Pit | Trip Blank |
|---|---------------------------|-------|----------------|-------------|-------------|--------|---------|----------|----------|---------|---------|---------|---------------|------------|
| Analysis | Analyte | Unit | Cleanup Level | | | | | | | | | | | |
| SW8260C | Chloroethane | ug/Kg | 72000 | 146 U | 183 U | 1170 U | 172 U | 129 U | 136 U | 151 U | 124 U | 732 U | | 201 U |
| SW8260C | Chloroform | ug/Kg | 7.1 | 1.46 U | 1.83 U | 11.7 U | 1.72 U | 1.29 U | 1.36 U | 1.51 U | 1.24 U | 14.6 U | | 2.01 U |
| SW8260C | Chloromethane | ug/Kg | 610 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Dibromochloromethane | ug/Kg | 2.7 | 1.46 U | 1.83 U | 11.7 U | 1.72 U | 1.29 U | 1.36 U | 1.51 U | 1.24 U | 7.32 U | | 2.01 U |
| SW8260C | Dibromomethane | ug/Kg | 25 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Dichlorodifluoromethane | ug/Kg | 3900 | 36.6 U | 45.8 U | 293 U | 42.9 U | 32.2 U | 33.9 U | 37.9 U | 30.9 U | 183 U | | 50.1 U |
| SW8260C | Ethylbenzene | ug/Kg | 130 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 347 | | 25.1 U |
| SW8260C | Freon-113 | ug/Kg | 310000 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | Hexachlorobutadiene | ug/Kg | 20 | 14.6 U | 18.3 U | 117 U | 17.2 U | 12.9 U | 13.6 U | 15.1 U | 12.4 U | 73.2 U | | 20.1 U |
| SW8260C | Isopropylbenzene (Cumene) | ug/Kg | 5600 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 1100 | | 25.1 U |
| SW8260C | Methyl-t-butyl ether | ug/Kg | 400 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | Methylene chloride | ug/Kg | 330 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | Naphthalene | ug/Kg | 38 | 18.3 U | 46.5 | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 388 | | 25.1 U |
| SW8260C | P & M -Xylene | ug/Kg | | 36.6 U | 45.8 U | 293 U | 42.9 U | 32.2 U | 33.9 U | 37.9 U | 30.9 U | 3420 | | 50.1 U |
| SW8260C | Styrene | ug/Kg | 10000 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Tetrachloroethene | ug/Kg | 190 | 356 | 17.0 | 79.0 | 129 | 11.9 | 8.48 U | 15.0 | 31.0 | 45.7 U | | 12.5 U |
| SW8260C | Toluene | ug/Kg | 6700 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | Trichloroethene | ug/Kg | 11 | 3.66 U | 4.58 U | 29.3 U | 4.29 U | 3.22 U | 3.39 U | 3.79 U | 3.09 U | 18.3 U | | 5.01 U |
| SW8260C | Trichlorofluoromethane | ug/Kg | 41000 | 36.6 U | 45.8 U | 293 U | 42.9 U | 32.2 U | 33.9 U | 37.9 U | 30.9 U | 183 U | | 50.1 U |
| SW8260C | Vinyl acetate | ug/Kg | 1100 | 73.1 U | 91.6 U | 586 U | 85.8 U | 64.4 U | 67.9 U | 75.7 U | 61.8 U | 366 U | | 100 U |
| SW8260C | Vinyl chloride | ug/Kg | 0.8 | 0.585 U | 0.733 U | 4.68 U | 0.687 U | 0.515 U | 0.543 U | 0.606 U | 0.494 U | 2.93 U | | 0.802 U |
| SW8260C | Xylenes (total) | ug/Kg | 1500 | 54.9 U | 68.7 U | 439 U | 64.4 U | 48.3 U | 50.9 U | 56.8 U | 46.3 U | 6830 | | 75.2 U |
| SW8260C | cis-1,2-Dichloroethene | ug/Kg | 120 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | cis-1,3-Dichloropropene | ug/Kg | 18 | 9.14 U | 11.5 U | 73.2 U | 10.7 U | 8.05 U | 8.48 U | 9.46 U | 7.72 U | 45.7 U | | 12.5 U |
| SW8260C | n-Butylbenzene | ug/Kg | 23000 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 2170 | | 25.1 U |
| SW8260C | n-Propylbenzene | ug/Kg | 9100 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 2350 | | 25.1 U |
| SW8260C | o-Xylene | ug/Kg | | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 3410 | | 25.1 U |
| SW8260C | sec-Butylbenzene | ug/Kg | 42000 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 1610 | | 25.1 U |
| SW8260C | tert-Butylbenzene | ug/Kg | 11000 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 95.1 | | 25.1 U |
| SW8260C | trans-1,2-Dichloroethene | ug/Kg | 1300 | 18.3 U | 22.9 U | 146 U | 21.5 U | 16.1 U | 17.0 U | 18.9 U | 15.4 U | 91.4 U | | 25.1 U |
| SW8260C | trans-1,3-Dichloropropene | ug/Kg | 18 | 9.14 U | 11.5 U | 73.2 U | 10.7 U | 8.05 U | 8.48 U | 9.46 U | 7.72 U | 45.7 U | | 12.5 U |
| SW8260C-SIM | 1,2-Dibromoethane | ug/Kg | 0.24 | | | | | 0.0805 U | 0.0848 U | | | 0.366 U | | 0.125 U |
| 8270D SIM (PAH) | 1-Methylnaphthalene | ug/Kg | 410 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | 2-Methylnaphthalene | ug/Kg | 1300 | | | | | 26.3 U | 25.8 U | | | 65.7 | | |
| 8270D SIM (PAH) | Acenaphthene | ug/Kg | 37000 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | Acenaphthylene | ug/Kg | 18000 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | Anthracene | ug/Kg | 390000 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | Benzo(a)Anthracene | ug/Kg | 700 | | | | | 26.3 U | 30.3 | | | 45.6 | | |
| 8270D SIM (PAH) | Benzo[a]pyrene | ug/Kg | 1900 | | | | | 26.3 U | 39.0 | | | 56.5 | | |
| 8270D SIM (PAH) | Benzo[b]Fluoranthene | ug/Kg | 20000 | | | | | 26.3 U | 47.2 | | | 67.6 | | |
| 8270D SIM (PAH) | Benzo[g,h,i]perylene | ug/Kg | 15000000 | | | | | 27.2 | 37.4 | | | 60.5 | | |

Table 2a - Tank and Excavation Analytical Results

| | | | EMI Sample Id: | Gas-Disp-02 | Gas-Disp-01 | Sump-1 | EX-1 | EX-9 | EX-19 | EX-12 | EX-14 | SSW-1 | Base-Test Pit | Trip Blank |
|-----------------|--------------------------|-------|----------------|-------------|-------------|--------|------|--------|--------|-------|-------|--------|---------------|------------|
| Analysis | Analyte | Unit | Cleanup Level | | | | | | | | | | | |
| 8270D SIM (PAH) | Benzo[k]fluoranthene | ug/Kg | 190000 | | | | | 26.3 U | 25.8 U | | | 26.1 | | |
| 8270D SIM (PAH) | Chrysene | ug/Kg | 600000 | | | | | 26.3 U | 37.0 | | | 56.8 | | |
| 8270D SIM (PAH) | Dibenzo[a,h]anthracene | ug/Kg | 6300 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | Fluoranthene | ug/Kg | 590000 | | | | | 26.3 U | 64.8 | | | 97.0 | | |
| 8270D SIM (PAH) | Fluorene | ug/Kg | 36000 | | | | | 26.3 U | 25.8 U | | | 24.2 U | | |
| 8270D SIM (PAH) | Indeno[1,2,3-c,d] pyrene | ug/Kg | 65000 | | | | | 26.3 U | 31.8 | | | 47.6 | | |
| 8270D SIM (PAH) | Naphthalene | ug/Kg | 38 | | | | | 21.0 U | 20.6 U | | | 19.3 U | | |
| 8270D SIM (PAH) | Phenanthrene | ug/Kg | 39000 | | | | | 26.3 U | 55.3 | | | 69.7 | | |
| 8270D SIM (PAH) | Pyrene | ug/Kg | 87000 | | | | | 26.3 U | 63.1 | | | 93.8 | | |

Table 2b - Stockpile Analytical Results

| | | | EMI Sample Id: | St-1-7 | St-1-16 | St-1-22 | St-1-5 | Con-St-1 | Con-St-7 | Trip Blank |
|----------|-----------------------------|-------|----------------|---------|---------|---------|---------|----------|----------|------------|
| Analysis | Analyte | Unit | Cleanup Level | | | | | | | |
| AK101 | Gasoline Range Organics | mg/Kg | 300 | 1.99 U | 2.06 U | 2.16 | 2.22 U | 13.2 | 5.13 | 2.51 U |
| AK102 | Diesel Range Organics | mg/Kg | 250 | 21.2 U | 24.6 | 74.0 | 21.4 U | 1010 | 182 | |
| SW6020A | Lead | mg/Kg | | 15.3 | 16.0 | 11.1 | 10.8 | 4.37 | 12.5 | |
| SW8260C | 1,1,1,2-Tetrachloroethane | ug/Kg | 22 | 15.9 U | 16.5 U | 12.0 U | 17.8 U | 12.2 U | 19.6 U | 20.1 U |
| SW8260C | 1,1,1-Trichloroethane | ug/Kg | 32000 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,1,2,2-Tetrachloroethane | ug/Kg | 3 | 1.59 U | 1.65 U | 1.20 U | 1.78 U | 1.22 U | 1.96 U | 2.01 U |
| SW8260C | 1,1,2-Trichloroethane | ug/Kg | 1.4 | 0.636 U | 0.660 U | 0.480 U | 0.710 U | 0.487 U | 0.785 U | 0.802 U |
| SW8260C | 1,1-Dichloroethane | ug/Kg | 92 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,1-Dichloroethene | ug/Kg | 1200 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,1-Dichloropropene | ug/Kg | | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,2,3-Trichlorobenzene | ug/Kg | 150 | 39.7 U | 41.3 U | 30.0 U | 44.4 U | 30.4 U | 49.1 U | 50.1 U |
| SW8260C | 1,2,3-Trichloropropane | ug/Kg | 0.031 | 0.795 U | 0.825 U | 0.600 U | 0.888 U | 0.609 U | 0.981 U | 1.00 U |
| SW8260C | 1,2,4-Trichlorobenzene | ug/Kg | 82 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,2,4-Trimethylbenzene | ug/Kg | 610 | 39.7 U | 41.3 U | 136 | 44.4 U | 442 | 396 | 50.1 U |
| SW8260C | 1,2-Dibromo-3-chloropropane | ug/Kg | | 79.5 U | 82.5 U | 60.0 U | 88.8 U | 60.9 U | 98.1 U | 100 U |
| SW8260C | 1,2-Dibromoethane | ug/Kg | 0.24 | 0.795 U | 0.825 U | 0.600 U | 0.888 U | 0.609 U | 0.981 U | 1.00 U |
| SW8260C | 1,2-Dichlorobenzene | ug/Kg | 2400 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,2-Dichloroethane | ug/Kg | 5.5 | 1.59 U | 1.65 U | 1.20 U | 1.78 U | 1.22 U | 1.96 U | 2.01 U |
| SW8260C | 1,2-Dichloropropane | ug/Kg | 30 | 7.95 U | 8.25 U | 6.00 U | 8.88 U | 6.09 U | 9.81 U | 10.0 U |
| SW8260C | 1,3,5-Trimethylbenzene | ug/Kg | 660 | 19.9 U | 20.6 U | 131 | 22.2 U | 763 | 325 | 25.1 U |
| SW8260C | 1,3-Dichlorobenzene | ug/Kg | 2300 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 1,3-Dichloropropane | ug/Kg | | 7.95 U | 8.25 U | 6.00 U | 8.88 U | 6.09 U | 9.81 U | 10.0 U |
| SW8260C | 1,4-Dichlorobenzene | ug/Kg | 37 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 2,2-Dichloropropane | ug/Kg | | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 2-Butanone (MEK) | ug/Kg | 15000 | 199 U | 206 U | 150 U | 222 U | 152 U | 245 U | 251 U |
| SW8260C | 2-Chlorotoluene | ug/Kg | | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 2-Hexanone | ug/Kg | 110 | 79.5 U | 82.5 U | 60.0 U | 88.8 U | 60.9 U | 98.1 U | 100 U |
| SW8260C | 4-Chlorotoluene | ug/Kg | | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | 4-Isopropyltoluene | ug/Kg | | 79.5 U | 82.5 U | 60.0 U | 88.8 U | 171 | 258 | 100 U |
| SW8260C | 4-Methyl-2-pentanone (MIBK) | ug/Kg | 18000 | 199 U | 206 U | 150 U | 222 U | 152 U | 245 U | 251 U |
| SW8260C | Acetone | ug/Kg | 38000 | 199 U | 206 U | 150 U | 222 U | 152 U | 245 U | 251 U |
| SW8260C | Benzene | ug/Kg | 22 | 9.93 U | 10.3 U | 7.50 U | 11.1 U | 7.61 U | 12.3 U | 12.5 U |
| SW8260C | Bromobenzene | ug/Kg | 360 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | Bromochloromethane | ug/Kg | | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | Bromodichloromethane | ug/Kg | 4.3 | 1.59 U | 1.65 U | 1.20 U | 1.78 U | 1.22 U | 1.96 U | 2.01 U |
| SW8260C | Bromoform | ug/Kg | 100 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | Bromomethane | ug/Kg | 24 | 15.9 U | 16.5 U | 12.0 U | 17.8 U | 12.2 U | 19.6 U | 20.1 U |
| SW8260C | Carbon disulfide | ug/Kg | 2900 | 79.5 U | 82.5 U | 60.0 U | 88.8 U | 60.9 U | 98.1 U | 100 U |
| SW8260C | Carbon tetrachloride | ug/Kg | 21 | 9.93 U | 10.3 U | 7.50 U | 11.1 U | 7.61 U | 12.3 U | 12.5 U |
| SW8260C | Chlorobenzene | ug/Kg | 460 | 19.9 U | 20.6 U | 15.0 U | 22.2 U | 15.2 U | 24.5 U | 25.1 U |
| SW8260C | Chloroethane | ug/Kg | 72000 | 159 U | 165 U | 120 U | 178 U | 122 U | 196 U | 201 U |

Appendix A
Field Notes

9/16/19 Glenallen Fuel
ad service
weather overcast 54°

UST

(64)

1245 - EMT Arrives onsite
to the Removal of the UST
from the Glenallen Fuel
ad Service

- Cheryl pause with ADEL
was on site at the time of
EMT's Arrival.

- The contractor was busting up
the concrete around the
top of arrival

= PID Cal Check 98.2 ppm

4520 - LEL was checked on both
sides of the tank (diesel & gas)
LEL was 0% on each

1730 - Concrete Removal

continued for Removal
of day

- EMT am crews left site

9/17/19 Glenallen Gas and Fuel UST
weather partially cloudy 45° Am
PID Cal Check - 97.1 ppm

0700 - EMT Arrives on site to
Begin Removal.

* Contaminated Stakepile constructed
with 2-layers of gravel in
case contamination is encountered

* A grid was established (perched off)
600' took to the Area concrete
was removed. Ambient Readings
taken from surface Soils - all
detections less than 1 ppm

- Head space collection from dispenser
- very minor fuel odor beneath
diesel pump. Head space values < 5

- 3 head space were collection for
beneath each dispenser. 1
analytical was collected from
the highest for each dispenser

Chemical fuel and service
9/17/19 (64)

The Analytical for the dispersion
were within 2' of the vent
lines and represent them also.

- when excavator opened the
sump soils with fuel odor
was prominent on the
west side of the sump
odor began ~ 4' Bgs

- Head open to 155 observed

- if Headspace collector connected
sump. Analytical collected
from Highest Sump 1

- Excavation proceeded with soils
being segregated by color and
Ambients.

- while still excavating odor and
Ambients high as 20 were
noted on SE corner. Appears
Random where some has odor
while other not.

Glenn W. H. Ford & Son Inc 9/17

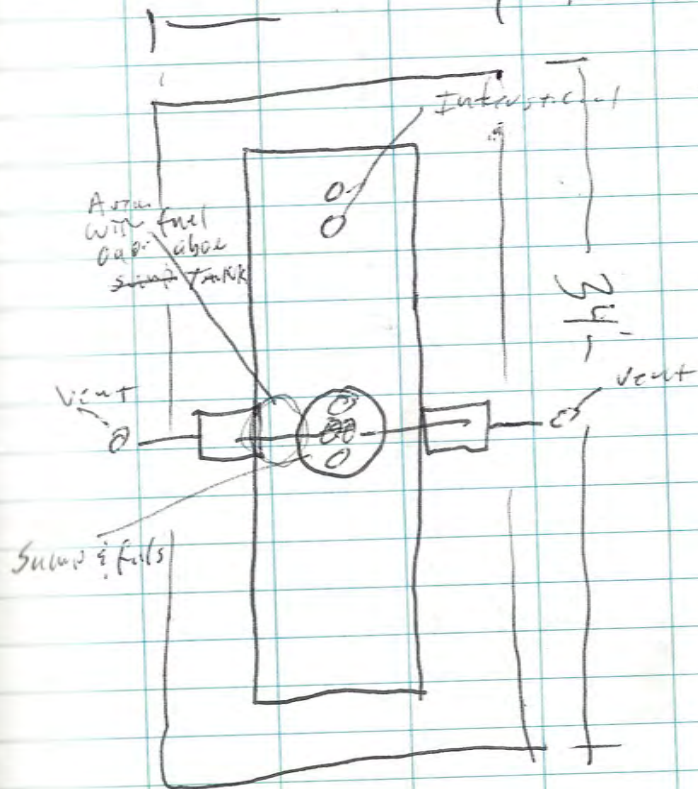
| ID | Time in min | Time Read | Reading | Remarks | |
|----------------|-------------------|--------------|---------|------------------------|--|
| Disp Descr (1) | 0741 | 0758 | 3.1 | Sampled at 2.5' | |
| | 2 | 0742 | 0759 | 3.0 | |
| | 3 | 0743 | 0759 | 2.7 | |
| Disp gas (2) | 0747 | 0812 | 0.0 | | |
| | 0748 | 0812 | 1.5 | Sampled at 0816 2.5' | |
| | 3 | 0749 | 0811 | 0.5 | |
| Ex 1 | 0831 | 0910 | 0.3 | | |
| 2 | 0840 | " | 1.0 | | |
| 3 | 0849 | 0911 | 0.8 | | |
| 4 | 0855 | 0911 | 10.2 | Some orig. No. Sump 3' | |
| 5 | 0919 | 0930 | 7.1 | 2.5 | |
| 6 | 0925 | 0950 | 155 | 4' Bgs | |
| Sump (1) | 0935 | 1013 | 227 | 4' Sump odor 0945 | |
| Sump 2 | 0935 | 1013 | 1.3 | 5' No odor | |
| Sump 3 | 0936 | 1014 | 0.7 | 4.5 | |
| Sump 4 | 0937 | 1014 | 0.8 | 4.5 | |
| Sump 5 | | | | | |
| Ex 7 | 1006 | 1016 | 2.1 | 7' | |
| Ex 8 | 1040 | 1057 | 61 | 8' | |
| Ex 9 | 1100 | 1150 | 1.7 | 8' | |
| Ex 10 | 1100 | 1150 | 2.4 | 6 | |
| 11 | 1120 | 1151 | 5.3 | 8 | |
| 12 | 1130 | 1151 | | ~ 8 | |

odor fuel on
SE corner

Blower system fuel & service
Head Space Log 9/17 (64)
Exhaustor Configuration

| Ex | Coll. part. / hr | 8 th Det | (244) |
|-------|------------------|---------------------|-------|
| 2 | 14 | 1.2 | |
| 3 | 8 | 1.6 | |
| 4 | 8 | 3.2 | |
| 5 | 14 | 1.4 | |
| 6 | 8 | 1.8 | |
| 7 | 8 | 2.1 | |
| 8 | 14 | 2.1 | |
| 9 | 8 | (3.38) | |
| 10 | 8 | 4.5 | |
| 11 | 14 | 2.6 | |
| 12 | 8 | (11.8) | |
| 13 | 14 | 1.7 | |
| 14 | 14 | (2.1) | |
| WSW 1 | 1.5 | 0.7 | |
| 2 | 5 | 1.4 | |
| 3 | 8 | 1.2 | |
| 4 | 1.5 | 1.9 | |
| 5 | 5 | 1.6 | |
| 6 | 8 | 1.9 | |
| 7 | 1.5 | 1.7 | |
| 8 | 5 | 1.5 | |
| 9 | 8 | (11.7) | |

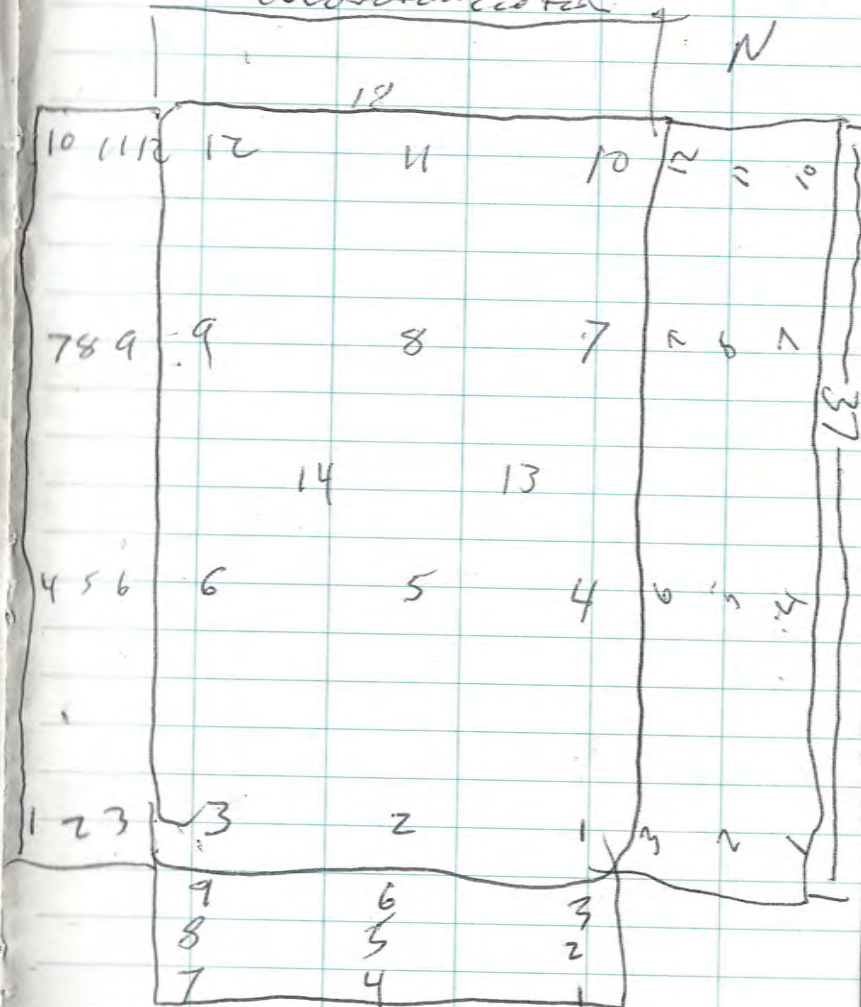
Blower fuel and service 9/17 (64) 21
N



Chemical feed & source
9/17/09 GH

| EP | time | depth | Residue |
|--------|------|-------|---------|
| WSW 10 | 1.5 | 1.2 | |
| 11 | 5 | 1.0 | |
| 12 | 8 | 1.2 | |
| SSW 1 | 1.5 | 888 | |
| 2 | 5 | 358 | |
| 3 | 8 | 237 | |
| 4 | 1.5 | 6.4 | |
| 5 | 5 | 2.4 | |
| 6 | 8 | 4.2 | |
| 7 | 1.5 | 6.0 | |
| 8 | 5 | 3.0 | |
| 9 | 8 | 7.0 | |
| ESW 1 | | 4.1 | |
| 2 | | 2.2 | |
| 3 | | 74 | |
| 4 | | 7.4 | |
| 5 | | 5.7 | |
| 6 | | 3.3 | |
| 7 | | 5.7 | |
| 8 | | 3.5 | |
| 9 | | 3.5 | |
| 10 | | 4.2 | |
| 11 | | 1.4 | |
| 12 | | 2.4 | |

9/17

Excavation Chem other
feed & source
Characterized

Overwater level and sounder cut
9/17

| ID | Time | Depth | Reading |
|-------|-------------|-------|---------|
| MSW 1 | within 1 hr | | 1.1 |
| 2 | | | 1.6 |
| 3 | | | 1.2 |
| 4 | | | 1.4 |
| 5 | | | 1.3 |
| 6 | | | 1.4 |
| 7 | | | 1.7 |
| 8 | | | 1.2 |
| 9 | | | 1.8 |

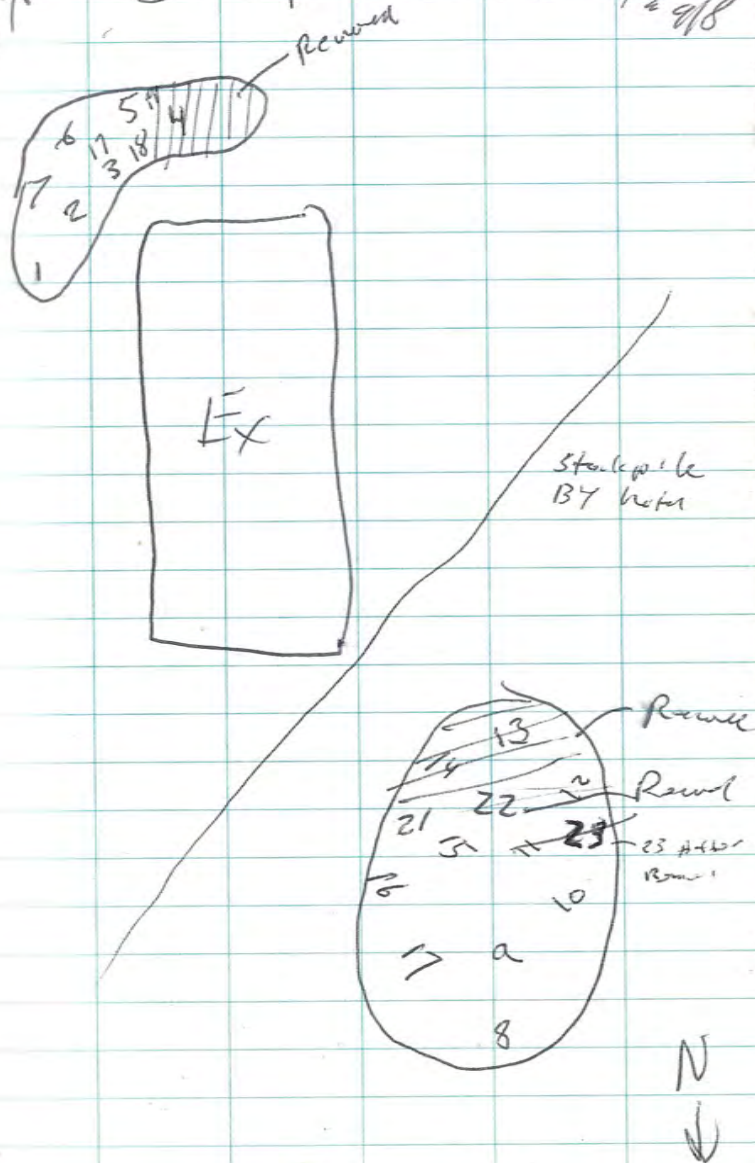
TEST pit

Nature transition 20' 1.5 ppm
Base of pit 25-30 58.5

| St 1-1 | Time | Depth | Reading |
|--------|-------------|-------|-----------------------------|
| 2 | within 1 hr | 1.5 | 2.8 |
| 3 | | | 3.3 |
| 4 | | | 7.9 - Remnant to con St. |
| 5 | | | 18.9 - 0852 |
| 6 | | | 2.5 |
| 7 | | | 2.6 |
| 8 | | | 20.2 - 0902 |
| 9 | | | 14.9 |
| 10 | | | 6.9 |

Column after level of service
Steel pipe location 9/17
= 9/18

N ↑



Glenn Miller level and ground
9/17 & 9/18

| St-1-11 | water 1 hr | Depth | 117 - Rmnd |
|---------|---------------|-------|----------------|
| 12 | | 1.5' | 84.2 |
| 13 | | | 59.9 Removal |
| 14 | | | 59.7 |
| 15 | | | 5.6 |
| 16 | | | 15.7 @ 09/19 |
| 17 | | | 9.3 |
| 18 | | | 0.5 After Rmnd |
| 19 | | | 0.7 |
| 20 | | | 0.4 |
| 21 | | | 11.7 |
| 22 | | | 59.2 |
| 23 | | | 12.5 |

| Key St | water 1 hr | Depth | |
|--------|---------------|-------|------|
| 1 | | 1.5 | 261 |
| 2 | | | 37.1 |
| 3 | | | 126 |
| 4 | | | 49.1 |
| 5 | | | 55.5 |
| 6 | | | 76.6 |
| 7 | | | 203 |

Glenn Miller level and
service 9/17

Continued from Pg 18

- Excavation proceeded, Segregation as necessary, until the Tank could be fixed.
- The tank was removed and placed near the wood shed, it was checked and all labeled for non use.
- The Base of the excavation was surveyed and sampled accordingly. Contamination was noted in 2 separate areas. of contamination were present on the base, in the Areas already noted - below diesel disp. and SE corner. The source of SE corner is unknown, may be surface spill but there were no pipes or discharges in Area.

Headspace were collected for the stock pipes for characterization.

→

Glennallen fuel and service 9/17/18

- There were two piles clean, and contaminated. The clean pile was separated to another stock pile for spare reasons.
- After the initial headspace were done two pockets of elevated readings were observed.

1830

- EMT will finish characterizing in the morning and soil has been removed from the stockpile.

- EMT left the site

9/18/19 Glennallen fuel and service last

- weather cloudy, scattered rain and gusts up to 30 mph.
- EMT will finish characterizing the stock piles and backfill the excavation.
- Stock piles were characterized, size log. EMT left site.
ex Backfill

Appendix B

Photo Log

Photo Log



Photo 1: September 16, 2019, looking southeast - This photo shows the Glennallen Fuel and Service gas station. The UST is located within the barrier fence.



Photo 2: September 16, 2019, looking east - This photo shows the dispenser island and concrete apron. The dispensers were removed sometime in the past, but the vent lines and island remained.

Photo Log



Photo 3: September 17, 2019, looking northwest – This photo shows removal of the dispenser boxes following the removal of the apron and island.



Photo 4: September 17, 2019, looking south - This photo shows the excavation of the tank in the area of the sump. There was evidence of a release from the sump and soils in the area right (west) of the sump (arrow) were impacted.

Photo Log



Photo 5: September 17, 2019, looking south - This photo shows the UST at the time of removal from the ground.



Photo 6: September 17, 2019, looking north - This photo shows the plastic barrier that was placed in the excavation prior to backfilling with the soils from the presumed clean stockpile.

Photo Log



Photo 7: September 17, 2019, looking south - This photo shows the presumed contaminated stockpile. The pile was covered with six-mil polyethylene sheeting after characterization sampling.



Photo 8: September 19, 2019, looking southeast - This photo shows the tank following removal. The tank was rinsed and collected water transported for disposal. The tank was sold to a private party.

Appendix C
SGS Laboratory Report of Analysis
And
ADEC Laboratory Data Review Checklist



Laboratory Report of Analysis

To: Environmental Mgmt Inc (EMI)
206 E. Fireweed Ln, Ste 201
Anchorage, AK 99503
(907)272-9336

Report Number: **1195630**

Client Project: **18021 UST 0204 Closure**

Dear Glenn Hasburgh,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Jillian at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Jillian Janssen
Project Manager
Jillian.Janssen@sgs.com

Date



Case Narrative

SGS Client: Environmental Mgmt Inc (EMI)
SGS Project: 1195630
Project Name/Site: 18021 UST 0204 Closure
Project Contact: Glenn Hasburgh

Refer to sample receipt form for information on sample condition.

Sump-1 (1195630003) PS

8260C - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.
8260C - The LOQs were elevated due to matrix interference with the internal standards.
AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

SSW-1 (1195630011) PS

8260C - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.
8260C SIM - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.
8260C SIM - The LOQs were elevated due to high concentrations of non-target compounds.
AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

Con-St-1 (1195630018) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

Con-St-7 (1195630019) PS

AK101 - Surrogate recovery for 4-bromofluorobenzene does not meet QC criteria due to matrix interference.

LCS for HBN 1799991 [XXX/42341 (1534382) LCS

8270D SIM - PAH surrogate recovery for 2-Methylnaphthalene d10 and Fluoranthene-d10 do not meet QC criteria. The surrogate recovery of the associated samples are within QC criteria.

LCS for HBN 1800055 [VXX/34970 (1534617) LCS

8260C - LCS recovery for trichlorofluoromethane does not meet QC criteria. This analyte was not detected above the LOQ in the associated samples.

1195630006MS (1534383) MS

8270D SIM - PAH MS recovery for Phenanthrene does not meet QC criteria. Refer to the LCS for accuracy requirements.

1195593006MS (1534622) MS

8260C - MS recovery does not meet QC criteria for trichlorofluoromethane. This analyte was not detected in the parent sample.

1195630006MSD (1534384) MSD

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Print Date: 10/25/2019 4:15:12PM

Report of Manual Integrations

| <u>Laboratory ID</u> | <u>Client Sample ID</u> | <u>Analytical Batch</u> | <u>Analyte</u> | <u>Reason</u> |
|------------------------|-------------------------|-------------------------|----------------------|---------------|
| 8270D SIM (PAH) | | | | |
| 1195630006 | EX-19 | XMS11756 | Benzo[k]fluoranthene | RP |
| 1195630011 | SSW-1 | XMS11756 | Benzo[k]fluoranthene | RP |
| SW8260C | | | | |
| 1195593006 | LABREFQC | VMS19497 | Naphthalene | RP |
| 1195593006 | LABREFQC | VMS19497 | n-Butylbenzene | SP |
| 1195630001 | Gas-Disp-02 | VMS19493 | 4-Isopropyltoluene | SP |
| 1195630001 | Gas-Disp-02 | VMS19493 | Naphthalene | RP |
| 1195630002 | Gas-Disp-01 | VMS19493 | n-Butylbenzene | SP |
| 1195630003 | Sump-1 | VMS19493 | Naphthalene | RP |
| 1195630011 | SSW-1 | VMS19497 | n-Butylbenzene | SP |
| 1195630011 | SSW-1 | VMS19497 | tert-Butylbenzene | SP |
| 1195630018 | Con-St-1 | VMS19497 | Naphthalene | RP |
| 1195630019 | Con-St-7 | VMS19497 | Naphthalene | RP |

Manual Integration Reason Code Descriptions

| Code | Description |
|------|------------------------------|
| O | Original Chromatogram |
| M | Modified Chromatogram |
| SS | Skimmed surrogate |
| BLG | Closed baseline gap |
| RP | Reassign peak name |
| PIR | Pattern integration required |
| IT | Included tail |
| SP | Split peak |
| RSP | Removed split peak |
| FPS | Forced peak start/stop |
| BLC | Baseline correction |
| PNF | Peak not found by software |

All DRO/RRO analysis are integrated per SOP.

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

| | |
|--------------------|---|
| * | The analyte has exceeded allowable regulatory or control limits. |
| ! | Surrogate out of control limits. |
| B | Indicates the analyte is found in a blank associated with the sample. |
| CCV/CVA/CVB | Continuing Calibration Verification |
| CCCV/CVC/CVCA/CVCB | Closing Continuing Calibration Verification |
| CL | Control Limit |
| DF | Analytical Dilution Factor |
| DL | Detection Limit (i.e., maximum method detection limit) |
| E | The analyte result is above the calibrated range. |
| GT | Greater Than |
| IB | Instrument Blank |
| ICV | Initial Calibration Verification |
| J | The quantitation is an estimation. |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| LLQC/LLIQC | Low Level Quantitation Check |
| LOD | Limit of Detection (i.e., 1/2 of the LOQ) |
| LOQ | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT | Less Than |
| MB | Method Blank |
| MS(D) | Matrix Spike (Duplicate) |
| ND | Indicates the analyte is not detected. |
| RPD | Relative Percent Difference |
| U | Indicates the analyte was analyzed for but not detected. |

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|-----------------|-------------------------|
| Gas-Disp-02 | 1195630001 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| Gas-Disp-01 | 1195630002 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| Sump-1 | 1195630003 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| EX-1 | 1195630004 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| EX-9 | 1195630005 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| EX-19 | 1195630006 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| EX-12 | 1195630007 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| EX-14 | 1195630008 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| NSW-6 | 1195630009 | 09/17/2019 | 09/23/2019 | Solid/Soil (Wet Weight) |
| ESW-3 | 1195630010 | 09/17/2019 | 09/23/2019 | Solid/Soil (Wet Weight) |
| SSW-1 | 1195630011 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| WSW-9 | 1195630012 | 09/17/2019 | 09/23/2019 | Solid/Soil (Wet Weight) |
| Base-Test Pit | 1195630013 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| St-1-7 | 1195630014 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| St-1-16 | 1195630015 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| St-1-22 | 1195630016 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| St-1-5 | 1195630017 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| Con-St-1 | 1195630018 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| Con-St-7 | 1195630019 | 09/18/2019 | 09/23/2019 | Soil/Solid (dry weight) |
| Trip Blank | 1195630020 | 09/17/2019 | 09/23/2019 | Soil/Solid (dry weight) |

| <u>Method</u> | <u>Method Description</u> |
|-----------------|-----------------------------------|
| 8270D SIM (PAH) | 8270 PAH SIM Semi-Volatiles GC/MS |
| AK102 | Diesel Range Organics (S) |
| AK101 | Gasoline Range Organics (S) |
| SW6020A | Metals by ICP-MS (S) |
| SM21 2540G | Percent Solids SM2540G |
| SW8260C-SIM | SW8260-SIM (S) |
| SW8260C | VOC 8260 (S) Field Extracted |

Detectable Results Summary

Client Sample ID: **Gas-Disp-02**

Lab Sample ID: 1195630001

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 21.8 | mg/Kg |
| Diesel Range Organics | 91.9 | mg/Kg |
| Tetrachloroethene | 356 | ug/Kg |

Client Sample ID: **Gas-Disp-01**

Lab Sample ID: 1195630002

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 14.2 | mg/Kg |
| Diesel Range Organics | 2930 | mg/Kg |
| Naphthalene | 46.5 | ug/Kg |
| Tetrachloroethene | 17.0 | ug/Kg |

Client Sample ID: **Sump-1**

Lab Sample ID: 1195630003

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Lead | 1.46 | mg/Kg |
| Diesel Range Organics | 5000 | mg/Kg |
| Gasoline Range Organics | 28.5 | mg/Kg |
| 1,3,5-Trimethylbenzene | 820 | ug/Kg |
| Tetrachloroethene | 79.0 | ug/Kg |

Client Sample ID: **EX-1**

Lab Sample ID: 1195630004

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 33.7 | mg/Kg |
| Diesel Range Organics | 33.3 | mg/Kg |
| Tetrachloroethene | 129 | ug/Kg |

Client Sample ID: **EX-9**

Lab Sample ID: 1195630005

Metals by ICP/MS

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 11.2 | mg/Kg |
| Benzo[g,h,i]perylene | 27.2 | ug/Kg |
| Diesel Range Organics | 91.3 | mg/Kg |
| Tetrachloroethene | 11.9 | ug/Kg |

Client Sample ID: **EX-19**

Lab Sample ID: 1195630006

Metals by ICP/MS

Polynuclear Aromatics GC/MS

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|--------------------------|---------------|--------------|
| Lead | 10.9 | mg/Kg |
| Benzo(a)Anthracene | 30.3 | ug/Kg |
| Benzo[a]pyrene | 39.0 | ug/Kg |
| Benzo[b]Fluoranthene | 47.2 | ug/Kg |
| Benzo[g,h,i]perylene | 37.4 | ug/Kg |
| Chrysene | 37.0 | ug/Kg |
| Fluoranthene | 64.8 | ug/Kg |
| Indeno[1,2,3-c,d] pyrene | 31.8 | ug/Kg |
| Phenanthrene | 55.3 | ug/Kg |
| Pyrene | 63.1 | ug/Kg |
| Diesel Range Organics | 63.6 | mg/Kg |

Detectable Results Summary

Client Sample ID: **EX-12**
 Lab Sample ID: 1195630007

Metals by ICP/MS
Semivolatile Organic Fuels
Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 5.61 | mg/Kg |
| Diesel Range Organics | 48.9 | mg/Kg |
| Tetrachloroethene | 15.0 | ug/Kg |

Client Sample ID: **EX-14**
 Lab Sample ID: 1195630008

Metals by ICP/MS
Semivolatile Organic Fuels
Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 1.51 | mg/Kg |
| Diesel Range Organics | 31.6 | mg/Kg |
| Tetrachloroethene | 31.0 | ug/Kg |

Client Sample ID: **SSW-1**
 Lab Sample ID: 1195630011

Metals by ICP/MS
Polynuclear Aromatics GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|---------------------------|---------------|--------------|
| Lead | 31.0 | mg/Kg |
| 2-Methylnaphthalene | 65.7 | ug/Kg |
| Benzo(a)Anthracene | 45.6 | ug/Kg |
| Benzo[a]pyrene | 56.5 | ug/Kg |
| Benzo[b]Fluoranthene | 67.6 | ug/Kg |
| Benzo[g,h,i]perylene | 60.5 | ug/Kg |
| Benzo[k]fluoranthene | 26.1 | ug/Kg |
| Chrysene | 56.8 | ug/Kg |
| Fluoranthene | 97.0 | ug/Kg |
| Indeno[1,2,3-c,d] pyrene | 47.6 | ug/Kg |
| Phenanthrene | 69.7 | ug/Kg |
| Pyrene | 93.8 | ug/Kg |
| Diesel Range Organics | 693 | mg/Kg |
| Gasoline Range Organics | 51.3 | mg/Kg |
| 1,2,4-Trimethylbenzene | 5720 | ug/Kg |
| 1,3,5-Trimethylbenzene | 5570 | ug/Kg |
| 4-Isopropyltoluene | 3490 | ug/Kg |
| Ethylbenzene | 347 | ug/Kg |
| Isopropylbenzene (Cumene) | 1100 | ug/Kg |
| Naphthalene | 388 | ug/Kg |
| n-Butylbenzene | 2170 | ug/Kg |
| n-Propylbenzene | 2350 | ug/Kg |
| o-Xylene | 3410 | ug/Kg |
| P & M -Xylene | 3420 | ug/Kg |
| sec-Butylbenzene | 1610 | ug/Kg |
| tert-Butylbenzene | 95.1 | ug/Kg |
| Xylenes (total) | 6830 | ug/Kg |

Semivolatile Organic Fuels
Volatile Fuels
Volatile GC/MS

Client Sample ID: **Base-Test Pit**
 Lab Sample ID: 1195630013

Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Diesel Range Organics | 75.2 | mg/Kg |

Detectable Results Summary

Client Sample ID: **St-1-7**
 Lab Sample ID: 1195630014

Metals by ICP/MS

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------|---------------|--------------|
| Lead | 15.3 | mg/Kg |
| Tetrachloroethene | 156 | ug/Kg |

Client Sample ID: **St-1-16**
 Lab Sample ID: 1195630015

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-----------------------|---------------|--------------|
| Lead | 16.0 | mg/Kg |
| Diesel Range Organics | 24.6 | mg/Kg |
| Tetrachloroethene | 33.6 | ug/Kg |

Client Sample ID: **St-1-22**
 Lab Sample ID: 1195630016

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Lead | 11.1 | mg/Kg |
| Diesel Range Organics | 74.0 | mg/Kg |
| Gasoline Range Organics | 2.16 | mg/Kg |
| 1,2,4-Trimethylbenzene | 136 | ug/Kg |
| 1,3,5-Trimethylbenzene | 131 | ug/Kg |
| n-Propylbenzene | 22.2 | ug/Kg |
| o-Xylene | 75.6 | ug/Kg |
| P & M -Xylene | 54.5 | ug/Kg |
| sec-Butylbenzene | 20.9 | ug/Kg |
| Tetrachloroethene | 95.9 | ug/Kg |
| Xylenes (total) | 130 | ug/Kg |

Client Sample ID: **St-1-5**
 Lab Sample ID: 1195630017

Metals by ICP/MS

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------|---------------|--------------|
| Lead | 10.8 | mg/Kg |
| Tetrachloroethene | 107 | ug/Kg |

Client Sample ID: **Con-St-1**
 Lab Sample ID: 1195630018

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Lead | 4.37 | mg/Kg |
| Diesel Range Organics | 1010 | mg/Kg |
| Gasoline Range Organics | 13.2 | mg/Kg |
| 1,2,4-Trimethylbenzene | 442 | ug/Kg |
| 1,3,5-Trimethylbenzene | 763 | ug/Kg |
| 4-Isopropyltoluene | 171 | ug/Kg |
| Naphthalene | 88.0 | ug/Kg |
| o-Xylene | 149 | ug/Kg |
| Tetrachloroethene | 18.3 | ug/Kg |
| Xylenes (total) | 163 | ug/Kg |

Detectable Results Summary

Client Sample ID: **Con-St-7**

Lab Sample ID: 1195630019

Metals by ICP/MS

Semivolatile Organic Fuels

Volatile Fuels

Volatile GC/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------|---------------|--------------|
| Lead | 12.5 | mg/Kg |
| Diesel Range Organics | 182 | mg/Kg |
| Gasoline Range Organics | 5.13 | mg/Kg |
| 1,2,4-Trimethylbenzene | 396 | ug/Kg |
| 1,3,5-Trimethylbenzene | 325 | ug/Kg |
| 4-Isopropyltoluene | 258 | ug/Kg |
| Naphthalene | 50.3 | ug/Kg |
| n-Propylbenzene | 40.5 | ug/Kg |
| o-Xylene | 65.0 | ug/Kg |
| sec-Butylbenzene | 69.2 | ug/Kg |
| Tetrachloroethene | 35.6 | ug/Kg |
| Xylenes (total) | 107 | ug/Kg |

Print Date: 10/25/2019 4:15:16PM



Results of Gas-Disp-02

Client Sample ID: **Gas-Disp-02**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 21.8 | 0.199 | 0.0618 | mg/Kg | 10 | | 09/26/19 19:37 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:37
Container ID: 1195630001-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.084 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-02

Client Sample ID: **Gas-Disp-02**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 91.9 | 21.5 | 6.65 | mg/Kg | 1 | | 10/02/19 19:17 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 89.2 | 50-150 | | % | 1 | | 10/02/19 19:17 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 19:17
Container ID: 1195630001-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.224 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-02

Client Sample ID: **Gas-Disp-02**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.83 U | 1.83 | 0.549 | mg/Kg | 1 | | 10/03/19 16:30 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 98.5 | 50-150 | | % | 1 | | 10/03/19 16:30 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 16:30
Container ID: 1195630001-B

Prep Batch: VXX35005
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:16
Prep Initial Wt./Vol.: 94.823 g
Prep Extract Vol: 32.084 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-02

Client Sample ID: Gas-Disp-02
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-02

Client Sample ID: Gas-Disp-02
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-02

Client Sample ID: **Gas-Disp-02**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630001
Lab Project ID: 1195630

Collection Date: 09/17/19 08:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):92.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 16:27
Container ID: 1195630001-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:16
Prep Initial Wt./Vol.: 94.823 g
Prep Extract Vol: 32.084 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-01

Client Sample ID: **Gas-Disp-01**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630002
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):89.8
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 14.2 | 0.213 | 0.0660 | mg/Kg | 10 | | 09/26/19 19:42 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:42
Container ID: 1195630002-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.046 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-01

Client Sample ID: **Gas-Disp-01**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630002
 Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):89.8
 Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 2930 | | 87.7 | 27.2 | mg/Kg | 4 | | 10/03/19 02:38 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 105 | | 50-150 | | % | 4 | | 10/03/19 02:38 |

Batch Information

Analytical Batch: XFC15361
 Analytical Method: AK102
 Analyst: CMS
 Analytical Date/Time: 10/03/19 02:38
 Container ID: 1195630002-A

Prep Batch: XXX42347
 Prep Method: SW3550C
 Prep Date/Time: 09/26/19 17:33
 Prep Initial Wt./Vol.: 30.478 g
 Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-01

Client Sample ID: **Gas-Disp-01**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630002
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):89.8
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.29 U | 2.29 | 0.687 | mg/Kg | 1 | | 10/03/19 16:47 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 89.6 | 50-150 | | % | 1 | | 10/03/19 16:47 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 16:47
Container ID: 1195630002-B

Prep Batch: VXX35005
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:05
Prep Initial Wt./Vol.: 80.864 g
Prep Extract Vol: 33.2633 mL

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-01

Client Sample ID: Gas-Disp-01
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630002
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):89.8
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of Gas-Disp-01

Client Sample ID: **Gas-Disp-01**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630002
 Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):89.8
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 183 U | 183 | 56.8 | ug/Kg | 1 | | 09/24/19 16:43 |
| Chloroform | 1.83 U | 1.83 | 0.568 | ug/Kg | 1 | | 09/24/19 16:43 |
| Chloromethane | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| cis-1,2-Dichloroethene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| cis-1,3-Dichloropropene | 11.5 U | 11.5 | 3.57 | ug/Kg | 1 | | 09/24/19 16:43 |
| Dibromochloromethane | 1.83 U | 1.83 | 0.568 | ug/Kg | 1 | | 09/24/19 16:43 |
| Dibromomethane | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| Dichlorodifluoromethane | 45.8 U | 45.8 | 13.7 | ug/Kg | 1 | | 09/24/19 16:43 |
| Ethylbenzene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| Freon-113 | 91.6 U | 91.6 | 28.4 | ug/Kg | 1 | | 09/24/19 16:43 |
| Hexachlorobutadiene | 18.3 U | 18.3 | 5.68 | ug/Kg | 1 | | 09/24/19 16:43 |
| Isopropylbenzene (Cumene) | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| Methylene chloride | 91.6 U | 91.6 | 28.4 | ug/Kg | 1 | | 09/24/19 16:43 |
| Methyl-t-butyl ether | 91.6 U | 91.6 | 28.4 | ug/Kg | 1 | | 09/24/19 16:43 |
| Naphthalene | 46.5 | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| n-Butylbenzene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| n-Propylbenzene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| o-Xylene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| P & M -Xylene | 45.8 U | 45.8 | 13.7 | ug/Kg | 1 | | 09/24/19 16:43 |
| sec-Butylbenzene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| Styrene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| tert-Butylbenzene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| Tetrachloroethene | 17.0 | 11.5 | 3.57 | ug/Kg | 1 | | 09/24/19 16:43 |
| Toluene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| trans-1,2-Dichloroethene | 22.9 U | 22.9 | 7.15 | ug/Kg | 1 | | 09/24/19 16:43 |
| trans-1,3-Dichloropropene | 11.5 U | 11.5 | 3.57 | ug/Kg | 1 | | 09/24/19 16:43 |
| Trichloroethene | 4.58 U | 4.58 | 1.37 | ug/Kg | 1 | | 09/24/19 16:43 |
| Trichlorofluoromethane | 45.8 U | 45.8 | 13.7 | ug/Kg | 1 | | 09/24/19 16:43 |
| Vinyl acetate | 91.6 U | 91.6 | 28.4 | ug/Kg | 1 | | 09/24/19 16:43 |
| Vinyl chloride | 0.733 U | 0.733 | 0.229 | ug/Kg | 1 | | 09/24/19 16:43 |
| Xylenes (total) | 68.7 U | 68.7 | 20.9 | ug/Kg | 1 | | 09/24/19 16:43 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 117 | 71-136 | | % | 1 | | 09/24/19 16:43 |
| 4-Bromofluorobenzene (surr) | 126 | 55-151 | | % | 1 | | 09/24/19 16:43 |
| Toluene-d8 (surr) | 99.2 | 85-116 | | % | 1 | | 09/24/19 16:43 |

Print Date: 10/25/2019 4:15:17PM

Results of Gas-Disp-01

Client Sample ID: **Gas-Disp-01**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630002
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):89.8
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 16:43
Container ID: 1195630002-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:05
Prep Initial Wt./Vol.: 80.864 g
Prep Extract Vol: 33.2633 mL

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630003
Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.9
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 1.46 | 0.188 | 0.0583 | mg/Kg | 10 | | 09/26/19 19:47 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:47
Container ID: 1195630003-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.097 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630003
Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.9
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable</u> <u>Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-----------------------------------|----------------------|
| Diesel Range Organics | 5000 | | 81.9 | 25.4 | mg/Kg | 4 | | 10/03/19 02:28 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 130 | | 50-150 | | % | 4 | | 10/03/19 02:28 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/03/19 02:28
Container ID: 1195630003-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.228 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630003
Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.9
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable</u> <u>Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-----------------------------------|----------------------|
| Gasoline Range Organics | 28.5 | | 1.46 | 0.439 | mg/Kg | 1 | | 10/03/19 17:05 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 549 | * | 50-150 | | % | 1 | | 10/03/19 17:05 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 17:05
Container ID: 1195630003-C

Prep Batch: VXX35005
Prep Method: SW5035A
Prep Date/Time: 09/17/19 09:45
Prep Initial Wt./Vol.: 98.748 g
Prep Extract Vol: 28.0244 mL

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630003
 Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):96.9
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 117 U | 117 | 36.3 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1,1-Trichloroethane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1,2,2-Tetrachloroethane | 11.7 U | 11.7 | 3.63 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1,2-Trichloroethane | 4.68 U | 4.68 | 1.46 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1-Dichloroethane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1-Dichloroethene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,1-Dichloropropene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2,3-Trichlorobenzene | 293 U | 293 | 87.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2,3-Trichloropropane | 5.86 U | 5.86 | 1.82 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2,4-Trichlorobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2,4-Trimethylbenzene | 293 U | 293 | 87.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2-Dibromo-3-chloropropane | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2-Dibromoethane | 5.86 U | 5.86 | 1.82 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2-Dichlorobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2-Dichloroethane | 11.7 U | 11.7 | 3.63 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,2-Dichloropropane | 58.6 U | 58.6 | 18.2 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,3,5-Trimethylbenzene | 820 | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,3-Dichlorobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,3-Dichloropropane | 58.6 U | 58.6 | 18.2 | ug/Kg | 10 | | 09/24/19 19:25 |
| 1,4-Dichlorobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 2,2-Dichloropropane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 2-Butanone (MEK) | 1460 U | 1460 | 457 | ug/Kg | 10 | | 09/24/19 19:25 |
| 2-Chlorotoluene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 2-Hexanone | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| 4-Chlorotoluene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| 4-Isopropyltoluene | 586 U | 586 | 146 | ug/Kg | 10 | | 09/24/19 19:25 |
| 4-Methyl-2-pentanone (MIBK) | 1460 U | 1460 | 457 | ug/Kg | 10 | | 09/24/19 19:25 |
| Acetone | 1460 U | 1460 | 457 | ug/Kg | 10 | | 09/24/19 19:25 |
| Benzene | 73.2 U | 73.2 | 22.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Bromobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Bromochloromethane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Bromodichloromethane | 11.7 U | 11.7 | 3.63 | ug/Kg | 10 | | 09/24/19 19:25 |
| Bromoform | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Bromomethane | 117 U | 117 | 36.3 | ug/Kg | 10 | | 09/24/19 19:25 |
| Carbon disulfide | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| Carbon tetrachloride | 73.2 U | 73.2 | 22.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Chlorobenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630003
 Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):96.9
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 1170 U | 1170 | 363 | ug/Kg | 10 | | 09/24/19 19:25 |
| Chloroform | 11.7 U | 11.7 | 3.63 | ug/Kg | 10 | | 09/24/19 19:25 |
| Chloromethane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| cis-1,2-Dichloroethene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| cis-1,3-Dichloropropene | 73.2 U | 73.2 | 22.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Dibromochloromethane | 11.7 U | 11.7 | 3.63 | ug/Kg | 10 | | 09/24/19 19:25 |
| Dibromomethane | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Dichlorodifluoromethane | 293 U | 293 | 87.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Ethylbenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Freon-113 | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| Hexachlorobutadiene | 117 U | 117 | 36.3 | ug/Kg | 10 | | 09/24/19 19:25 |
| Isopropylbenzene (Cumene) | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Methylene chloride | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| Methyl-t-butyl ether | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| Naphthalene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| n-Butylbenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| n-Propylbenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| o-Xylene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| P & M -Xylene | 293 U | 293 | 87.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| sec-Butylbenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Styrene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| tert-Butylbenzene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| Tetrachloroethene | 79.0 | 73.2 | 22.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Toluene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| trans-1,2-Dichloroethene | 146 U | 146 | 45.7 | ug/Kg | 10 | | 09/24/19 19:25 |
| trans-1,3-Dichloropropene | 73.2 U | 73.2 | 22.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Trichloroethene | 29.3 U | 29.3 | 8.78 | ug/Kg | 10 | | 09/24/19 19:25 |
| Trichlorofluoromethane | 293 U | 293 | 87.8 | ug/Kg | 10 | | 09/24/19 19:25 |
| Vinyl acetate | 586 U | 586 | 182 | ug/Kg | 10 | | 09/24/19 19:25 |
| Vinyl chloride | 4.68 U | 4.68 | 1.46 | ug/Kg | 10 | | 09/24/19 19:25 |
| Xylenes (total) | 439 U | 439 | 134 | ug/Kg | 10 | | 09/24/19 19:25 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 103 | 71-136 | | % | 10 | | 09/24/19 19:25 |
| 4-Bromofluorobenzene (surr) | 234 * | 55-151 | | % | 10 | | 09/24/19 19:25 |
| Toluene-d8 (surr) | 102 | 85-116 | | % | 10 | | 09/24/19 19:25 |

Print Date: 10/25/2019 4:15:17PM



Results of Sump-1

Client Sample ID: **Sump-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630003
Lab Project ID: 1195630

Collection Date: 09/17/19 09:45
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.9
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 19:25
Container ID: 1195630003-C

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 09:45
Prep Initial Wt./Vol.: 98.748 g
Prep Extract Vol: 28.0244 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-1

Client Sample ID: **EX-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 33.7 | 0.208 | 0.0645 | mg/Kg | 10 | | 09/26/19 19:51 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:51
Container ID: 1195630004-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.063 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 33.3 | | 22.1 | 6.84 | mg/Kg | 1 | | 10/02/19 19:27 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 89.9 | | 50-150 | | % | 1 | | 10/02/19 19:27 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 19:27
Container ID: 1195630004-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.064 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by **Volatile Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.15 U | 2.15 | 0.644 | mg/Kg | 1 | | 10/03/19 17:40 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 107 | 50-150 | | % | 1 | | 10/03/19 17:40 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 17:40
Container ID: 1195630004-B

Prep Batch: VXX35005
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:16
Prep Initial Wt./Vol.: 85.417 g
Prep Extract Vol: 33.1543 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-1

Client Sample ID: EX-1
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of EX-1

Client Sample ID: EX-1
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical parameters like Chloroethane, Chloroform, etc., with their respective values and analysis dates.

Print Date: 10/25/2019 4:15:17PM



Results of **EX-1**

Client Sample ID: **EX-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630004
Lab Project ID: 1195630

Collection Date: 09/17/19 16:16
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):90.5
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 17:00
Container ID: 1195630004-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:16
Prep Initial Wt./Vol.: 85.417 g
Prep Extract Vol: 33.1543 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-9

Client Sample ID: **EX-9**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 11.2 | 0.197 | 0.0611 | mg/Kg | 10 | | 09/26/19 19:56 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:56
Container ID: 1195630005-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.076 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-9

Client Sample ID: EX-9
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Analytical Batch: XMS11756
Analytical Method: 8270D SIM (PAH)
Analyst: DSD
Analytical Date/Time: 09/29/19 23:41
Container ID: 1195630005-A

Prep Batch: XXX42341
Prep Method: SW3550C
Prep Date/Time: 09/25/19 20:53
Prep Initial Wt./Vol.: 22.706 g
Prep Extract Vol: 5 mL



Results of EX-9

Client Sample ID: **EX-9**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 91.3 | | 21.1 | 6.53 | mg/Kg | 1 | | 10/02/19 19:37 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 89.3 | | 50-150 | | % | 1 | | 10/02/19 19:37 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 19:37
Container ID: 1195630005-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.188 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM

Results of EX-9

Client Sample ID: **EX-9**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630005
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):94.3
 Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.61 U | 1.61 | 0.483 | mg/Kg | 1 | | 10/03/19 17:58 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 93 | 50-150 | | % | 1 | | 10/03/19 17:58 |

Batch Information

Analytical Batch: VFC14972
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 10/03/19 17:58
 Container ID: 1195630005-C

Prep Batch: VXX35005
 Prep Method: SW5035A
 Prep Date/Time: 09/17/19 16:20
 Prep Initial Wt./Vol.: 101.426 g
 Prep Extract Vol: 30.7845 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-9

Client Sample ID: EX-9
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of EX-9

Client Sample ID: EX-9
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of **EX-9**

Client Sample ID: **EX-9**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 17:16
Container ID: 1195630005-C

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:20
Prep Initial Wt./Vol.: 101.426 g
Prep Extract Vol: 30.7845 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-9**

Client Sample ID: **EX-9**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630005
Lab Project ID: 1195630

Collection Date: 09/17/19 16:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by **Volatile-SIM**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.0805 U | 0.0805 | 0.0200 | ug/Kg | 1 | | 09/29/19 23:19 |

Surrogates

| | | | | | | | |
|-----------------------------|------|--------|--|---|---|--|----------------|
| 4-Bromofluorobenzene (surr) | 92.1 | 55-151 | | % | 1 | | 09/29/19 23:19 |
| Toluene-d8 (surr) | 96.3 | 85-116 | | % | 1 | | 09/29/19 23:19 |

Batch Information

Analytical Batch: VMS19503
Analytical Method: SW8260C-SIM
Analyst: NRB
Analytical Date/Time: 09/29/19 23:19
Container ID: 1195630005-C

Prep Batch: VXX34979
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:20
Prep Initial Wt./Vol.: 101.426 g
Prep Extract Vol: 30.7845 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 10.9 | 0.196 | 0.0607 | mg/Kg | 10 | | 09/26/19 20:01 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 20:01
Container ID: 1195630006-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.076 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: EX-19
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their detection results.

Batch Information

Analytical Batch: XMS11756
Analytical Method: 8270D SIM (PAH)
Analyst: DSD
Analytical Date/Time: 09/30/19 00:02
Container ID: 1195630006-A

Prep Batch: XXX42341
Prep Method: SW3550C
Prep Date/Time: 09/25/19 20:53
Prep Initial Wt./Vol.: 22.955 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 63.6 | | 20.7 | 6.43 | mg/Kg | 1 | | 10/02/19 19:47 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 84.7 | | 50-150 | | % | 1 | | 10/02/19 19:47 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 19:47
Container ID: 1195630006-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.493 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.70 U | 1.70 | 0.509 | mg/Kg | 1 | | 10/03/19 18:15 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 88.4 | 50-150 | | % | 1 | | 10/03/19 18:15 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 18:15
Container ID: 1195630006-C

Prep Batch: VXX35005
Prep Method: SW5035A
Prep Date/Time: 09/17/19 19:20
Prep Initial Wt./Vol.: 92.102 g
Prep Extract Vol: 29.6668 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: EX-19
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630006
 Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):94.9
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 136 U | 136 | 42.1 | ug/Kg | 1 | | 09/24/19 17:32 |
| Chloroform | 1.36 U | 1.36 | 0.421 | ug/Kg | 1 | | 09/24/19 17:32 |
| Chloromethane | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| cis-1,2-Dichloroethene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| cis-1,3-Dichloropropene | 8.48 U | 8.48 | 2.65 | ug/Kg | 1 | | 09/24/19 17:32 |
| Dibromochloromethane | 1.36 U | 1.36 | 0.421 | ug/Kg | 1 | | 09/24/19 17:32 |
| Dibromomethane | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| Dichlorodifluoromethane | 33.9 U | 33.9 | 10.2 | ug/Kg | 1 | | 09/24/19 17:32 |
| Ethylbenzene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| Freon-113 | 67.9 U | 67.9 | 21.0 | ug/Kg | 1 | | 09/24/19 17:32 |
| Hexachlorobutadiene | 13.6 U | 13.6 | 4.21 | ug/Kg | 1 | | 09/24/19 17:32 |
| Isopropylbenzene (Cumene) | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| Methylene chloride | 67.9 U | 67.9 | 21.0 | ug/Kg | 1 | | 09/24/19 17:32 |
| Methyl-t-butyl ether | 67.9 U | 67.9 | 21.0 | ug/Kg | 1 | | 09/24/19 17:32 |
| Naphthalene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| n-Butylbenzene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| n-Propylbenzene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| o-Xylene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| P & M -Xylene | 33.9 U | 33.9 | 10.2 | ug/Kg | 1 | | 09/24/19 17:32 |
| sec-Butylbenzene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| Styrene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| tert-Butylbenzene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| Tetrachloroethene | 8.48 U | 8.48 | 2.65 | ug/Kg | 1 | | 09/24/19 17:32 |
| Toluene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| trans-1,2-Dichloroethene | 17.0 U | 17.0 | 5.29 | ug/Kg | 1 | | 09/24/19 17:32 |
| trans-1,3-Dichloropropene | 8.48 U | 8.48 | 2.65 | ug/Kg | 1 | | 09/24/19 17:32 |
| Trichloroethene | 3.39 U | 3.39 | 1.02 | ug/Kg | 1 | | 09/24/19 17:32 |
| Trichlorofluoromethane | 33.9 U | 33.9 | 10.2 | ug/Kg | 1 | | 09/24/19 17:32 |
| Vinyl acetate | 67.9 U | 67.9 | 21.0 | ug/Kg | 1 | | 09/24/19 17:32 |
| Vinyl chloride | 0.543 U | 0.543 | 0.170 | ug/Kg | 1 | | 09/24/19 17:32 |
| Xylenes (total) | 50.9 U | 50.9 | 15.5 | ug/Kg | 1 | | 09/24/19 17:32 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 110 | 71-136 | | % | 1 | | 09/24/19 17:32 |
| 4-Bromofluorobenzene (surr) | 118 | 55-151 | | % | 1 | | 09/24/19 17:32 |
| Toluene-d8 (surr) | 99.9 | 85-116 | | % | 1 | | 09/24/19 17:32 |

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 17:32
Container ID: 1195630006-C

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 19:20
Prep Initial Wt./Vol.: 92.102 g
Prep Extract Vol: 29.6668 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-19

Client Sample ID: **EX-19**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630006
Lab Project ID: 1195630

Collection Date: 09/17/19 19:20
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.9
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.0848 U | 0.0848 | 0.0210 | ug/Kg | 1 | | 09/29/19 23:34 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 89.6 | 55-151 | | % | 1 | | 09/29/19 23:34 |
| Toluene-d8 (surr) | 98.3 | 85-116 | | % | 1 | | 09/29/19 23:34 |

Batch Information

Analytical Batch: VMS19503
Analytical Method: SW8260C-SIM
Analyst: NRB
Analytical Date/Time: 09/29/19 23:34
Container ID: 1195630006-C

Prep Batch: VXX34979
Prep Method: SW5035A
Prep Date/Time: 09/17/19 19:20
Prep Initial Wt./Vol.: 92.102 g
Prep Extract Vol: 29.6668 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-12

Client Sample ID: **EX-12**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630007
Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.0
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 5.61 | 0.195 | 0.0604 | mg/Kg | 10 | | 09/26/19 18:46 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 18:46
Container ID: 1195630007-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.08 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-12

Client Sample ID: EX-12
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630007
Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.0
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 48.9 | 20.9 | 6.49 | mg/Kg | 1 | | 10/02/19 19:57 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 88.1 | 50-150 | | % | 1 | | 10/02/19 19:57 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 19:57
Container ID: 1195630007-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.154 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-12**

Client Sample ID: **EX-12**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630007
Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.0
Location:

Results by **Volatile Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.89 U | 1.89 | 0.568 | mg/Kg | 1 | | 10/04/19 00:06 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 90.2 | 50-150 | | % | 1 | | 10/04/19 00:06 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 00:06
Container ID: 1195630007-B

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:25
Prep Initial Wt./Vol.: 80.759 g
Prep Extract Vol: 29.0441 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-12

Client Sample ID: **EX-12**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630007
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):95.0
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 15.1 U | 15.1 | 4.69 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1,1-Trichloroethane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1,2,2-Tetrachloroethane | 1.51 U | 1.51 | 0.469 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1,2-Trichloroethane | 0.606 U | 0.606 | 0.189 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1-Dichloroethane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1-Dichloroethene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,1-Dichloropropene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2,3-Trichlorobenzene | 37.9 U | 37.9 | 11.4 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2,3-Trichloropropane | 0.757 U | 0.757 | 0.235 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2,4-Trichlorobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2,4-Trimethylbenzene | 37.9 U | 37.9 | 11.4 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2-Dibromo-3-chloropropane | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2-Dibromoethane | 0.757 U | 0.757 | 0.235 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2-Dichlorobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2-Dichloroethane | 1.51 U | 1.51 | 0.469 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,2-Dichloropropane | 7.57 U | 7.57 | 2.35 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,3,5-Trimethylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,3-Dichlorobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,3-Dichloropropane | 7.57 U | 7.57 | 2.35 | ug/Kg | 1 | | 09/24/19 17:48 |
| 1,4-Dichlorobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 2,2-Dichloropropane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 2-Butanone (MEK) | 189 U | 189 | 59.1 | ug/Kg | 1 | | 09/24/19 17:48 |
| 2-Chlorotoluene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 2-Hexanone | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| 4-Chlorotoluene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| 4-Isopropyltoluene | 75.7 U | 75.7 | 18.9 | ug/Kg | 1 | | 09/24/19 17:48 |
| 4-Methyl-2-pentanone (MIBK) | 189 U | 189 | 59.1 | ug/Kg | 1 | | 09/24/19 17:48 |
| Acetone | 189 U | 189 | 59.1 | ug/Kg | 1 | | 09/24/19 17:48 |
| Benzene | 9.46 U | 9.46 | 2.95 | ug/Kg | 1 | | 09/24/19 17:48 |
| Bromobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Bromochloromethane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Bromodichloromethane | 1.51 U | 1.51 | 0.469 | ug/Kg | 1 | | 09/24/19 17:48 |
| Bromoform | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Bromomethane | 15.1 U | 15.1 | 4.69 | ug/Kg | 1 | | 09/24/19 17:48 |
| Carbon disulfide | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| Carbon tetrachloride | 9.46 U | 9.46 | 2.95 | ug/Kg | 1 | | 09/24/19 17:48 |
| Chlorobenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |

Print Date: 10/25/2019 4:15:17PM



Results of EX-12

Client Sample ID: **EX-12**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630007
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):95.0
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 151 U | 151 | 46.9 | ug/Kg | 1 | | 09/24/19 17:48 |
| Chloroform | 1.51 U | 1.51 | 0.469 | ug/Kg | 1 | | 09/24/19 17:48 |
| Chloromethane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| cis-1,2-Dichloroethene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| cis-1,3-Dichloropropene | 9.46 U | 9.46 | 2.95 | ug/Kg | 1 | | 09/24/19 17:48 |
| Dibromochloromethane | 1.51 U | 1.51 | 0.469 | ug/Kg | 1 | | 09/24/19 17:48 |
| Dibromomethane | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Dichlorodifluoromethane | 37.9 U | 37.9 | 11.4 | ug/Kg | 1 | | 09/24/19 17:48 |
| Ethylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Freon-113 | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| Hexachlorobutadiene | 15.1 U | 15.1 | 4.69 | ug/Kg | 1 | | 09/24/19 17:48 |
| Isopropylbenzene (Cumene) | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Methylene chloride | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| Methyl-t-butyl ether | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| Naphthalene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| n-Butylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| n-Propylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| o-Xylene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| P & M -Xylene | 37.9 U | 37.9 | 11.4 | ug/Kg | 1 | | 09/24/19 17:48 |
| sec-Butylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Styrene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| tert-Butylbenzene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| Tetrachloroethene | 15.0 | 9.46 | 2.95 | ug/Kg | 1 | | 09/24/19 17:48 |
| Toluene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| trans-1,2-Dichloroethene | 18.9 U | 18.9 | 5.91 | ug/Kg | 1 | | 09/24/19 17:48 |
| trans-1,3-Dichloropropene | 9.46 U | 9.46 | 2.95 | ug/Kg | 1 | | 09/24/19 17:48 |
| Trichloroethene | 3.79 U | 3.79 | 1.14 | ug/Kg | 1 | | 09/24/19 17:48 |
| Trichlorofluoromethane | 37.9 U | 37.9 | 11.4 | ug/Kg | 1 | | 09/24/19 17:48 |
| Vinyl acetate | 75.7 U | 75.7 | 23.5 | ug/Kg | 1 | | 09/24/19 17:48 |
| Vinyl chloride | 0.606 U | 0.606 | 0.189 | ug/Kg | 1 | | 09/24/19 17:48 |
| Xylenes (total) | 56.8 U | 56.8 | 17.3 | ug/Kg | 1 | | 09/24/19 17:48 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 111 | 71-136 | | % | 1 | | 09/24/19 17:48 |
| 4-Bromofluorobenzene (surr) | 125 | 55-151 | | % | 1 | | 09/24/19 17:48 |
| Toluene-d8 (surr) | 99.4 | 85-116 | | % | 1 | | 09/24/19 17:48 |

Print Date: 10/25/2019 4:15:17PM



Results of EX-12

Client Sample ID: **EX-12**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630007
Lab Project ID: 1195630

Collection Date: 09/17/19 16:25
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.0
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 17:48
Container ID: 1195630007-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:25
Prep Initial Wt./Vol.: 80.759 g
Prep Extract Vol: 29.0441 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-14

Client Sample ID: **EX-14**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 1.51 | 0.194 | 0.0602 | mg/Kg | 10 | | 09/26/19 18:50 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 18:50
Container ID: 1195630008-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.055 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-14**

Client Sample ID: **EX-14**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 31.6 | | 20.5 | 6.35 | mg/Kg | 1 | | 10/02/19 20:07 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 87.9 | | 50-150 | | % | 1 | | 10/02/19 20:07 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 20:07
Container ID: 1195630008-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.052 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of **EX-14**

Client Sample ID: **EX-14**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by **Volatile Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.54 U | 1.54 | 0.463 | mg/Kg | 1 | | 10/04/19 00:24 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 89.3 | 50-150 | | % | 1 | | 10/04/19 00:24 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 00:24
Container ID: 1195630008-B

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:35
Prep Initial Wt./Vol.: 90.373 g
Prep Extract Vol: 27.2204 mL

Print Date: 10/25/2019 4:15:17PM



Results of EX-14

Client Sample ID: EX-14
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of EX-14

Client Sample ID: EX-14
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of EX-14

Client Sample ID: **EX-14**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630008
Lab Project ID: 1195630

Collection Date: 09/17/19 16:35
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):97.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 18:04
Container ID: 1195630008-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:35
Prep Initial Wt./Vol.: 90.373 g
Prep Extract Vol: 27.2204 mL

Print Date: 10/25/2019 4:15:17PM



Results of SSW-1

Client Sample ID: **SSW-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630011
Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 31.0 | 0.207 | 0.0642 | mg/Kg | 10 | | 09/26/19 18:55 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 18:55
Container ID: 1195630011-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.039 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **SSW-1**

Client Sample ID: **SSW-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630011
Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Polynuclear Aromatics GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|--------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1-Methylnaphthalene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| 2-Methylnaphthalene | 65.7 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Acenaphthene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Acenaphthylene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Anthracene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Benzo(a)Anthracene | 45.6 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Benzo[a]pyrene | 56.5 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Benzo[b]Fluoranthene | 67.6 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Benzo[g,h,i]perylene | 60.5 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Benzo[k]fluoranthene | 26.1 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Chrysene | 56.8 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Dibenzo[a,h]anthracene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Fluoranthene | 97.0 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Fluorene | 24.2 U | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Indeno[1,2,3-c,d] pyrene | 47.6 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Naphthalene | 19.3 U | 19.3 | 4.83 | ug/Kg | 1 | | 09/30/19 01:04 |
| Phenanthrene | 69.7 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Pyrene | 93.8 | 24.2 | 6.04 | ug/Kg | 1 | | 09/30/19 01:04 |
| Surrogates | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | 83.9 | 58-103 | | % | 1 | | 09/30/19 01:04 |
| Fluoranthene-d10 (surr) | 73.8 | 54-113 | | % | 1 | | 09/30/19 01:04 |

Batch Information

Analytical Batch: XMS11756
Analytical Method: 8270D SIM (PAH)
Analyst: DSD
Analytical Date/Time: 09/30/19 01:04
Container ID: 1195630011-A

Prep Batch: XXX42341
Prep Method: SW3550C
Prep Date/Time: 09/25/19 20:53
Prep Initial Wt./Vol.: 25.034 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of SSW-1

Client Sample ID: **SSW-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630011
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.0
 Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 693 | 21.4 | 6.62 | mg/Kg | 1 | | 10/02/19 20:17 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 93.3 | 50-150 | | % | 1 | | 10/02/19 20:17 |

Batch Information

Analytical Batch: XFC15361
 Analytical Method: AK102
 Analyst: CMS
 Analytical Date/Time: 10/02/19 20:17
 Container ID: 1195630011-A

Prep Batch: XXX42347
 Prep Method: SW3550C
 Prep Date/Time: 09/26/19 17:33
 Prep Initial Wt./Vol.: 30.189 g
 Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM

Results of SSW-1

Client Sample ID: **SSW-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630011
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.0
 Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 51.3 | | 1.83 | 0.549 | mg/Kg | 1 | | 10/04/19 00:41 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 1220 | * | 50-150 | | % | 1 | | 10/04/19 00:41 |

Batch Information

Analytical Batch: VFC14972
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 10/04/19 00:41
 Container ID: 1195630011-B

Prep Batch: VXX35006
 Prep Method: SW5035A
 Prep Date/Time: 09/17/19 16:52
 Prep Initial Wt./Vol.: 92.44 g
 Prep Extract Vol: 31.4523 mL

Print Date: 10/25/2019 4:15:17PM



Results of **SSW-1**

Client Sample ID: **SSW-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630011
Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 73.2 U | 73.2 | 22.7 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1,1-Trichloroethane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1,2,2-Tetrachloroethane | 7.32 U | 7.32 | 2.27 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1,2-Trichloroethane | 2.93 U | 2.93 | 0.914 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1-Dichloroethane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1-Dichloroethene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,1-Dichloropropene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2,3-Trichlorobenzene | 183 U | 183 | 54.9 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2,3-Trichloropropane | 3.66 U | 3.66 | 1.13 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2,4-Trichlorobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2,4-Trimethylbenzene | 5720 | 366 | 110 | ug/Kg | 10 | | 09/27/19 18:33 |
| 1,2-Dibromo-3-chloropropane | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2-Dibromoethane | 3.66 U | 3.66 | 1.13 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2-Dichlorobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2-Dichloroethane | 7.32 U | 7.32 | 2.27 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,2-Dichloropropane | 36.6 U | 36.6 | 11.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,3,5-Trimethylbenzene | 5570 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,3-Dichlorobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,3-Dichloropropane | 36.6 U | 36.6 | 11.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| 1,4-Dichlorobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 2,2-Dichloropropane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 2-Butanone (MEK) | 914 U | 914 | 285 | ug/Kg | 5 | | 09/25/19 22:19 |
| 2-Chlorotoluene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 2-Hexanone | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| 4-Chlorotoluene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| 4-Isopropyltoluene | 3490 | 366 | 91.4 | ug/Kg | 5 | | 09/25/19 22:19 |
| 4-Methyl-2-pentanone (MIBK) | 914 U | 914 | 285 | ug/Kg | 5 | | 09/25/19 22:19 |
| Acetone | 914 U | 914 | 285 | ug/Kg | 5 | | 09/25/19 22:19 |
| Benzene | 45.7 U | 45.7 | 14.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| Bromobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Bromochloromethane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Bromodichloromethane | 7.32 U | 7.32 | 2.27 | ug/Kg | 5 | | 09/25/19 22:19 |
| Bromoform | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Bromomethane | 73.2 U | 73.2 | 22.7 | ug/Kg | 5 | | 09/25/19 22:19 |
| Carbon disulfide | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| Carbon tetrachloride | 45.7 U | 45.7 | 14.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| Chlorobenzene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |

Print Date: 10/25/2019 4:15:17PM



Results of SSW-1

Client Sample ID: **SSW-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630011
 Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.0
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 732 U | 732 | 227 | ug/Kg | 5 | | 09/25/19 22:19 |
| Chloroform | 14.6 U | 14.6 | 4.54 | ug/Kg | 10 | | 09/27/19 18:33 |
| Chloromethane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| cis-1,2-Dichloroethene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| cis-1,3-Dichloropropene | 45.7 U | 45.7 | 14.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| Dibromochloromethane | 7.32 U | 7.32 | 2.27 | ug/Kg | 5 | | 09/25/19 22:19 |
| Dibromomethane | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Dichlorodifluoromethane | 183 U | 183 | 54.9 | ug/Kg | 5 | | 09/25/19 22:19 |
| Ethylbenzene | 347 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Freon-113 | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| Hexachlorobutadiene | 73.2 U | 73.2 | 22.7 | ug/Kg | 5 | | 09/25/19 22:19 |
| Isopropylbenzene (Cumene) | 1100 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Methylene chloride | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| Methyl-t-butyl ether | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| Naphthalene | 388 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| n-Butylbenzene | 2170 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| n-Propylbenzene | 2350 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| o-Xylene | 3410 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| P & M -Xylene | 3420 | 183 | 54.9 | ug/Kg | 5 | | 09/25/19 22:19 |
| sec-Butylbenzene | 1610 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Styrene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| tert-Butylbenzene | 95.1 | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| Tetrachloroethene | 45.7 U | 45.7 | 14.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| Toluene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| trans-1,2-Dichloroethene | 91.4 U | 91.4 | 28.5 | ug/Kg | 5 | | 09/25/19 22:19 |
| trans-1,3-Dichloropropene | 45.7 U | 45.7 | 14.3 | ug/Kg | 5 | | 09/25/19 22:19 |
| Trichloroethene | 18.3 U | 18.3 | 5.49 | ug/Kg | 5 | | 09/25/19 22:19 |
| Trichlorofluoromethane | 183 U | 183 | 54.9 | ug/Kg | 5 | | 09/25/19 22:19 |
| Vinyl acetate | 366 U | 366 | 113 | ug/Kg | 5 | | 09/25/19 22:19 |
| Vinyl chloride | 2.93 U | 2.93 | 0.914 | ug/Kg | 5 | | 09/25/19 22:19 |
| Xylenes (total) | 6830 | 274 | 83.4 | ug/Kg | 5 | | 09/25/19 22:19 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 109 | | 71-136 | % | 5 | | 09/25/19 22:19 |
| 4-Bromofluorobenzene (surr) | 318 | * | 55-151 | % | 5 | | 09/25/19 22:19 |
| Toluene-d8 (surr) | 96 | | 85-116 | % | 5 | | 09/25/19 22:19 |

Print Date: 10/25/2019 4:15:17PM



Results of **SSW-1**

Client Sample ID: **SSW-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630011
Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Volatile GC/MS**

Batch Information

Analytical Batch: VMS19499
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/27/19 18:33
Container ID: 1195630011-B

Prep Batch: VXX34974
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:52
Prep Initial Wt./Vol.: 92.44 g
Prep Extract Vol: 31.4523 mL

Analytical Batch: VMS19497
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/25/19 22:19
Container ID: 1195630011-B

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:52
Prep Initial Wt./Vol.: 92.44 g
Prep Extract Vol: 31.4523 mL

Print Date: 10/25/2019 4:15:17PM



Results of **SSW-1**

Client Sample ID: **SSW-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630011
Lab Project ID: 1195630

Collection Date: 09/17/19 16:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Volatile-SIM**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.366 U | 0.366 | 0.0907 | ug/Kg | 4 | | 09/30/19 00:50 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 166 * | 55-151 | | % | 4 | | 09/30/19 00:50 |
| Toluene-d8 (surr) | 92.9 | 85-116 | | % | 4 | | 09/30/19 00:50 |

Batch Information

Analytical Batch: VMS19503
Analytical Method: SW8260C-SIM
Analyst: NRB
Analytical Date/Time: 09/30/19 00:50
Container ID: 1195630011-B

Prep Batch: VXX34979
Prep Method: SW5035A
Prep Date/Time: 09/17/19 16:52
Prep Initial Wt./Vol.: 92.44 g
Prep Extract Vol: 31.4523 mL

Print Date: 10/25/2019 4:15:17PM



Results of Base-Test Pit

Client Sample ID: **Base-Test Pit**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630013
Lab Project ID: 1195630

Collection Date: 09/17/19 17:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.3
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 75.2 | | 20.9 | 6.48 | mg/Kg | 1 | | 10/02/19 20:27 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 93.9 | | 50-150 | | % | 1 | | 10/02/19 20:27 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 20:27
Container ID: 1195630013-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.44 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of St-1-7

Client Sample ID: **St-1-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630014
Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 15.3 | 0.212 | 0.0657 | mg/Kg | 10 | | 09/26/19 19:00 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:00
Container ID: 1195630014-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.015 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-7**

Client Sample ID: **St-1-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630014
Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 21.2 U | 21.2 | 6.57 | mg/Kg | 1 | | 10/02/19 20:37 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 88 | 50-150 | | % | 1 | | 10/02/19 20:37 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 20:37
Container ID: 1195630014-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.425 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-7**

Client Sample ID: **St-1-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630014
Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Volatile Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 1.99 U | 1.99 | 0.596 | mg/Kg | 1 | | 10/04/19 00:59 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 115 | 50-150 | | % | 1 | | 10/04/19 00:59 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 00:59
Container ID: 1195630014-B

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:02
Prep Initial Wt./Vol.: 83.465 g
Prep Extract Vol: 30.8421 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-7**

Client Sample ID: **St-1-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630014
Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1-Trichloroethane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1-Dichloroethane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2,3-Trichlorobenzene | 39.7 U | 39.7 | 11.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2,4-Trimethylbenzene | 39.7 U | 39.7 | 11.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2-Dichlorobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2-Dichloroethane | 1.59 U | 1.59 | 0.493 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2-Dichloropropane | 7.95 U | 7.95 | 2.46 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,3,5-Trimethylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1,1,2-Tetrachloroethane | 15.9 U | 15.9 | 4.93 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1,2,2-Tetrachloroethane | 1.59 U | 1.59 | 0.493 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1,2-Trichloroethane | 0.636 U | 0.636 | 0.199 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2-Dibromo-3-chloropropane | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1-Dichloroethene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,1-Dichloropropene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2-Dibromoethane | 0.795 U | 0.795 | 0.246 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2,3-Trichloropropane | 0.795 U | 0.795 | 0.246 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,2,4-Trichlorobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,3-Dichlorobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,3-Dichloropropane | 7.95 U | 7.95 | 2.46 | ug/Kg | 1 | | 09/25/19 21:49 |
| 1,4-Dichlorobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 2,2-Dichloropropane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 2-Butanone (MEK) | 199 U | 199 | 62.0 | ug/Kg | 1 | | 09/25/19 21:49 |
| 2-Chlorotoluene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 2-Hexanone | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| 4-Chlorotoluene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| 4-Isopropyltoluene | 79.5 U | 79.5 | 19.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| 4-Methyl-2-pentanone (MIBK) | 199 U | 199 | 62.0 | ug/Kg | 1 | | 09/25/19 21:49 |
| Acetone | 199 U | 199 | 62.0 | ug/Kg | 1 | | 09/25/19 21:49 |
| Benzene | 9.93 U | 9.93 | 3.10 | ug/Kg | 1 | | 09/25/19 21:49 |
| Bromobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Bromochloromethane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Bromodichloromethane | 1.59 U | 1.59 | 0.493 | ug/Kg | 1 | | 09/25/19 21:49 |
| Bromoform | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Bromomethane | 15.9 U | 15.9 | 4.93 | ug/Kg | 1 | | 09/25/19 21:49 |
| Carbon disulfide | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| Carbon tetrachloride | 9.93 U | 9.93 | 3.10 | ug/Kg | 1 | | 09/25/19 21:49 |
| Chlorobenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |

Print Date: 10/25/2019 4:15:17PM



Results of St-1-7

Client Sample ID: **St-1-7**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630014
 Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.0
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 159 U | 159 | 49.3 | ug/Kg | 1 | | 09/25/19 21:49 |
| Chloroform | 1.59 U | 1.59 | 0.493 | ug/Kg | 1 | | 09/27/19 16:08 |
| Chloromethane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| cis-1,2-Dichloroethene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| cis-1,3-Dichloropropene | 9.93 U | 9.93 | 3.10 | ug/Kg | 1 | | 09/25/19 21:49 |
| Dibromochloromethane | 1.59 U | 1.59 | 0.493 | ug/Kg | 1 | | 09/25/19 21:49 |
| Dibromomethane | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Dichlorodifluoromethane | 39.7 U | 39.7 | 11.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| Ethylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Freon-113 | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| Hexachlorobutadiene | 15.9 U | 15.9 | 4.93 | ug/Kg | 1 | | 09/25/19 21:49 |
| Isopropylbenzene (Cumene) | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Methylene chloride | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| Methyl-t-butyl ether | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| Naphthalene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| n-Butylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| n-Propylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| o-Xylene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| P & M -Xylene | 39.7 U | 39.7 | 11.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| sec-Butylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Styrene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| tert-Butylbenzene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| Tetrachloroethene | 156 | 9.93 | 3.10 | ug/Kg | 1 | | 09/25/19 21:49 |
| Toluene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| trans-1,2-Dichloroethene | 19.9 U | 19.9 | 6.20 | ug/Kg | 1 | | 09/25/19 21:49 |
| trans-1,3-Dichloropropene | 9.93 U | 9.93 | 3.10 | ug/Kg | 1 | | 09/25/19 21:49 |
| Trichloroethene | 3.97 U | 3.97 | 1.19 | ug/Kg | 1 | | 09/25/19 21:49 |
| Trichlorofluoromethane | 39.7 U | 39.7 | 11.9 | ug/Kg | 1 | | 09/25/19 21:49 |
| Vinyl acetate | 79.5 U | 79.5 | 24.6 | ug/Kg | 1 | | 09/25/19 21:49 |
| Vinyl chloride | 0.636 U | 0.636 | 0.199 | ug/Kg | 1 | | 09/25/19 21:49 |
| Xylenes (total) | 59.6 U | 59.6 | 18.1 | ug/Kg | 1 | | 09/25/19 21:49 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 113 | 71-136 | | % | 1 | | 09/25/19 21:49 |
| 4-Bromofluorobenzene (surr) | 111 | 55-151 | | % | 1 | | 09/25/19 21:49 |
| Toluene-d8 (surr) | 96.5 | 85-116 | | % | 1 | | 09/25/19 21:49 |

Print Date: 10/25/2019 4:15:17PM

Results of St-1-7

Client Sample ID: **St-1-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630014
Lab Project ID: 1195630

Collection Date: 09/18/19 09:02
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.0
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19499
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/27/19 16:08
Container ID: 1195630014-B

Prep Batch: VXX34974
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:02
Prep Initial Wt./Vol.: 83.465 g
Prep Extract Vol: 30.8421 mL

Analytical Batch: VMS19497
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/25/19 21:49
Container ID: 1195630014-B

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:02
Prep Initial Wt./Vol.: 83.465 g
Prep Extract Vol: 30.8421 mL

Print Date: 10/25/2019 4:15:17PM



Results of St-1-16

Client Sample ID: **St-1-16**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630015
Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.4
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 16.0 | 0.197 | 0.0611 | mg/Kg | 10 | | 09/26/19 19:04 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:04
Container ID: 1195630015-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.075 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-16**

Client Sample ID: **St-1-16**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630015
Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.4
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 24.6 | | 21.1 | 6.55 | mg/Kg | 1 | | 10/02/19 20:47 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 89.8 | | 50-150 | | % | 1 | | 10/02/19 20:47 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 20:47
Container ID: 1195630015-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.088 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of St-1-16

Client Sample ID: **St-1-16**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630015
Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.4
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.06 U | 2.06 | 0.619 | mg/Kg | 1 | | 10/04/19 01:17 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 91.1 | 50-150 | | % | 1 | | 10/04/19 01:17 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 01:17
Container ID: 1195630015-B

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:19
Prep Initial Wt./Vol.: 75.051 g
Prep Extract Vol: 29.2257 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-16**

Client Sample ID: **St-1-16**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630015
Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.4
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 16.5 U | 16.5 | 5.12 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1,1-Trichloroethane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1,2,2-Tetrachloroethane | 1.65 U | 1.65 | 0.512 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1,2-Trichloroethane | 0.660 U | 0.660 | 0.206 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1-Dichloroethane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1-Dichloroethene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,1-Dichloropropene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2,3-Trichlorobenzene | 41.3 U | 41.3 | 12.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2,3-Trichloropropane | 0.825 U | 0.825 | 0.256 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2,4-Trichlorobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2,4-Trimethylbenzene | 41.3 U | 41.3 | 12.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2-Dibromo-3-chloropropane | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2-Dibromoethane | 0.825 U | 0.825 | 0.256 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2-Dichlorobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2-Dichloroethane | 1.65 U | 1.65 | 0.512 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,2-Dichloropropane | 8.25 U | 8.25 | 2.56 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,3,5-Trimethylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,3-Dichlorobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,3-Dichloropropane | 8.25 U | 8.25 | 2.56 | ug/Kg | 1 | | 09/24/19 18:53 |
| 1,4-Dichlorobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 2,2-Dichloropropane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 2-Butanone (MEK) | 206 U | 206 | 64.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| 2-Chlorotoluene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 2-Hexanone | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| 4-Chlorotoluene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| 4-Isopropyltoluene | 82.5 U | 82.5 | 20.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| 4-Methyl-2-pentanone (MIBK) | 206 U | 206 | 64.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| Acetone | 206 U | 206 | 64.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| Benzene | 10.3 U | 10.3 | 3.22 | ug/Kg | 1 | | 09/24/19 18:53 |
| Bromobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Bromochloromethane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Bromodichloromethane | 1.65 U | 1.65 | 0.512 | ug/Kg | 1 | | 09/24/19 18:53 |
| Bromoform | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Bromomethane | 16.5 U | 16.5 | 5.12 | ug/Kg | 1 | | 09/24/19 18:53 |
| Carbon disulfide | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| Carbon tetrachloride | 10.3 U | 10.3 | 3.22 | ug/Kg | 1 | | 09/24/19 18:53 |
| Chlorobenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |

Print Date: 10/25/2019 4:15:17PM



Results of St-1-16

Client Sample ID: **St-1-16**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630015
 Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):94.4
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 165 U | 165 | 51.2 | ug/Kg | 1 | | 09/24/19 18:53 |
| Chloroform | 1.65 U | 1.65 | 0.512 | ug/Kg | 1 | | 09/24/19 18:53 |
| Chloromethane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| cis-1,2-Dichloroethene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| cis-1,3-Dichloropropene | 10.3 U | 10.3 | 3.22 | ug/Kg | 1 | | 09/24/19 18:53 |
| Dibromochloromethane | 1.65 U | 1.65 | 0.512 | ug/Kg | 1 | | 09/24/19 18:53 |
| Dibromomethane | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Dichlorodifluoromethane | 41.3 U | 41.3 | 12.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| Ethylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Freon-113 | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| Hexachlorobutadiene | 16.5 U | 16.5 | 5.12 | ug/Kg | 1 | | 09/24/19 18:53 |
| Isopropylbenzene (Cumene) | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Methylene chloride | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| Methyl-t-butyl ether | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| Naphthalene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| n-Butylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| n-Propylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| o-Xylene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| P & M -Xylene | 41.3 U | 41.3 | 12.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| sec-Butylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Styrene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| tert-Butylbenzene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| Tetrachloroethene | 33.6 | 10.3 | 3.22 | ug/Kg | 1 | | 09/24/19 18:53 |
| Toluene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| trans-1,2-Dichloroethene | 20.6 U | 20.6 | 6.44 | ug/Kg | 1 | | 09/24/19 18:53 |
| trans-1,3-Dichloropropene | 10.3 U | 10.3 | 3.22 | ug/Kg | 1 | | 09/24/19 18:53 |
| Trichloroethene | 4.13 U | 4.13 | 1.24 | ug/Kg | 1 | | 09/24/19 18:53 |
| Trichlorofluoromethane | 41.3 U | 41.3 | 12.4 | ug/Kg | 1 | | 09/24/19 18:53 |
| Vinyl acetate | 82.5 U | 82.5 | 25.6 | ug/Kg | 1 | | 09/24/19 18:53 |
| Vinyl chloride | 0.660 U | 0.660 | 0.206 | ug/Kg | 1 | | 09/24/19 18:53 |
| Xylenes (total) | 61.9 U | 61.9 | 18.8 | ug/Kg | 1 | | 09/24/19 18:53 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 113 | 71-136 | | % | 1 | | 09/24/19 18:53 |
| 4-Bromofluorobenzene (surr) | 130 | 55-151 | | % | 1 | | 09/24/19 18:53 |
| Toluene-d8 (surr) | 99.3 | 85-116 | | % | 1 | | 09/24/19 18:53 |

Print Date: 10/25/2019 4:15:17PM

Results of St-1-16

Client Sample ID: **St-1-16**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630015
Lab Project ID: 1195630

Collection Date: 09/18/19 09:19
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):94.4
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 18:53
Container ID: 1195630015-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:19
Prep Initial Wt./Vol.: 75.051 g
Prep Extract Vol: 29.2257 mL

Print Date: 10/25/2019 4:15:17PM



Results of St-1-22

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 11.1 | 0.204 | 0.0634 | mg/Kg | 10 | | 09/26/19 19:09 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:09
Container ID: 1195630016-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.028 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-22**

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 74.0 | | 20.8 | 6.46 | mg/Kg | 1 | | 10/02/19 20:56 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 90 | | 50-150 | | % | 1 | | 10/02/19 20:56 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 20:56
Container ID: 1195630016-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.254 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-22**

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by **Volatile Fuels**

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.16 | | 1.50 | 0.450 | mg/Kg | 1 | | 10/04/19 01:34 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 150 | | 50-150 | | % | 1 | | 10/04/19 01:34 |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 01:34
Container ID: 1195630016-B

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:30
Prep Initial Wt./Vol.: 105.263 g
Prep Extract Vol: 30.0639 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-22**

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 12.0 U | 12.0 | 3.72 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1,1-Trichloroethane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1,2,2-Tetrachloroethane | 1.20 U | 1.20 | 0.372 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1,2-Trichloroethane | 0.480 U | 0.480 | 0.150 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1-Dichloroethane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1-Dichloroethene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,1-Dichloropropene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2,3-Trichlorobenzene | 30.0 U | 30.0 | 9.00 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2,3-Trichloropropane | 0.600 U | 0.600 | 0.186 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2,4-Trichlorobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2,4-Trimethylbenzene | 136 | 30.0 | 9.00 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2-Dibromo-3-chloropropane | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2-Dibromoethane | 0.600 U | 0.600 | 0.186 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2-Dichlorobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2-Dichloroethane | 1.20 U | 1.20 | 0.372 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,2-Dichloropropane | 6.00 U | 6.00 | 1.86 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,3,5-Trimethylbenzene | 131 | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,3-Dichlorobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,3-Dichloropropane | 6.00 U | 6.00 | 1.86 | ug/Kg | 1 | | 09/24/19 19:09 |
| 1,4-Dichlorobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 2,2-Dichloropropane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 2-Butanone (MEK) | 150 U | 150 | 46.8 | ug/Kg | 1 | | 09/24/19 19:09 |
| 2-Chlorotoluene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 2-Hexanone | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| 4-Chlorotoluene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| 4-Isopropyltoluene | 60.0 U | 60.0 | 15.0 | ug/Kg | 1 | | 09/24/19 19:09 |
| 4-Methyl-2-pentanone (MIBK) | 150 U | 150 | 46.8 | ug/Kg | 1 | | 09/24/19 19:09 |
| Acetone | 150 U | 150 | 46.8 | ug/Kg | 1 | | 09/24/19 19:09 |
| Benzene | 7.50 U | 7.50 | 2.34 | ug/Kg | 1 | | 09/24/19 19:09 |
| Bromobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Bromochloromethane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Bromodichloromethane | 1.20 U | 1.20 | 0.372 | ug/Kg | 1 | | 09/24/19 19:09 |
| Bromoform | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Bromomethane | 12.0 U | 12.0 | 3.72 | ug/Kg | 1 | | 09/24/19 19:09 |
| Carbon disulfide | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| Carbon tetrachloride | 7.50 U | 7.50 | 2.34 | ug/Kg | 1 | | 09/24/19 19:09 |
| Chlorobenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-22**

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 120 U | 120 | 37.2 | ug/Kg | 1 | | 09/24/19 19:09 |
| Chloroform | 1.20 U | 1.20 | 0.372 | ug/Kg | 1 | | 09/24/19 19:09 |
| Chloromethane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| cis-1,2-Dichloroethene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| cis-1,3-Dichloropropene | 7.50 U | 7.50 | 2.34 | ug/Kg | 1 | | 09/24/19 19:09 |
| Dibromochloromethane | 1.20 U | 1.20 | 0.372 | ug/Kg | 1 | | 09/24/19 19:09 |
| Dibromomethane | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Dichlorodifluoromethane | 30.0 U | 30.0 | 9.00 | ug/Kg | 1 | | 09/24/19 19:09 |
| Ethylbenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Freon-113 | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| Hexachlorobutadiene | 12.0 U | 12.0 | 3.72 | ug/Kg | 1 | | 09/24/19 19:09 |
| Isopropylbenzene (Cumene) | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Methylene chloride | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| Methyl-t-butyl ether | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| Naphthalene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| n-Butylbenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| n-Propylbenzene | 22.2 | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| o-Xylene | 75.6 | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| P & M -Xylene | 54.5 | 30.0 | 9.00 | ug/Kg | 1 | | 09/24/19 19:09 |
| sec-Butylbenzene | 20.9 | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Styrene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| tert-Butylbenzene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| Tetrachloroethene | 95.9 | 7.50 | 2.34 | ug/Kg | 1 | | 09/24/19 19:09 |
| Toluene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| trans-1,2-Dichloroethene | 15.0 U | 15.0 | 4.68 | ug/Kg | 1 | | 09/24/19 19:09 |
| trans-1,3-Dichloropropene | 7.50 U | 7.50 | 2.34 | ug/Kg | 1 | | 09/24/19 19:09 |
| Trichloroethene | 3.00 U | 3.00 | 0.900 | ug/Kg | 1 | | 09/24/19 19:09 |
| Trichlorofluoromethane | 30.0 U | 30.0 | 9.00 | ug/Kg | 1 | | 09/24/19 19:09 |
| Vinyl acetate | 60.0 U | 60.0 | 18.6 | ug/Kg | 1 | | 09/24/19 19:09 |
| Vinyl chloride | 0.480 U | 0.480 | 0.150 | ug/Kg | 1 | | 09/24/19 19:09 |
| Xylenes (total) | 130 | 45.0 | 13.7 | ug/Kg | 1 | | 09/24/19 19:09 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 112 | 71-136 | | % | 1 | | 09/24/19 19:09 |
| 4-Bromofluorobenzene (surr) | 139 | 55-151 | | % | 1 | | 09/24/19 19:09 |
| Toluene-d8 (surr) | 98.8 | 85-116 | | % | 1 | | 09/24/19 19:09 |

Print Date: 10/25/2019 4:15:17PM

Results of St-1-22

Client Sample ID: **St-1-22**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630016
Lab Project ID: 1195630

Collection Date: 09/18/19 09:30
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):95.2
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 19:09
Container ID: 1195630016-B

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/18/19 09:30
Prep Initial Wt./Vol.: 105.263 g
Prep Extract Vol: 30.0639 mL

Print Date: 10/25/2019 4:15:17PM



Results of St-1-5

Client Sample ID: **St-1-5**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630017
Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.5
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 10.8 | 0.203 | 0.0630 | mg/Kg | 10 | | 09/26/19 19:23 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:23
Container ID: 1195630017-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.053 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-5**

Client Sample ID: **St-1-5**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630017
Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.5
Location:

Results by **Semivolatile Organic Fuels**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 21.4 U | 21.4 | 6.62 | mg/Kg | 1 | | 10/02/19 21:07 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 89.2 | 50-150 | | % | 1 | | 10/02/19 21:07 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 21:07
Container ID: 1195630017-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.056 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM

Results of St-1-5

Client Sample ID: **St-1-5**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630017
 Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.5
 Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.22 U | 2.22 | 0.666 | mg/Kg | 1 | | 10/04/19 01:52 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 91.8 | 50-150 | | % | 1 | | 10/04/19 01:52 |

Batch Information

Analytical Batch: VFC14972
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 10/04/19 01:52
 Container ID: 1195630017-B

Prep Batch: VXX35006
 Prep Method: SW5035A
 Prep Date/Time: 09/18/19 08:52
 Prep Initial Wt./Vol.: 71.511 g
 Prep Extract Vol: 29.6654 mL

Print Date: 10/25/2019 4:15:17PM



Results of **St-1-5**

Client Sample ID: **St-1-5**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630017
Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.5
Location:

Results by **Volatile GC/MS**

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 17.8 U | 17.8 | 5.50 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1,1-Trichloroethane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1,2,2-Tetrachloroethane | 1.78 U | 1.78 | 0.550 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1,2-Trichloroethane | 0.710 U | 0.710 | 0.222 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1-Dichloroethane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1-Dichloroethene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,1-Dichloropropene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2,3-Trichlorobenzene | 44.4 U | 44.4 | 13.3 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2,3-Trichloropropane | 0.888 U | 0.888 | 0.275 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2,4-Trichlorobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2,4-Trimethylbenzene | 44.4 U | 44.4 | 13.3 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2-Dibromo-3-chloropropane | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2-Dibromoethane | 0.888 U | 0.888 | 0.275 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2-Dichlorobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2-Dichloroethane | 1.78 U | 1.78 | 0.550 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,2-Dichloropropane | 8.88 U | 8.88 | 2.75 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,3,5-Trimethylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,3-Dichlorobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,3-Dichloropropane | 8.88 U | 8.88 | 2.75 | ug/Kg | 1 | | 09/25/19 22:50 |
| 1,4-Dichlorobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 2,2-Dichloropropane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 2-Butanone (MEK) | 222 U | 222 | 69.2 | ug/Kg | 1 | | 09/25/19 22:50 |
| 2-Chlorotoluene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 2-Hexanone | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| 4-Chlorotoluene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| 4-Isopropyltoluene | 88.8 U | 88.8 | 22.2 | ug/Kg | 1 | | 09/25/19 22:50 |
| 4-Methyl-2-pentanone (MIBK) | 222 U | 222 | 69.2 | ug/Kg | 1 | | 09/25/19 22:50 |
| Acetone | 222 U | 222 | 69.2 | ug/Kg | 1 | | 09/25/19 22:50 |
| Benzene | 11.1 U | 11.1 | 3.46 | ug/Kg | 1 | | 09/25/19 22:50 |
| Bromobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Bromochloromethane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Bromodichloromethane | 1.78 U | 1.78 | 0.550 | ug/Kg | 1 | | 09/25/19 22:50 |
| Bromoform | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Bromomethane | 17.8 U | 17.8 | 5.50 | ug/Kg | 1 | | 09/25/19 22:50 |
| Carbon disulfide | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| Carbon tetrachloride | 11.1 U | 11.1 | 3.46 | ug/Kg | 1 | | 09/25/19 22:50 |
| Chlorobenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |

Print Date: 10/25/2019 4:15:17PM



Results of St-1-5

Client Sample ID: **St-1-5**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630017
 Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.5
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 178 U | 178 | 55.0 | ug/Kg | 1 | | 09/25/19 22:50 |
| Chloroform | 1.78 U | 1.78 | 0.550 | ug/Kg | 1 | | 09/27/19 17:45 |
| Chloromethane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| cis-1,2-Dichloroethene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| cis-1,3-Dichloropropene | 11.1 U | 11.1 | 3.46 | ug/Kg | 1 | | 09/25/19 22:50 |
| Dibromochloromethane | 1.78 U | 1.78 | 0.550 | ug/Kg | 1 | | 09/25/19 22:50 |
| Dibromomethane | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Dichlorodifluoromethane | 44.4 U | 44.4 | 13.3 | ug/Kg | 1 | | 09/25/19 22:50 |
| Ethylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Freon-113 | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| Hexachlorobutadiene | 17.8 U | 17.8 | 5.50 | ug/Kg | 1 | | 09/25/19 22:50 |
| Isopropylbenzene (Cumene) | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Methylene chloride | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| Methyl-t-butyl ether | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| Naphthalene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| n-Butylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| n-Propylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| o-Xylene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| P & M -Xylene | 44.4 U | 44.4 | 13.3 | ug/Kg | 1 | | 09/25/19 22:50 |
| sec-Butylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Styrene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| tert-Butylbenzene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| Tetrachloroethene | 107 | 11.1 | 3.46 | ug/Kg | 1 | | 09/25/19 22:50 |
| Toluene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| trans-1,2-Dichloroethene | 22.2 U | 22.2 | 6.92 | ug/Kg | 1 | | 09/25/19 22:50 |
| trans-1,3-Dichloropropene | 11.1 U | 11.1 | 3.46 | ug/Kg | 1 | | 09/25/19 22:50 |
| Trichloroethene | 4.44 U | 4.44 | 1.33 | ug/Kg | 1 | | 09/25/19 22:50 |
| Trichlorofluoromethane | 44.4 U | 44.4 | 13.3 | ug/Kg | 1 | | 09/25/19 22:50 |
| Vinyl acetate | 88.8 U | 88.8 | 27.5 | ug/Kg | 1 | | 09/25/19 22:50 |
| Vinyl chloride | 0.710 U | 0.710 | 0.222 | ug/Kg | 1 | | 09/25/19 22:50 |
| Xylenes (total) | 66.6 U | 66.6 | 20.2 | ug/Kg | 1 | | 09/25/19 22:50 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 111 | 71-136 | | % | 1 | | 09/25/19 22:50 |
| 4-Bromofluorobenzene (surr) | 112 | 55-151 | | % | 1 | | 09/25/19 22:50 |
| Toluene-d8 (surr) | 96.7 | 85-116 | | % | 1 | | 09/25/19 22:50 |

Print Date: 10/25/2019 4:15:17PM



Results of St-1-5

Client Sample ID: **St-1-5**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630017
Lab Project ID: 1195630

Collection Date: 09/18/19 08:52
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.5
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19499
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/27/19 17:45
Container ID: 1195630017-B

Prep Batch: VXX34974
Prep Method: SW5035A
Prep Date/Time: 09/18/19 08:52
Prep Initial Wt./Vol.: 71.511 g
Prep Extract Vol: 29.6654 mL

Analytical Batch: VMS19497
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/25/19 22:50
Container ID: 1195630017-B

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 09/18/19 08:52
Prep Initial Wt./Vol.: 71.511 g
Prep Extract Vol: 29.6654 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-1

Client Sample ID: **Con-St-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630018
Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 4.37 | 0.197 | 0.0612 | mg/Kg | 10 | | 09/26/19 19:28 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:28
Container ID: 1195630018-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.054 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-1

Client Sample ID: **Con-St-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630018
Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 1010 | 20.7 | 6.42 | mg/Kg | 1 | | 10/02/19 21:16 |
| Surrogates | | | | | | | |
| 5a Androstane (surr) | 96.2 | 50-150 | | % | 1 | | 10/02/19 21:16 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 21:16
Container ID: 1195630018-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.158 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM

Results of Con-St-1

Client Sample ID: **Con-St-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630018
 Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):96.1
 Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 13.2 | | 1.52 | 0.457 | mg/Kg | 1 | | 10/04/19 02:10 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 156 | * | 50-150 | | % | 1 | | 10/04/19 02:10 |

Batch Information

Analytical Batch: VFC14972
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 10/04/19 02:10
 Container ID: 1195630018-B

Prep Batch: VXX35006
 Prep Method: SW5035A
 Prep Date/Time: 09/18/19 10:37
 Prep Initial Wt./Vol.: 98.641 g
 Prep Extract Vol: 28.853 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-1

Client Sample ID: **Con-St-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630018
 Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):96.1
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 12.2 U | 12.2 | 3.77 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1,1-Trichloroethane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1,2,2-Tetrachloroethane | 1.22 U | 1.22 | 0.377 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1,2-Trichloroethane | 0.487 U | 0.487 | 0.152 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1-Dichloroethane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1-Dichloroethene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,1-Dichloropropene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2,3-Trichlorobenzene | 30.4 U | 30.4 | 9.13 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2,3-Trichloropropane | 0.609 U | 0.609 | 0.189 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2,4-Trichlorobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2,4-Trimethylbenzene | 442 | 30.4 | 9.13 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2-Dibromo-3-chloropropane | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2-Dibromoethane | 0.609 U | 0.609 | 0.189 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2-Dichlorobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2-Dichloroethane | 1.22 U | 1.22 | 0.377 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,2-Dichloropropane | 6.09 U | 6.09 | 1.89 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,3,5-Trimethylbenzene | 763 | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,3-Dichlorobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,3-Dichloropropane | 6.09 U | 6.09 | 1.89 | ug/Kg | 1 | | 09/25/19 23:05 |
| 1,4-Dichlorobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 2,2-Dichloropropane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 2-Butanone (MEK) | 152 U | 152 | 47.5 | ug/Kg | 1 | | 09/25/19 23:05 |
| 2-Chlorotoluene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 2-Hexanone | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| 4-Chlorotoluene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| 4-Isopropyltoluene | 171 | 60.9 | 15.2 | ug/Kg | 1 | | 09/25/19 23:05 |
| 4-Methyl-2-pentanone (MIBK) | 152 U | 152 | 47.5 | ug/Kg | 1 | | 09/25/19 23:05 |
| Acetone | 152 U | 152 | 47.5 | ug/Kg | 1 | | 09/25/19 23:05 |
| Benzene | 7.61 U | 7.61 | 2.37 | ug/Kg | 1 | | 09/25/19 23:05 |
| Bromobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Bromochloromethane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Bromodichloromethane | 1.22 U | 1.22 | 0.377 | ug/Kg | 1 | | 09/25/19 23:05 |
| Bromoform | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Bromomethane | 12.2 U | 12.2 | 3.77 | ug/Kg | 1 | | 09/25/19 23:05 |
| Carbon disulfide | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Carbon tetrachloride | 7.61 U | 7.61 | 2.37 | ug/Kg | 1 | | 09/25/19 23:05 |
| Chlorobenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-1

Client Sample ID: **Con-St-1**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630018
 Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):96.1
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 122 U | 122 | 37.7 | ug/Kg | 1 | | 09/25/19 23:05 |
| Chloroform | 1.22 U | 1.22 | 0.377 | ug/Kg | 1 | | 09/27/19 18:01 |
| Chloromethane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| cis-1,2-Dichloroethene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| cis-1,3-Dichloropropene | 7.61 U | 7.61 | 2.37 | ug/Kg | 1 | | 09/25/19 23:05 |
| Dibromochloromethane | 1.22 U | 1.22 | 0.377 | ug/Kg | 1 | | 09/25/19 23:05 |
| Dibromomethane | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Dichlorodifluoromethane | 30.4 U | 30.4 | 9.13 | ug/Kg | 1 | | 09/25/19 23:05 |
| Ethylbenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Freon-113 | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Hexachlorobutadiene | 12.2 U | 12.2 | 3.77 | ug/Kg | 1 | | 09/25/19 23:05 |
| Isopropylbenzene (Cumene) | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Methylene chloride | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Methyl-t-butyl ether | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Naphthalene | 88.0 | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| n-Butylbenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| n-Propylbenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| o-Xylene | 149 | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| P & M -Xylene | 30.4 U | 30.4 | 9.13 | ug/Kg | 1 | | 09/25/19 23:05 |
| sec-Butylbenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Styrene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| tert-Butylbenzene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| Tetrachloroethene | 18.3 | 7.61 | 2.37 | ug/Kg | 1 | | 09/25/19 23:05 |
| Toluene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| trans-1,2-Dichloroethene | 15.2 U | 15.2 | 4.75 | ug/Kg | 1 | | 09/25/19 23:05 |
| trans-1,3-Dichloropropene | 7.61 U | 7.61 | 2.37 | ug/Kg | 1 | | 09/25/19 23:05 |
| Trichloroethene | 3.04 U | 3.04 | 0.913 | ug/Kg | 1 | | 09/25/19 23:05 |
| Trichlorofluoromethane | 30.4 U | 30.4 | 9.13 | ug/Kg | 1 | | 09/25/19 23:05 |
| Vinyl acetate | 60.9 U | 60.9 | 18.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Vinyl chloride | 0.487 U | 0.487 | 0.152 | ug/Kg | 1 | | 09/25/19 23:05 |
| Xylenes (total) | 163 | 45.7 | 13.9 | ug/Kg | 1 | | 09/25/19 23:05 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 117 | 71-136 | | % | 1 | | 09/25/19 23:05 |
| 4-Bromofluorobenzene (surr) | 137 | 55-151 | | % | 1 | | 09/25/19 23:05 |
| Toluene-d8 (surr) | 96.4 | 85-116 | | % | 1 | | 09/25/19 23:05 |

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-1

Client Sample ID: **Con-St-1**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630018
Lab Project ID: 1195630

Collection Date: 09/18/19 10:37
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):96.1
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19499
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/27/19 18:01
Container ID: 1195630018-B

Prep Batch: VXX34974
Prep Method: SW5035A
Prep Date/Time: 09/18/19 10:37
Prep Initial Wt./Vol.: 98.641 g
Prep Extract Vol: 28.853 mL

Analytical Batch: VMS19497
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/25/19 23:05
Container ID: 1195630018-B

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 09/18/19 10:37
Prep Initial Wt./Vol.: 98.641 g
Prep Extract Vol: 28.853 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630019
Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.7
Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Lead | 12.5 | 0.211 | 0.0655 | mg/Kg | 10 | | 09/26/19 19:33 |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Analyst: BMZ
Analytical Date/Time: 09/26/19 19:33
Container ID: 1195630019-A

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 09/25/19 15:45
Prep Initial Wt./Vol.: 1.01 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630019
Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.7
Location:

Results by Semivolatile Organic Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Diesel Range Organics | 182 | | 21.2 | 6.56 | mg/Kg | 1 | | 10/02/19 21:26 |
| Surrogates | | | | | | | | |
| 5a Androstane (surr) | 88.7 | | 50-150 | | % | 1 | | 10/02/19 21:26 |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Analyst: CMS
Analytical Date/Time: 10/02/19 21:26
Container ID: 1195630019-A

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 09/26/19 17:33
Prep Initial Wt./Vol.: 30.261 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630019
Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.7
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|---------------|-------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 5.13 | | 2.45 | 0.736 | mg/Kg | 1 | | 10/04/19 21:42 |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (surr) | 174 | * | 50-150 | | % | 1 | | 10/04/19 21:42 |

Batch Information

Analytical Batch: VFC14973
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/04/19 21:42
Container ID: 1195630019-B

Prep Batch: VXX35018
Prep Method: SW5035A
Prep Date/Time: 09/18/19 10:43
Prep Initial Wt./Vol.: 63.141 g
Prep Extract Vol: 29.0065 mL

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630019
 Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.7
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,1,1,2-Tetrachloroethane | 19.6 U | 19.6 | 6.08 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1,1-Trichloroethane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1,2,2-Tetrachloroethane | 1.96 U | 1.96 | 0.608 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1,2-Trichloroethane | 0.785 U | 0.785 | 0.245 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1-Dichloroethane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1-Dichloroethene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,1-Dichloropropene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2,3-Trichlorobenzene | 49.1 U | 49.1 | 14.7 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2,3-Trichloropropane | 0.981 U | 0.981 | 0.304 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2,4-Trichlorobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2,4-Trimethylbenzene | 396 | 49.1 | 14.7 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2-Dibromo-3-chloropropane | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2-Dibromoethane | 0.981 U | 0.981 | 0.304 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2-Dichlorobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2-Dichloroethane | 1.96 U | 1.96 | 0.608 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,2-Dichloropropane | 9.81 U | 9.81 | 3.04 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,3,5-Trimethylbenzene | 325 | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,3-Dichlorobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,3-Dichloropropane | 9.81 U | 9.81 | 3.04 | ug/Kg | 1 | | 09/25/19 23:21 |
| 1,4-Dichlorobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 2,2-Dichloropropane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 2-Butanone (MEK) | 245 U | 245 | 76.5 | ug/Kg | 1 | | 09/25/19 23:21 |
| 2-Chlorotoluene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 2-Hexanone | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| 4-Chlorotoluene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| 4-Isopropyltoluene | 258 | 98.1 | 24.5 | ug/Kg | 1 | | 09/25/19 23:21 |
| 4-Methyl-2-pentanone (MIBK) | 245 U | 245 | 76.5 | ug/Kg | 1 | | 09/25/19 23:21 |
| Acetone | 245 U | 245 | 76.5 | ug/Kg | 1 | | 09/25/19 23:21 |
| Benzene | 12.3 U | 12.3 | 3.83 | ug/Kg | 1 | | 09/25/19 23:21 |
| Bromobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Bromochloromethane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Bromodichloromethane | 1.96 U | 1.96 | 0.608 | ug/Kg | 1 | | 09/25/19 23:21 |
| Bromoform | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Bromomethane | 19.6 U | 19.6 | 6.08 | ug/Kg | 1 | | 09/25/19 23:21 |
| Carbon disulfide | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Carbon tetrachloride | 12.3 U | 12.3 | 3.83 | ug/Kg | 1 | | 09/25/19 23:21 |
| Chlorobenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630019
 Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):93.7
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 196 U | 196 | 60.8 | ug/Kg | 1 | | 09/25/19 23:21 |
| Chloroform | 1.96 U | 1.96 | 0.608 | ug/Kg | 1 | | 09/27/19 18:17 |
| Chloromethane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| cis-1,2-Dichloroethene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| cis-1,3-Dichloropropene | 12.3 U | 12.3 | 3.83 | ug/Kg | 1 | | 09/25/19 23:21 |
| Dibromochloromethane | 1.96 U | 1.96 | 0.608 | ug/Kg | 1 | | 09/25/19 23:21 |
| Dibromomethane | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Dichlorodifluoromethane | 49.1 U | 49.1 | 14.7 | ug/Kg | 1 | | 09/25/19 23:21 |
| Ethylbenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Freon-113 | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Hexachlorobutadiene | 19.6 U | 19.6 | 6.08 | ug/Kg | 1 | | 09/25/19 23:21 |
| Isopropylbenzene (Cumene) | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Methylene chloride | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Methyl-t-butyl ether | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Naphthalene | 50.3 | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| n-Butylbenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| n-Propylbenzene | 40.5 | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| o-Xylene | 65.0 | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| P & M -Xylene | 49.1 U | 49.1 | 14.7 | ug/Kg | 1 | | 09/25/19 23:21 |
| sec-Butylbenzene | 69.2 | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Styrene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| tert-Butylbenzene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| Tetrachloroethene | 35.6 | 12.3 | 3.83 | ug/Kg | 1 | | 09/25/19 23:21 |
| Toluene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| trans-1,2-Dichloroethene | 24.5 U | 24.5 | 7.65 | ug/Kg | 1 | | 09/25/19 23:21 |
| trans-1,3-Dichloropropene | 12.3 U | 12.3 | 3.83 | ug/Kg | 1 | | 09/25/19 23:21 |
| Trichloroethene | 4.91 U | 4.91 | 1.47 | ug/Kg | 1 | | 09/25/19 23:21 |
| Trichlorofluoromethane | 49.1 U | 49.1 | 14.7 | ug/Kg | 1 | | 09/25/19 23:21 |
| Vinyl acetate | 98.1 U | 98.1 | 30.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Vinyl chloride | 0.785 U | 0.785 | 0.245 | ug/Kg | 1 | | 09/25/19 23:21 |
| Xylenes (total) | 107 | 73.6 | 22.4 | ug/Kg | 1 | | 09/25/19 23:21 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 112 | 71-136 | | % | 1 | | 09/25/19 23:21 |
| 4-Bromofluorobenzene (surr) | 131 | 55-151 | | % | 1 | | 09/25/19 23:21 |
| Toluene-d8 (surr) | 96.9 | 85-116 | | % | 1 | | 09/25/19 23:21 |

Print Date: 10/25/2019 4:15:17PM



Results of Con-St-7

Client Sample ID: **Con-St-7**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630019
Lab Project ID: 1195630

Collection Date: 09/18/19 10:43
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):93.7
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19499
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/27/19 18:17
Container ID: 1195630019-B

Prep Batch: VXX34974
Prep Method: SW5035A
Prep Date/Time: 09/18/19 10:43
Prep Initial Wt./Vol.: 63.141 g
Prep Extract Vol: 29.0065 mL

Analytical Batch: VMS19497
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/25/19 23:21
Container ID: 1195630019-B

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 09/18/19 10:43
Prep Initial Wt./Vol.: 63.141 g
Prep Extract Vol: 29.0065 mL

Print Date: 10/25/2019 4:15:17PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630020
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile Fuels

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Gasoline Range Organics | 2.51 U | 2.51 | 0.752 | mg/Kg | 1 | | 10/03/19 02:02 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 90.9 | 50-150 | | % | 1 | | 10/03/19 02:02 |

Batch Information

Analytical Batch: VFC14970
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 10/03/19 02:02
Container ID: 1195630020-A

Prep Batch: VXX35000
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:05
Prep Initial Wt./Vol.: 49.864 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:17PM



Results of Trip Blank

Client Sample ID: Trip Blank
Client Project ID: 18021 UST 0204 Closure
Lab Sample ID: 1195630020
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 10/25/2019 4:15:17PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **18021 UST 0204 Closure**
 Lab Sample ID: 1195630020
 Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
 Received Date: 09/23/19 10:49
 Matrix: Soil/Solid (dry weight)
 Solids (%):
 Location:

Results by Volatile GC/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Chloroethane | 201 U | 201 | 62.2 | ug/Kg | 1 | | 09/24/19 14:18 |
| Chloroform | 2.01 U | 2.01 | 0.622 | ug/Kg | 1 | | 09/24/19 14:18 |
| Chloromethane | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| cis-1,2-Dichloroethene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| cis-1,3-Dichloropropene | 12.5 U | 12.5 | 3.91 | ug/Kg | 1 | | 09/24/19 14:18 |
| Dibromochloromethane | 2.01 U | 2.01 | 0.622 | ug/Kg | 1 | | 09/24/19 14:18 |
| Dibromomethane | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| Dichlorodifluoromethane | 50.1 U | 50.1 | 15.0 | ug/Kg | 1 | | 09/24/19 14:18 |
| Ethylbenzene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| Freon-113 | 100 U | 100 | 31.1 | ug/Kg | 1 | | 09/24/19 14:18 |
| Hexachlorobutadiene | 20.1 U | 20.1 | 6.22 | ug/Kg | 1 | | 09/24/19 14:18 |
| Isopropylbenzene (Cumene) | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| Methylene chloride | 100 U | 100 | 31.1 | ug/Kg | 1 | | 09/24/19 14:18 |
| Methyl-t-butyl ether | 100 U | 100 | 31.1 | ug/Kg | 1 | | 09/24/19 14:18 |
| Naphthalene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| n-Butylbenzene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| n-Propylbenzene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| o-Xylene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| P & M -Xylene | 50.1 U | 50.1 | 15.0 | ug/Kg | 1 | | 09/24/19 14:18 |
| sec-Butylbenzene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| Styrene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| tert-Butylbenzene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| Tetrachloroethene | 12.5 U | 12.5 | 3.91 | ug/Kg | 1 | | 09/24/19 14:18 |
| Toluene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| trans-1,2-Dichloroethene | 25.1 U | 25.1 | 7.82 | ug/Kg | 1 | | 09/24/19 14:18 |
| trans-1,3-Dichloropropene | 12.5 U | 12.5 | 3.91 | ug/Kg | 1 | | 09/24/19 14:18 |
| Trichloroethene | 5.01 U | 5.01 | 1.50 | ug/Kg | 1 | | 09/24/19 14:18 |
| Trichlorofluoromethane | 50.1 U | 50.1 | 15.0 | ug/Kg | 1 | | 09/24/19 14:18 |
| Vinyl acetate | 100 U | 100 | 31.1 | ug/Kg | 1 | | 09/24/19 14:18 |
| Vinyl chloride | 0.802 U | 0.802 | 0.251 | ug/Kg | 1 | | 09/24/19 14:18 |
| Xylenes (total) | 75.2 U | 75.2 | 22.9 | ug/Kg | 1 | | 09/24/19 14:18 |
| Surrogates | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | 107 | 71-136 | | % | 1 | | 09/24/19 14:18 |
| 4-Bromofluorobenzene (surr) | 110 | 55-151 | | % | 1 | | 09/24/19 14:18 |
| Toluene-d8 (surr) | 101 | 85-116 | | % | 1 | | 09/24/19 14:18 |

Print Date: 10/25/2019 4:15:17PM

Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630020
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile GC/MS

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Analyst: KAJ
Analytical Date/Time: 09/24/19 14:18
Container ID: 1195630020-A

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:05
Prep Initial Wt./Vol.: 49.864 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:17PM



Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **18021 UST 0204 Closure**
Lab Sample ID: 1195630020
Lab Project ID: 1195630

Collection Date: 09/17/19 08:05
Received Date: 09/23/19 10:49
Matrix: Soil/Solid (dry weight)
Solids (%):
Location:

Results by Volatile-SIM

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-----------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| 1,2-Dibromoethane | 0.125 U | 0.125 | 0.0311 | ug/Kg | 1 | | 09/29/19 23:04 |
| Surrogates | | | | | | | |
| 4-Bromofluorobenzene (surr) | 90.2 | 55-151 | | % | 1 | | 09/29/19 23:04 |
| Toluene-d8 (surr) | 95.3 | 85-116 | | % | 1 | | 09/29/19 23:04 |

Batch Information

Analytical Batch: VMS19503
Analytical Method: SW8260C-SIM
Analyst: NRB
Analytical Date/Time: 09/29/19 23:04
Container ID: 1195630020-A

Prep Batch: VXX34979
Prep Method: SW5035A
Prep Date/Time: 09/17/19 08:05
Prep Initial Wt./Vol.: 49.864 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:17PM



Method Blank

Blank ID: MB for HBN 1799970 [MXX/32843]
Blank Lab ID: 1534242

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630011, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018, 1195630019

Results by SW6020A

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Lead | 0.100U | 0.200 | 0.0620 | mg/Kg |

Batch Information

Analytical Batch: MMS10631
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: BMZ
Analytical Date/Time: 9/26/2019 5:49:45PM

Prep Batch: MXX32843
Prep Method: SW3050B
Prep Date/Time: 9/25/2019 3:45:03PM
Prep Initial Wt./Vol.: 1 g
Prep Extract Vol: 50 mL

Print Date: 10/25/2019 4:15:21PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [MXX32843]
Blank Spike Lab ID: 1534243
Date Analyzed: 09/26/2019 17:54

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007,
1195630008, 1195630011, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018,
1195630019

Results by SW6020A

| Parameter | Blank Spike (mg/Kg) | | | CL |
|-----------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Lead | 50 | 51.9 | 104 | (84-118) |

Batch Information

Analytical Batch: **MMS10631**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **BMZ**

Prep Batch: **MXX32843**
Prep Method: **SW3050B**
Prep Date/Time: **09/25/2019 15:45**
Spike Init Wt./Vol.: 50 mg/Kg Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/25/2019 4:15:22PM

Matrix Spike Summary

Original Sample ID: 1534244
 MS Sample ID: 1534245 MS
 MSD Sample ID: 1534246 MSD

Analysis Date: 09/26/2019 17:59
 Analysis Date: 09/26/2019 18:03
 Analysis Date: 09/26/2019 18:08
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007,
 1195630008, 1195630011, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018,
 1195630019

Results by SW6020A

| Parameter | Sample | Matrix Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-----------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Lead | 6.91 | 48.1 | 60.9 | 112 | 46.6 | 59.0 | 112 | 84-118 | 3.10 | (< 20) |

Batch Information

Analytical Batch: MMS10631
 Analytical Method: SW6020A
 Instrument: Perkin Elmer Nexlon P5
 Analyst: BMZ
 Analytical Date/Time: 9/26/2019 6:03:48PM

Prep Batch: MXX32843
 Prep Method: Soils/Solids Digest for Metals by ICP-MS
 Prep Date/Time: 9/25/2019 3:45:03PM
 Prep Initial Wt./Vol.: 1.04g
 Prep Extract Vol: 50.00mL



Method Blank

Blank ID: MB for HBN 1799952 [SPT/10891]
Blank Lab ID: 1534148

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630011, 1195630013, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018, 1195630019

Results by SM21 2540G

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Total Solids | 100 | | | % |

Batch Information

Analytical Batch: SPT10891
Analytical Method: SM21 2540G
Instrument:
Analyst: M.M
Analytical Date/Time: 9/24/2019 11:29:00PM

Print Date: 10/25/2019 4:15:24PM

Duplicate Sample Summary

Original Sample ID: 1195629006

Analysis Date: 09/24/2019 23:29

Duplicate Sample ID: 1534149

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630011, 1195630013, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018, 1195630019

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 89.5 | 89.4 | % | 0.12 | (< 15) |

Batch Information

Analytical Batch: SPT10891

Analytical Method: SM21 2540G

Instrument:

Analyst: M.M

Print Date: 10/25/2019 4:15:25PM

Duplicate Sample Summary

Original Sample ID: 1195640002

Analysis Date: 09/24/2019 23:29

Duplicate Sample ID: 1534150

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630011, 1195630013, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018, 1195630019

Results by SM21 2540G

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 91.0 | 91.4 | % | 0.39 | (< 15) |

Batch Information

Analytical Batch: SPT10891

Analytical Method: SM21 2540G

Instrument:

Analyst: M.M

Print Date: 10/25/2019 4:15:25PM

Method Blank

Blank ID: MB for HBN 1799972 [VXX/34961]
 Blank Lab ID: 1534256

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/Kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/Kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/Kg |
| 1,2,3-Trichloropropane | 0.500U | 1.00 | 0.310 | ug/Kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/Kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/Kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.310 | ug/Kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/Kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/Kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/Kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/Kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/Kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/Kg |
| Acetone | 125U | 250 | 78.0 | ug/Kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/Kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/Kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/Kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Chloroethane | 100U | 200 | 62.0 | ug/Kg |

Print Date: 10/25/2019 4:15:26PM

Method Blank

Blank ID: MB for HBN 1799972 [VXX/34961]
 Blank Lab ID: 1534256

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloroform | 1.00U | 2.00 | 0.620 | ug/Kg |
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Dibromochloromethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/Kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/Kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/Kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/Kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/Kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/Kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/Kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/Kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/Kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/Kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/Kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/Kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/Kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/Kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/Kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 107 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 93.6 | 55-151 | | % |
| Toluene-d8 (surr) | 101 | 85-116 | | % |



Method Blank

Blank ID: MB for HBN 1799972 [VXX/34961]
Blank Lab ID: 1534256

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS19493
Analytical Method: SW8260C
Instrument: VQA 7890/5975 GC/MS
Analyst: KAJ
Analytical Date/Time: 9/24/2019 9:33:00AM

Prep Batch: VXX34961
Prep Method: SW5035A
Prep Date/Time: 9/24/2019 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:26PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34961]

Blank Spike Lab ID: 1534257

Date Analyzed: 09/24/2019 09:49

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| Parameter | Blank Spike (ug/Kg) | | | CL |
|-----------------------------|---------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 733 | 98 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 744 | 99 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 725 | 97 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 755 | 101 | (78-121) |
| 1,1-Dichloroethane | 750 | 674 | 90 | (76-125) |
| 1,1-Dichloroethene | 750 | 701 | 93 | (70-131) |
| 1,1-Dichloropropene | 750 | 820 | 109 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 685 | 91 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 737 | 98 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 741 | 99 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 741 | 99 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 693 | 92 | (61-132) |
| 1,2-Dibromoethane | 750 | 765 | 102 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 726 | 97 | (78-121) |
| 1,2-Dichloroethane | 750 | 714 | 95 | (73-128) |
| 1,2-Dichloropropane | 750 | 746 | 99 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 719 | 96 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 750 | 100 | (77-121) |
| 1,3-Dichloropropane | 750 | 766 | 102 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 741 | 99 | (75-120) |
| 2,2-Dichloropropane | 750 | 759 | 101 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2160 | 96 | (51-148) |
| 2-Chlorotoluene | 750 | 719 | 96 | (75-122) |
| 2-Hexanone | 2250 | 2140 | 95 | (53-145) |
| 4-Chlorotoluene | 750 | 711 | 95 | (72-124) |
| 4-Isopropyltoluene | 750 | 762 | 102 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2010 | 89 | (65-135) |
| Acetone | 2250 | 2050 | 91 | (36-164) |
| Benzene | 750 | 737 | 98 | (77-121) |
| Bromobenzene | 750 | 769 | 103 | (78-121) |
| Bromochloromethane | 750 | 683 | 91 | (78-125) |
| Bromodichloromethane | 750 | 722 | 96 | (75-127) |
| Bromoform | 750 | 746 | 99 | (67-132) |
| Bromomethane | 750 | 664 | 89 | (53-143) |

Print Date: 10/25/2019 4:15:27PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34961]

Blank Spike Lab ID: 1534257

Date Analyzed: 09/24/2019 09:49

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| Parameter | Blank Spike (ug/Kg) | | | CL |
|---------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Carbon disulfide | 1130 | 1030 | 92 | (63-132) |
| Carbon tetrachloride | 750 | 773 | 103 | (70-135) |
| Chlorobenzene | 750 | 720 | 96 | (79-120) |
| Chloroethane | 750 | 675 | 90 | (59-139) |
| Chloroform | 750 | 708 | 94 | (78-123) |
| Chloromethane | 750 | 643 | 86 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 679 | 91 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 772 | 103 | (74-126) |
| Dibromochloromethane | 750 | 777 | 104 | (74-126) |
| Dibromomethane | 750 | 687 | 92 | (78-125) |
| Dichlorodifluoromethane | 750 | 610 | 81 | (29-149) |
| Ethylbenzene | 750 | 701 | 93 | (76-122) |
| Freon-113 | 1130 | 1130 | 100 | (66-136) |
| Hexachlorobutadiene | 750 | 828 | 110 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 746 | 99 | (68-134) |
| Methylene chloride | 750 | 687 | 92 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1130 | 100 | (73-125) |
| Naphthalene | 750 | 673 | 90 | (62-129) |
| n-Butylbenzene | 750 | 780 | 104 | (70-128) |
| n-Propylbenzene | 750 | 757 | 101 | (73-125) |
| o-Xylene | 750 | 710 | 95 | (77-123) |
| P & M -Xylene | 1500 | 1440 | 96 | (77-124) |
| sec-Butylbenzene | 750 | 760 | 101 | (73-126) |
| Styrene | 750 | 711 | 95 | (76-124) |
| tert-Butylbenzene | 750 | 740 | 99 | (73-125) |
| Tetrachloroethene | 750 | 825 | 110 | (73-128) |
| Toluene | 750 | 733 | 98 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 701 | 93 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 790 | 105 | (71-130) |
| Trichloroethene | 750 | 797 | 106 | (77-123) |
| Trichlorofluoromethane | 750 | 659 | 88 | (62-140) |
| Vinyl acetate | 750 | 784 | 105 | (50-151) |
| Vinyl chloride | 750 | 647 | 86 | (56-135) |
| Xylenes (total) | 2250 | 2150 | 96 | (78-124) |

Print Date: 10/25/2019 4:15:27PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34961]

Blank Spike Lab ID: 1534257

Date Analyzed: 09/24/2019 09:49

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| Parameter | Blank Spike (ug/Kg) | | | CL |
|------------------------------|---------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 96 | 96 | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 98.6 | 99 | (55-151) |
| Toluene-d8 (surr) | 750 | 102 | 102 | (85-116) |

Batch Information

Analytical Batch: **VMS19493**

Analytical Method: **SW8260C**

Instrument: **VQA 7890/5975 GC/MS**

Analyst: **KAJ**

Prep Batch: **VXX34961**

Prep Method: **SW5035A**

Prep Date/Time: **09/24/2019 06:00**

Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1195598004
 MS Sample ID: 1534526 MS
 MSD Sample ID: 1534527 MSD

Analysis Date: 09/24/2019 14:34
 Analysis Date: 09/24/2019 12:58
 Analysis Date: 09/24/2019 13:14
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630015, 1195630016, 1195630020

Results by SW8260C

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1-Dichloroethene | 14.1U | 743 | 688 | 93 | 743 | 769 | 104 | 70-131 | 11.10 | (< 20) |
| Carbon tetrachloride | 7.05U | 743 | 763 | 103 | 743 | 847 | 114 | 70-135 | 10.50 | (< 20) |
| cis-1,2-Dichloroethene | 14.1U | 743 | 678 | 91 | 743 | 753 | 101 | 77-123 | 10.60 | (< 20) |
| Tetrachloroethene | 7.05U | 743 | 816 | 110 | 743 | 882 | 119 | 73-128 | 7.60 | (< 20) |
| trans-1,2-Dichloroethene | 14.1U | 743 | 686 | 92 | 743 | 762 | 103 | 74-125 | 10.50 | (< 20) |
| Trichloroethene | 245 | 743 | 1006 | 103 | 743 | 1099 | 116 | 77-123 | 9.10 | (< 20) |
| Vinyl chloride | 0.450U | 743 | 650 | 88 | 743 | 703 | 95 | 56-135 | 7.90 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 743 | 703 | 95 | 743 | 710 | 96 | 71-136 | 0.98 | |
| 4-Bromofluorobenzene (surr) | | 1238 | 1238 | 100 | 1238 | 1419 | 115 | 55-151 | 13.70 | |
| Toluene-d8 (surr) | | 743 | 756 | 102 | 743 | 750 | 101 | 85-116 | 0.69 | |

Batch Information

Analytical Batch: VMS19493
 Analytical Method: SW8260C
 Instrument: VQA 7890/5975 GC/MS
 Analyst: KAJ
 Analytical Date/Time: 9/24/2019 12:58:00PM

Prep Batch: VXX34961
 Prep Method: Vol. Extraction SW8260 Field Extracted L
 Prep Date/Time: 9/23/2019 6:00:00AM
 Prep Initial Wt./Vol.: 53.92g
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1800055 [VXX/34970]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1534616

QC for Samples:

1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,1,1,2-Tetrachloroethane | 10.0U | 20.0 | 6.20 | ug/Kg |
| 1,1,1-Trichloroethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| 1,1,2-Trichloroethane | 0.400U | 0.800 | 0.250 | ug/Kg |
| 1,1-Dichloroethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,1-Dichloropropene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2,3-Trichlorobenzene | 25.0U | 50.0 | 15.0 | ug/Kg |
| 1,2,3-Trichloropropane | 0.500U | 1.00 | 0.310 | ug/Kg |
| 1,2,4-Trichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/Kg |
| 1,2-Dibromo-3-chloropropane | 50.0U | 100 | 31.0 | ug/Kg |
| 1,2-Dibromoethane | 0.500U | 1.00 | 0.310 | ug/Kg |
| 1,2-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,2-Dichloroethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| 1,2-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/Kg |
| 1,3,5-Trimethylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,3-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 1,3-Dichloropropane | 5.00U | 10.0 | 3.10 | ug/Kg |
| 1,4-Dichlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2,2-Dichloropropane | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2-Butanone (MEK) | 125U | 250 | 78.0 | ug/Kg |
| 2-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 2-Hexanone | 50.0U | 100 | 31.0 | ug/Kg |
| 4-Chlorotoluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| 4-Isopropyltoluene | 50.0U | 100 | 25.0 | ug/Kg |
| 4-Methyl-2-pentanone (MIBK) | 125U | 250 | 78.0 | ug/Kg |
| Acetone | 125U | 250 | 78.0 | ug/Kg |
| Benzene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Bromobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromochloromethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromodichloromethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| Bromoform | 12.5U | 25.0 | 7.80 | ug/Kg |
| Bromomethane | 10.0U | 20.0 | 6.20 | ug/Kg |
| Carbon disulfide | 50.0U | 100 | 31.0 | ug/Kg |
| Carbon tetrachloride | 6.25U | 12.5 | 3.90 | ug/Kg |
| Chlorobenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Chloroethane | 100U | 200 | 62.0 | ug/Kg |

Print Date: 10/25/2019 4:15:29PM

Method Blank

Blank ID: MB for HBN 1800055 [VXX/34970]

Blank Lab ID: 1534616

QC for Samples:

1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Matrix: Soil/Solid (dry weight)

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| Chloromethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| cis-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| cis-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Dibromochloromethane | 1.00U | 2.00 | 0.620 | ug/Kg |
| Dibromomethane | 12.5U | 25.0 | 7.80 | ug/Kg |
| Dichlorodifluoromethane | 25.0U | 50.0 | 15.0 | ug/Kg |
| Ethylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Freon-113 | 50.0U | 100 | 31.0 | ug/Kg |
| Hexachlorobutadiene | 10.0U | 20.0 | 6.20 | ug/Kg |
| Isopropylbenzene (Cumene) | 12.5U | 25.0 | 7.80 | ug/Kg |
| Methylene chloride | 50.0U | 100 | 31.0 | ug/Kg |
| Methyl-t-butyl ether | 50.0U | 100 | 31.0 | ug/Kg |
| Naphthalene | 12.5U | 25.0 | 7.80 | ug/Kg |
| n-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| n-Propylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| o-Xylene | 12.5U | 25.0 | 7.80 | ug/Kg |
| P & M -Xylene | 25.0U | 50.0 | 15.0 | ug/Kg |
| sec-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Styrene | 12.5U | 25.0 | 7.80 | ug/Kg |
| tert-Butylbenzene | 12.5U | 25.0 | 7.80 | ug/Kg |
| Tetrachloroethene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Toluene | 12.5U | 25.0 | 7.80 | ug/Kg |
| trans-1,2-Dichloroethene | 12.5U | 25.0 | 7.80 | ug/Kg |
| trans-1,3-Dichloropropene | 6.25U | 12.5 | 3.90 | ug/Kg |
| Trichloroethene | 2.50U | 5.00 | 1.50 | ug/Kg |
| Trichlorofluoromethane | 25.0U | 50.0 | 15.0 | ug/Kg |
| Vinyl acetate | 50.0U | 100 | 31.0 | ug/Kg |
| Vinyl chloride | 0.400U | 0.800 | 0.250 | ug/Kg |
| Xylenes (total) | 37.5U | 75.0 | 22.8 | ug/Kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 118 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 108 | 55-151 | | % |
| Toluene-d8 (surr) | 95.6 | 85-116 | | % |



Method Blank

Blank ID: MB for HBN 1800055 [VXX/34970]
Blank Lab ID: 1534616

Matrix: Soil/Solid (dry weight)

QC for Samples:
1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
|------------------|----------------|---------------|-----------|--------------|

Batch Information

Analytical Batch: VMS19497
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: KAJ
Analytical Date/Time: 9/25/2019 3:01:00PM

Prep Batch: VXX34970
Prep Method: SW5035A
Prep Date/Time: 9/25/2019 6:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:29PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34970]

Blank Spike Lab ID: 1534617

Date Analyzed: 09/25/2019 15:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Blank Spike (ug/Kg) | | | CL |
|-----------------------------|---------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| 1,1,1,2-Tetrachloroethane | 750 | 825 | 110 | (78-125) |
| 1,1,1-Trichloroethane | 750 | 885 | 118 | (73-130) |
| 1,1,2,2-Tetrachloroethane | 750 | 755 | 101 | (70-124) |
| 1,1,2-Trichloroethane | 750 | 807 | 108 | (78-121) |
| 1,1-Dichloroethane | 750 | 773 | 103 | (76-125) |
| 1,1-Dichloroethene | 750 | 797 | 106 | (70-131) |
| 1,1-Dichloropropene | 750 | 814 | 109 | (76-125) |
| 1,2,3-Trichlorobenzene | 750 | 763 | 102 | (66-130) |
| 1,2,3-Trichloropropane | 750 | 796 | 106 | (73-125) |
| 1,2,4-Trichlorobenzene | 750 | 756 | 101 | (67-129) |
| 1,2,4-Trimethylbenzene | 750 | 745 | 99 | (75-123) |
| 1,2-Dibromo-3-chloropropane | 750 | 913 | 122 | (61-132) |
| 1,2-Dibromoethane | 750 | 791 | 105 | (78-122) |
| 1,2-Dichlorobenzene | 750 | 745 | 99 | (78-121) |
| 1,2-Dichloroethane | 750 | 839 | 112 | (73-128) |
| 1,2-Dichloropropane | 750 | 758 | 101 | (76-123) |
| 1,3,5-Trimethylbenzene | 750 | 771 | 103 | (73-124) |
| 1,3-Dichlorobenzene | 750 | 710 | 95 | (77-121) |
| 1,3-Dichloropropane | 750 | 792 | 106 | (77-121) |
| 1,4-Dichlorobenzene | 750 | 733 | 98 | (75-120) |
| 2,2-Dichloropropane | 750 | 916 | 122 | (67-133) |
| 2-Butanone (MEK) | 2250 | 2160 | 96 | (51-148) |
| 2-Chlorotoluene | 750 | 749 | 100 | (75-122) |
| 2-Hexanone | 2250 | 2470 | 110 | (53-145) |
| 4-Chlorotoluene | 750 | 760 | 101 | (72-124) |
| 4-Isopropyltoluene | 750 | 740 | 99 | (73-127) |
| 4-Methyl-2-pentanone (MIBK) | 2250 | 2500 | 111 | (65-135) |
| Acetone | 2250 | 2080 | 93 | (36-164) |
| Benzene | 750 | 719 | 96 | (77-121) |
| Bromobenzene | 750 | 742 | 99 | (78-121) |
| Bromochloromethane | 750 | 761 | 101 | (78-125) |
| Bromodichloromethane | 750 | 821 | 109 | (75-127) |
| Bromoform | 750 | 859 | 115 | (67-132) |
| Bromomethane | 750 | 672 | 90 | (53-143) |

Print Date: 10/25/2019 4:15:30PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34970]

Blank Spike Lab ID: 1534617

Date Analyzed: 09/25/2019 15:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Blank Spike (ug/Kg) | | | CL |
|---------------------------|---------------------|--------|---------|--------------|
| | Spike | Result | Rec (%) | |
| Carbon disulfide | 1130 | 1240 | 111 | (63-132) |
| Carbon tetrachloride | 750 | 839 | 112 | (70-135) |
| Chlorobenzene | 750 | 739 | 99 | (79-120) |
| Chloroethane | 750 | 697 | 93 | (59-139) |
| Chloromethane | 750 | 693 | 92 | (50-136) |
| cis-1,2-Dichloroethene | 750 | 750 | 100 | (77-123) |
| cis-1,3-Dichloropropene | 750 | 857 | 114 | (74-126) |
| Dibromochloromethane | 750 | 830 | 111 | (74-126) |
| Dibromomethane | 750 | 829 | 110 | (78-125) |
| Dichlorodifluoromethane | 750 | 723 | 96 | (29-149) |
| Ethylbenzene | 750 | 726 | 97 | (76-122) |
| Freon-113 | 1130 | 1290 | 114 | (66-136) |
| Hexachlorobutadiene | 750 | 708 | 94 | (61-135) |
| Isopropylbenzene (Cumene) | 750 | 755 | 101 | (68-134) |
| Methylene chloride | 750 | 742 | 99 | (70-128) |
| Methyl-t-butyl ether | 1130 | 1140 | 101 | (73-125) |
| Naphthalene | 750 | 808 | 108 | (62-129) |
| n-Butylbenzene | 750 | 742 | 99 | (70-128) |
| n-Propylbenzene | 750 | 766 | 102 | (73-125) |
| o-Xylene | 750 | 707 | 94 | (77-123) |
| P & M -Xylene | 1500 | 1410 | 94 | (77-124) |
| sec-Butylbenzene | 750 | 728 | 97 | (73-126) |
| Styrene | 750 | 754 | 101 | (76-124) |
| tert-Butylbenzene | 750 | 744 | 99 | (73-125) |
| Tetrachloroethene | 750 | 793 | 106 | (73-128) |
| Toluene | 750 | 683 | 91 | (77-121) |
| trans-1,2-Dichloroethene | 750 | 731 | 98 | (74-125) |
| trans-1,3-Dichloropropene | 750 | 913 | 122 | (71-130) |
| Trichloroethene | 750 | 818 | 109 | (77-123) |
| Trichlorofluoromethane | 750 | 1270 | 170 | * (62-140) |
| Vinyl acetate | 750 | 842 | 112 | (50-151) |
| Vinyl chloride | 750 | 675 | 90 | (56-135) |
| Xylenes (total) | 2250 | 2120 | 94 | (78-124) |

Print Date: 10/25/2019 4:15:30PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34970]
 Blank Spike Lab ID: 1534617
 Date Analyzed: 09/25/2019 15:17

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Blank Spike (%) | | | CL |
|------------------------------|-----------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 750 | 112 | 112 | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 107 | 107 | (55-151) |
| Toluene-d8 (surr) | 750 | 97.1 | 97 | (85-116) |

Batch Information

Analytical Batch: **VMS19497**
 Analytical Method: **SW8260C**
 Instrument: **VRA Agilent GC/MS 7890B/5977A**
 Analyst: **KAJ**

Prep Batch: **VXX34970**
 Prep Method: **SW5035A**
 Prep Date/Time: **09/25/2019 06:00**
 Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1195593006
 MS Sample ID: 1534622 MS
 MSD Sample ID: 1534623 MSD

Analysis Date: 09/25/2019 20:00
 Analysis Date: 09/25/2019 17:26
 Analysis Date: 09/25/2019 17:42
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,1,1,2-Tetrachloroethane | 11.3U | 790 | 858 | 109 | 790 | 844 | 107 | 78-125 | 1.50 | (< 20) |
| 1,1,1-Trichloroethane | 14.2U | 790 | 962 | 122 | 790 | 944 | 119 | 73-130 | 1.90 | (< 20) |
| 1,1,2,2-Tetrachloroethane | 1.13U | 790 | 821 | 104 | 790 | 799 | 101 | 70-124 | 2.70 | (< 20) |
| 1,1,2-Trichloroethane | 0.453U | 790 | 860 | 109 | 790 | 877 | 111 | 78-121 | 2.10 | (< 20) |
| 1,1-Dichloroethane | 14.2U | 790 | 824 | 104 | 790 | 930 | 118 | 76-125 | 12.00 | (< 20) |
| 1,1-Dichloroethene | 14.2U | 790 | 893 | 113 | 790 | 800 | 101 | 70-131 | 10.90 | (< 20) |
| 1,1-Dichloropropene | 14.2U | 790 | 893 | 113 | 790 | 871 | 110 | 76-125 | 2.50 | (< 20) |
| 1,2,3-Trichlorobenzene | 28.3U | 790 | 636 | 81 | 790 | 769 | 97 | 66-130 | 18.90 | (< 20) |
| 1,2,3-Trichloropropane | 0.565U | 790 | 865 | 110 | 790 | 824 | 104 | 73-125 | 4.80 | (< 20) |
| 1,2,4-Trichlorobenzene | 14.2U | 790 | 714 | 90 | 790 | 765 | 97 | 67-129 | 6.80 | (< 20) |
| 1,2,4-Trimethylbenzene | 28.3U | 790 | 813 | 103 | 790 | 764 | 97 | 75-123 | 6.30 | (< 20) |
| 1,2-Dibromo-3-chloropropane | 56.5U | 790 | 932 | 118 | 790 | 967 | 122 | 61-132 | 3.60 | (< 20) |
| 1,2-Dibromoethane | 0.565U | 790 | 806 | 102 | 790 | 827 | 105 | 78-122 | 2.60 | (< 20) |
| 1,2-Dichlorobenzene | 14.2U | 790 | 787 | 100 | 790 | 759 | 96 | 78-121 | 3.60 | (< 20) |
| 1,2-Dichloroethane | 1.13U | 790 | 890 | 113 | 790 | 893 | 113 | 73-128 | 0.44 | (< 20) |
| 1,2-Dichloropropane | 5.65U | 790 | 804 | 102 | 790 | 805 | 102 | 76-123 | 0.20 | (< 20) |
| 1,3,5-Trimethylbenzene | 14.2U | 790 | 825 | 104 | 790 | 756 | 96 | 73-124 | 8.80 | (< 20) |
| 1,3-Dichlorobenzene | 14.2U | 790 | 780 | 99 | 790 | 732 | 93 | 77-121 | 6.40 | (< 20) |
| 1,3-Dichloropropane | 5.65U | 790 | 798 | 101 | 790 | 812 | 103 | 77-121 | 1.70 | (< 20) |
| 1,4-Dichlorobenzene | 14.2U | 790 | 785 | 99 | 790 | 739 | 94 | 75-120 | 6.00 | (< 20) |
| 2,2-Dichloropropane | 14.2U | 790 | 1019 | 129 | 790 | 984 | 125 | 67-133 | 3.40 | (< 20) |
| 2-Butanone (MEK) | 142U | 2370 | 2183 | 92 | 2370 | 2370 | 100 | 51-148 | 8.40 | (< 20) |
| 2-Chlorotoluene | 14.2U | 790 | 811 | 103 | 790 | 769 | 97 | 75-122 | 5.30 | (< 20) |
| 2-Hexanone | 56.5U | 2370 | 2474 | 104 | 2370 | 2651 | 112 | 53-145 | 6.80 | (< 20) |
| 4-Chlorotoluene | 14.2U | 790 | 809 | 102 | 790 | 767 | 97 | 72-124 | 5.20 | (< 20) |
| 4-Isopropyltoluene | 56.5U | 790 | 802 | 102 | 790 | 765 | 97 | 73-127 | 4.90 | (< 20) |
| 4-Methyl-2-pentanone (MIBK) | 142U | 2370 | 2568 | 109 | 2370 | 2734 | 115 | 65-135 | 6.00 | (< 20) |
| Acetone | 142U | 2370 | 2318 | 98 | 2370 | 2578 | 109 | 36-164 | 10.70 | (< 20) |
| Benzene | 7.05U | 790 | 760 | 96 | 790 | 760 | 96 | 77-121 | 0.00 | (< 20) |
| Bromobenzene | 14.2U | 790 | 805 | 102 | 790 | 757 | 96 | 78-121 | 6.10 | (< 20) |
| Bromochloromethane | 14.2U | 790 | 824 | 104 | 790 | 810 | 103 | 78-125 | 1.80 | (< 20) |
| Bromodichloromethane | 1.13U | 790 | 873 | 111 | 790 | 866 | 110 | 75-127 | 0.88 | (< 20) |
| Bromoform | 14.2U | 790 | 867 | 110 | 790 | 892 | 113 | 67-132 | 2.90 | (< 20) |
| Bromomethane | 11.3U | 790 | 794 | 101 | 790 | 737 | 93 | 53-143 | 7.40 | (< 20) |
| Carbon disulfide | 56.5U | 1185 | 1455 | 123 | 1185 | 1279 | 108 | 63-132 | 13.20 | (< 20) |
| Carbon tetrachloride | 7.05U | 790 | 928 | 118 | 790 | 901 | 114 | 70-135 | 3.00 | (< 20) |
| Chlorobenzene | 14.2U | 790 | 758 | 96 | 790 | 744 | 94 | 79-120 | 1.80 | (< 20) |

Print Date: 10/25/2019 4:15:31PM

Matrix Spike Summary

Original Sample ID: 1195593006
 MS Sample ID: 1534622 MS
 MSD Sample ID: 1534623 MSD

Analysis Date: 09/25/2019 20:00
 Analysis Date: 09/25/2019 17:26
 Analysis Date: 09/25/2019 17:42
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Chloroethane | 113U | 790 | 886 | 112 | 790 | 800 | 101 | 59-139 | 10.20 | (< 20) |
| Chloromethane | 14.2U | 790 | 840 | 106 | 790 | 788 | 100 | 50-136 | 6.40 | (< 20) |
| cis-1,2-Dichloroethene | 14.2U | 790 | 802 | 102 | 790 | 893 | 113 | 77-123 | 10.70 | (< 20) |
| cis-1,3-Dichloropropene | 7.05U | 790 | 920 | 117 | 790 | 912 | 115 | 74-126 | 0.92 | (< 20) |
| Dibromochloromethane | 1.13U | 790 | 851 | 108 | 790 | 854 | 108 | 74-126 | 0.46 | (< 20) |
| Dibromomethane | 14.2U | 790 | 879 | 111 | 790 | 884 | 112 | 78-125 | 0.48 | (< 20) |
| Dichlorodifluoromethane | 28.3U | 790 | 1022 | 129 | 790 | 945 | 120 | 29-149 | 7.90 | (< 20) |
| Ethylbenzene | 14.2U | 790 | 742 | 94 | 790 | 739 | 94 | 76-122 | 0.46 | (< 20) |
| Freon-113 | 56.5U | 1185 | 1424 | 120 | 1185 | 1331 | 112 | 66-136 | 7.20 | (< 20) |
| Hexachlorobutadiene | 11.3U | 790 | 1033 | 131 | 790 | 1010 | 128 | 61-135 | 2.30 | (< 20) |
| Isopropylbenzene (Cumene) | 14.2U | 790 | 760 | 96 | 790 | 773 | 98 | 68-134 | 1.80 | (< 20) |
| Methylene chloride | 56.5U | 790 | 837 | 106 | 790 | 859 | 109 | 70-128 | 2.60 | (< 20) |
| Methyl-t-butyl ether | 56.5U | 1185 | 1258 | 106 | 1185 | 1455 | 122 | 73-125 | 14.10 | (< 20) |
| Naphthalene | 12.4J | 790 | 761 | 96 | 790 | 850 | 108 | 62-129 | 11.10 | (< 20) |
| n-Butylbenzene | 11.9J | 790 | 862 | 109 | 790 | 813 | 103 | 70-128 | 5.90 | (< 20) |
| n-Propylbenzene | 14.2U | 790 | 828 | 105 | 790 | 773 | 98 | 73-125 | 6.80 | (< 20) |
| o-Xylene | 14.2U | 790 | 716 | 91 | 790 | 720 | 91 | 77-123 | 0.55 | (< 20) |
| P & M -Xylene | 28.3U | 1580 | 1445 | 91 | 1580 | 1445 | 92 | 77-124 | 0.33 | (< 20) |
| sec-Butylbenzene | 14.2U | 790 | 788 | 100 | 790 | 749 | 95 | 73-126 | 5.00 | (< 20) |
| Styrene | 14.2U | 790 | 749 | 95 | 790 | 759 | 96 | 76-124 | 1.20 | (< 20) |
| tert-Butylbenzene | 14.2U | 790 | 787 | 100 | 790 | 758 | 96 | 73-125 | 3.80 | (< 20) |
| Tetrachloroethene | 7.05U | 790 | 844 | 107 | 790 | 838 | 106 | 73-128 | 0.75 | (< 20) |
| Toluene | 14.2U | 790 | 704 | 89 | 790 | 701 | 89 | 77-121 | 0.45 | (< 20) |
| trans-1,2-Dichloroethene | 14.2U | 790 | 856 | 108 | 790 | 883 | 112 | 74-125 | 3.10 | (< 20) |
| trans-1,3-Dichloropropene | 7.05U | 790 | 944 | 119 | 790 | 935 | 118 | 71-130 | 0.93 | (< 20) |
| Trichloroethene | 2.83U | 790 | 885 | 112 | 790 | 869 | 110 | 77-123 | 1.80 | (< 20) |
| Trichlorofluoromethane | 28.3U | 790 | 1746 | 221 * | 790 | 1372 | 174 * | 62-140 | 24.10 * | (< 20) |
| Vinyl acetate | 56.5U | 790 | 884 | 112 | 790 | 1037 | 131 | 50-151 | 16.10 | (< 20) |
| Vinyl chloride | 0.453U | 790 | 741 | 94 | 790 | 715 | 91 | 56-135 | 3.60 | (< 20) |
| Xylenes (total) | 42.4U | 2370 | 2162 | 91 | 2370 | 2173 | 92 | 78-124 | 0.40 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 790 | 889 | 113 | 790 | 902 | 114 | 71-136 | 1.40 | |
| 4-Bromofluorobenzene (surr) | | 1320 | 1362 | 103 | 1320 | 1289 | 98 | 55-151 | 5.70 | |
| Toluene-d8 (surr) | | 790 | 754 | 95 | 790 | 755 | 96 | 85-116 | 0.21 | |

Print Date: 10/25/2019 4:15:31PM



Matrix Spike Summary

Original Sample ID: 1195593006
MS Sample ID: 1534622 MS
MSD Sample ID: 1534623 MSD

Analysis Date:
Analysis Date: 09/25/2019 17:26
Analysis Date: 09/25/2019 17:42
Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Sample | Matrix Spike (%) | | | Spike Duplicate (%) | | | CL | RPD (%) | RPD CL |
|-----------|--------|------------------|--------|---------|---------------------|--------|---------|----|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |

Batch Information

Analytical Batch: VMS19497
Analytical Method: SW8260C
Instrument: VRA Agilent GC/MS 7890B/5977A
Analyst: KAJ
Analytical Date/Time: 9/25/2019 5:26:01PM

Prep Batch: VXX34970
Prep Method: Vol. Extraction SW8260 Field Extracted L
Prep Date/Time: 9/25/2019 6:00:00AM
Prep Initial Wt./Vol.: 49.35g
Prep Extract Vol: 25.00mL

Print Date: 10/25/2019 4:15:31PM

Method Blank

Blank ID: MB for HBN 1800128 [VXX/34974]
 Blank Lab ID: 1535032

Matrix: Soil/Solid (dry weight)

QC for Samples:
 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------------|----------------|---------------|-----------|--------------|
| 1,2,4-Trimethylbenzene | 25.0U | 50.0 | 15.0 | ug/Kg |
| Chloroform | 1.00U | 2.00 | 0.620 | ug/Kg |
| Surrogates | | | | |
| 1,2-Dichloroethane-D4 (surr) | 108 | 71-136 | | % |
| 4-Bromofluorobenzene (surr) | 92.1 | 55-151 | | % |
| Toluene-d8 (surr) | 102 | 85-116 | | % |

Batch Information

Analytical Batch: VMS19499
 Analytical Method: SW8260C
 Instrument: VQA 7890/5975 GC/MS
 Analyst: KAJ
 Analytical Date/Time: 9/27/2019 9:43:00AM

Prep Batch: VXX34974
 Prep Method: SW5035A
 Prep Date/Time: 9/27/2019 6:00:00AM
 Prep Initial Wt./Vol.: 50 g
 Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:32PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34974]

Blank Spike Lab ID: 1535033

Date Analyzed: 09/27/2019 09:59

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

Blank Spike (ug/Kg)

| Parameter | Spike | Result | Rec (%) | CL |
|------------------------|-------|--------|---------|------------|
| 1,2,4-Trimethylbenzene | 750 | 723 | 96 | (75-123) |
| Chloroform | 750 | 724 | 97 | (78-123) |

Surrogates

| | | | | |
|------------------------------|-----|------|-----|------------|
| 1,2-Dichloroethane-D4 (surr) | 750 | 97.6 | 98 | (71-136) |
| 4-Bromofluorobenzene (surr) | 750 | 97.5 | 98 | (55-151) |
| Toluene-d8 (surr) | 750 | 102 | 102 | (85-116) |

Batch Information

Analytical Batch: **VMS19499**

Analytical Method: **SW8260C**

Instrument: **VQA 7890/5975 GC/MS**

Analyst: **KAJ**

Prep Batch: **VXX34974**

Prep Method: **SW5035A**

Prep Date/Time: **09/27/2019 06:00**

Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL

Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1535039
 MS Sample ID: 1535034 MS
 MSD Sample ID: 1535035 MSD

Analysis Date: 09/27/2019 16:08
 Analysis Date: 09/27/2019 14:48
 Analysis Date: 09/27/2019 15:04
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630011, 1195630014, 1195630017, 1195630018, 1195630019

Results by SW8260C

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,2,4-Trimethylbenzene | 15.0U | 449 | 428 | 95 | 449 | 442 | 98 | 75-123 | 3.20 | (< 20) |
| Chloroform | 0.600U | 449 | 450 | 100 | 449 | 453 | 101 | 78-123 | 0.56 | (< 20) |
| Surrogates | | | | | | | | | | |
| 1,2-Dichloroethane-D4 (surr) | | 449 | 450 | 100 | 449 | 443 | 99 | 71-136 | 1.60 | |
| 4-Bromofluorobenzene (surr) | | 749 | 702 | 94 | 749 | 718 | 96 | 55-151 | 2.30 | |
| Toluene-d8 (surr) | | 449 | 453 | 101 | 449 | 458 | 102 | 85-116 | 1.30 | |

Batch Information

Analytical Batch: VMS19499
 Analytical Method: SW8260C
 Instrument: VQA 7890/5975 GC/MS
 Analyst: KAJ
 Analytical Date/Time: 9/27/2019 2:48:01PM

Prep Batch: VXX34974
 Prep Method: Vol. Extraction SW8260 Field Extracted L
 Prep Date/Time: 9/27/2019 6:00:00AM
 Prep Initial Wt./Vol.: 83.47g
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1800164 [VXX/34979]
Blank Lab ID: 1535277

Matrix: Solid/Soil (Wet Weight)

QC for Samples:
1195630005, 1195630006, 1195630011, 1195630020

Results by SW8260C-SIM

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| 1,2-Dibromoethane | 0.0625U | 0.125 | 0.0310 | ug/Kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 86.6 | 55-151 | | % |
| Toluene-d8 (surr) | 97.7 | 85-116 | | % |

Batch Information

Analytical Batch: VMS19503
Analytical Method: SW8260C-SIM
Instrument: VSA Agilent GC/MS 7890B/5977A
Analyst: NRB
Analytical Date/Time: 9/29/2019 9:33:00PM

Prep Batch: VXX34979
Prep Method: SW5035A
Prep Date/Time: 9/29/2019 12:30:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:35PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX34979]
 Blank Spike Lab ID: 1535278
 Date Analyzed: 09/29/2019 21:55

Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1195630005, 1195630006, 1195630011, 1195630020

Results by SW8260C-SIM

| Parameter | Blank Spike (ug/Kg) | | | CL (78-122) |
|-------------------|---------------------|--------|---------|------------------|
| | Spike | Result | Rec (%) | |
| 1,2-Dibromoethane | 5 | 4.45 | 89 | |
| Surrogates | | | | |
| Toluene-d8 (surr) | 750 | 95.1 | 95 | (85-116) |

Batch Information

Analytical Batch: **VMS19503**
 Analytical Method: **SW8260C-SIM**
 Instrument: **VSA Agilent GC/MS 7890B/5977A**
 Analyst: **NRB**

Prep Batch: **VXX34979**
 Prep Method: **SW5035A**
 Prep Date/Time: **09/29/2019 00:30**
 Spike Init Wt./Vol.: 5 ug/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/25/2019 4:15:37PM

Matrix Spike Summary

Original Sample ID: 1535285
 MS Sample ID: 1535286 MS
 MSD Sample ID: 1535287 MSD

Analysis Date: 09/29/2019 23:34
 Analysis Date: 09/29/2019 22:19
 Analysis Date: 09/29/2019 22:34
 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1195630005, 1195630006, 1195630011, 1195630020

Results by SW8260C-SIM

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|-----------------------------|---------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1,2-Dibromoethane | 0.0340U | 2.71 | 2.84 | 105 | 2.71 | 2.88 | 106 | 78-122 | 1.50 | (< 20) |
| Surrogates | | | | | | | | | | |
| 4-Bromofluorobenzene (surr) | | 679 | 475 | 70 | 679 | 491 | 72 | 55-151 | 3.30 | |
| Toluene-d8 (surr) | | 407 | 393 | 97 | 407 | 389 | 96 | 85-116 | 1.00 | |

Batch Information

Analytical Batch: VMS19503
 Analytical Method: SW8260C-SIM
 Instrument: VSA Agilent GC/MS 7890B/5977A
 Analyst: NRB
 Analytical Date/Time: 9/29/2019 10:19:00PM

Prep Batch: VXX34979
 Prep Method: 8260SIM (S) SW5035 Prep
 Prep Date/Time: 9/29/2019 12:30:00AM
 Prep Initial Wt./Vol.: 92.10g
 Prep Extract Vol: 25.00mL

Print Date: 10/25/2019 4:15:38PM



Method Blank

Blank ID: MB for HBN 1800350 [VXX/35000]
Blank Lab ID: 1536033
QC for Samples:
1195630020

Matrix: Soil/Solid (dry weight)

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.25U | 2.50 | 0.750 | mg/Kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 92.7 | 50-150 | | % |

Batch Information

Analytical Batch: VFC14970
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/2/2019 6:59:00PM

Prep Batch: VXX35000
Prep Method: SW5035A
Prep Date/Time: 10/2/2019 8:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:39PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX35000]
 Blank Spike Lab ID: 1536034
 Date Analyzed: 10/02/2019 18:23

Spike Duplicate ID: LCSD for HBN 1195630 [VXX35000]
 Spike Duplicate Lab ID: 1536035
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630020

Results by AK101

| Parameter | Blank Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 13.4 | 107 | 12.5 | 13.8 | 110 | (60-120) | 3.10 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|------|----|------|-----|-----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | 98.7 | 99 | 1.25 | 104 | 104 | (50-150) | 5.10 | |
|-----------------------------|------|------|----|------|-----|-----|------------|------|--|

Batch Information

Analytical Batch: **VFC14970**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX35000**
 Prep Method: **SW5035A**
 Prep Date/Time: **10/02/2019 08:00**
 Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:40PM

Method Blank

Blank ID: MB for HBN 1800402 [VXX/35005]

Matrix: Soil/Solid (dry weight)

Blank Lab ID: 1536247

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.25U | 2.50 | 0.750 | mg/Kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 92.6 | 50-150 | | % |

Batch Information

Analytical Batch: VFC14972

Analytical Method: AK101

Instrument: Agilent 7890 PID/FID

Analyst: ST

Analytical Date/Time: 10/3/2019 12:06:00PM

Prep Batch: VXX35005

Prep Method: SW5035A

Prep Date/Time: 10/3/2019 8:00:00AM

Prep Initial Wt./Vol.: 50 g

Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:42PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX35005]
Blank Spike Lab ID: 1536248
Date Analyzed: 10/03/2019 11:30

Spike Duplicate ID: LCSD for HBN 1195630 [VXX35005]
Spike Duplicate Lab ID: 1536249
Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006

Results by AK101

| Parameter | Blank Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 13.7 | 109 | 12.5 | 13.8 | 110 | (60-120) | 0.85 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|-----|-----|------|-----|-----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | 100 | 100 | 1.25 | 105 | 105 | (50-150) | 4.40 | |
|-----------------------------|------|-----|-----|------|-----|-----|------------|------|--|

Batch Information

Analytical Batch: **VFC14972**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX35005**
Prep Method: **SW5035A**
Prep Date/Time: **10/03/2019 08:00**
Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:43PM



Method Blank

Blank ID: MB for HBN 1800403 [VXX/35006]
Blank Lab ID: 1536250

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630007, 1195630008, 1195630011, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.25U | 2.50 | 0.750 | mg/Kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 91.2 | 50-150 | | % |

Batch Information

Analytical Batch: VFC14972
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/3/2019 7:25:00PM

Prep Batch: VXX35006
Prep Method: SW5035A
Prep Date/Time: 10/3/2019 8:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:45PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX35006]
 Blank Spike Lab ID: 1536251
 Date Analyzed: 10/03/2019 18:50

Spike Duplicate ID: LCSD for HBN 1195630 [VXX35006]
 Spike Duplicate Lab ID: 1536252
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630007, 1195630008, 1195630011, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018

Results by AK101

| Parameter | Blank Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 13.1 | 105 | 12.5 | 13.5 | 108 | (60-120) | 2.80 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|------|----|------|-----|-----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | 99.1 | 99 | 1.25 | 101 | 101 | (50-150) | 2.30 | |
|-----------------------------|------|------|----|------|-----|-----|------------|------|--|

Batch Information

Analytical Batch: **VFC14972**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX35006**
 Prep Method: **SW5035A**
 Prep Date/Time: **10/03/2019 08:00**
 Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:46PM



Method Blank

Blank ID: MB for HBN 1800470 [VXX/35018]
Blank Lab ID: 1536632
QC for Samples:
1195630019

Matrix: Soil/Solid (dry weight)

Results by AK101

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------------|----------------|---------------|-----------|--------------|
| Gasoline Range Organics | 1.25U | 2.50 | 0.750 | mg/Kg |
| Surrogates | | | | |
| 4-Bromofluorobenzene (surr) | 83.5 | 50-150 | | % |

Batch Information

Analytical Batch: VFC14973
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 10/4/2019 8:32:00PM

Prep Batch: VXX35018
Prep Method: SW5035A
Prep Date/Time: 10/4/2019 8:00:00AM
Prep Initial Wt./Vol.: 50 g
Prep Extract Vol: 25 mL

Print Date: 10/25/2019 4:15:47PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [VXX35018]
 Blank Spike Lab ID: 1536633
 Date Analyzed: 10/04/2019 19:57

Spike Duplicate ID: LCSD for HBN 1195630 [VXX35018]
 Spike Duplicate Lab ID: 1536634
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630019

Results by AK101

| Parameter | Blank Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-------------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Gasoline Range Organics | 12.5 | 12.7 | 101 | 12.5 | 13.1 | 105 | (60-120) | 3.10 | (< 20) |

Surrogates

| | | | | | | | | | |
|-----------------------------|------|------|----|------|------|----|------------|------|--|
| 4-Bromofluorobenzene (surr) | 1.25 | 91.2 | 91 | 1.25 | 95.8 | 96 | (50-150) | 4.90 | |
|-----------------------------|------|------|----|------|------|----|------------|------|--|

Batch Information

Analytical Batch: **VFC14973**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX35018**
 Prep Method: **SW5035A**
 Prep Date/Time: **10/04/2019 08:00**
 Spike Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 12.5 mg/Kg Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1799991 [XXX/42341]
 Blank Lab ID: 1534381

Matrix: Soil/Solid (dry weight)

QC for Samples:
 1195630005, 1195630006, 1195630011

Results by 8270D SIM (PAH)

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|--------------------------------|----------------|---------------|-----------|--------------|
| 1-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/Kg |
| 2-Methylnaphthalene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Acenaphthene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Acenaphthylene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Anthracene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Benzo(a)Anthracene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Benzo[a]pyrene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Benzo[b]Fluoranthene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Benzo[g,h,i]perylene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Benzo[k]fluoranthene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Chrysene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Dibenzo[a,h]anthracene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Fluoranthene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Fluorene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Indeno[1,2,3-c,d] pyrene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Naphthalene | 10.0U | 20.0 | 5.00 | ug/Kg |
| Phenanthrene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Pyrene | 12.5U | 25.0 | 6.25 | ug/Kg |
| Surrogates | | | | |
| 2-Methylnaphthalene-d10 (surr) | 76.5 | 58-103 | | % |
| Fluoranthene-d10 (surr) | 75 | 54-113 | | % |

Batch Information

Analytical Batch: XMS11756
 Analytical Method: 8270D SIM (PAH)
 Instrument: SVA Agilent 780/5975 GC/MS
 Analyst: DSD
 Analytical Date/Time: 9/29/2019 5:52:00PM

Prep Batch: XXX42341
 Prep Method: SW3550C
 Prep Date/Time: 9/25/2019 8:53:21PM
 Prep Initial Wt./Vol.: 22.5 g
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [XXX42341]

Blank Spike Lab ID: 1534382

Date Analyzed: 09/29/2019 18:13

Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630005, 1195630006, 1195630011

Results by 8270D SIM (PAH)

Blank Spike (ug/Kg)

| Parameter | Spike | Result | Rec (%) | CL |
|--------------------------|-------|--------|---------|----------|
| 1-Methylnaphthalene | 111 | 93.4 | 84 | (43-111) |
| 2-Methylnaphthalene | 111 | 92.2 | 83 | (39-114) |
| Acenaphthene | 111 | 96.0 | 86 | (44-111) |
| Acenaphthylene | 111 | 99.6 | 90 | (39-116) |
| Anthracene | 111 | 101 | 91 | (50-114) |
| Benzo(a)Anthracene | 111 | 99.9 | 90 | (54-122) |
| Benzo[a]pyrene | 111 | 100 | 90 | (50-125) |
| Benzo[b]Fluoranthene | 111 | 105 | 95 | (53-128) |
| Benzo[g,h,i]perylene | 111 | 112 | 101 | (49-127) |
| Benzo[k]fluoranthene | 111 | 104 | 94 | (56-123) |
| Chrysene | 111 | 101 | 91 | (57-118) |
| Dibenzo[a,h]anthracene | 111 | 110 | 99 | (50-129) |
| Fluoranthene | 111 | 101 | 91 | (55-119) |
| Fluorene | 111 | 101 | 91 | (47-114) |
| Indeno[1,2,3-c,d] pyrene | 111 | 116 | 104 | (49-130) |
| Naphthalene | 111 | 91.3 | 82 | (38-111) |
| Phenanthrene | 111 | 99.0 | 89 | (49-113) |
| Pyrene | 111 | 106 | 96 | (55-117) |

Surrogates

| | | | | | |
|--------------------------------|-----|------|----|---|----------|
| 2-Methylnaphthalene-d10 (surr) | 111 | 47.2 | 47 | * | (58-103) |
| Fluoranthene-d10 (surr) | 111 | 49.3 | 49 | * | (54-113) |

Batch Information

Analytical Batch: XMS11756

Analytical Method: 8270D SIM (PAH)

Instrument: SVA Agilent 780/5975 GC/MS

Analyst: DSD

Prep Batch: XXX42341

Prep Method: SW3550C

Prep Date/Time: 09/25/2019 20:53

Spike Init Wt./Vol.: 111 ug/Kg Extract Vol: 5 mL

Dupe Init Wt./Vol.: Extract Vol:



Matrix Spike Summary

Original Sample ID: 1195630006
 MS Sample ID: 1534383 MS
 MSD Sample ID: 1534384 MSD

Analysis Date: 09/30/2019 0:02
 Analysis Date: 09/30/2019 0:22
 Analysis Date: 09/30/2019 0:43
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630005, 1195630006, 1195630011

Results by 8270D SIM (PAH)

| Parameter | Sample | Matrix Spike (ug/Kg) | | | Spike Duplicate (ug/Kg) | | | CL | RPD (%) | RPD CL |
|--------------------------------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|----------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| 1-Methylnaphthalene | 25.8U | 117 | 104 | 89 | 115 | 98.5 | 86 | 43-111 | 5.50 | (< 20) |
| 2-Methylnaphthalene | 25.8U | 117 | 102 | 87 | 115 | 94.0 | 82 | 39-114 | 7.80 | (< 20) |
| Acenaphthene | 25.8U | 117 | 111 | 95 | 115 | 100 | 87 | 44-111 | 10.00 | (< 20) |
| Acenaphthylene | 25.8U | 117 | 106 | 91 | 115 | 101 | 88 | 39-116 | 5.50 | (< 20) |
| Anthracene | 25.8U | 117 | 123 | 105 | 115 | 111 | 96 | 50-114 | 10.40 | (< 20) |
| Benzo(a)Anthracene | 30.3 | 117 | 139 | 94 | 115 | 133 | 89 | 54-122 | 5.30 | (< 20) |
| Benzo(a)pyrene | 39.0 | 117 | 149 | 94 | 115 | 144 | 92 | 50-125 | 2.70 | (< 20) |
| Benzo[b]Fluoranthene | 47.2 | 117 | 152 | 90 | 115 | 149 | 88 | 53-128 | 2.20 | (< 20) |
| Benzo[g,h,i]perylene | 37.4 | 117 | 148 | 95 | 115 | 154 | 101 | 49-127 | 3.80 | (< 20) |
| Benzo[k]fluoranthene | 25.8U | 117 | 131 | 112 | 115 | 129 | 112 | 56-123 | 1.90 | (< 20) |
| Chrysene | 37.0 | 117 | 146 | 94 | 115 | 140 | 90 | 57-118 | 4.60 | (< 20) |
| Dibenzo[a,h]anthracene | 25.8U | 117 | 119 | 102 | 115 | 117 | 102 | 50-129 | 1.40 | (< 20) |
| Fluoranthene | 64.8 | 117 | 191 | 108 | 115 | 165 | 87 | 55-119 | 14.30 | (< 20) |
| Fluorene | 25.8U | 117 | 118 | 101 | 115 | 105 | 92 | 47-114 | 11.20 | (< 20) |
| Indeno[1,2,3-c,d] pyrene | 31.8 | 117 | 150 | 101 | 115 | 152 | 104 | 49-130 | 1.50 | (< 20) |
| Naphthalene | 20.6U | 117 | 103 | 88 | 115 | 94.5 | 82 | 38-111 | 8.10 | (< 20) |
| Phenanthrene | 55.3 | 117 | 189 | 115 * | 115 | 142 | 76 | 49-113 | 28.10 | * (< 20) |
| Pyrene | 63.1 | 117 | 190 | 109 | 115 | 169 | 92 | 55-117 | 12.20 | (< 20) |
| Surrogates | | | | | | | | | | |
| 2-Methylnaphthalene-d10 (surr) | | 117 | 89.8 | 77 | 115 | 84.6 | 74 | 58-103 | 5.90 | |
| Fluoranthene-d10 (surr) | | 117 | 86.0 | 74 | 115 | 83.8 | 73 | 54-113 | 2.60 | |

Batch Information

Analytical Batch: XMS11756
 Analytical Method: 8270D SIM (PAH)
 Instrument: SVA Agilent 780/5975 GC/MS
 Analyst: DSD
 Analytical Date/Time: 9/30/2019 12:22:00AM

Prep Batch: XXX42341
 Prep Method: Sonication Extr Soil 8270 PAH SIM 5ml
 Prep Date/Time: 9/25/2019 8:53:21PM
 Prep Initial Wt./Vol.: 22.56g
 Prep Extract Vol: 5.00mL

Print Date: 10/25/2019 4:15:52PM



Method Blank

Blank ID: MB for HBN 1800046 [XXX/42347]
Blank Lab ID: 1534586

Matrix: Soil/Solid (dry weight)

QC for Samples:

1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007, 1195630008, 1195630011, 1195630013, 1195630014, 1195630015, 1195630016, 1195630017, 1195630018, 1195630019

Results by AK102

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|-----------------------|----------------|---------------|-----------|--------------|
| Diesel Range Organics | 10.0U | 20.0 | 6.20 | mg/Kg |
| Surrogates | | | | |
| 5a Androstane (surr) | 87.9 | 60-120 | | % |

Batch Information

Analytical Batch: XFC15361
Analytical Method: AK102
Instrument: Agilent 7890B F
Analyst: CMS
Analytical Date/Time: 10/2/2019 6:18:00PM

Prep Batch: XXX42347
Prep Method: SW3550C
Prep Date/Time: 9/26/2019 5:33:28PM
Prep Initial Wt./Vol.: 30 g
Prep Extract Vol: 5 mL

Print Date: 10/25/2019 4:15:53PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195630 [XXX42347]
 Blank Spike Lab ID: 1534587
 Date Analyzed: 10/02/2019 18:38

Spike Duplicate ID: LCSD for HBN 1195630
 [XXX42347]
 Spike Duplicate Lab ID: 1534588
 Matrix: Soil/Solid (dry weight)

QC for Samples: 1195630001, 1195630002, 1195630003, 1195630004, 1195630005, 1195630006, 1195630007,
 1195630008, 1195630011, 1195630013, 1195630014, 1195630015, 1195630016, 1195630017,
 1195630018, 1195630019

Results by AK102

| Parameter | Blank Spike (mg/Kg) | | | Spike Duplicate (mg/Kg) | | | CL | RPD (%) | RPD CL |
|-----------------------|---------------------|--------|---------|-------------------------|--------|---------|------------|---------|---------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Diesel Range Organics | 833 | 781 | 94 | 833 | 807 | 97 | (75-125) | 3.20 | (< 20) |
| Surrogates | | | | | | | | | |
| 5a Androstane (surr) | 16.7 | 98.6 | 99 | 16.7 | 103 | 103 | (60-120) | 4.20 | |

Batch Information

Analytical Batch: **XFC15361**
 Analytical Method: **AK102**
 Instrument: **Agilent 7890B F**
 Analyst: **CMS**

Prep Batch: **XXX42347**
 Prep Method: **SW3550C**
 Prep Date/Time: **09/26/2019 17:33**
 Spike Init Wt./Vol.: 833 mg/Kg Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 833 mg/Kg Extract Vol: 5 mL



1195630



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| | | | | | | | | | | | |
|-------------------------|--------------------------------|---|---------------|-----------------------------|---|--------------|---|--|------|----------------|--|
| CLIENT: EMI Alaska | | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. | | | | Page 1 of 2 | | | | | |
| CONTACT: Glenn Hasburgh | | PHONE #: _____ | | Section 3 | | Preservative | | | | | |
| Section 1 | PROJECT NAME: UST 0204 Closure | PROJECT/PWSID/PERMIT#: 18021 | | # CONTAINERS | Analysis* GRO by AK101, VOC by 8260C, EDB by 8260C SIM, DRO by AK102, Lead by 6020, PAH by 8270D SIM | | | | | | NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS |
| | REPORTS TO: Glenn Hasburgh | E-MAIL: ghasburgh@emi-alaska.com | | | | | | | | | |
| | INVOICE TO: EMI Alaska | QUOTE #: _____ P.O. #: _____ | | | | | | | | | |
| Section 2 | RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE | | | | | REMARKS/LOC ID | |
| | ① | Gas-Disp-02 | 9/17/19 | 0916 | 5 | | | | | | |
| | ② | Diesel-Disp-01 | 9/17/19 | 0805 | | | | | | | |
| | ③ | Sump-1 | | 0945 | | | | | | | |
| | ④ | Ex-1 | | 1616 | | | | | | | |
| | ⑤ | Ex-9 | | 1620 | | | | | | | |
| | ⑥ | Ex-19 | | 1920 | | | | | | | |
| | ⑦ | EX-12 | | 1625 | | | | | | | |
| | ⑧ | EX-14 | | 1635 | | | | | | | |
| | ⑨ | NSW-6 | | 1646 | | | | | | Hold | |
| ⑩ | ESW-3 | | 1641 | | | | | | Hold | | |
| Section 5 | Relinquished By: (1) | Date | Time | Received By: | Section 4 DOD Project? Yes No | | Data Deliverable Requirements: | | | | |
| | Relinquished By: (2) | Date | Time | Received By: | Cooler ID: _____ | | Requested Turnaround Time and/or Special Instructions: | | | | |
| | Relinquished By: (3) | Date | Time | Received By: | Temp Blank °C: 2.9 57 | | Chain of Custody Seal: (Circle) INTACT BROKEN <u>ABSENT</u> | | | | |
| | Relinquished By: (4) | Date | Time | Received For Laboratory By: | or Ambient [] | | Delivery Method: Hand Delivery [] Commercial Delivery [] | | | | |

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CHAIN OF CUSTODY RECORD

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| | | | | | | | | | | | | | |
|--|-----------------------|--|----------------------|--|---|---|--------------|---|--------------|--------------|------------------|--|------|
| CLIENT: EMI Alaska | | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. | | | | Page <u>2</u> of <u>2</u> | | | | | | | |
| CONTACT: Glenn Hasburgh | | PHONE #: | | Section 3 | | Preservative | | | | | | | |
| PROJECT NAME: UST 0204 Closure | | PROJECT/ PWSID/ PERMIT#: 18021 | | # CONTAINERS | | Analysis* | | | | | | | |
| REPORTS TO: Glenn Hasburgh | | E-MAIL: ghasburgh@emi-alaska.com | | Comp Grab MI (Multi-incremental) | | NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS | | | | | | | |
| INVOICE TO: EMI Alaska | | QUOTE #: | | P.O. #: | | REMARKS/LOC ID | | | | | | | |
| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE | | GRO by AK101 | VOC by 8260C | EDB by 8260C SIM | DRO by AK102 | Lead by 6020 | PAH by 8270D SIM | | |
| (1) AB | SSW-1 | 9/17 | 1652 | S | G | X | X | X | X | X | X | | |
| (2) AB | WSW-9 | | 1638 | | | X | X | X | X | X | X | | Hold |
| (3) A | Base-test pit | | 1730 | | | X | X | X | X | X | X | | |
| (14) AB | St-1-7 | 9/18 | 0902 | | | X | X | X | X | X | X | | |
| (15) AB | St-1-16 | | 0919 | | | X | X | X | X | X | X | | |
| (16) AB | St-1-22 | | 0930 | | | X | X | X | X | X | X | | |
| (17) AB | St-1-5 | | 0852 | | | X | X | X | X | X | X | | |
| (18) AB | Con-st-1 | | 1037 | | | X | X | X | X | X | X | | |
| (19) AB | Con-st-7 | | 1043 | | | X | X | X | X | X | X | | |
| | | | | | | | | | | | | | |
| Relinquished By: (1) <i>[Signature]</i> | | Date 9/23/19 | Time 10:49 | Received By: <i>[Signature]</i> | | Section 4 DOD Project? Yes No | | Data Deliverable Requirements: | | | | | |
| Relinquished By: (2) | | Date | Time | Received By: | | Cooler ID: | | | | | | | |
| Relinquished By: (3) | | Date | Time | Received By: | | Requested Turnaround Time and/or Special Instructions: Standard. | | | | | | | |
| Relinquished By: (4) | | Date 9-23-19 | Time 10:49 | Received For Laboratory By: <i>[Signature]</i> | | Temp Blank °C: 2.9 D57 | | Chain of Custody Seal: (Circle) INTACT BROKEN <u>ABSENT</u> | | | | | |
| Delivery Method: Hand Delivery <input checked="" type="checkbox"/> Commercial Delivery <input type="checkbox"/> | | | | | | | | | | | | | |

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Returned Bottles Inventory

Name of individual returning bottles:

Date

Received:

09/23/19

Client Name:

EMI Alaska

Received by:

E.M.

Project Name:

UST 0204 Closure 18021

SGS PM:

JKJ

| | | | | | |
|----------------------|--------------------------------------|----|--|--|--|
| HDPE/Nalgene: | 1-L | | | | |
| | 500-ml | | | | |
| | 250-ml or 8-oz | | | | |
| | 125-ml or 4-oz | | | | |
| | 60-ml or 2-oz | | | | |
| | other | | | | |
| amber glass: | 1-L | | | | |
| | 500-ml | | | | |
| | 250-ml or 8-oz | | | | |
| | 125-ml or 4-oz with or without septa | 8 | | | |
| | 40-ml VOA vial | 6 | | | |
| | other | | | | |
| Subtotal: | | 14 | | | |

Note: Returned bottles (regardless of size/pres.) are billed back at \$4/bottle unless otherwise quoted.

Amount to Invoice Client \$:

56

WO#:

119 5630



e-Sample Receipt Form

SGS Workorder #:

1195630



1 1 9 5 6 3 0

| Review Criteria | Condition (Yes, No, N/A) | Exceptions Noted below |
|---|--------------------------|---|
| Chain of Custody / Temperature Requirements | | <input checked="" type="checkbox"/> Exemption permitted if sampler hand carries/delivers. |
| Were Custody Seals intact? Note # & location | N/A | HD |
| COC accompanied samples? | Yes | |
| DOD: Were samples received in COC corresponding coolers? | | |
| <input type="checkbox"/> **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required | | |
| Temperature blank compliant* (i.e., 0-6 °C after CF)? | Yes | Cooler ID: 1 @ 2.9 °C Therm. ID: D57 |
| | | Cooler ID: @ °C Therm. ID: |
| | | Cooler ID: @ °C Therm. ID: |
| | | Cooler ID: @ °C Therm. ID: |
| | | Cooler ID: @ °C Therm. ID: |
| *If >6°C, were samples collected <8 hours ago? | N/A | |
| If <0°C, were sample containers ice free? | N/A | |
| Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed. | | |
| Holding Time / Documentation / Sample Condition Requirements | | Note: Refer to form F-083 "Sample Guide" for specific holding times. |
| Were samples received within holding time? | Yes | |
| Do samples match COC** (i.e., sample IDs, dates/times collected)? | Yes | |
| **Note: If times differ <1hr, record details & login per COC. | | |
| ***Note: If sample information on containers differs from COC, SGS will default to COC information | | |
| Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals) | Yes | |
| Were proper containers (type/mass/volume/preservative***) used? | Yes | ***Exemption permitted for metals (e.g.200.8/6020A). |
| Volatile / LL-Hg Requirements | | |
| Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples? | Yes | |
| Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)? | N/A | |
| Were all soil VOAs field extracted with MeOH+BFB? | Yes | |
| Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality. | | |
| Additional notes (if applicable): | | |
| PAH container received For Sample 3 However PAH is not requested login as an extra volume. | | |



Sample Containers and Preservatives

| <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|---------------------|----------------------------|
| 1195630001-A | No Preservative Required | OK | | | |
| 1195630001-B | Methanol field pres. 4 C | OK | | | |
| 1195630002-A | No Preservative Required | OK | | | |
| 1195630002-B | Methanol field pres. 4 C | OK | | | |
| 1195630003-A | No Preservative Required | OK | | | |
| 1195630003-B | No Preservative Required | OK | | | |
| 1195630003-C | Methanol field pres. 4 C | OK | | | |
| 1195630004-A | No Preservative Required | OK | | | |
| 1195630004-B | Methanol field pres. 4 C | OK | | | |
| 1195630005-A | No Preservative Required | OK | | | |
| 1195630005-B | No Preservative Required | OK | | | |
| 1195630005-C | Methanol field pres. 4 C | OK | | | |
| 1195630006-A | No Preservative Required | OK | | | |
| 1195630006-B | No Preservative Required | OK | | | |
| 1195630006-C | Methanol field pres. 4 C | OK | | | |
| 1195630007-A | No Preservative Required | OK | | | |
| 1195630007-B | Methanol field pres. 4 C | OK | | | |
| 1195630008-A | No Preservative Required | OK | | | |
| 1195630008-B | Methanol field pres. 4 C | OK | | | |
| 1195630009-A | No Preservative Required | OK | | | |
| 1195630009-B | Methanol field pres. 4 C | OK | | | |
| 1195630010-A | No Preservative Required | OK | | | |
| 1195630010-B | Methanol field pres. 4 C | OK | | | |
| 1195630011-A | No Preservative Required | OK | | | |
| 1195630011-B | Methanol field pres. 4 C | OK | | | |
| 1195630012-A | No Preservative Required | OK | | | |
| 1195630012-B | Methanol field pres. 4 C | OK | | | |
| 1195630013-A | No Preservative Required | OK | | | |
| 1195630014-A | No Preservative Required | OK | | | |
| 1195630014-B | Methanol field pres. 4 C | OK | | | |
| 1195630015-A | No Preservative Required | OK | | | |
| 1195630015-B | Methanol field pres. 4 C | OK | | | |
| 1195630016-A | No Preservative Required | OK | | | |
| 1195630016-B | Methanol field pres. 4 C | OK | | | |
| 1195630017-A | No Preservative Required | OK | | | |
| 1195630017-B | Methanol field pres. 4 C | OK | | | |
| 1195630018-A | No Preservative Required | OK | | | |
| 1195630018-B | Methanol field pres. 4 C | OK | | | |
| 1195630019-A | No Preservative Required | OK | | | |
| 1195630019-B | Methanol field pres. 4 C | OK | | | |
| 1195630020-A | Methanol field pres. 4 C | OK | | | |

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates that an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.

Laboratory Data Review Checklist

Completed By:

Glenn Hasburgh

Title:

Environmental Scientist

Date:

11/08/2019

CS Report Name:

Report Date:

10/25/2019

Consultant Firm:

Environmental Management, Inc.

Laboratory Name:

SGS

Laboratory Report Number:

1195630

ADEC File Number:

Hazard Identification Number:

1. Laboratory

- a. Did an ADEC CS approved laboratory receive and
- perform
- all of the submitted sample analyses?

 Yes No

Comments:

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

 Yes No

Comments:

2. Chain of Custody (CoC)

- a. CoC information completed, signed, and dated (including released/received by)?

 Yes No

Comments:

- b. Correct Analyses requested?

 Yes No

Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

 Yes No

Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

 Yes No

Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

 Yes No

Comments:

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No

Comments:

There were no discrepancies.

- e. Data quality or usability affected?

Comments:

No, there is nothing to indicate data quality or usability has been affected.

4. Case Narrative

- a. Present and understandable?

Yes No

Comments:

- b. Discrepancies, errors, or QC failures identified by the lab?

Yes No

Comments:

- c. Were all corrective actions documented?

Yes No

Comments:

- d. What is the effect on data quality/usability according to the case narrative?

Comments:

Matrix interference affected surrogate recoveries and LOQs in some samples. Other QC issues do not have an impact on data quality.

5. Samples Results

- a. Correct analyses performed/reported as requested on COC?

Yes No

Comments:

- b. All applicable holding times met?

Yes No

Comments:

c. All soils reported on a dry weight basis?

Yes No

Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No

Comments:

Multiple VOC analytes have LOQs above cleanup levels

e. Data quality or usability affected?

Yes No

Comments:

The elevated LOQs do affect quality but data is still usable.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No

Comments:

ii. All method blank results less than limit of quantitation (LOQ)?

Yes No

Comments:

iii. If above LOQ, what samples are affected?

Comments:

NA, all were below LOQ

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

NA, there were no affected samples.

v. Data quality or usability affected?

Comments:

No, there is nothing to indicate data quality or usability has been affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

 Yes No

Comments:

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

 Yes No

Comments:

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

 Yes No

Comments:

Recovery for trichlorofluoromethane was high in one LC>

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

 Yes No

Comments:

%R was high for same analyte.

- v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

None, trichlorofluoromethane was not detected in project samples.

- vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

 Yes No

Comments:

- vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No, there is nothing to indicate data quality or usability has been affected.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No

Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No

Comments:

There were various surrogate failures due to matrix interference.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No

Comments:

iv. Data quality or usability affected?

Comments:

There may be some impact to accuracy within the samples with high matrix interference, but this does not affect usability.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No

Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No

Comments:

NA only one cooler was used.

iii. All results less than LOQ?

Yes No

Comments:

iv. If above LOQ, what samples are affected?

Comments:

NA

v. Data quality or usability affected?

Comments:

NA

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No

Comments:

One duplicate was submitted for the entire project.

ii. Submitted blind to lab?

Yes No

Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs?

(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No

Comments:

For primary contaminants of concern, GRO and DRO.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

There is nothing to indicate data quality or usability has been affected.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below).

Yes No Not Applicable

Only disposable equipment was used.

i. All results less than LOQ?

Yes No

Comments:

NA

ii. If above LOQ, what samples are affected?

Comments:

NA

iii. Data quality or usability affected?

Comments:

NA

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No

Comments:

Appendix D
Site Assessment and Release
Investigation Summary Form



APPENDIX B



ADEC Storage Tank Program
Site Assessment & Release Investigation Summary Form

This document summarizes information from site assessments and release investigation reports that are required by Alaska's Underground Storage Tanks Regulations (18 AAC 78). It is intended to ensure minimum requirements are met when submitting full reports to ADEC. It cannot be substituted for comprehensive site assessment or release investigation reports. Site assessments (as defined in AS 46.03.450) are conducted to check for the presence or absence of petroleum contamination. If contamination of soil or groundwater is identified then a release investigation is required. Site assessments and release investigations must be conducted by a qualified impartial third party (as defined in 18 AAC 78) and in accordance with chapter two of the Underground Storage Tanks Procedures Manual (UST Manual).

How to fill out this form

Type or print in ink the requested information and sign in ink the "signature" blocks on page 7. Please attach this form to the comprehensive site assessment or release investigation report (or include it in the report introduction) and submit it to the nearest ADEC field operations office (Juneau, Anchorage, Fairbanks or Soldotna).

1. GENERAL INFORMATION

Purpose of Site assessment/

Release investigation:

Closure
(Closure, Change-in-service, Suspected or confirmed release, Compliance check, Other)

Owner of site:

American Village of Alaska, Inc. 907-822-3111
Name of company/legal entity that owns the site Phone number
Po Box 329 Glennallen, AK 99588
Mailing address City, State, Zip code

Operator of site:

Same
Name of company/legal entity that operates the site Phone number
Mailing address of operator City, State, Zip code

Location of site:

Glennallen Fuel and Service 907-822-3303
Name of site (e.g. John Doe's Service Station) Phone number
Mile 187 Glenn Highway Glennallen, AK 99588
Physical address of site (be as specific as possible) City, State, Zip code
Legal description of site Section/township/range
Gas Station 2292
Type of business at site Facility ID # / Tank ID number(s)

Financial Assistance

Applications filed

(this site only)

Site assessment/
tightness test

Tank cleanup

Tank upgrade

Tank closure

**Reports on file
with ADEC:**

Tightness test

Closure notice

Other _____

2. SYSTEM AND TANK STATUS

Describe the status, size, and contents of the tanks that have been at the site:

| Tank ID Number: | Tank No. <u>1</u> | Tank No. <u>2</u> | Tank No. <u>3</u> | Tank No. <u>4</u> | Tank No. <u>5</u> | <u>6</u> | <u>7</u> |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Tank status (check one) | | | | | | | |
| Currently in use | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Temporarily closure | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Closed/left in place | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Closed/removed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Total capacity (gallons) | <u>10,000</u> | <u>12,000</u> | <u>7,000</u> | <u>5,000</u> | <u>10,000</u> | <u>8,000</u> | <u>12,000</u> |
| Contents (diesel, etc) | <u>gasoline</u> | <u>gasoline</u> | <u>gasoline</u> | <u>gasoline</u> | <u>gasoline + diesel</u> | <u>gasoline</u> | <u>gasoline</u> |

3. FIRM CONDUCTING SITE ASSESSMENT AND RELEASE INVESTIGATION

Environmental Management, Inc 907-272-9336
 Name of firm Phone number

206 E. Firwood Ln, Suite 201 Anchorage, AK 99503
 Mailing address City, State, Zip code

Glenn Hasburgh Glenn Hasburgh
 Site assessment supervisor(s) Person(s) collecting samples

4. SITE HISTORY

Based on the best available knowledge, please check the appropriate box below:

Y N

- Was soil contamination observed or identified?
 Was groundwater contamination observed or identified?
 Did inventory control or prior tank repairs indicate a possible release?
 Has a tank tightness test been performed on any USTs on the site?
 Have any of the facility's USTs or piping ever failed a tightness test?
 Have there been any previous site assessments performed at this site?
 Do previous site assessments indicate any contamination has occurred?

If the answer to any of these questions is yes, please describe (or attach copy of report discussion). Give dates and circumstances, use continuation sheet if necessary:

5. FIELD SCREENING ANALYSIS

Date(s) of field screening: 9/16-17/2019
Temperature(s) during screening: 45-55 °F
Estimated wind speeds: 0-10 mph
Weather (clear, raining, etc): cloudy

Type of field detection instrument used: Mini Roe PID
Brand: Mini Roe
Model: 3000
Date calibrated: 9/16/19

Number of tests: 100
Range of results: 0-888

If an instrument wasn't used, what field detection method was used? _____

Number of tests: _____
Range of results: _____

6. COLLECTION OF SOIL SAMPLES

For site assessments done for USTs remaining in place

Check the appropriate boxes below (if not applicable, leave blank):

- | | | |
|--------------------------|--------------------------|--|
| Y | N | |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) within 5 feet of the UST? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples collected from within 2 feet below the bottom of the UST? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were dispensers connected to the UST system? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) adjacent to dispensers? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings (or test pits) adjacent to piping? |

How many borings/pits were made? _____ How many samples were analyzed? _____

For site assessments done at excavation and removal of USTs:

Check the appropriate boxes below (if not applicable, leave blank):

- | | | |
|-------------------------------------|--------------------------|---|
| Y | N | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were any areas of obvious contamination identified or observed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were samples taken from areas of obvious contamination? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were at least two discrete analytical samples taken from excavated pit area? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Was at least one sample taken from below each dispensing island's piping? |
| <input type="checkbox"/> | <input type="checkbox"/> | Was at least one sample taken from the piping trench? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were the samples referenced above collected taken from native soil within two feet below the bottom of the tank pit or dispenser/piping trench? |
| <input type="checkbox"/> | <input type="checkbox"/> | If multiple tanks were removed, were at least three samples collected? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were additional samples collected for each 250 square feet of excavated pit over 250 square feet? |

Number of distinct points sampled: 4 Estimated excavation's surface area: 666

For all site assessments

Check the appropriate boxes below:

- | | | |
|-------------------------------------|--------------------------|---|
| Y | N | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were field duplicate samples collected and analyzed? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all samples kept at the appropriate temperature until analysis? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Were all samples extracted & analyzed within recommended holding times? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Did chain-of-custody/transfer logs accompany samples to laboratory? |

14. QUALITY ASSURANCE

Check the appropriate boxes below:

- | | | |
|--------------------------|--------------------------|---|
| Y | N | |
| <input type="checkbox"/> | <input type="checkbox"/> | Were there deviations from Chapter 2 of the UST Procedures Manual? (Note that any deviations must be documented in a section of the comprehensive report) |
| <input type="checkbox"/> | <input type="checkbox"/> | Is a field quality control summary included in the reports? |
| <input type="checkbox"/> | <input type="checkbox"/> | Is a laboratory QC summary included in the report for all samples used to verify cleanup levels have been met? |

15. CERTIFICATION

The following certification is to be signed by the assessment firm's principal investigator or Quality Assurance Officer:

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of Chapter 2 of the UST Procedures Manual.

The following certification is to be signed by the UST owner/operator (or designated representative):

I certify that I have personally examined and am familiar with the information in this and all attached documents and based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

16. ATTACHMENTS

Please check the boxes showing any comprehensive reports attached to this summary:

- | | |
|--------------------------|---|
| <input type="checkbox"/> | Site Assessment Report (include if no release investigation is needed) |
| <input type="checkbox"/> | Release Investigation Report (include if release investigation is needed) |

7. LABORATORY ANALYSIS OF SOIL SAMPLES

(see Table 1 of UST Procedures Manual or Table G of 18 AAC 78.800(b))

Identify the possible contaminants (gasoline, BTEX, diesel, etc.): DRO, GRO, VOC, PAH

Please list the analytical methods used to detect these contaminants in the soil samples, the number of samples analyzed by each method, and the range of results for each method:

| Possible product | Analytical method | Number of samples | Range of results | Location(s) of sample point(s) w/ highest level of contamination |
|---------------------|-------------------|-------------------|------------------|--|
| <u>See attached</u> | <u>Report</u> | | | |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

8. GROUNDWATER INVESTIGATION

Check the appropriate boxes below:

- | | | |
|--------------------------|--------------------------|---|
| Y | N | |
| <input type="checkbox"/> | <input type="checkbox"/> | Was groundwater encountered during the excavation or drilling work? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were borings drilled/pits dug at least five feet below the USTs bottom? |
| <input type="checkbox"/> | <input type="checkbox"/> | Is groundwater or seasonal high water table known or suspected to exist within five feet of the bottom of the USTs? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were samples taken from borings drilled/test pits dug to this water level? |
| <input type="checkbox"/> | <input type="checkbox"/> | Were all these samples analyzed within recommended holding times? |

How many groundwater/saturated-soil samples were collected & analyzed? _____

How many of these samples were taken from the top 6" of water table? _____

How many field QC samples were analyzed?

_____ Trip blanks

_____ Duplicates

_____ Decon blanks

9. LABORATORY ANALYSIS OF GROUNDWATER SAMPLES

(see Table 1 of UST Procedures Manual or Table G of 18 AAC 78.800(b))

Identify the possible contaminants at the site: _____

Identify the analytical methods used to detect these contaminants in the water samples, the number of samples analyzed by each method, and the range of results for each method:

| Analytical method | Number of samples | Range of results (ppm) | Location(s) of sample point with highest level of contamination |
|-------------------|-------------------|------------------------|---|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

10. DISPOSAL OF MATERIALS

Check the appropriate boxes below (if not applicable, leave blank):

Y N

— Were tanks cleaned in accordance with API 2015 (Cleaning Petroleum Storage Tanks)?

— Were the tanks and piping removed and disposed in accordance with API 1604 (Removal and disposal of used petroleum Storage tanks)?

Where were the tanks and piping disposed? Sold to private party.

Where was the tank sludge and rinsewater disposed? NRC Alaska LLC

11. STOCKPILES

Check the appropriate boxes below:

Y N

— Is any soil stockpiled at the site?

— Are soils stockpiled in accordance with 18 AAC 78.311?

12. RELEASE INVESTIGATION

Check the appropriate box below: *SEE Report*

Y N



Was any petroleum contamination identified during site assessment?

(Answer "yes" if any evidence a release occurred; if no, proceed to item 13)

If contamination was found, what was matrix score for site? _____

(Attach completed matrix score sheet to this form)

When did release occur? _____ When was release confirmed? _____
(Date & time) (Date & time)

When was ADEC notified? _____ List ADEC staff notified: _____
(Date & time) (Name)

What is status of UST that prompted the investigation? _____
In use Out-of-use, product still in system Out-of-use; system empty Permanently closed

Briefly describe (or attach copy of report discussion) the steps taken to prevent further migration of the release and steps taken to monitor and mitigate fire and safety hazards: _____

13. SITE SKETCH

Sketch the site in the space below. Alternatively, attach a site map to the back of the form. The sketch (or accompanying narrative) should include the following information:

- locations of all USTs, piping, and dispensers
- distances from tanks to nearby structures
- property line locations
- location and dimensions of excavation(s)
- type of backfill used to surround system
- locations of any known historical releases
- locations of any observed contamination
- location of any boreholes and test pits
- soil types
- field screening locations and readings
- sampling locations, depths, & sample ID numbers
- water wells and monitoring wells (if present)
- depth to groundwater/seasonal high groundwater
- locations of any stockpiled soils
- north arrow
- bar scale (specify feet or meters)

For release investigations, in addition to the above information, show the groundwater gradient; surface drainages (including potential hydraulic connections with groundwater) and utility trenches.

14. QUALITY ASSURANCE

Check the appropriate boxes below:

Y N

- Were there deviations from Chapter 2 of the UST Procedures Manual? (Note that any deviations must be documented in a section of the comprehensive report)
- Is a field quality control summary included in the reports?
- Is a laboratory QC summary included in the report for all samples used to verify cleanup levels have been met?

15. CERTIFICATION

The following certification is to be signed by the assessment firm's principal investigator or Quality Assurance Officer:

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of Chapter 2 of the UST Procedures Manual.

Glenn Hasbaurgh
(Print name)

[Signature]
(Signature)

Environmental Scientist / Project Manager
(Title)

11/11/19
(Date)

The following certification is to be signed by the UST owner/operator (or designated representative):

I certify that I have personally examined and am familiar with the information in this and all attached documents and based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

(Print name)

(Signature)

(Street Address)

(Specify if owner, operator, representative)

(Date)

(City, State, Zip)

16. ATTACHMENTS

Please check the boxes showing any comprehensive reports attached to this summary:

- Site Assessment Report (include if no release investigation is needed)
- Release Investigation Report (include if release investigation is needed)

Appendix E
NRC Receipt and Bill of Sale

NON-HAZARDOUS WASTE MANIFEST

CUSTOMER DROP OFF

Please print or type (Form designed for use on elite (12 pitch) typewriter)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------------|---|--|---|---|---|----|-----|---|----|--|--|--|--|--|--|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|
| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. VSQG | | Manifest Document No. 144603-A | 2. Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Generator's Name and Mailing Address Glenn Allen Fuel MP 187 GLENN HWY GLENNALLEN, AK 99588 | | Glenn Allen Fuel MP 187 GLENN HWY GLENNALLEN, AK 99588 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Generator's Phone () 907-320-0756 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. Transporter 1 Company Name Glenn Allen Fuel | | 6. US EPA ID Number VSQG | | A. State Transporter's ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | B. Transporter 1 Phone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | | C. State Transporter's ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | D. Transporter 2 Phone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. Designated Facility Name and Site Address NRC ALASKA LLC 2020 VIKING DRIVE ANCHORAGE, AK 99501 | | 10. US EPA ID Number AKR000004184 | | E. State Facility's ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | F. Facility's Phone 907-258-1558 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. WASTE DESCRIPTION | | | Containers | | 13. Total Quantity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | No. | Type | 14. Unit Wt./Vol. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%; text-align: center;">HM</td> <td style="width:5%; text-align: center;"><input checked="" type="checkbox"/></td> <td style="width:55%;">UN1993, FLAMMABLE LIQUIDS, N.O.S. (GASOLINE, DIESEL) , 3 , PGII (FLASHPOINT=178F)</td> <td style="width:10%; text-align: center;">2</td> <td style="width:10%; text-align: center;">DM</td> <td style="width:10%; text-align: center;">445</td> <td style="width:5%; text-align: center;">P</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | HM | <input checked="" type="checkbox"/> | UN1993, FLAMMABLE LIQUIDS, N.O.S. (GASOLINE, DIESEL) , 3 , PGII (FLASHPOINT=178F) | 2 | DM | 445 | P | b. | | | | | | | c. | | | | | | | d. | | | | | | | | | | |
| HM | <input checked="" type="checkbox"/> | UN1993, FLAMMABLE LIQUIDS, N.O.S. (GASOLINE, DIESEL) , 3 , PGII (FLASHPOINT=178F) | 2 | DM | 445 | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. Additional Descriptions for Materials Listed Above) EA0205 (N12493) MIXED FUELS | | | H. Handling Codes for Wastes Listed Above D26698 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. Special Handling Instructions and Additional Information Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name (X) Jeremiah Silvey | | Signature <i>Jeremiah Silvey</i> | | Date 10 22 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name (X) Jeremiah Silvey | | Signature <i>Jeremiah Silvey</i> | | Date 10 22 2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NON-HAZARDOUS WASTE

BILL OF SALE

Let it be known that Catherine Verdine (Hereinafter referred to as the "Buyer") agrees to purchase from American Village of AR (Hereinafter referred to as the "Seller") for the price of \$ 102 (US Dollars) for the following item (Hereinafter referred to as the "Underground Storage Tank"):

Description: 10,000 Gal ¼ DBL Wall Pre Engineered STI-P3 Steel Tank Institute Compliance Tag#2292 Owner Tank #4&5 UST Tank.

Make: Anchorage Tank **Serial #:** _____ **Year:** 1991

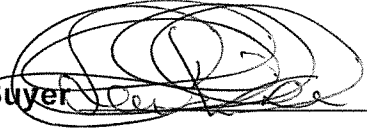
The date of the transfer of funds and the possession of the equipment shall occur on the 14 day of October, 2019. Seller acknowledges that they have the full ownership rights and is legally allowed to sell the UST Tank.

Buyer acknowledges that the underground storage tank has been cleaned and plugged with a 1/8" vent hole per federal and state regulations in accordance to 18 ACC 78. In addition, the Seller is transferring the underground storage tank with no warranties and strictly in "as-is" condition. At this time the underground storage tank is labeled "TANK HAS CONTAINED LEADED GASOLINE NOT SUITABLE FOR STORAGE OR LIQUIDS INTENDED FOR HUMAN OR ANIMAL CONSUMPTION." Buyer acknowledges that seller informed purchaser of applicable regulations under, Title 18 AAC 78, Underground Storage Tank regulations. In summary, a underground storage


tank that previously contained gasoline must not be used for drainage culverts or the subsequent storage of food or liquids intended for animal or human consumption.

Buyer accepts full liability for the underground storage tank for damages, and any third-party liability incurred from the use of the tank from the date of sale.

Buyer agrees to move the underground storage tank from the seller's property within two weeks from the date of sale.

Signature of Buyer  Date 10/14/19 Print Benjamin A. Verelin

Signature of Seller Jeremiah Silvey Date 10/14/19 Print Jeremiah Silvey

Signature of Witness  Date 10/14/19 Print Benjamin Facht