Final
Remedial Investigation/Remedial Alternatives Analysis Report

Bisonite Paint Company
Brownfield Cleanup Program
2266 Military Road and 2268 Military Road
Tonawanda, New York 14510
Site No. C915010

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May 2023

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TABLE OF CONTENTS

RI FIGURES

RAAR FIGURES

RI TABLES

RAAR TABLES

APPENDICES

LIST OF TERMS

ACM	ACM Northfield CR#3 LLC
AOC	Areas of Concern
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Program
COC	Contaminant of Concern
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
ECL	Environmental Conservation Law
GWSCO	Soil Cleanup Objective for the Protection of Groundwater
HASP	Health and Safety Plan
IHWDS	Inactive Hazardous Waste Disposal Site
IRM	Interim Remedial Measure
MRA	Military Road Associates, Inc.
NAPL	Non-Aqueous Phase Liquid
NTU	Nephelometric Units
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OVA	Organic Vapor Analyzer
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated biphenyl
PCE	Perchlororthylene (a.k.a. Tetrachloroethylene)
PFAS	Per and Polyfluoroalkyl Substances
PFOA	Perfluorooctane Acid
PFOS	Perfluorooctane Sulfonic Acid
PID	Photoionization Detector
PSA	Preliminary Site Assessment
PVC	Poly Vinyl Chloride
RAAR	Remedial Alternative Analysis Report
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
CSCO	Restricted Commercial Use Soil Cleanup Objective
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
SC	Site Characterization
SCO	Soil Cleanup Objective
SER	Site Evaluation Report
SRI	Supplemental Remedial Investigation
SS	Surface Sample
SV	Soil Vapor
SVOC	Semi-volatile Organic Compound
SWP	Supplemental Work Plan
TAL	Target Analyte List
TALM	Target Analyte List Metals
TCLP	Toxicity Characteristic Leaching Procedure

TIC	Tentatively Identified Compounds
TOG	Top of Groundwater
USCO	Unrestricted Use Soil Cleanup Objective
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compounds
QAPP	Quality Assurance Project Plan

Certification

I, Dixon Rollins, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this May 2023 Remedial Investigation/Alternatives Analysis Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER approved modifications.

Registered Professional Engineer

Signature

5/26/23

Date

1.0 INTRODUCTION

This Remedial Investigation/Remedial Alternative Analysis Report ("RI/RAAR") has been prepared in accordance with the New York State Department of Environmental Conservation's ("NYSDEC") Brownfield Cleanup Program ("BCP"). The current property owner, ACM Northfield CR#3 LLC ("ACM"), entered into a Brownfield Cleanup Agreement ("BCA") as a Volunteer on May 29th, 2019. An Application to Amend Brownfield Cleanup Agreement and Amendment dated March 14, 2023 was submitted to the NYSDEC advising that the Site was transferred from ACM to Tonawanda Storage Properties LLC ("TSP"), and requested that TSP be added onto the BCA, while the present party ACM remains on the BCA. Per Section IV, Item 12 of the BCA amendment application, the TSP applied as a Volunteer.

The Site consists of two tax parcels located at 2266 and 2268 Military Road in Tonawanda, Erie County, New York ("Site"). Erie County lists the two tax parcels as: tax parcel 52.12-6-16.1 with the address of 2268 Military Road covering approximately 0.31 of an acre; and tax parcel 52.12-6-16.2 listed as 2266 Military Road covering approximately 0.50 of an acre. The combined parcels total 0.81 of an acre and are currently zoned as vacant commercial and manufacturing properties.

This report has been prepared on behalf of ACM to describe and present the findings of both the Remedial Investigation ("RI") and Supplemental Investigation ("SRI"), and to provide sufficient information for the establishment of remedial action objectives, evaluation of remedial alternatives, selection of a Site remedy, and to support preparation of a Qualitative Human Health Exposure Assessment ("QHHEA").

2.0 BACKGROUND

2.1 Property Location

The Site is located on the west side of Military Road, approximately 0.25 of a mile north of the intersection of Military Road and Interstate 290 (see Figure 1). The land use surrounding the Site includes an 84 Lumber building to the north, a railroad corridor located west, and a commercial storage space facility located south of the Site. East of Military Road the land use includes retail shops, commercial properties, and residential properties. The nearest residential property is approximately 0.04 of a mile to the east of the Site. Figure 1 provides the location of the Site.

2.2 Site Description

The Site is currently actively used as a commercial storage property with approximately 8,843 sq. ft. of building space that formerly was the location of the Bisonite Paint Company ("Bisonite"). The former Bisonite building ("building") is currently used as storage space by multiple tenants for the storage of equipment, materials, products, etc. Currently a portion of the building is vacant. It is planned that the space will be rented for storage or light industrial uses. The portion of the building within the Site shares a wall, floor, roof, and foundation/slab with the remaining building that extends to the south (off-Site). The building has concrete block walls and a flat roof.

The on-Site portion of the building is used primarily for storage of contractor tools, equipment, and materials storage (wood, piping, equipment, products, materials, etc.). The remaining portion of the building is vacant and was most recently used by a fire sprinkler construction firm that used the space for material storage and offices. This portion of the building has open storage areas including an area divided into individual office spaces with wood farming, plasterboard walls and composite wood paneling. The office space has drop ceilings. The floor to ceiling height is approximately eight feet. The vacant space once had a gas-fired forced air heating system, but this system is no longer functioning. The approximate layout and current occupied tenant spaces of the former Bisonite building are shown on Figure 13.

Approximately 25 percent of the Site property is covered with building space. The remainder of the Site is used for parking and a driveway for the tenants. The attached Figure 2 is an aerial photograph of the Site and the surrounding properties. The adjacent off-Site building space is used by two tenants; one uses the space as a book warehouse and the other stores lawn maintenance equipment. The building spaces in a separate building immediately off-Site to the south are used by approximately 10 tenants using small 8 feet by 10 feet rental spaces. One tenant occupying the western-most part of the building uses the space to store gasoline powered equipment, trailer(s) and supplies. These spaces are unheated with only a portion of the building having electrical service.

2.3 Site History

2.3.1 Site and Area Use History

Historically, the Site was a portion of the former Bisonite Paint Company property which operated from 1947 to 1991. Bisonite was formerly located on four property parcels, two of which now form the subject Site. Bisonite formerly manufactured water-based and oil-based paints on the property. Wastewater from the paint manufacturing plant was believed to have flowed in an open trench to a settling lagoon at the west end of the Site.

In addition to the existing former Bisonite building on the Site, and the settling lagoon, Bisonite operated a tank farm and landspreading area now off-Site to the south. Remediation of the tank farm and landspreading area was conducted in 1996 by 2251 Military Road Associates, Inc. under the previous New York State Brownfield Program, the Voluntary Cleanup Program (“VCP”).

Based on a review of aerial imagery, the area surrounding the Site has changed significantly since the 1950’s. Commercial development currently exists east of the Site along the east side of Military Road, including a Kwik Fill service station and an office/warehouse building. A residential neighborhood exists east of the service station and office/warehouse building. North of the Site and adjacent to the railroad, the land is used for commercial/industrial purposes. A railroad corridor and the Tonawanda Municipal Landfill and a solar array are located west of the Site.

2.3.2 Site Regulatory History

In 1978 NYSDEC notified Bisonite to cease landspreading operations and begin hauling the waste to an approved disposal facility. The operation of the settling lagoon (“lagoon”) was terminated in 1978. Over the following four years, the lagoon was decommissioned and capped; however, it is unknown if the lagoon was dredged and the waste removed. During an NYSDEC Investigation in 1985, it was noted that the lagoon was not properly covered, and leachate was observed in small, ponded areas at the surface. Also observed was a small 3-feet by 7-feet area of stained ground on the side of the former lagoon sloping west toward the railroad tracks. It is unknown whether an engineered cap was placed over the lagoon.

In July and December 1990, a Preliminary Site Assessment (“PSA”) was conducted by TAMS Consultants and Dunn Engineering Company (“TAMS”) for NYSDEC. No evidence of leachate from the former lagoon was found during the PSA inspections. However, several tanks were observed along with stressed vegetation adjacent to the former drum storage pad/resin building.

While conducting the PSA in April 1991, an aerial photograph of the property from 1972 was discovered. The photograph displayed poor housekeeping practices at Bisonite, and this resulted in an inspection by NYSDEC's Hazardous Waste Division. During the RCRA inspection, waste containers with organic chemicals characterized as hazardous wastes were found. An Order on Consent was issued to Bisonite in December of 1991 requiring the company to remove the wastes, debris, and obvious contaminated surficial material. Treatment of groundwater was not addressed.

The PSA field investigation conducted in 1993 included the collection of soil, waste, and groundwater samples. The investigation was focused on areas of the Site and adjacent off-Site areas to determine if surface and subsurface contamination was present and whether it posed a threat to public health and the environment. The soils were found to be contaminated with PCBs, mercury, volatile organic compounds ("VOCs") and metals. PCBs were detected in the lagoon sediments but not at levels exceeding the 6 NYCRR Part 375 soil cleanup objectives ("SCO"). VOCs, specifically acetone, ethylbenzene, methylene chloride, toluene and total xylenes were also found to exceed the SCOs. The metals antimony, barium, chromium, lead and mercury were found to exceed the SCO. The groundwater was found to be relatively unaffected. As a result, NYSDEC classified the Site as a Class 3 Inactive Hazardous Waste Disposal Site registry. See Figure 3 for the locations sampled in 1993.

In 1996, 2251 Military Road Associates, Inc. ("MRA") submitted a Remedial Action Work Plan ("RAWP") to excavate the contaminated soil from the former landspreading area and tank farm to delist those portions of the property and redevelop the property for commercial/industrial purposes. Subsequent to this submission, MRA signed an Order on Consent with NYSDEC (Index #B9-0389-91). The RAWP was approved and implemented in October 1996. The removal was conducted over one day, and the confirmatory samples indicated the soil quality was consistent with the target soil cleanup goals for chromium and lead. No information is available to determine if other parameters were analyzed. MRA began remediating the adjacent tank farm and it was completed in a single day. However, MRA did not sample the soil in the tank farm to confirm if the cleanup goals were achieved. MRA instead measured the soil contaminant levels using a portable organic vapor analyzer. NYSDEC inspected the excavation and confirmed that the remediation of the tank farm was complete.

On April 20, 2017, NYSDEC reported a spill at the property (Spill No. 1700755) for a release of petroleum from improperly stored drums located off-Site (to the south). The lid on a drum was not properly sealed and rainwater displaced the liquid in the drum spilling it onto the ground surface. The impacted soil was removed and disposed in a permitted landfill. The operator of the property was also cited for dumping solid waste (tires, plant and tree debris and municipal solid waste) on the Site. NYSDEC closed the Spill file on July 13, 2017.

2.4 Previous Environmental Investigations and Reports

In March 1993 (note that the report date is not consistent with dates in the report) an NYSDEC contractor TAMS prepared a PSA Report on historical information obtained from various NYSDEC and municipal inspections, field inspections, investigation findings and sampling conducted between July 1990 and October 1993. The PSA Report determined that VOCs, semi-volatile organic compounds ("SVOCs") and PCBs exceeded residential SCOs, and metals exceeded background metal concentrations in the soil. Groundwater did not appear to have been impacted. NYSDEC concluded that hazardous waste as defined in 6 NYCRR Part 371 was present, but it did not appear to be a significant threat to public health or the environment as defined in 6 NYCRR Part 375.

In 1996, MRA submitted a RAWP to excavate the contaminated soils from the former landspreading area and tank farm to delist those portions of the property and redevelop the property for commercial/industrial purposes. After the RAWP submission, MRA executed an Order on Consent with NYSDEC (Index #B9-0389-91). NYSDEC approved and required the implementation of the RAWP in October of 1996. During the implementation of the RAWP, MRA did not sample the soil in the tank farm to confirm if the cleanup goals were achieved. MRA instead measured the soil contaminant levels using a portable organic vapor analyzer. NYSDEC inspected the excavation and confirmed the remediation of the tank farm was complete. Baron & Associates, P.C. prepared a Removal Action Implementation Report in December 1996 for the project.

In December 2008, NYSDEC prepared a Site Evaluation Report ("SER") for the Bisonite Site No. 915010. The SER was a review of the past regulatory activities and investigations of Bisonite focusing on an evaluation of the data associated with the former settling lagoon area. The SER indicated that as a result of sampling during the PSA, a determination could not be made that the lagoon waste was a characteristic hazardous waste since samples did not exceed TCLP levels. However, NYSDEC determined that the settling lagoon contained a listed hazardous waste based on the significant total concentrations of individual VOCs; the presence of Toluene and Xylene in the soil samples and in waste drums; the reported spills and leaks; and the discovery of raw product in an open trench drain connecting the manufacturing building to the settling lagoon. Elevated levels of Barium, Chromium, Lead and Mercury were found in the settling lagoon waste samples. Groundwater samples from monitoring wells indicated elevated levels of Antimony, Iron, Magnesium Manganese and Sodium, but the positions of the monitoring wells were not hydraulically down gradient of the lagoon area. The recommendations of the SER included: maintaining the Site as a Class 3 IHWDS; conduct additional assessment to characterize settling lagoon waste; install monitoring wells; and sample the groundwater to determine shallow groundwater quality down gradient of the lagoon.

As previously mentioned, on April 20, 2017, during an inspection of the property, NYSDEC discovered two drums of petroleum behind an off-Site storage building on the Niagara Mohawk Power Corporation property near the west side of the Site. On May 1, 2017, Leader met with NYSDEC at the Site and subsequently conducted a removal of the contaminated soil, cleanup of the adjacent concrete pad and off-Site disposal of the waste materials and drums. The verification samples collected after the soil removal indicated in one soil sample the concentration of Indeno (1,2,3-cd) pyrene slightly exceeded the NYSDEC CP-51 Soil Cleanup Policy soil cleanup objective ("SCO"). Leader prepared a Closure Report dated July 10, 2017, and NYSDEC determined that no further action was necessary and closed the Spill file on July 13, 2017.

On June 22, 2017, NYSDEC, Groundwater and Environmental Services, Inc. and Applus RTD prepared a report of a geophysical study conducted of the former settling lagoon on the Site. The study indicated several anomalies that are within the suspected lagoon area, but there was no evidence of a trench drain from the former manufacturing building to the lagoon.

Figure 4 shows the suspected lagoon anomalies and other sampling locations used by NYSDEC to evaluate the Site. Tables 1 and 2 provide a summary of the soil and groundwater sample analysis results.

3.0 SCOPE OF WORK

3.1 Site Investigation

The goal of the RI was to characterize the nature and extent of historic contamination on the Site. To achieve this goal, a multiple-level investigation is recommended including: characterize the Site's geology and hydrology; determine the nature of the chemical contaminants found on the Site; determine the extent of contamination of the chemical contaminants originating from the Site, and; evaluate the current conditions and any impacts to the environment and human health.

The environmental media sampled at the Site during the field investigation included surface and subsurface soils, sediments, groundwater, and soil vapor. Since there is no direct path to surface water or a municipal storm water conveyance, additional surface soil samples were collected at the limits of the pavement on the Site where storm water might run-off or run-on to the property. The RI Work Plan for the Site was approved on November 6, 2019.

Following the December 2019 through January 2020 RI activities, the NYSDEC requested that a Supplemental Remedial Investigation ("SRI") be conducted along the northern and western Site boundary to further evaluate potential contaminant exposures of the users of the north adjacent warehouse and office space occupied by 84 Lumber. The NYSDEC also requested further evaluation of indoor air and sub-slab conditions within a portion of the warehouse building south of the BCP boundary. The objective of the SRI was to determine the potential for soil vapor intrusion in the off-Site portion of the building and gain a better understanding of off-Site indoor air conditions as it relates to the New York State Department of Health ("NYSDOH") Guidance for Evaluating Soil Vapor Intrusion in New York State (2006), with updates ("SVI Guidance"). The work was conducted in accordance with the SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021. The results of the SRI are discussed in Section 4.2.2 and Section 4.2.6. A copy of the SRI Report is provided in Appendix D.

3.2 Deviations from the RI Work Plan

There were five instances where Leader deviated from the RI Work Plan:

- Due to scheduling conflicts, the field work was conducted in three phases: installation of soil borings; monitoring well installation; and conducting the groundwater sampling/soil vapor sampling. Originally, the soil borings and monitoring wells were proposed to be completed during one field event.
- One soil boring/monitoring well was originally planned for the east side of the Site building, but due to the discovery of paint residues Leader proposed moving the soil boring/monitoring well to the north side of the Site adjacent to the suspected disposal lagoon.
- During the sampling of the soil vapor probes, groundwater was drawn into one of the canisters (sample SV-2 located on the north side of the Site building) and the sampling was halted. A similar scenario occurred at the other sampling location (SV-1), so the location was moved to another portion of the suspected lagoon where groundwater was not an issue. The sampling of the indoor sub-slab and indoor air locations were not impacted, but the building's heating system was not operational. Leader contacted NYSDEC, and it was agreed that the sampling could continue without the heating of the building, but additional evaluation may be required in the future.

- During the sampling of the monitoring wells, all the monitoring wells were purged to a point where the sampling was delayed until enough groundwater recharged the monitoring wells. Monitoring wells MW-1 (west side of the Site) and monitoring well MW-5 (off-Site in the southeast corner of the property) did not recharge completely and sampling was extended to the following day. Monitoring well MW-5 was sampled successfully, but the sampling of monitoring well MW-1 could not be completed. SVOCs, pesticides and herbicides could not be sampled from monitoring well MW-1.
- A Community Air Monitoring Plan ("CAMP") was not implemented during the RI activities. All soil samples were collected from paved surfaces using push probe sampling techniques and the recovered soils were collected from the subsurface and contained within clear acetate liners inserted in the stainless-steel macro-core sampler. As such, fugitive dust was not generated during this activity. In addition, all RI activities were conducted on paved surfaces, so there were no soil disturbances created by the movement of the Geoprobe. However, periodic monitoring for VOCs utilizing a photoionization detector ("PID") was implemented throughout RI activities.

4.0 FINDINGS

4.1 Geology

Soil borings were advanced to investigate the Site's subsurface and soil boring logs and a typical monitoring well construction log prepared from these explorations are provided in Appendix B. Note that the construction of MW-1, MW-2, MW-3, and MW-4 were all the same; therefore, only a single log was prepared and labeled as "Well No. MW-1 to MW-4" and included as Appendix B of the SRI. The soil borings were positioned to further define the findings of NYSDEC's geophysical survey conducted in 2019, which showed several anomalies. Figure 5 shows the location of the RI and SRI, surface soil samples, soil borings, soil vapor, monitoring wells and co-located sub-slab/indoor air sampling locations. Figure 6 shows the location of the Soil Borings with an overlay of the geophysical data.

Eleven soil borings were completed at the Site. The final depth of the borings ranged from 10-feet to 20-feet below the ground surface ("bgs"). Soil samples for analytical sample collection or determining the Site's geology were collected continuously from the ground surface to the terminating depth.

The soil samples indicated a layer of fill across (west to east) the Site, between SB-8 and SB-1 ranging in total thickness from 8-feet (SB-5) to 16-feet (SB-2). In a north to south direction fill was found from 10-feet (SB-4) to 16-feet (SB-2). The soils and material included a mixture of sand, clay, metal scrap and concrete. In several soil boring locations paint residuals: SB-2, SB-3 and SB-7 were encountered. Below the fill the native soil consisted of stiff clay, silty clay, and clayey gravel. These findings appear to confirm the geophysical findings.

In many of the soil borings a water-saturated unit was found, only wet or moist intervals. The first observation of water ranged in depth from 4-feet (SB-6) to 17-feet (SB-1). This is consistent with NYSDEC's expectation for the Site, instead of having a flowing groundwater zone, the Site has a vertical seepage face across the clay layer. In the soil boring locations where fill or waste materials (e.g., paint residue) were encountered, the materials were suspected of not having the density of the silty clay/clay, thus having a higher permeability and hydraulic transmissivity.

Where streaks of solidified paint or paint-like staining were encountered, PID detections ranging from 328.0 ppm at the four-feet interval of SB-2 to PID levels exceeding 800 ppm at the four-feet interval of SB-7 was reported. No appreciable odors were evident in the soils containing evidence of paint, but this may have been attributed to the near freezing temperatures while conducting the RI activities. PID levels were not attained from soils lacking visual evidence of paint or paint staining. Organic vapor levels in the ambient air as monitored by the PID were not identified during the RI activities.

At locations where monitoring wells were installed, the wells could be purged to dryness. Because of these conditions, the water quality found on-Site may not be representative of areas beyond the Site.

Once monitoring wells were installed and developed, the static water was measured between 0.5 to approximately 3.5-feet bgs on-Site. Monitoring well MW-5 located off the Site had a water level of approximately 3.1-feet bgs. Table 3 provides the groundwater elevations, geochemical parameters, and physical measurements of each monitoring well. Figure 7 shows Leader's interpretation of the contours of the water surface. Monitoring well MW-5 was not used to contour the groundwater surface since it is not on the Site and the distance between on-Site data points and MW-5 is not close enough to be used for contouring. Also, given the suspected intervening natural clay and clay-like soils and the possibility of underground utilities with enhanced permeability zones in their bedding may not yield a true picture of the water flow across the property.

MW-1 presented slightly different conditions compared to the on-Site monitoring wells. MW-1 was placed approximately 6-10 feet away from the asphalt parking lot as planned, but it was discovered with the Site survey this location is also off-Site: The installation of the monitoring well hit an obstruction of bedrock or boulder caused refusal and the boring could not be advanced beyond 12-feet compared to the other monitoring wells placed at a depth of 15-feet. The water elevation in MW-1 is approximately 1.5 to 2-feet lower than the water surface found in the other monitoring wells. The steepness of the hydraulic gradient between MW-1 and MW-2 and MW-4 supports the seepage face interpretation of the hydraulic flow conditions.

In addition to the water levels observed in the monitoring wells, see Table 3, the Site also has a very shallow perched water table. During the sampling of the soil vapor points, which extended to a depth of 4-feet bgs, groundwater was found almost immediately below the asphalt surface. Sample SV-1 was abandoned, and a new location was selected where the boring was advanced to 4-feet bgs, and the borehole was filled with sand with the intake for the canister placed approximately 1-foot bgs and below a seal. At sample location SV-2 the opposite was found but the result was similar. The intake was installed as planned; however, on the day of the sampling once the vacuum was applied water was drawn into the sample canister. Although the static water level and the approximate level of the perched water appear to be similar, the connection between the two has not been tested.

The seepage face hydraulic conditions are also supported by the ability to purge the monitoring wells to dryness when using the low flow sampling protocols. The connection between the perched water level and the water table implied by the monitoring wells water levels has not been tested, but across the Site there may be some connection other than what might be assumed, (i.e., expected recharge of the lower water zones from the surface). The conceptual model of the Site conditions will also have to include the possibility of water being contributed from more permeable zones found within fill and waste materials. Sample analysis has shown even these waste/fill zones have a limited ability to provide water.

4.2 Sample Results

Sample analysis results are presented on Tables 4 to Table 9 with comparisons to applicable regulatory guidelines. Laboratory packages of the data are provided as Appendix C.

4.2.1 Surface Soil Samples

Figure 8 shows the locations where the surface soil ("SS") samples were collected from 0 to 2-inches. Four samples were collected around the (west and north sides) perimeter of the Site's asphalt driveway and parking lots where there is exposed soil. On the west side of the Site the property line is the approximately the edge of pavement.

The SS samples were analyzed for SVOCs, pesticides and herbicides, PCBs, Target Analyte List ("TAL") metals, mercury, and cyanide. The sample analysis results are shown on Table 4.

As Table 4 indicates, the samples contained PCBs, pesticides, metals, mercury and SVOCs exceeding the Part 375 Unrestricted Use Soil Cleanup Objectives ("USCOs").

PCBs (Total) were found in all 4 samples ranging from 0.072 mg/Kg in SS-2 to 0.317 mg/Kg in SS-1. The USCO is 0.1 mg/Kg, and this was exceeded in one sample (SS-1). The Part 375 Restricted-Commercial SCO ("CSCO") is 1 mg/Kg.

4,4-DDD was found in 3 out of 4 samples ranging from 0.011 to 0.021 mg/Kg. The USCO is 0.0033 mg/Kg and the only sample not exceeding the USCO was sample SS-2. The CSCO is 92 mg/Kg.

4,4-DDE was found in 1 sample at a concentration of 0.019 mg/Kg at location SS-1. The USCO is 0.0033 mg/Kg. The CSCO is 62 mg/Kg.

4,4-DDT was found in SS-1 at 0.028 mg/Kg and SS-2 at 0.024 mg/Kg. The USCO is 0.0033 mg/Kg, and the exceedances were found in samples SS-1 and SS-2. The CSCO is 47 mg/Kg.

Endrin was found in 3 out of 4 samples at concentrations of 0.021 to 0.058 mg/Kg The only sample not exceeding the USCO of 0.014 mg/Kg was sample SS-2. The CSCO is 89 mg/Kg.

Lead was found in all four samples at concentrations ranging from 51.5 in to 199 mg/Kg. The USCO was exceeded in samples from locations SS-1, SS-3, and SS-4. None of the samples exceeded the CSCO of 1,000 mg/Kg.

Zinc was found in all 4 samples at concentrations ranging from 176 mg/Kg to 226 mg/Kg. The USCO is 109 mg/Kg. The CSCO is 10,000 mg/Kg.

Mercury was found in all 4 samples at concentrations of 0.089 to 0.782 mg/Kg and was only detected in two samples above the USCO of 0.18 mg/Kg. The CSCO is 2.8 mg/Kg.

USCOCSCOUSCOUSCOCSCOCSCOUSCOSeven SVOC compounds in the form of polycyclic aromatic hydrocarbons ("PAHs") were found in all four surface soil samples. These compounds included benzo(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Five of these seven compounds (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno[1,2,3-cd]pyrene) were found at concentrations above their respective CSCO at all four sample locations; chrysene was reported at only one location above its CSCO, and benzo(k)fluoranthene was not reported above its CSCO value. The highest relative concentration of SVOCs were reported at the location of SS-3.

Tentatively Identified SVOCs

Tentatively identified compounds ("TICs") were found in all four samples. The concentrations ranged from 52.5 mg/Kg to 611.1 mg/Kg. The compounds identified were related to SVOC compounds.

4.2.2 Supplemental Remedial Investigation – Surface Soil

Following the RI activities, the NYSDEC requested that Leader conduct Supplemental Remedial Investigation ("SRI") along the northern and western Site boundary to further evaluate potential contaminant exposures of the users of the north adjacent warehouse and office space occupied by 84 Lumber. The work was conducted in accordance with the SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021

Ten surface soil samples were collected during the SRI. Samples ending in "A" (e.g., SSA) were collected on the Site's property line. Samples ending in "B" were collected off-Site. Figure 8 shows the locations of the samples. Discrete samples were collected at each location from the following intervals: 0 to 2-inches; 2 to 6-inches; 6 to 12-inches and 12 to 24-inches. PID monitoring was conducted prior to the sampling at each location and at each sample interval. The PID monitoring indicated that no measurable VOCs were detected by the instrument at any of the sample locations. The soils encountered consisted of fill in the upper 6 to 18 inches of the soil with asphalt, glass, gravel and silt/sand. Below the fill layer the soil consisted of clay-like soil, except for sample location SS2-B where silty sand was observed to a depth of 24-inches bgs.

Each soil sample was analyzed for PAHs and compared to CSCO values. The soil sample analysis results indicated PAH contamination exceeding the CSCOs was found along the property line, but the highest concentrations are along the north side of the Site. This is consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SWP findings indicate that the soil samples contain concentrations above the CSCO, the level of impact decreased below the 12-inch depth. The PAH exceedances in the shallow soil sample intervals is likely due to the observed prevalence of bituminous asphalt shards mixed in the soils rather than the result of past operations at the Bisonite facility.

A copy of the SRI Report, including the analytical package, and table of analytical exceedances is provided in Appendix A.

4.2.3 Subsurface Soil Samples

Figure 9 shows the location where the subsurface soil samples were collected. Table 5 provides the sample analysis results compared to NYCRR Part 375 URSOCs, CSCOs and SCOs for the protection of groundwater. Table 6 shows the soil sample analysis results for the NYS emerging contaminants list ("ECL") and 1,4-Dioxane.

All of the samples were collected from soil borings using a protocol developed for the RI Work Plan. In general, this protocol included the following: presence of waste material; soil/fill having odors or off-gassing measured with a portable organic vapor analyzer ("OVA"); fill; or in the absence of these factors a representative sample was collected from native unsaturated soil and saturated soil.

Subsurface soil samples were analyzed for organics, inorganics and TAL metals, VOCs, and selected samples from fill were analyzed for ECL and 1,4-Dioxane. Soil boring samples analyzed for ECL and 1,4-Dioxane. Twenty-eight samples were analyzed for organics, inorganics and metals. Three soil samples were analyzed for ECL and 1,4-Dioxane.

Organic compounds in the subsurface soil samples exceeding the USCO included:

VOCs

Acetone exceeded the USCO of 0.05 mg/Kg, ranging from 0.06 mg/Kg in sample SB-1 at the sample interval 1 to 2-feet to 0.68D (the qualifier D indicates the sample was diluted) at sample location SB-4 (1 to 2-ft.). Acetone exceeded the USCO in 10 samples. None of the samples were found to exceed the CSCO of 500 mg/Kg.

Ethylbenzene exceeded the USCO of 1 mg/Kg, ranging from 40 mg/Kg in sample SB-2 (15 to 17-ft.) to 790 mg/Kg at sample location SB-2 (4 to 6-ft.). Ethylbenzene exceeded the USCO in 5 samples. Three samples were found to exceed the CSCO of 390 mg/Kg.

Toluene exceeded the USCO of 0.7 mg/Kg, ranging from 89 mg/Kg in sample SB-3 (4 to 6-ft.) to 12,000 mg/Kg at sample location SB-2 (4 to 6-ft.). Toluene exceeded the USCO in 5 samples. Three of these samples also exceeded the CSCO of 500 mg/Kg.

Benzene exceeded the USCO of 0.06 mg/Kg in SB-2 at 0.16 mg/Kg (1 to 2 ft.), 15.0 mg/Kg (4 to 6 ft) and 0.70 mg/Kg (15 to 17 ft). SB-7 also exceeded the USCO of 0.06 mg/Kg at 7.1 mg/Kg (4 to 5 ft) and 19.0 mg/Kg (6 to 8 ft.). Concentrations found at SB-2 and SB-7 were below the CSCO of 44 mg/Kg.

Vinyl Chloride was found in the sample from SB-4 (16-18-ft.) at a concentration of 0.091 mg/Kg which is above the USCO of 0.02 mg/Kg. This sample did not exceed the CSCO of 13 mg/Kg. SB-11 also had detections of Vinyl Chloride of 0.00037 mg/Kg (1 to 2 ft.) below the USCO.

Tentatively Identified VOCs

TICs were found in 22 of the 28 samples collected. Although many were identified as unknown, the most frequently found compounds were identified as being benzene compounds, cyclohexane compounds and hydrocarbon related; octane, pentane and decane compounds. The estimated concentrations ranged from 0.0056 mg/Kg to 11,760 mg/kg in the sample from SB-7 at 4 to 5-feet.

SVOCs

SVOCs exceeded the USCO in one sample, SB-3 (4 to 6-ft.). Benzo(a)anthracene was found at a concentration of 5.1D mg/Kg; Benzo(b)fluoranthene was found at a concentration of 4.4D mg/Kg; Benzo(k)fluoranthene was found at a concentration of 1.9 mg/Kg; Chrysene was found at a concentration of 4.3D mg/Kg; Dibenz(a,h,)anthracene was found at a concentration of 0.64 mg/Kg, Dibenzofuran was found at a concentration of 7.2D mg/Kg; and Indeno(1,2,3-cd)pyrene was found at a concentration of 2.3 mg/Kg.

In the sample from SB-3 Dibenz(a,h)anthracene exceeded the CSCO of 0.56 mg/Kg at a concentration of 0.64 mg/Kg (4 to 6 ft). Benzo(a)pyrene was also detected in SB-3 at a concentration of 3.8 mg/Kg (4 to 6 ft.). The CSCO for Benzo(a)pyrene is 1.0 mg/Kg.

Tentatively Identified SVOCs

TICS were identified in all 28 samples with concentrations ranging from 1.1 mg/Kg to 204.3 mg/kg in SB-2 at 4 to 6-feet. Phenolic compounds, unknown hydrocarbons, and PAH related compounds were the most common compounds found.

PCBs

PCBs exceeded the USCO of 0.1 mg/Kg at seven locations, with 12 samples ranging from 0.284 mg/Kg at sample location SB-5 (3 to 5-ft.) to 24.9 mg/Kg at sample location SB-3 (1 to 2-ft.).

The CSCO of 1 mg/Kg was exceeded at four locations, with six samples ranging from 1.82 mg/Kg at sample location SB-5 (7 to 8-ft.) to 24.9 mg/Kg at sample location SB-3 (1 to 2-ft.).

Pesticides and Herbicides

4,4-DDE exceeded the USCO of 0.0033 mg/Kg in six samples. The results ranged from 0.01J mg/Kg at sample location SB-2 (15 to 17-ft) to 0.053 mg/Kg at sample location SB-7 (4 to 5-ft.). None of the samples exceeded the CSCO of 62 mg/Kg.

4,4-DDT at sample location SB-2 (4 to 6-ft.) at a concentration of 0.019 mg/Kg. exceeded the USCO of 0.0033 mg/Kg. None of the samples exceeded the CSCO of 47 mg/Kg.

Dieldrin was found at three sample locations and exceeding the USCO of 0.005 mg/Kg. in four sample locations. At sample location SB-2, the USCO; was excluded in two samples; sample SB-2 at 1 to 2-ft. at a concentration of 0.013 mg/Kg and sample SB-2 at interval 4 to 6-ft. at a concentration of 0.0058J mg/Kg. Dieldrin was also found at sample location SB-7 (4 to 5-ft.) at a concentration of 0.012 mg/Kg and location SB-3 (4 to 6-ft.) at a concentration of 0.024 mg/Kg. None of these samples exceeded the CSCO of 1.4 mg/Kg.

Heptachlor was found at one sample location, SB-3, and two samples at concentrations greater than the USCO of 0.042 mg/Kg; sample interval 1 to 2-ft. at a concentration of 0.047 mg/Kg and 4 to 6-ft. at a concentration of 0.14 mg/Kg.

Inorganics

Mercury was found in 7 samples at three locations, at concentrations exceeding the USCO of 0.18 mg/Kg. The results ranged from 0.421 mg/Kg. at sample location SB-6 (6 to 8-ft.) to 3.11 mg/Kg at sample SB-7. The CSCO (2.8 mg/Kg) was exceeded only at sample location SB-7 (4 to 5-ft.). At the 6 to 8-ft. sample interval the concentration of Mercury dropped to 0.564 mg/Kg, is below the CSCO.

Metals

Lead was found in five samples at concentrations exceeding the USCO of 63 mg/Kg. The exceedances ranged from 86.9 mg/Kg at sample location SB-6 (3 to 4-ft.) to 243 mg/Kg at sample location SB-7 (4 to 5-ft.). None of the samples were found to exceed the CSCO of 1,000 mg/Kg.

Zinc was found in six samples at concentration exceeding the USCO of 109 mg/Kg. The exceedances ranged from 125 mg/Kg at sample location SB-7 (6 to 8-ft.) to sample location SB-3 (1 to 2-ft.) at a concentration of 498 mg/Kg. None of the samples exceeded the CSCO of 10,000 mg/Kg.

ECL and 1,4-Dioxane

The samples analyzed for ECL and 1,4-Dioxane includes sample locations from SB-3 (10 to 12-ft.), SB-8 (1 to 2-ft.), and SB-9 (2 to 4-ft.). The sample from SB-8 was the only sample to identify an ECL (PFOA/PFC) compound. Perfluorooctanoic acid was found at a concentration of 0.14 J nanograms per gram (“ng/g”). 1,4-Dioxane was not identified in any sample.

4.2.4 Groundwater Samples

Figure 10 shows the locations of the monitoring wells and Table 7 shows the results compared to the 6 NYCRR Parts 703.5 and 703.6, Technical and Operational Guidance Series, 1.1.1 Ambient Water Quality Standards and Guidance Levels (“TOGS”). All samples apart from the sample from MW-1 were analyzed for TCL VOCs, SVOCs, pesticides and herbicides, PCBs, TAL metals, cyanide and mercury. Samples from MW-2 and MW-3 were also analyzed for ECL and 1,4-Dioxane and those results are shown on Table 8. The sample from MW-1 was analyzed for TCL VOCs, PCBs, TAL metals, mercury, and cyanide, because the monitoring well did not yield enough water over the course of approximately 24 hours. MW-5 did not initially provide enough volume of water for all of the analysis during the initial sampling event however a sufficient volume of water was obtained when the Site was revisited the following morning.

During the purging and sampling events, a potential free product layer, less than one-inch in thickness was found to be on the water surface within monitoring well MW-4. The free product was analyzed for the complete list of compounds. During the sampling the water within the monitoring well appeared to have an amber color, with the free product a slightly dark shade and an oily texture. Turbidity, temperature, pH, conductivity, dissolved oxygen, and ORP were not measured in MW-4 to prevent potential fouling of the instrument sensors. A peak PID reading of 460.0 ppm was reported in the annular space of the well head. As the results show for many of the compounds identified, the free product sample (MW4FP) had lower concentrations than in the water sample except for Chloroform, Ethylbenzene, and m&p Xylene. Available field notes from the January 2020 sampling event are included as Appendix F.

VOCs

2-Butanone (a.k.a. MEK) exceeded the TOGS groundwater quality criteria of 50.0 μg/L in three samples: MW-4 at a concentration of 850,000D μg/L; free product sample MW4FP at a concentration of 590,000D μg/L; and MW-3 at a concentration of 52,000D μg/L.

Acetone was found to exceed the TOGS groundwater quality criteria of 50 μg/L in three samples: MW-4 at a concentration of 15,000 μg/L; sample MW4FP at a concentration of 10,000 μg/L; and MW-3 at a concentration of 1,100J μg/L.

Chloroform exceeded the TOGS groundwater quality criteria of 7.0 μg/L in three samples: MW-4 at a concentration of 380J μg/L; sample MW4FP at a concentration of 980 μg/L; and MW-3 at a concentration of 180J μg/L.

Ethylbenzene was found to exceed the TOGS groundwater quality criteria of 5.0 μg/L in three samples: MW-4 at a concentration of 1,800 μg/L; sample MW4FP at a concentration of 2,000 μg/L; and MW-3 at a concentration of 860 μg/L.

Toluene was found to exceed the TOGS groundwater quality criteria of 5.0 μg/L in three samples: MW-4 at a concentration of 45,000 μg/L; sample MW4FP at a concentration of 25,000 μg/L; and MW-3 at a concentration of 15,000 μg/L.

Total Xylene was found to exceed the TOGS groundwater quality criteria of 5.0 μg/L in three samples: MW-4 at a concentration of 8,800 μg/L; sample MW4FP at a concentration of 8,900 μg/L; and MW-3 at a concentration of 4,190 μg/L.

Trichloroethene ("TCE") and cis 1,2-Dichloroethene were both found in the sample from MW-2 at concentrations which exceeded the TOGS groundwater quality criteria of 5 μg/L. TCE was found at a concentration of 8.1 μg/L and Cis was found at a concentration of 13.0 μg/L. These same contaminants were below TOGS values in the duplicate sample of MW-2.

Benzene was detected in the sample from MW-3 at 68J μg/L, which exceeds the TOGS groundwater criteria of 5 μg/L.

Bromodichloromethane was detected in the sample from MW4FP at a concentration of 260J μg/L, which exceeded the TOGS groundwater criteria of 50 μg/L.

Tentatively Identified VOCs

No TIC VOCs were identified in any of the samples.

SVOCs

During the monitoring well sampling, a SVOC sample was not collected from the MW-1 due to a lack of sufficient recharge in the well to collect the necessary volume of water for the sample analysis. Naphthalene, Bis(2-ethyl hexyl) Phthalate, and Total Phenol were the only SVOCs found to exceed the TOGS water quality criteria from the remaining wells. Naphthalene was found in sample MW-4 and MW-3. In sample MW-4 at a concentration of 11J µg/L was found, and in the sample MW-3 a concentration of 20 µg/L was found. Phenolic compounds were found in samples from MW-3, MW-4 and MW-5 at a concentration of 20.0 µg/L, 350 µg/L, and 65 µg/L, respectively. The TOGS groundwater quality criteria is 1 µg/L.

Tentatively Identified SVOCs

TIC SVOCs were found in all the groundwater samples except for MW-2. In MW-4 a concentration of 9,630 µg/L of SVOCs was found which was the highest concentration followed by MW-4 at 5,440 µg/L of TIC SVOCs. These samples also contained the highest concentration of organic compounds.

Metals

Most metals detected at concentrations above TOGS groundwater quality criteria were primarily limited to naturally occurring metals, including Iron, Magnesium, Manganese and Sodium. The elevated detections are reasonably attributed to turbidity in the groundwater sample. Filtering of the groundwater samples will be conducted during future groundwater events.

Apart from the Iron, Magnesium, Manganese and Sodium exceedances, a Mercury concentration of 0.49 µg/L was found at MW-1, which is slightly above the TOGS groundwater quality criteria of 0.40 µg/L. Antimony at 6.0J µg/L and Lead at 41J µg/L was found in MW-3, which exceeds the TOGS groundwater quality criteria of 3.0 µg/L and 25 µg/L respectively.

MW-4 and MW-4 FP initially consisted of one sample. Once collected, the free product was extracted from the sample container into a container dedicated for the analysis of the FP, creating two discrete samples for analysis.

The following metals were found in the FP sample of MW-4 at concentrations which exceeded the TOGS water quality criteria:

Antimony, 95 µg/L/TOGS 3.0 µg/L
Arsenic, 26 µg/L/TOGS 25 µg/L
Cadmium, 8.6 µg/L/TOGS 5.0 µg/L
Chromium, 73 µg/L/TOGS 50 µg/L
Iron, 44800 µg/L/TOGS 300 µg/L
Lead, 2260 µg/L/TOGS 25 µg/L
Magnesium 130000µg/L/TOGS 35000 µg/L
Manganese 6060 µg/L/TOGS 300 µg/L
Mercury 2.14 µg/L/TOGS 0.7 µg/L
Sodium 927000 µg/L/TOGS 20000 µg/L
Zinc, 155,000 µg/L/TOGS 2000 µg/L

Similar exceedances of metals when compared to the FP sample were found in the groundwater sample of MW-4 and summarized below:

Antimony, 105 µg/L/TOGS 3.0 µg/L
Cadmium, 8.5 µg/L/TOGS 5.0 µg/L
Chromium, 55 µg/L/TOGS 50 µg/L
Iron, 63800 µg/L/TOGS 300 µg/L
Magnesium 129000µg/L/TOGS 35000 µg/L
Manganese 6430 µg/L/TOGS 300 µg/L
Mercury 3.19 µg/L/TOGS 0.7 µg/L
Sodium 961000 µg/L/TOGS 20000 µg/L

Lead, 2830 µg/L/TOGS 25 µg/L Zinc, 160000 µg/L/TOGS 2000 µg/L

The sample from MW-3 contained Lead at a concentration of 41.0J µg/L and Magnesium at a concentration of 35,300 µg/L.

Apart from the naturally occurring metals, RCRA based metals were found to be either below laboratory method detection limits or below TOGS groundwater criteria in MW-2 and MW-5.

ECL and 1,4-Dioxane

Seven ECL compounds and 1,4-Dioxane were identified.

6:2 Fluorotelomer sulfonic acid (6:2 FTS) was identified only in the sample from MW-3 at a concentration of 0.66J nanograms per liter ("ng/L").

N-Ethyl perfluorooctane sulfonamidoaceitc acid was identified only in the sample from MW-3 at a concentration of 1.4J ng/L.

Perfluorobutane sulfonic acid ("PFBS") was identified in the sample MW-2 and MW-2 Dup at concentrations of 0.4J ng/L and 0.36J ng/L, respectively.

Perfluorobutanic acid ("PFBA") was identified in the sample MW-2 and MW-2 Dup at concentrations of 3.4J ng/L and 3.3J ng/L, respectively.

Perfluoroheptanoic acid ("PFHpA) was identified in the sample MW-2 and MW-2 Dup at concentrations of 0.73J ng/L and 1.9J ng/L, respectively.

Perfluorooctane sulfonic acid ("PFOS") was identified in three samples: MW-3 at a concentration of 2.3 ng/L, MW-2 at a concentration of 1.5J ng/L, and MW-2 Dup at concentrations of 1.7 ng/L.

Perfluorooctanoic acid ("PFOA") was identified in three samples: MW-3 at a concentration of 11 ng/L, MW-2 at a concentration of 1.4J ng/L, and MW-2 Dup at concentrations of 1.3J ng/L.

I,4-Dioxane was found only in the sample from MW-2 at a concentration of 0.044 µg/L.

Cyanide

Cyanide was only found in the sample from MW-1 at a concentration of 0.007J milligrams per liter ("mg/L") (7J ug/L). The TOGs water quality criteria for Cyanide is 200 ug/L.

4.2.5 Soil Vapor Samples

Soil vapor samples, sub-slab vapor samples, ambient air samples and indoor air samples ("air samples") were collected during two field events: in January 2020 during the RI, and in March 2021 during the SRI. These samples were collected in accordance with the NYSDOH SVI Guidance. At one location (SV-1 during the RI sampling) a soil vapor sample was not collected because of a perched water table interfering with the sampling. This location and results from the RI sampling areas shown on Figure 11. Table 9 also presents the sample results. The SVI Guidance criteria are shown on Table 10.

Compounds found in the various air samples were also found in the soil and groundwater samples, in particular Acetone, Benzene, Ethylbenzene, 2-Butanone, Toluene, and Xylenes. TCE was found in groundwater at one sample location. Tetrachloroethene ("PCE") and Methylene Chloride which were not found in the soil or groundwater were identified in the air samples.

Additional compounds were found in the air samples but were not found in either the soil or groundwater samples. This may be an over simplifying statement since some of these compounds are not targeted by the analysis used on the soil and groundwater samples.

The NYSDOH has guideline values for indoor air for three of the compounds found by the analysis, Methylene Chloride, PCE, and TCE. Of these three compounds only Methylene Chloride was found in the outdoor air at a concentration of 0.715 micrograms per cubic meter ("µg/M^3"). Methylene Chloride was also found in the indoor air sample at a similar concentration of 0.74 µg/M^3 and 1.02 µg/M^3 (the duplicate sample to Indoor-1 "Inside"). Methylene Chloride was also found in sub-slab sample SS-1 at a concentration of 0.844 µg/M^3. Methylene Chloride was not found in soil vapor sample location soil vapor SV-1 in the vicinity of the former lagoon.

PCE was found in samples SV-1 and SS-2 at concentrations of 4.02 and 2.93 µg/M^3, respectively. The NYSDOH SVI Guideline, Matrix B, would not require any further actions to address human exposures for PCE. TCE was found in four samples: SV-1 at a concentration of 3.65 µg/M^3, Indoor-1 at a concentration of 2.74 µg/M^3, the duplicate sample Inside at a concentration of 2.71 µg/M^3, and SS-1 at a concentration of 2.86 µg/M^3. Under the NYSDOH SVI Guideline, Matrix A, recommends that "reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges." (See Section 4.2.6 for supplemental air sampling results and building chemical inventory findings).

The other compounds of significance that do not have NYSDOH air guideline values can be divided into two groups: Group 1 where the concentrations found were higher beneath and inside the building than over the former lagoon; Group 2 where the concentrations found were higher in the former lagoon than they were inside or beneath the building.

Group 1 includes Acetone, Benzene, Chloromethane and 2-Butanone, Table 11 below shows these compounds were found to have higher concentrations in the sub-slab samples than in the former lagoon area. Also, the outdoor air concentrations mirror those of the indoor air quality, suggesting the concentrations of these compounds are not entirely from the sub-slab environment.

Table 11
Group 1 Compounds and Distribution

Client Sample ID		**SV-1**	**DUPLICATE-INSIDE**	**INDOOR-1**	**SS-1**	**OUTDOOR 1**	**SS-2**
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
ACETONE	ug/m3	**8.08**	**12**	**12.5**	**74.6**	**16.8**	**23.3**
BENZENE	ug/m3	**0.99**	**1.07**	**1.14**	**1.23**	**1.15**	ND (0.639)
CHLOROMETHANE	ug/m3	**0.423**	**1.52**	**1.58**	**1.55**	**3.7**	ND (0.413)
METHYLENE CHLORIDE	ug/m3	ND (0.694)	**1.02**	**0.74**	**0.844**	**0.715**	ND (0.694)
2-BUTANONE (MEK)	ug/m3	ND (3.69)	ND (3.69)	ND (3.69)	**8.96**	ND (3.69)	**11.5**

Group 2 includes Ethylbenzene, PCE, Toluene, TCE and Xylene, Table 12 below shows these compounds were found to have higher concentrations in the former lagoon area than in the sub-slab samples or indoor air samples. Also, the indoor air samples had concentrations of these compounds slightly higher than the outdoor air concentrations. This suggests that the indoor air concentrations were potentially being influenced by products containing VOCs currently in use and/or stored in other parts of the building (See Section 4.2.6).

Table 12
Group 2 Compounds and Distribution

Client Sample ID		**SV-1**	**DUPLICATE-INSIDE**	**INDOOR-1**	**SS-1**	**OUTDOOR 1**	**SS-2**
Analyte	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
ETHYLBENZENE	ug/m3	**4.81**	**1.3**	**1.2**	**1.66**	**0.876**	ND (0.867)
TETRACHLOROETHENE	ug/m3	**4.02**	ND (1.36)	ND (1.36)	ND (1.36)	ND (1.36)	**2.93**
TOLUENE	ug/m3	**18.6**	**10.5**	**9.94**	**12.1**	**2.57**	**0.9**
TRICHLOROETHENE	ug/m3	**3.65**	**2.71**	**2.74**	**2.86**	ND (1.07)	ND (1.07)
M&P-XYLENE	ug/m3	**13.2**	**5.03**	**4.6**	**7.72**	**2.98**	ND (1.73)
O-XYLENE	ug/m3	**3.69**	**1.47**	**1.32**	**2.14**	ND (0.867)	ND (0.867)

4.2.6 Supplemental Remedial Investigation - Air

Leader conducted a Supplemental Remedial Investigation ("SRI") on March 19, 2021, to further evaluate indoor air and sub-slab conditions within a portion of the warehouse building south of the BCP boundary (See Appendix A). The objective of the SRI was to determine the potential for soil vapor intrusion in the off-Site portion of the building and gain a better understanding of off-Site indoor air conditions as it relates to the NYSDOH SVI Guideline. The work was conducted in accordance with the Supplemental SRI Work Plan – Field Sampling ("SWP") approved by the NYSDEC and NYSDOH on March 1, 2021, and was conducted in accordance with NYSDOH SVI Guidelines.

Except for Methylene Chloride, none of the compounds that have NYSDOH indoor air guideline values were detected in the SRI samples. Methylene Chloride was found in the two indoor air samples at a concentration of 24.0 micrograms per cubic meter ("mcg/M^3") in sample IA-1 and at a concentration of 16 mcg/M^3 in sample IA-2. The concentrations of Methylene Chloride in the indoor air were below the NYSDOH 2017 indoor air guideline value of 60 mcg/M^3 .

Methylene Chloride was not found in the sub-slab samples or the outdoor air, indicating that that the indoor ambient air concentrations could be the result of use or storage of products that contain this chemical within the building.

Other compounds found were consistent with the on-Site samples collected during the RI activities. The following compounds were found: Acetone, Benzene, Ethylbenzene, Methyl Ethyl Ketone ("MEK"), Toluene and Xylene. No chlorinated compounds were found in the SRI sample analysis results however they were found in the samples during the RI. Acetone, MEK and Toluene were found in both the indoor air and sub-slab samples during the SRI, but only in the sub-slab samples during the RI. During the SRI, Benzene was found only in the sub-slab samples. During the RI, Benzene was found in sub-slab and indoor air samples.

Figure 2 and Table 3 of the SRI Report provides the locations and analytical results of the air concentrations.

On June 30, 2021, Leader returned to the Site to further assess other off-Site portions of the former manufacturing building to examine current tenant activities such as, types of chemicals used, stored and managed at the Site and determine possible sources attributing to the detections of the Methylene Chloride and other detected VOCs found in the indoor air during the SRI.

Leader entered a wood furniture refurbishing shop located at the southwest corner of the former manufacturing building. The shop is reportedly operated by one person on a part time basis. Activities include repair, stripping, sanding, painting, and refinishing of antique wood furniture.

Immediately upon entering the refurbishing shop, a lacquer thinner/stripper like odor was noted and a PID reading of 12.4 ppm was reported in the ambient air within the shop, with higher readings recorded near the flammable materials storage locker. An open five-gallon container of gelled paint stripper or lacquer thinner was observed at the doorway entrance, emanating VOC vapors. One (1) five-gallon pail of furniture stripper listed Dichloromethane and Methanol as its primary ingredients was observed. Dichloromethane is a synonym of Methylene Chloride. Various size containers and aerosol cans containing wood stains, mineral spirits, Stoddard solvents, petroleum distillates, paint thinner, spray toners and lacquers were observed in the flammable materials storage locker, and on shelves and tables within the shop.

The shop was not being ventilated at the time of entry. A wall mounted exhaust fan was observed near the ceiling of the shop and reportedly operates while the proprietor is engaged in stripping and refinishing operations. The fan directs the indoor building air directly to the atmosphere.

Insight Floor Coverings occupies a garage space at the northwest portion of the building within the BCP boundary. Commonly used products observed consisted of carpet, vinyl and ceramic tile adhesives stored neatly on shelves. The containers were labeled “Solvent and VOC Free” by the manufacturer or listed as “Contains VOCs less than 34 grams per liter”. The SDS’s for these products lists the ingredients as “Proprietary” but were identified as containing no hazardous ingredients. Approximately 98% of the products were new and un-opened. Minimal containers that had been previously opened were observed to be sealed tight with the original lids. Neither VOC odors, spillage, nor PID readings were observed inside the Insight Floor Coverings garage space.

The presence of products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop is a probable source of the constituents detected in the building’s indoor air during the RI and SRI.

Based on the RI results, in addition to the off-Site SRI findings, actions are not needed at this time to address exposures related to soil vapor intrusion. However, improving housekeeping practices and/or implementing more effective engineering controls within the furniture repair shop would likely improve the air quality within the building.

A copy of the SRI Report, including analytical results of the air sampling, NYSDOH Indoor Air Quality Questionnaire and photographs of the products used in the furniture refurbishing shop is provided in Appendix A.

4.3 Data Usability Summary Report

A Data Usability Summary Report (“DUSR”) was prepared for each group of samples (soil, groundwater, and air) by ME Holvey Consulting, LLC (“MEHC”). The DUSR is provided in

Appendix D. The DUSR performed on the SRI soil and air samples is provided in the SRI Report provided in Appendix A.

4.3.1 Soil Samples

The data was found to be usable. There were encumbrances to the analysis, but these did not affect that sample data. Matrix interferences were problematic to the SS samples SS-1, SS-3 and SS-4, and the ability for the analyst to get consistency with surrogate samples being analyzed for pesticides, herbicides, and PCBs. Matrix interference also played a role in the analysis of metals, where the sample contained large amounts of an element being used as a surrogate.

Laboratory contamination was identified during the analysis of Trip Blank samples, when a Method Blank found Acetone present. Acetone was not found in the Trip Blank.

There were no issues identified with the SRI analysis. MEHC found the data to be valid and usable.

4.3.2 Groundwater

The data was found to be usable. There were encumbrances to the analysis, but these did not affect that sample data.

The analysis of ECL in the sample MW-3 encountered matrix interferences due to the percentage of solids in the sample. The analysis was redone with a similar result. The results for the particular impacted ECL's were qualified with an "X." The impact of this resulted in a higher variability with the quantitation of result (bias). Since the impacted compounds were not identified above the method detection limit the impact on the analysis is small.

Groundwater samples were not collected during the SRI.

4.3.3 Air

The data was found to be usable for the RI and SRI. There were no issues identified with the RI analysis except that Methyl Ethyl Ketone was found in the laboratory method blank sample at a concentration below the laboratory reporting limit. This did not impact the analysis.

5.0 CONCEPTUAL MODEL FOR THE SITE

5.1 Physical Site Conditions

The Site is completely developed with a concrete block building covering approximately 8,843 sq. ft. and the remaining 26,440 sq. ft. is covered with asphalt pavement. The property line is shown on Figure 2. On the north and west sides of the Site the property line weaves on and off the edge of the pavement.

North of the Site the ground surface elevation slopes to the north and west on to land used as a lumber yard. East of the Site building the ground surface slopes towards the street. On the west side of the Site, the ground surface is relatively flat but immediately off the Site to the west the topography rises forming a berm or hill which then drops in elevation to a railroad right-of-way further to the west. The railroad right-of-way and the property to the north are at an elevation that is lower than the Site. Little if any runoff from the Site can run onto the property to the north. South of the Site the ground surface is flat and approximately the same elevation as the Site.

Because of the Site's topography, the Site building's main floor is at ground level on the west side of the Site and is approximately 3-feet higher than the ground surface on the east side of the Site.

Runoff falling on the west side of the Site flows east to catch basins near the west side of the Site's building. On the east side of the Site, runoff flows toward catch basins located between the building and the street.

5.2 Subsurface Conditions

Fill appears across the Site, mainly on the west side of the Site. The fill materials found include mixed soils with debris (concrete and scrap metal) and in some locations material which is interpreted as paint waste or paint residuals. The depth to the bottom of the fill is not uniform. Where the former lagoon is believed to be located, fill may be to a depth of 10-feet below the ground surface, but at the margins of the lagoon the fill is replaced by soil, clay and clay mixtures, interpreted to be native materials. Clay and clay mixtures are the most common soil types on the Site, and it is suspected these continue off the Site. Because of the clay, a saturated zone where groundwater is present was difficult to identify in the soil samples. Intervals of wetness were found, but in comparison to the water table they were quite different. Once the monitoring wells were installed, the static water levels were found at approximately 5 to 6-inches below the ground surface. This indicated that the saturated zone has a hydraulic head of 2 to 10-feet or the clay seeps water into any void that it can fill. This seepage is not water flow as is typically thought of in a porous matrix (i.e., sand), which flows in response to hydraulic head differences created in response to pumping or regional hydraulic head gradients but extends over a larger area. Over the short distances found on the Site, for example between MW-1 and MW-4 the difference in hydraulic head is 2 feet whereas between MW-1 and MW-3 (approximately the same horizontal distance) the difference is 0.44-feet, see Figure 7.

The lack of flow caused by the clay is also exhibited by the slow recharge response to purging and the lack of an extended groundwater contaminant plume. This is exhibited by the groundwater results between the pairs of wells, MW-1 and MW-2 and MW-1 and MW-4. These pairs have MW-1 in a downgradient position, where contamination would be expected if groundwater was flowing.

5.3 Extent of Contamination

The results of the RI and SRI, including the findings from previous investigations by the NYSDEC found soils to be primarily contaminated by paint manufacturing related VOCs, specifically acetone, ethylbenzene, methylene chloride, toluene, and xylenes. The metals antimony, barium, chromium, lead, and mercury were also found to exceed the CSCOs. Total PCB concentrations above the CSCO of 1.0 mg/Kg were detected primarily in soils less than six feet bgs in the settling lagoon sediments. The impacts appear to be concentrated in and immediately adjacent to the settling lagoon and former trench that was used to discharge paint related wastes to the lagoon (See Figure 5). Leader estimates that approximately 750 tons of soil/fill exceeding CSCOs exist within the limits of the settling lagoon and trench and 200 tons of soils/fill exceeding CSCO exists along the north and west Site boundaries.

The soil sample interval from 4 to 6-ft from SB-3, is impacted by SVOCs. No other soil samples show a SVOC impact in the SB-3 subsurface soil samples.

Six SVOC compounds in the form of PAHs were found in all four RI surface soil samples at concentrations exceeding the CSCOs. The PAH compounds identified included the following: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene all with CSCO of 1 mg/Kg; and Dibenz(a,h,)anthracene and Indeno(1,2,3-cd)pyrene with CSCOs of 0.56 and 5.6, respectively. Concentrations of the SVOCs above CSCOs ranged from 1.4 mg/Kg to 110 mg/Kg. Neither Metals, VOCs, Pesticides, Herbicides nor PCBs were detected at concentrations above applicable CSCOs from the RI surface samples.

Six additional surface soil samples were collected during the SRI along the northern and western Site boundaries and analyzed for SVOCs, including four surface samples collected off-Site (See Figure 5). The soil sample analysis results found SVOCs exceeding applicable CSCOs along and immediately outside the Site boundaries, with the highest concentrations along the northern Site boundary. The SRI findings are consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SRI findings indicate that the soil samples contain SVOC concentrations above CSCOs, the level of impact decreased below the 12-inch depth. The SVOC exceedances in the shallow soil sample intervals is likely attributed to the observed prevalence of bituminous asphalt mixed in the soils rather than the result of past operations at the Bisonite facility. The soils along the northern Site boundary consist of an approximate 415 feet linear vegetated berm separating the Sites paved surface from the adjacent 84 Lumber warehouse building. The berm averages less than ten feet in width, and approximately four feet of which is considered on-Site. Assuming an excavation depth of two feet, Leader estimates that approximately 120 cubic yards of unpaved soils with SVOCs above CSCOs exists along the northern limits of the Site.

Contaminants detected in the Site's groundwater are consistent with paint derived ingredients commonly associated with paint manufacturing operations. This includes the presence of VOCs exceeding TOGS such as Acetone, 2-Butanone, Chloroform, Ethylbenzene, Toluene, and Xylene found in MW-3, and substantially higher concentrations in MW-4 where a layer of free product was observed on top of the groundwater. MW-3 and MW-4 were installed within the footprint of the settling lagoon depicted on a 1972 aerial photograph (See Figure 5).

Apart from Iron, Magnesium, Manganese and Sodium exceedances, Antimony and Lead exceeding TOGS was found in MW-3. Substantially higher concentrations of Metals were detected in the groundwater and FP samples of MW-4. PCBs were also detected in groundwater in MW-3 and the groundwater sample and FP sample at MW-4. The samples from MW-3 and MW-4 demonstrate a strong correlation with the soil data from SB-2, SB-3, SB-5, and SB-6, because of the presence of similar VOCs, metals, and PCBs.

Apart from the Iron, Magnesium, Manganese and Sodium exceedances, a Mercury concentration of 0.49 µg/L was found at MW-1, which is slightly above the TOGS groundwater quality criteria of 0.40 µg/L. The sample from MW-1 is not impacted by VOCs, pesticides, herbicides or PCBs.

The sample from MW-2 shows little presence of the VOCs found in the other monitoring wells. However, TCE and Cis 1,2-Dichloroethene were detected above TOGS in the primary sample but were below TOGs guidance values in the duplicate sample. This may suggest the samples were collected from the soil/water interval that has not been impacted by the paint manufacturing and lagoon.

Although MW-1 and MW-2 are in relative proximity to the former paint lagoon, the lack of detectable contaminants appears to be related to the ability of the native clay mixtures to limit the migration of some organics. Based on the groundwater results and Site geology, the extent of groundwater contamination appears to be limited to perched water on top of an impermeable clay layer within the footprint of the settling lagoon.

Compounds found in the RI and SRI indoor and outdoor air samples and soil vapor samples were also found in the soil and groundwater samples, including, but not limited to, Acetone, Benzene, Ethylbenzene, 2-Butanone, Toluene, and Xylenes. Tetrachloroethene and Methylene Chloride, which were not found in the soil or groundwater samples, were identified in the air samples. After returning to the Site to complete a building chemical inventory, a furniture refurbishing shop located at the southwest corner of the building contained numerous products containing ingredients like the compounds detected in the indoor air samples. Elevated PID levels within the shop, open lid containers, distinct VOC odors, and a simplistic air exhaust fan discharging volatiles directly to the atmosphere suggests that the compounds found in the RI and SRI indoor air samples and outdoor air control sample are in large part contributing to these conditions.

5.4 Contaminants of Concern

The primary compounds and elements that are a concern have been identified given the current use of the Site and the adjacent properties. The zoning for the properties the type of use is not anticipated to change in the near future. The Site is identified by the Town of Tonawanda as being within the Waterfront Industrial District ("WID"). Based on the Site's current and likely future use identifying the contaminants of concern ("COC") as those exceeding the CSCO is consistent.
Table 13 identifies the COCs based on the media they have impacted.

Table 13
Contaminants of Concern

COC	Indoor Air	Soil Vapor	Surface Soil	Subsurface Soil	Groundwater
PCBs	Not analyzed	Not analyzed	< CSCO	>CSCO	>TOGS
PAHs	Not analyzed	Not analyzed	>CSCO	>CSCO	Not Found
VOC[1,2]	< NYSDOH Guideline	NYSDOH Guideline	Not Analyzed	>CSCO	>TOGS
Lead	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Cadmium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Chromium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Magnesium	Not Analyzed	Not analyzed	< CSCO	< CSCO	>TOGS
Zinc	Not Analyzed	Not analyzed	< CSCO	< CSCO	<TOGS
Mercury	Not Analyzed	Not analyzed	< CSCO	>CSCO	>TOGS

1. The VOCs identified that exceed the applicable cleanup requirement or guideline varies depending on media. In the subsurface soil those compounds in exceedance include Ethylbenzene and Toluene. In the water Ethylbenzene, Toluene, Acetone, Chloroform, TCE, Cis, and Xylene.
2. New York State does not have standards, criteria, or NYSDOH air guideline values for compounds in soil vapor. NYSDOH SVI Guideline, Matrix B, would not require any further actions to address human exposures for PCE. Matrix A recommends that "reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.

6.0 QUALITATIVE EXPOSURE ASSESSMENT

6.1 Potential Human Health Exposure Assessment

This section discusses the current and future routes of exposure given the current use of the Site and the adjacent property and its likely future use. Since the property is zoned for industrial use, it is likely there will not be a notable change to the Site. The Site consists of relatively unoccupied warehouse/self-storage space but could change to industrial/commercial spaces with office space or workspace for employees. The planned reuse is consistent with the surrounding property use and zoning.

Though VOC, Metals and PCB impacted soil/fill above Part 375 CSCOs is currently present at the Site, contamination is limited to the subsurface within the footprint of the former paint waste lagoon. Direct contact is highly unlikely and limited to non-routine contact during excavation work (construction worker).

The Site is completely paved, but there are areas immediately off the Site where there are unpaved areas of sediment/fill impacted by PAHs. The unpaved areas are vegetated by grasses weeds and woody vegetation. However, if these areas are stripped of vegetation, the soils could represent a source of contaminants and an exposure route via ingestion and/or inhalation of dust. At present, these areas are not utilized or maintained with no intent for future utilization. The PAHs detected during the RI and SRI are likely derived from bituminous asphalt particles mixed in the soils rather than from past manufacturing operations or waste handling practices at the Site.

Groundwater is not used as a source of water, as either a drinking water supply or operations, on or off the Site, so this route of exposure is eliminated. The Site currently has no tenants or operations that will conduct intrusive work so direct contact or ingestion exposures are eliminated. Human contact with groundwater can be expected to be limited to only one receptor, construction worker, during intrusive activities. Currently groundwater impacts appear to be primarily related to the former settling lagoon.

Inhalation is a route where the VOC COC's could enter the Site's building by way of vapor intrusion. This portion of the building is unoccupied minimizing the threat and the future use of the building is intended to be for warehousing. Warehousing/self-storage is also the primary use for the adjoining sections of the building. The portion of the building immediately south of the building and off Site, is occupied by up to two individuals. This space is a small office space, which is a flex-space (the walls are constructed to be removed based on the tenants needs and the ceiling does not reach the full height of the building's roof) and has a small room heater. The space also has large overhead doors to receive merchandize.

In the future, there is no significant changes to the routes of exposure, given the Site remains in commercial use, with the possible exception of a tenant or owner having employees. In this case vapor intrusion could be a route of exposure.

Under both the current and future plans utility workers or building contractors entering the Site to conduct repairs or renovate/construct buildings may disturb the ground surface and open new routes of exposure. These may include direct contact to soil and groundwater, ingestion of soil and inhalation of soil and vapor.

6.2 Receptors

Receptors to the COCs fall into the following categories: on Site employees; workers; visitors; utility workers; building contractors and repair personnel; and off-Site workers and residents.

The Site has only unoccupied warehouse/storage space. Tenants or their workers typically come to the Site or property for short periods of time to receive or deliver items. These individuals are not exposed since they do not work in occupied/workspaces where they spend prolonged periods of time or have work that entails disturbing the ground surface. Utility workers, building contractors and repair contractors entering the Site have the potential to conduct intrusive work into the soil to expose utilities for repairs, make new connections/installations, or for making renovations to the existing building/constructing new buildings. The disturbance of the ground surface creates the following potential exposure routes: direct contact with soil and groundwater if proper personal protective equipment isn't worn (gloves, boots, traditional work clothing, etc.); ingestion of soil or groundwater if skin, and clothing are not cleaned, there is potential for dirt or water to be ingested when eating; inhalation of soil dust created when the soil is disturbed or if the contaminants are inhaled if an individual enters an excavation where the contaminants may not mix with the air and remain in a concentrated form.

The routes of exposure to off-Site workers and residents are restricted to the inhalation of dust created when the Site soils are disturbed. Even though this is a potential outcome the likelihood of it occurring is low given the soil would have to be disturbed, the wind would need to be in the direction of the individual and a there must be sufficient velocity to create and carry airborne dust; and have a duration of time giving the individual a measurable dose of COC. Potential exposures will be addressed, and if necessary reduced by the implementation of a Community Air Monitoring Program and applying engineering controls such as wetting the soils to reduce dust during remedial activities.

Inhalation via the vapor intrusion route is also important for the adjacent building occupants since they share part of the building space which is off the Site. The off-Site adjacent building space is used for warehousing and has a large open space with overhead doors for accepting and loading items. Within the large space there is flex space office with space heating, where one to two employees work if not in the warehouse. VOCs were detected in the sub-slab and indoor air samples within this space during the SRI. The VOCs in the air are likely attributed to products used in the furniture refurbishing shop. Proactive actions to better contain, eliminate unused or expired products, and re-evaluate ventilation practices during furniture stripping and refinishing operations will be implemented to prevent or at a minimum, reduce the migration of VOCs throughout the building.

6.3 Fish and Wildlife Impact Analysis

An analysis of the existing and potential impacts the Site's contaminants has on the surrounding environment is evaluated. This analysis considers groundwater, impacts to the soil and its potential to run off the Site, impacts to waterways, and impact to the plants, animals, fish and their habitat.

The current Site is a commercially developed facility located within a highly developed area of the Town of Tonawanda. The Site is predominantly covered with asphalt, concrete and building, which provides little or no wildlife or food value, and/or access to the detected subsurface contamination. The surrounding properties are also developed. South and west of the Site, there are larger areas of grass covered land, but these are right-of-ways or areas being used by the Town of Tonawanda as a landfill. As Figure 12 shows, there is little in the surrounding area that is valued as a sensitive environment (i.e., habitat, wetland, surface water).

Runoff from the Site is generally conveyed to catch basins and eventually to a municipal storm water system or to the street where again the storm water is discharged into municipal storm water system. On the north side of the Site, where the Site is adjacent to another commercial property, some Site runoff may enter the off-Site property. On the west side, the Site is adjacent to a berm/hill which restricts runoff from entering this property. To the south, runoff from the Site co-mingles with the off-Site property runoff and enters catch basins on the property or the

Site. The eventual discharge of the municipal storm water system is into Two Mile Creek; the shortest distance from the Site is 0.9-miles to the west. Although the surface soil found on and immediately off the Site is impacted by PAH compounds, the total area being exposed to runoff is minor compared to the paved and building areas also contributing runoff. The estimate of exposed soil is approximately 1,550 sq. ft. compared to a Site area of approximately 35,300 sq. ft.

Groundwater samples shows that the Site has been impacted and as a result there is a potential for it to migrate off the Site. Figure 7 shows the water table contours which suggests water flow is to the west-northwest. The water quality data (see Table 7) suggests that the downgradient monitoring wells have not been significantly impacted. The presence of the clay soil inhibits the amount of water potentially leaving the Site. Regional groundwater flow data is limited but suggests land northwest of the Site may have water flow patterns toward the Site. This suggests either a mutual point of discharge, possibly in the railroad right-of-way or in a deeper groundwater zone.

No unacceptable ecological risks are anticipated under the current or reasonably anticipated future use scenario.

6.4 Exposure Pathway Analysis

The impacts found at the Site include COCs in the sub-surface soils within the former lagoon and lagoon trench (VOCs and PCBs), exposed surface soils along the north and west BCP Site boundary (SVOCs), groundwater (VOCs, Metals and PCBs), and VOCs in soil vapor and sub-slab vapor. VOCs, including but not limited to Methylene Chloride and BTEX compounds, were detected in the indoor air. The presence of products containing these VOCs observed in the furniture refurbishing shop is the probable source of the constituents found in the indoor air during the RI and SRI.

Because of the use of the Site as unoccupied warehouse/storage space, many of the impacts, if not disturbed, do not have a completed route of human exposure. There are exceptions, which include the potential exposure to dust from surface soil and the potential exposure of VOCs from contaminated soil and groundwater by way of vapor intrusion. The potential completed routes of exposure to the environment include surface soil exposure to runoff and impacted soil exposure to groundwater (soil contaminant concentrations exceeding groundwater protection values). The potential for surface soil pathway has been shown to be small because of the small, impacted area compared to the total Site area. The soil data shows there are samples where the contaminant concentrations are greater than the Part 375 Groundwater Protection SCO ("GWSCO") and several of these contaminants can be found in the groundwater. This is a potential completed route of exposure, but the impacts do not appear to be migrating from the Site as evidenced by the lack of contaminants found in wells installed outside the footprint of the former paint waste lagoon.

7.0 RI CONCLUSIONS

The former use of the Site as a paint manufacturer impacted the soil, groundwater. The COCs contravening the CSCOs, GWSCOs, and TOGS in the various media at the Site include VOCs, PAHs, PCBs and elements (metals and mercury). The COCs appear to be relatively contained to sediments and perched groundwater within the footprint of the former paint waste lagoon.

The observed furniture refurbishing shop that occupies the southwest corner of the building is a probable source for the VOCs detected in the indoor air as demonstrated during the SRI.

The soil and groundwater data indicates there is limited on-Site exposures of human health as the Site outside the building footprint is mostly paved. Site exposures are likely to occur if the ground surface or soil is disturbed and when there is dry surface soil conditions and wind velocities that might create dust hazard.

If the Site building becomes a permanently occupied space, then vapor intrusion should be re-evaluated after conditions within the furniture refurbishing shop have been improved to confirm that the contaminants detected are not emanating from the sub-slab environment. Based on the RI and SRI soil vapor and indoor sampling findings, an SSDS is not required for the Site. There are no plans for the future development of occupied buildings at the Site.

The potential exposures off-Site are like those found on the Site but are limited to dust hazards and exposure to airborne chemicals used in the furniture restoration shop because the building beyond the BCP boundary has two occupants. Groundwater is impacted, but the water flow data suggests contamination is not migrating off-Site due to stiff clay limiting groundwater flow. Groundwater impacts appear to be contained within the footprint of the former paint lagoon. The Site and surrounding properties are serviced by municipal water and there are no users of groundwater in the general area.

7.1 Planned Remedial Work

Planned remedial excavations will be completed at the exposed soil locations and within the former paint waste lagoon in accordance with a NYSDEC approved RAWP, Health and Safety Plan ("HASP") and CAMP. The excavation of impacted fill/soil will be conducted to the depth required to achieve Restricted Commercial Use SCOs.

Due to the low water volume within the soil / fill in the paint waste lagoon it is expected that impacted surface water will be co-mingled with the soils during the excavation of soil/fill without exceeding disposal facility moisture restrictions or creating runoff of water outside the excavation limits. If excavation water is greater than anticipated, it will be managed and treated (e.g., carbon stripping) during excavation activities in accordance with Tonawanda Sewer Authority temporary discharge permit and NYSDEC requirements. After completion of the planned source area removal, and proper extraction and treatment of excavation waters, it is expected that on-Site groundwater contaminant concentrations, particularly in the area of MW-4, will readily decline.

8.0 REMEDIAL ALTERNATIVES EVALUATION

This section provides an analysis of the selected remedial approach by media using Remedy Selection Evaluation Criteria identified in Section 4.2 of Guidance Document DER-10; Technical Guidance for Site Investigation and Remediation. In accordance with DER 10 Section 4.4(d)2, in addition to a "no action" baseline alternative, the following two alternatives are developed for the Site based on NYSDEC-defined cleanup tracks as follows:

Track 1: 6 New York Codes, Rules, and Regulations (6NYCRR) Part 375-3.8(e)(1) requires Site media to meet Part 375 SCOs that will allow the Site to be used for any purpose without restrictions on the use of the Site (i.e., unrestricted use). The soil cleanup must achieve the unrestricted use criteria at any depth above bedrock. Details and remedial approaches of the Track 1 alternatives are described in report Sections 10.1.3 and 10.2.3.

Track 4: Track 4 cleanups generally include some combination of techniques to: remove or treat contaminants; control the spread of contaminants; prevent contact with contaminants; restrict the use of the property and provide for the proper management of the Site into the future. This track addresses all sources as a component of the remedy and allows for the development of Site-specific soil cleanup levels below a cover system over exposed residual contamination that complies with the use based SCOs in Table 375-6.8(b) levels for the top one foot for non-residential uses. Details and remedial approaches of the Track 4 alternatives are described in report Sections 10.1.2, 10.2.2, 10.3.2 and 10.3.3.

8.1 Remedial Action Objectives

To select an appropriate remedial alternative for the Site, a list of appropriate remedial action objectives ("RAOs") were developed to establish the criteria that remedial alternatives are evaluated against. In accordance with NYSDEC DER-10, Section 4.1, RAOs are established for the remedy selection process:

1. From the generic RAOs identified, as applicable to the contaminants identified by the RI; or
2. By developing a Site-specific RAO, where the generic RAOs provided on the NYSDEC's website do not address a unique Site condition. Such RAO's may be proposed by the remedial party or as required by DER-10.

8.1.1 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with impacted soil.
- Prevent inhalation of, or exposure to, impacts from the COCs in the soil.

RAOs for Environmental Protection

- Prevent migration of impacts that would result in groundwater or surface water impacts.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through terrestrial food chain.

Since there are no significant ecological resources on the Site, the RAO for Environmental Protection; is not considered appropriate for the Site.

8.1.2 Soil Vapor

RAOs for Public Health Protection

- Routinely monitor impact to public health resulting from existing, or the potential for, soil vapor intrusion into the building at the Site.

8.1.3 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of or direct contact with groundwater containing levels exceeding drinking water standards.
- Remove the source of potential groundwater contamination.

RAOs for Environmental Protection

- Groundwater quality restoration by evaluating the feasibility of measures to restore groundwater quality to meet applicable standards, criteria, and guidance ("SCGs").
- Prevent the discharge of impacts to surface water.
- Remove the source of ground or surface water impacts.

With respect to the RAO for Environmental Protection to prevent the discharge of impacts to surface water; the Site has no direct connection to surface water. There is no need to address this RAO since it is not appropriate for the Site. In the event that Site activities disturb the ground surface, the property line will be protected to eliminate the potential for runoff to enter the street or the adjacent properties.

8.2 Additional Evaluation Criteria

In addition to the selected remedy capable of achieving applicable RAOs, 6 NYCRR Subpart 375.1.8(f*)* provides that "A remedy shall be selected upon consideration of the following nine factors:"

- Overall protection of public health and the environment
- Compliance with SCG
- Long-term effectiveness and permanence
- Reduction in toxicity, mobility, or volume of impacts through treatment
- Short-term impacts and effectiveness
- Implementation
- Cost-effectiveness, including capital cost and annual maintenance plan costs
- Community acceptance
- Land use

9.0 IDENTIFICATION OF TECHNOLOGIES AND DEVELOPMENT OF ALTERNATIVES

9.1 General Response Actions

During the RI and SRI, four media elements were found to be impacted and require evaluation to determine an appropriate remedial response. The impacted media include the following:

- the surface soil along the north and west property boundaries
- the soil/fill within the Site's former paint waste lagoon and associated trench
- the groundwater beneath the Site's former paint waste lagoon
- soil vapor beneath the warehouse building and VOC detections in the indoor air.

The alternatives must address the RAOs and the nine additional evaluation criteria to continue the use of the Site for commercial purposes.

9.2 Presumptive Remedies

NYSDEC has given preference to proven presumptive remedies to streamline the alternative development process. These presumptive remedies are discussed in the following sections.

9.2.1 Soil

For soils impacted with organic compounds or metals the following remedies are considered presumptive remedies:

- Excavation with off-Site disposal
- Excavation combined with aerobic treatment via chemical bio-augmentation
- Cover system with institutional controls

NYSDEC has identified other remedies, but those are considered not practical for the Site. They include the following:

- Thermal desorption
- Incineration
- Immobilization

Thermal desorption as an in-situ treatment is not considered due to the energy needed to implement the remedy because of the soil high moisture content exceeding the cost of other technologies. On-Site incineration as a treatment option for excavated soil, like thermal desorption, is not practical based on the high moisture content of the clay like soils and the footprint needed to implement the technology impacting the other operating businesses.

9.2.2 Soil Vapor / Indoor Air

For soil or groundwater impacted with VOCs the following remedies that are considered presumptive remedies:

- Vapor mitigation system
- Active monitoring and management

The other remedies that are not considered practical for the Site include:

- Catalytic oxidation
- Thermal oxidation
- Soil vapor extraction (SVE)

Catalytic and thermal oxidation remedies are not being considered because they are intended to treat off-gas from SVE and sub-slab vapor depressurization systems ("SSDS"). At this time off-gas treatment is not anticipated, and the installation of an SSDS is not required for the Site. SVE is not being considered because of the shallow water table conditions and the vacuum needed for extraction causing groundwater to be entrained into the vapor flow. Further the clay-like soils are not ideal for SVE. However, if any change in use occurs at the Site (e.g., from non-occupied storage to daily occupants), the area(s) affected at the Site by the change will be evaluated for soil vapor intrusion (SVI).

9.2.3 Groundwater

For groundwater impacted with VOCs, the following are considered presumptive remedies:

- Extraction and treatment:
    - Air stripping and sparging
    - Treatment via granulated activated carbon ("GAC")
    - In-situ injection of oxygen release compounds ("ORC") for enhanced bioremediation
    - Mechanical mixing of ORC into saturated soils and groundwater for enhanced bioremediation
    - In-well air stripping
    - Separate phase recovery and treatment

Extraction and treatment and assorted effluent treatment technologies ideally require a constant flow of groundwater unless a batch system is developed where a technician would come to the Site periodically to treat the collected effluent. The technologies using in-situ techniques are more cost effective and adaptive as conditions change.

Air sparging and in-well air stripping are considered, but if SVE is required to collect the off-gas, then the shallow water table makes these technologies impractical. In-well air stripping by itself may also be impractical because of the shallow water table. Since a non-aqueous phase liquid was identified in one well on the Site, this alternative may be appropriate; however, the extent of the free product layer may not be large enough to justify extraction as a feasible alternative.

In-situ injection of proprietary amendments such as Regenisis™ ORC® is not practical due to the clay soils and low transmissivity of groundwater. ORC treatment is not effective in treating free product on groundwater observed in MW-4. In addition, ORC treatment is not intended to remediate PCBs and metals in the soil.

9.3 Development of Alternatives

9.3.1 Soil

In order to remediate or control the soil impacts, technologies that can address both organic compounds, metals and PCBs are preferred, but technologies that can address the impacts singularly (i.e., organics) will also be considered. There are surface soils impacted by PAHs; and subsurface soils beneath the pavement are impacted by VOCs, PAHs, PCBs, and Mercury. The presumptive technologies being considered include the following:

- Excavation with off-Site disposal of unpaved surface soils and former paint waste lagoon subsurface soils/fill
- Cover system as an engineering control and implementation of institutional controls

9.3.2 Soil Vapor / Indoor Air

Although New York State does not have standards, criteria or NYSDOH air guideline values for concentrations of VOCs in the subsurface vapors, various COCs were detected underneath the Site building. A soil vapor intrusion evaluation of the building, including the off-Site portion, indicates that mitigation is not required at this time. The presence of furniture stripping and finishing products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop located in the off-Site portion of the building is a probable source of the constituents detected in the building's indoor air during the RI and SRI. Because of these conditions, improved housekeeping practices by securing container lids, properly disposing of empty and/or expired products, and implementing more effective engineering controls within the furniture repair shop by upgrading the wall mount exhaust fan, sealing the annular space around the fan and installing particulate air filters, followed by periodic indoor air sampling in the existing building is recommended to improve air quality in the tenant space and throughout the building. However, if any change in use occurs at the Site (e.g., from non-occupied storage to daily occupants), the area(s) affected at the Site by the change will be evaluated for soil vapor intrusion (SVI).

9.3.3 Groundwater

To remediate the groundwater impacts, remedial technologies that address VOCs, PCBs, Lead, Chromium and Mercury are considered. Because of their affinity to absorb onto particulates, PCBs and Mercury could be the result of the turbidity of the MW-4 and MW-4FP samples where these compounds were found. Chromium and Lead may also bond with particles, or these can also be found in solution. The preferred presumptive remedies to be evaluated include:

- Removal and off-Site disposal of the contaminant mass representing the groundwater contamination
- Chemical augmentation for enhance bioremediation of VOCs in conjunction with source removal
- Monitored natural attenuation ("MNA") as an exit strategy for biodegradable groundwater plumes after the source area (Paint waste lagoon) has been remediated to the extent feasible. MNA is completed when the quality of the groundwater does not pose a risk to receptors hydraulically downgradient of the Site. MNA is a component of the remedial alternatives presented herein

10.0 ALTERNATIVES ANALYSIS

In accordance with NYSDEC DER-10's guidelines, at a minimum, two alternatives, will be developed for a BCP Site if there is a proposal for restricted use, one alternative will achieve unrestricted use relative to soil impacts, without the use of institutional/engineering controls. The following section outlines the remedial alternatives that were evaluated. The alternatives and remedial approaches are discussed under the following AOCs:

- Surface soil impacts.
- Subsurface soil impacts.
- Groundwater impacts.
- Soil vapor impacts.

The remedial approaches for each of the AOCs are discussed in detail in the following sections, which are consistent with the RAOs. The recommended remedial alternative provided in Section 11.0 of this RAAR groups each of the AOCs into one operational unit.

Surface Soil Impacts

- Alternative 1 – No action.
- Alternative 2 – Track 4 Cleanup, removing impacted soil that exceeds Restricted Commercial Use SCOs ("CSCOs"), and placing DER-10 approved fill to serve as a barrier, preparing a Site Management Plan, and placing institutional controls on the Site.
- Alternative 3 – Track 1 Cleanup using soil excavation and off-Site disposal to achieve Unrestricted use SCOs ("URSCOs).

Subsurface Soil Impacts

- Alternative 1 – No action.
- Alternative 2 – Track 4 Subsurface Source Removal, removal of paint waste lagoon residuals, and soil/fill to meet CSCOs, backfill with DER-10 approved crushed stone, placement of an asphalt cap over the excavated area, maintaining the asphalt pavement outside the lagoon footprint, preparing a Site Management Plan, and placing institutional controls on the Site.
- Alternative 3 – Track 1 Cleanup using soil excavation and off-Site disposal to achieve URSCOs.

Groundwater Impacts

- Alternative 1 – No action
- Alternative 2 – Track 4 Subsurface Source Removal, this alternative includes the following activities:
    - Removal of paint residuals and soil/fill exceeding CSCOs within the footprint of the former paint waste lagoon and disposal of this soil off-Site
    - Backfilling with DER-10 approved crushed sone and restoring the surface of the excavation with 4" of asphalt cover to serve as a protective barrier. Maintaining surrounding asphalt pavement
    - Periodic groundwater monitoring to gauge remedial effectiveness, preparing a Site Management Plan, and placing institutional controls on the Site
- Alternative 3 – Track 4 Source Removal and Enhanced Aerobic Biodegradation, this alternative includes the following activities:
    - Removal of paint residuals and soil/fill exceeding CSCOs within the footprint of the former paint waste lagoon and disposal of this soil off-Site

- Treating groundwater and saturated soils with Regenisis™ Oxygen Release Compounds (ORC Advanced®) to enhance aerobic degradation of VOCs prior to backfilling the excavation

- Backfilling with DER-10 approved crushed sone and restoring the surface of the excavation with 4" of asphalt cover to serve as a protective barrier. Maintaining surrounding asphalt pavement
- Conducting quarterly groundwater monitoring within the plume and at the property line, preparing a Site Management Plan, and placing institutional controls on the Site

Soil Vapor / Indoor Air Impacts

- Alternative 1 – No action.
- Alternative 2 – Active Management Monitoring: Conducting periodic indoor air monitoring to confirm that housekeeping practices have been improved in the furniture refurbishing shop and the quality of the indoor air is within acceptable levels, preparing a Site Management Plan, and placing institutional controls on the Site. If the building use changes (build out for office areas, changes with the building's heating system and use, changes from storage use to manufacturing, etc.) an indoor air quality analysis would be required.
- Alternative 3 – Installation of SSDS: Installation of soil vapor extraction points within and/or around an area of the existing warehouse at the Site.

10.1 Surface Soil Impacts

10.1.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site as it currently exists, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda, including, but not limited to operating permits, building/construction permits, zoning enforcement and compliance, building and fire safety inspections, etc. ACM would continue performing normal property maintenance. In general, this means the Site users will continue to actively use the Site as it currently is used. There is no reduction of toxicity, mobility or volume of impacts present. The SCG's are not met, but in general, the public and the environment are protected from exposures to the soil because the property is mostly paved and in a commercial/industrial area, human activity is infrequent as the Site is primarily used for storage, and there is little soil/sediment runoff from the Site.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.1.2 Alternative 2 – Track 4 Cleanup

Identification and Description

Alternative 2 for the surface soil area follows a Track 4 cleanup path by removing one-foot of impacted soil to CSCO's and replacing it with up to 1-foot of DER-10 approved gravel consisting of virgin material from a permitted mine or quarry, which would constitute a protective barrier. Due to the proximity of the adjacent 84 Lumber warehouse to the north of the Site, using soil as a cover barrier is not recommended because of the challenges of maintaining a vegetative cover between the warehouse building and Site asphalt driveway. Further root systems from successional growth tree saplings and weed growth could jeopardize the integrity of the adjacent paved driveway and planned asphalt cover barrier over the former paint lagoon to the west. A geotextile fabric will be placed under the gravel to serve as a demarcation layer and prevent the growth of unwanted vegetation adjacent to the asphalt cover.

Figure 13 shows the area where the CSCOs exceedances of PAHs, and to a lesser extent, PCBs and metals that were found during the RI and where Alternative 2 would be implemented (See Table 1 of the SRI located in Appendix A for additional surface sample results). For cost purposes, it is assumed 200 tons of PAH-impacted surface soils will be removed, including impacted soils adjacent to the 84 Lumber storage building (off-Site) and along the western Site boundary for disposal at a Part 360 permitted landfill facility as non-hazardous waste. A similar amount of DER-10 approved gravel will be used to backfill the excavation. The alternative also assumes the adjacent property owners will provide access to conduct the remediation. A SMP will be prepared outline procedures for handling any future impacted materials, notifications of pending intrusive work and periodic inspections. Institutional controls will be placed to restrict the future use of the Site.

Overall Protection of Public Health and the Environment – This alternative meets NYSDEC requirements for a Track 4 Commercial cleanup and is protective of public health and the environment. The RAOs for the Site would be satisfied through the planned extent of remedial activities to include the removal, excavation, and off-Site disposal of soil/fill exceeding CSCOs in the former paint waste lagoon.

Compliance with SCGs – The planned remedial activities would need to be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal of the soil/fill exceeding CSCOs would provide for long-term effectiveness and permanence. The long-term effectiveness will be based on the maintenance of the cover system. The placement of the cover system will limit human exposure and environmental exposure related to runoff.

Reduction of Toxicity, Mobility, or Volume with Treatment – The alternative reduces the toxicity, mobility, and volume of contaminants on the Site. No treatment is planned as part of this alternative.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the Commercial Use alternative are not considered significant and are controllable.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The surface soil removal is planned to be completed within a one-week timeframe, limiting short- term adverse effects. Planned remedial activities will be performed in accordance with the approved Remediation Action Work Plan, including HASP and CAMP.

Implementation – No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would berequired based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost – The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the removal, excavation and off-Site disposal of soil/fill exceeding CSCOs in the former paint waste lagoon. Table 14 provides the costs associated with implementation of this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.1.3 Alternative 3 – Track 1 Cleanup

Identification and Description

Alternative 3 for surface soil area follows a Track 1 cleanup that requires removal of the impacted surface soil to "URSCO". Although this meets RAOs for Public Health and Environmental Protection for this portion of the Site, it does not address other impacted areas of the Site such as the former paint lagoon.

Figure 14 shows the area Alternative 3 would be implemented. The Track 1 cleanup is similar to Alternative 2, but it is suspected more soil would need to be removed. An estimated 500 tons of soil will be removed to from the Site for off-Site disposal as non-hazardous waste and a similar amount of DER-10 approved gravel will be used to backfill the excavation. It is also assumed under this alternative that the adjacent property owners will be willing to provide access to conduct the remediation. Excavation adjacent to the 84 Lumber warehouse building could be hampered by the building's foundation. The depth of the excavation to achieve URSCOs is expected to be approximately two feet based upon RI sampling data.

The cost for Alternative 3 is more than Alternative 2 because more soil is being removed. Other costs associated with this alternative are not included because this is a Track 1 cleanup; for example, a SMP is not needed, and Annual Inspections or Periodic Review would be unnecessary for the surface soil area alone. Other areas of Site impacts may require the SMP or institutional controls/engineering controls.

Overall Protection of Public Health and the Environment – Excavation and off- Site disposal to achieve USCOs would be protective of public health under any reuse scenario.

Compliance with SCGs – The Unrestricted Use alternative would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve RAOs for the Site.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of all impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and certifications would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of all impacted soil/fill, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site contamination.

Short-Term Effectiveness – The principal advantage of a Track 1 cleanup to achieve USCOs is reliability of effectiveness in the long-term. The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are manageable. Site workers would be required to wear personal protective equipment (PPE) during excavation to prevent direct contact with soil/fill. CAMP monitoring and dust control methods would be required to limit the release of particulates during intrusive activities.

This alternative does have adverse short-term impacts, however, the RAOs would be achieved once the soil/fill is removed from the Site and backfill soils are in place (estimated at approximately one-week to achieve).

Implementation – Technical or administrative implementation issues are associated with this alternative are manageable. Given the urban setting of the Site, the additional truck traffic would require additional efforts related to work hour scheduling, noise, odor control, traffic restrictions, truck staging areas, and increased work duration.

Cost – The capital cost of implementing an Unrestricted Use (Track 1) alternative is estimated at approximately $1,924,880.00. This cost is inclusive of the Track 1 remedial costs for the removal, excavation and off-Site disposal of soil/fill exceeding URSCOs in the former paint waste lagoon. Table 16 provides the costs associated with implementation of this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.2 Subsurface Soil Impacts

10.2.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site as it currently exists, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda. ACM would continue with normal property maintenance. In general, this means the Site users will continue to use the Site as it currently is used. There are no reductions of toxicity, mobility, or volume of impacts present. The SCG's are not met, but in general, the public is protected because there are no exposure to the subsurface soil. The environment is not improved because the contaminated soil remains, but there is no migration of the soil contaminants off-Site via groundwater migration.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.2.2 Alternative 2 – Track 4 Subsurface Source Removal

Identification and Description

Alternative 2 for the subsurface soil/fill area within the footprint the former paint waste lagoon and associated trench follows a Track 4 cleanup path. Under this alternative, the subsurface paint waste residuals and soils/fill exceeding CSCOs within the former paint waste lagoon and trench would be removed, which will include:

- Excavation and off-Site disposal of paint waste residuals and impacted soil/fill exceeding Part 375 CSCOs and protection of groundwater SCOs within an approximate 7,000 square foot area.
- Collection of post-excavation confirmatory samples in accordance with the requirements of DER-10, Section 5.4.
- Management of on-Site excavation waters during intrusive activities.
- Importation of DER-10 approved gravel and asphalt paved protective barrier.
- Quarterly groundwater monitoring to determine remedial effectiveness.
- Periodic air monitoring and management inside the Site building.

Based on the historic investigation findings and RI investigation findings, paint waste residuals mixed with impacted soil/fill, was primarily limited to loose fill immediately below the asphalt pavement to an average depth of four feet within the former paint waste lagoon, but may be less or greater where heavily impacted material is observed. The primary COCs within the subsurface soils exceeding CSCOs and GWSCOs include PCBs, Ethylbenzene, Toluene, Xylenes, Mercury and Chromium (See Table 5). Approximately 750 tons of impacted soil/fill would require excavation and off-Site disposal to achieve CSCOs. An equivalent volume of DER-10 approved backfill would be required to restore the Site to grade, finished with approximately 7,000-sq. ft. of asphalt cover. Figure 13 provides the approximate footprint of the former lagoon and trench drain area, which was determined based upon historical aerial photography, geophysical study, and RI findings.

Focused excavation will be placed where the RI showed the greatest degree of impact, which includes SB-2, SB-7, MW-3 and MW-4. Expansion around these areas and or additional locations will be determined based on organic vapor readings using a PID and visual observances during excavation activity.

Based on soil boring and monitoring well logs from the RI, the depths of excavation could vary depending upon PID readings and observances during excavation activity. Confirmation soil sampling will be completed within the excavation of both the former paint waste lagoon and associated trench to demonstrate that the excavation has achieved protection of CSCOs, to the extent practicable. Confirmation sampling will follow the requirements described in DER-10, Section 5.4. The required quantity of sidewall and bottom confirmation samples will be based on the final dimensions of the excavation as described in Section 5.4(b)5 of DER 10. Areas within the Site boundary where confirmation sample laboratory results exceed protection of CSCOs may require further excavation until sampling demonstrates compliance with the CSCOs or until further excavation is not feasible. As identified in DER-10, Section 5.4(b)2.i, additional excavation may not be required, and the remediation considered complete if the vast majority of confirmation samples indicate that the soil cleanup levels for the Site have been achieved and/or those samples that do not achieve the SCO exceed it by only a small amount.

An estimated 250 tons of waste is assumed to be hazardous, and for cost evaluation purposes will be disposed of as such. Based on the RI soil analysis, the remaining 500 tons may not be hazardous and could be disposed of at a Part 360 land disposal facility if the soils lack leachable characteristics as determined via Toxicity Characteristic Leachate Procedure ("TCLP") testing of the excavated stockpile, or the media does not demonstrate other EPA hazardous waste characteristics such as ignitability or corrosivity.

The surrounding pavement and concrete slab building will further negate any residual human health exposures to Site contaminants. A SMP will be prepared to outline procedures for the handling of any impacted materials, notifications of pending intrusive work and periodic inspections. In addition, to the SMP, Annual Inspections and Periodic Reviews would also be required. Institutional controls will be placed to restrict the future use of the Site.

Long-Term Effectiveness and Permanence – Removal of the paint waste impacted soil/fill exceeding CSCOs would provide for long-term effectiveness and permanence. The placement of the cover system will limit human exposure and environmental exposure related to runoff. Potential installation of SSD systems in future buildings would mitigate potential vapor intrusion concerns, if necessary.

Reduction of Toxicity, Mobility, or Volume with Treatment – Alternative 2 reduces the toxicity, mobility and volume of soil contaminants on the Site to meet the CSCOs. Provisions to assess potential need of SSDSs in any new buildings will be based on the outcome of planned IRMs. No treatment is planned as part of this alternative.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the Commercial Use alternative are not considered significant and are controllable.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within a two-week timeframe, limiting short- term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. This alternative achieves the RAOs for the Site.

Implementation – No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost –The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the surface soil remedial alternative discussed in Section 10.1.2. Table 14 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.2.3 Alternative 3 – Track 1 Cleanup

Identification and Description

An Unrestricted Use alternative would necessitate remediation of on-Site soil/fill that exceeds URSCOs. For this alternative, excavation and off-Site disposal of impacted soil/fill is generally regarded as the most applicable remedial measure, because institutional controls cannot be used to supplement the remedy. Figure 14 shows the area where soil contamination is expected to exceed the URSCO and where Alternative 3 would be implemented. Additional sampling and soil screening with a PID during remedial activity will be conducted to determine the full extent of soil removal. Although samples from soil borings suggest that some soil may be a hazardous waste, further analysis using the Toxicity Characteristic Leachate Procedure ("TCLP") and other parameters will need to be conducted to ascertain whether the soils can be disposed of at a Part 360 permitted landfill facility. The implementation of the alternative also assumes a temporary Site fence will be needed to control the access to the excavation, since the Site is still an active commercial property.

On-Site groundwater impacts are mainly attributable to the presence of the paint waste residuals and soil/fill within the former paint waste lagoon. This alternative assumes that groundwater recovery, treatment and disposal would be required due to the deeper excavation depths.

After removal of the paint waste source area, soils exceeding URSCOs and proper handling and pre-treatment of excavation waters, it is expected that quarterly groundwater monitoring over a three to five year period would be required to confirm remedial effectiveness.

Exceedances of the USCOs and/or field evidence of impacts were observed to 15 ft. bgs with an average depth of approximately 8 to 10 ft. bgs. In total, approximately 4,600 CY of soil/fill would require excavation and off-Site disposal. An equivalent volume of DER-10 compliant backfill would be required to restore the Site.

Overall Protection of Public Health and the Environment **–** Excavation and off- Site disposal to achieve USCOs would be protective of public health under any reuse scenario.

Compliance with SCGs **–** The Unrestricted Use alternative would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence **–** The Unrestricted Use alternative would achieve removal of all residual impacted soil/fill; therefore, the Unrestricted Use alternative would provide long-term effectiveness and permanence. Post-remedial monitoring and certifications would not be required.

Reduction of Toxicity, Mobility, or Volume with Treatment **–** Through removal of all impacted soil/fill, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site contamination.

Short-Term Effectiveness **–** The principal advantage of a large-scale excavation to achieve USCOs is reliability of effectiveness in the long-term. The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are manageable. Site workers would be required to wear personal protective equipment (PPE) during excavation to prevent direct contact with soil/fill. CAMP monitoring and dust control methods would be required to limit the release of particulates during intrusive activities.

This alternative does have adverse short-term impacts, however, the RAOs would be achieved once the soil/fill is removed from the Site and backfill soils are in place (estimated at approximately 4-5 weeks to achieve).

Implementation **–** Technical or administrative implementation issues are associated with this alternative are manageable. Given the urban setting of the Site, the additional truck traffic would require additional efforts related to work hour scheduling, noise, odor control, traffic restrictions, truck staging areas, and increased work duration.

Cost **–** The capital cost of implementing an Unrestricted Use cleanup alternative is estimated at approximately $1,924,880.00. This cost is inclusive of the Track 1 remedial costs for the surface soil remedial approach discussed in Section 10.1.3. Although not expected, Alternative 3 includes costs for the handling, treatment, and disposal of groundwater if necessary. Table 16 provides the costs associated with implementation of this alternative.

Community Acceptance **–** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.3 Groundwater Impacts

10.3.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring or the placement of institutional controls or engineering controls.

Screening and Analysis

The No Action Alternative leaves the Site in its current condition, with no restriction to access and no controls other than what is being enforced by the Town of Tonawanda. There is no reduction of the toxicity, mobility, or volume of impacts present except those intrinsic reductions caused by natural bacteria and attenuation due to groundwater flow and chemical interactions with the natural soils. The SCGs are not met, and the general public and the environment are not protected.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.3.2 Alternative 2 – Track 4 Subsurface Source Removal

Identification and Description

On-Site groundwater impacts are mainly attributed to the presence of paint waste residuals, paint waste impacted soil/fill, and the presence of free product observed in MW-4 within the paint waste lagoon. Alternative 2 includes limited excavation of impacted soils focusing on those areas exceeding the GWSCOs within the former paint waste lagoon. Subsurface Soil Impacts -

Alternative 2, described in Section 10.2.2 will be implemented, and is considered for groundwater because reducing or eliminating the contaminant mass representing the source of the groundwater contamination as determined by near surface free product found in MW-4, and soils/fill exceeding the GWSCOs is an effective approach for improving groundwater quality. Based on the low volume and lack of transmissivity of groundwater at the Site, it is expected that impacted perched water encountered during excavation activity will be controlled by co-mingling the water into the excavated soils without the risk of exceeding moisture percentage thresholds imposed by the disposal facility. Groundwater monitoring will be required until reductions in monitoring are approved by the NYSDEC. A SMP will be prepared for the Site and institutional controls will be used to control the Site activities and future use of the groundwater and the Site.

To monitor the groundwater conditions, each of the four on-Site monitoring wells and one off-Site monitoring well (MW-1) will be sampled for VOCs, PCBs, PAHs, and metals, in addition to natural attenuation parameters. Groundwater monitoring will be required until reductions in monitoring are approved by the NYSDEC. An estimated two years of quarterly groundwater monitoring is included in the cost analysis. Figure 10 shows the monitoring wells to be used in monitoring groundwater conditions. Figure 13 shows the extent of source removal for improving groundwater quality. Groundwater monitoring wells will be replaced in-kind if damaged or removed during remedial activities.

Overall Protection of Public Health and the Environment – Excavation and off-Site disposal of the source to improve groundwater quality and implementation of routine groundwater monitoring, a SMP, and institutional controls would be protective of public health.

Compliance with SCGs – A Track 4 Commercial Use Cleanup alternative would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. The planned remedial actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal of the paint waste impacted soil/fill as a means to improve groundwater quality would provide for long-term effectiveness and permanence. As groundwater responds to the source removal and treatment, groundwater quality would improve over the long-term. The placement of the cover system will limit human exposure and environmental exposure related to dissolve phase contaminant migration to groundwater. Quarterly groundwater monitoring after source removal should verify that contaminant concentrations are on a downward trend.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of the paint residuals, impacted soil/fill, and free product observed in MW-4 the source removal alternative would permanently and significantly reduce the toxicity, mobility, and volume of on-Site groundwater contamination.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are not considered significant due to the expected low volume of water requiring handling during excavation activities. The remedial excavation can be completed within a two-week timeframe, limiting short-term adverse effects.

During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within three to four-week timeframe, limiting short-term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. This alternative achieves the RAOs for the Site.

***Implementation* –** No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

***Cost* –** The capital cost of implementing a Commercial Use (Track 4) alternative is estimated at approximately $460,646.00. This cost is inclusive of the Track 4 remedial costs for the surface soil remedial approach discussed in Section 10.1.2. Table 14 provides the costs associated with implementation of this alternative.

***Community Acceptance* –** Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.3.3 Alternative 3 – Track 4 Source Removal and Enhanced Aerobic Biodegradation

Identification and Description

Alternative 3 for the source area includes the source removal of paint waste residuals and soils/fill that exceed CSCOs and GWSCOs within the former paint lagoon and associated trench, combined with the application of Regenesis™ ORC Advanced® ("ORC") for the in-situ aerobic bioremediation of paint related VOCs, PAHs and some chlorinated solvents in groundwater and saturated soil. The Track 4 cleanup follows the same approach as Subsurface Source Removal – Alternative 2 described in Section 10.2.2, but it is suspected more soil would need to be removed in the areas of where the most elevated VOC levels were found for ORC application to have a positive effect on groundwater. ORC will be applied using either an excavator to mix powdered amendments or a liquid solution will be applied in select locations along the floor of the excavation. The estimated excavation limits are shown on Figure 13.

Focused excavation will be placed where the RI showed the greatest degree of impact, which includes SB-2, SB-7, MW-3 and MW-4. Excavation expansion around these areas and or additional locations for ORC application will be determined based on organic vapor readings using a PID and visual observances during excavation activity.

Based on soil boring and monitoring well logs from the RI, it is expected the depths of excavation and ORC treatment intervals will vary depending upon PID levels and observances during excavation activity. As described in Section 10.2.2, confirmation sidewall and bottom sampling will be completed to demonstrate that the excavation has achieved the CSCOs, to the extent practicable. Confirmation sampling will follow the requirements described in DER-10, Section 5.4. If the sample laboratory results exceed the CSCOs further excavation may be required until additional confirmatory sampling has achieved compliance with the CSCOs or until further excavation is not feasible. The required quantity of sidewall and bottom confirmation samples will be based on the final dimensions of the excavation as described in

DER Section 5.4(b)5. As identified in DER-10, Section 5.4(b)2.i, additional excavation may not be required, and the remediation considered complete if the vast majority of confirmation samples indicate that the soil cleanup levels for the Site have been achieved and/or those samples that do not achieve the SCO exceed it by only a small amount.

An estimated 900 tons of paint residuals and soil / fill will be removed for off-Site disposal. The waste soil / fill will be from the intervals identified by PID levels and observances such as visible wastes during the excavation activities. An estimated 250 tons of waste is assumed to be hazardous, and for cost evaluation purposes will be disposed of as such. The remaining excavated soil is assumed to be non-hazardous and will be disposed of at a Part 360 land disposal facility as outlined in Section 10.2.2. This determination will be dependent upon the results of the TCLP testing and other parameters to determine hazardous waste characteristics.

Regenesis® ORC Advanced™ has been evaluated for groundwater and saturated soils treatment using a combined weight of 3,500 pounds of treatment chemical applied over an approximately 6,000 sq. ft. area. The groundwater quality will be monitored from the existing monitoring wells for VOCs, PAHs, PCBs and metals, in addition to natural attenuation parameters for 2 years following treatment to determine if treatment was successful and if other applications are needed. ORC Advance specifically targets petroleum hydrocarbons, oxygenates, PAHs and some chlorinated solvents. It is assumed when the COCs are lowered, metals and PCBs will remain in the soil and groundwater, but levels will decline over time as a result of implementing the source removal.

Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP.

A Groundwater Monitoring Plan will be prepared to manage and monitor conditions and to provide procedures in the event the soil or groundwater is disturbed.

Overall Protection of Public Health and the Environment – Excavation and off- Site disposal of the source to improve groundwater quality and ORC treatment of the groundwater will achieve the RAOs for both Public Health and Environmental Protection. During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The implementation of routine groundwater monitoring, a SMP, and institutional controls would be protective of public health.

Compliance with SCGs – Alternative 3 would be performed in accordance with applicable, relevant, and appropriate SCGs. Imported backfill material would need to meet backfill quality criteria per DER-10. Subgrade intrusive activities would necessitate preparation of and adherence to a community air monitoring plan in accordance with Appendices 1A and 1B of DER-10. This alternative is readily implemented, and the planned removal and chemical treatment actions are fully protective of public health and the environment and achieve all RAOs for the Site.

Long-Term Effectiveness and Permanence – Removal of the paint waste impacted soil/fill with an application of ORC to treat residual impacts in groundwater and saturated soils provides long-term effectiveness and permanence. As groundwater responds to the source removal and ORC treatment, groundwater quality would improve. ORC treatment is limited to COCs that respond to aerobic bioremediation, and given the stiff native clays underlying the loose lagoon soils, it is unlikely ORC treatment will provide remedial effectiveness beyond the footprint of the application. In addition, the ORC application as a stand-alone alternative will not provide long-term effectiveness and permanence for the treatment of metals and PCBs unless source removal is undertaken.

Two years of quarterly groundwater monitoring should verify that contaminant concentrations are on a downward trend. Long-term goals will be met by the reduction of groundwater impacts to TOGS levels or at levels NYSDEC may find acceptable for closure.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of the paint residuals, impacted soil/fill, and free product observed in MW-4, the source removal combined with the ORC application would permanently and significantly reduce the toxicity, mobility, and volume of on-Site groundwater contamination.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are not considered significant. During intrusive remedial activities air monitoring will be performed to assure conformance with community air monitoring action levels. The potential for chemical exposures and physical injuries are reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The remedial excavations are planned to be completed within a four-week timeframe, limiting short-term adverse effects. Planned remedial activities will be performed in accordance with the approved RAWP, including the HASP and CAMP. The remedial excavation and ORC treatment can be completed within a two-week timeframe, limiting short-term adverse effects.

The excavation and ORC treatment effects can be realized relatively rapidly making short-term goals of implementation and seeing a reduction in impacts occur in a matter of months.

Implementation – No technical or administrative implementation issues are anticipated to be associated with this alternative. Though additional efforts would be required based on the urban setting of the Site related to work scheduling and trucking related issues, compliance with HASP and construction work practices would be manageable.

Cost – The capital cost of implementing a Track 4 Subsurface Source Removal and ORC alternative is estimated at approximately $528,841.000. This cost is inclusive of the Track 4 remedial activities for the surface soil remedial approach discussed in Section 10.1.2. Table 15 provides the costs associated with implementation of this alternative.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

10.4 Soil Vapor Mitigation

10.4.1 Alternative 1 – No Action

Identification and Description

The No Action Alternative is defined as conducting no additional remedial activities, monitoring, or the placement of institutional controls or engineering controls.

The No Action Alternative leaves the Site building and paved parcel as it currently resides, with no restriction to access and no controls other than what is being enforced by the Town of

Tonawanda. ACM would continue to perform building and property maintenance. In general, this means the tenants will continue to actively use the building and property. There is no reduction of toxicity, mobility, or volume of impacts present, the SCGs are not met, and the general public and the environment are not protected. Based on the RI and Supplemental RI sampling of the indoor air quality and sub-slab soil vapor, monitoring and possible future mitigation is driven by the concentration of TCE detected in the indoor air during the RI and Methylene Chloride detected in the indoor air during the SRI and not the concentration of TCE and Methylene Chloride in the sub-slab environment.

The capital cost of the no action alternative is $0.00. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no action alternative.

10.4.2 Alternative 2 – Active Management and Monitoring

Identification and Description

The Active Management and Monitoring Alternative is an active management program where TSP will monitor the indoor air quality while the Site building spaces are used for storage/warehousing. As presented in Section 9.3.2, because the quality of indoor air is believed to be affected by tenants, the lease agreement for future tenants will be amended to include housekeeping requirements to insure they practice proper housekeeping, including requirements for proper handling, storage, and disposal of empty and/or expired products. Indoor air quality will be verified annually during the heating season (October through April) by TSP. It is anticipated that one outdoor/ambient air sample and a minimum of two indoor air samples will be collected for laboratory analysis of VOCs. The quantity and locations of samples will be evaluated during preparation of the RAAR. At a minimum, one indoor air sample will be collected from within the Site portion of the warehouse building and another sample collected from within in the off-Site portion of the warehouse. Sample results will be compared to the NYSDOH's Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 and updates). Annual air sampling will be conducted for a period of three years to confirm indoor air quality. After the three-year period, an evaluation of the need for additional future sampling will be conducted. The actual number, locations, and sampling frequency requirements will be specified in the Site SMP.

The Active Management and Monitoring Alternative leaves the building as it currently is used with no restriction to access. An engineering control consisting of an upgraded wall mounted powered ventilation in the occupied area will be installed. Since COCs will remain on the Site, a SMP and Operation and Maintenance Plan ("OMP") and institutional controls will be required to manage building use and Site activities.

The SMP and OMP will provide procedures in the event there is a building change, the indoor air quality degrades, or the soil is disturbed as a result of intrusive work. The plan will also put into place owner responsibilities and agency notifications if there is a disturbance of the soil or if there is a plan to change the use of the Site (change in building use, further development, building renovation, etc.).

The SMP will actively manage the warehouse building in its entirety and document any changes of occupancy and use during annual Periodic Reviews.

If the use of the warehouse building changes, the management program will be re-evaluated. Based on the re-evaluation, managed monitoring will either continue or mitigation will be implemented.

There is no reduction of the toxicity, mobility, or volume of impacts and generally the SCGs are not met but maintained within the unoccupied building in regard to indoor air; thus, protecting the general public where they could potentially come into contact with contaminants.

Short- and long-term goals for effectiveness (meeting the SCGs for indoor air) are met because there are no receptors to be impacted; however, the potential remains for vapor intrusion to occur until soil and groundwater are remediated. The alternative will be accepted by the community since the community and Site occupants will be protected.

The costs to implement active management and monitoring are incorporated into the remedial Track 4 and Track 1 cost Tables.

10.4.3 Alternative 3 – Installation of SSDS

Identification and Description

The Installation of SSDS alternative provides an active remediation system where TSP would install soil vapor extraction points within and/or around the Site's warehouse area. The quantity, locations, and construction details of the vapor extraction points would be identified in the RAWP. Operation and maintenance of the SSDS would be conducted by TSP. Indoor air would be monitored on a schedule included in the SMP developed for the Site.

Installation and operation of a SSDS in the Site's warehouse area is not considered a technically feasible strategy for the following reasons:

- The shallow depth to groundwater and presence of perched groundwater would present operational issues for extraction of soil vapor
- As presented in Section 4.2.6, a furniture refinishing business is the most probable source of the presence of any impacts to indoor air
- The lease for the furniture refinishing business has not been renewed and they are no longer operating at the Site

However, a site visit conducted in March 2023 indicated that the use of a portion of the on-Site building space had changed. Therefore, Alternative 3 will be evaluated as a component of the remedial alternatives during preparation of the RAAR.

11.0 RECOMMENDED REMEDIAL ALTERNATIVE

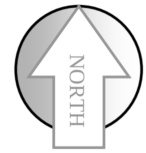
Based on the various remedial approaches detailed in Section 10.0, a Track 4 Commercial Use cleanup as described in Sections 10.1.2, 10.2.2, and 10.3.2 involving surface soil removal and subsurface source removal of paint waste residuals, soil/fill, and perched water within the former paint waste lagoon is fully protective of the public health and the environment. Additionally, active management and monitoring of indoor air quality as described in Section 10.4.2 is protective of public health.

The Track 4 cleanup does not include the application of ORC due to the lack of groundwater flow to facilitate treatment downgradient of the application area, ORC will not remediate soils and groundwater contaminated by PCBs and metals, and the cost of ORC application verses the cost to excavate and dispose of the soils within this area negates the feasibility of ORC treatment. Excavating and disposing of the soils is a permanent solution to improving groundwater quality while achieving the remedial objective without the need to apply ORC.

The components and details of the remedial approach will be described in an approved RAWP. In summary, the Track 4 Commercial Use cleanup will involve:

- Limited excavation and off-Site disposal of unpaved surface soil exceeding Part 375 CSCOs along the northern and western Site boundary.
- Limited excavation and off-Site disposal of paint waste residuals and soils/fill exceeding Part 375 CSCO and GWSCOs within the former paint waste lagoon and associated trench that are the source of impacts to groundwater.
- Removal of impacted perched groundwater and free product that is at or near the surface in the area of MW-4 via co-mingling during the excavation of the lagoon media.
- Providing a cover barrier of DER-10 approved fill over the surface soil and paint waste lagoon excavation. Restore lagoon excavation with asphalt cover.
- Implement groundwater MNA monitoring and analytical sampling to determine remedial effectiveness.
- Institutional controls will be implemented to control the Site activities and prevent the future use of groundwater at the Site.
- Implement active management, and periodic indoor air monitoring while the Site building spaces are used for occupied storage/warehousing.
- Preparation of a SMP for the Site to describe sampling, monitoring, and inspection requirements and frequency.

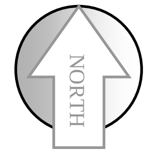
RI FIGURES

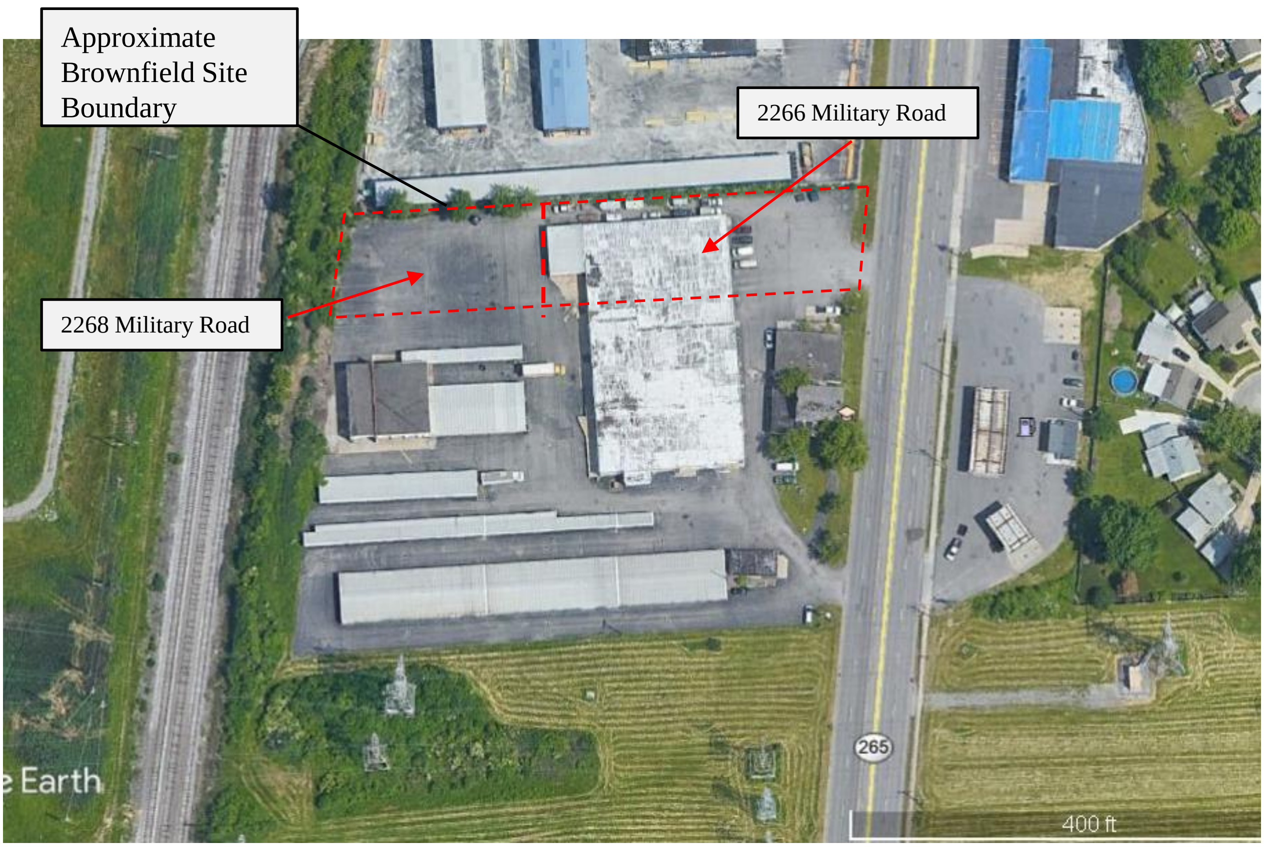


Title	Site Location 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroad Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	3/11/2020
Scale	NTS
Drawn	PVS
Checked	MPR
File Name	Site Location
Figure	1

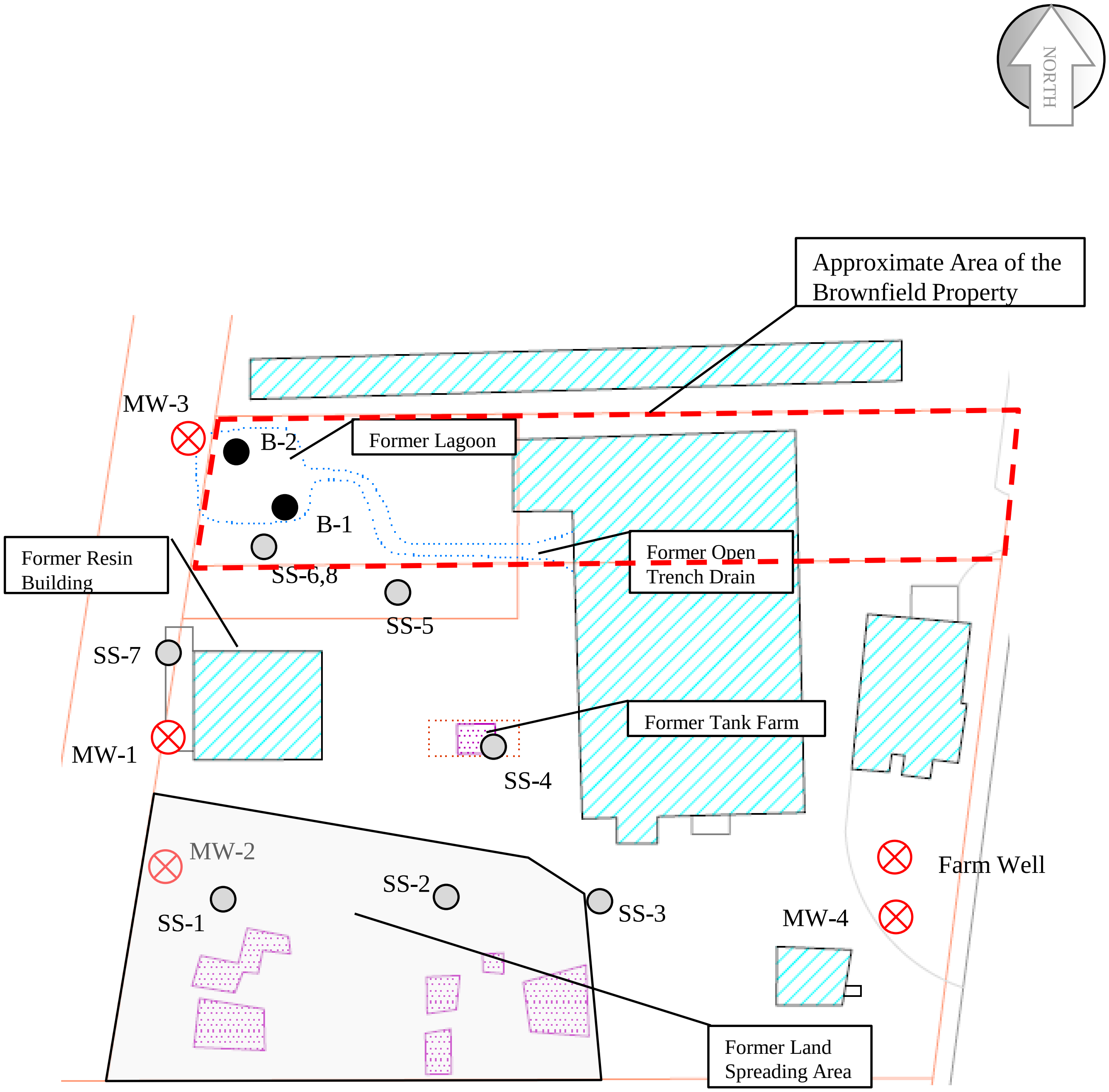




Title	2017 Photograph of Site & Surrounding Area 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	2017 Photo
Figure	2

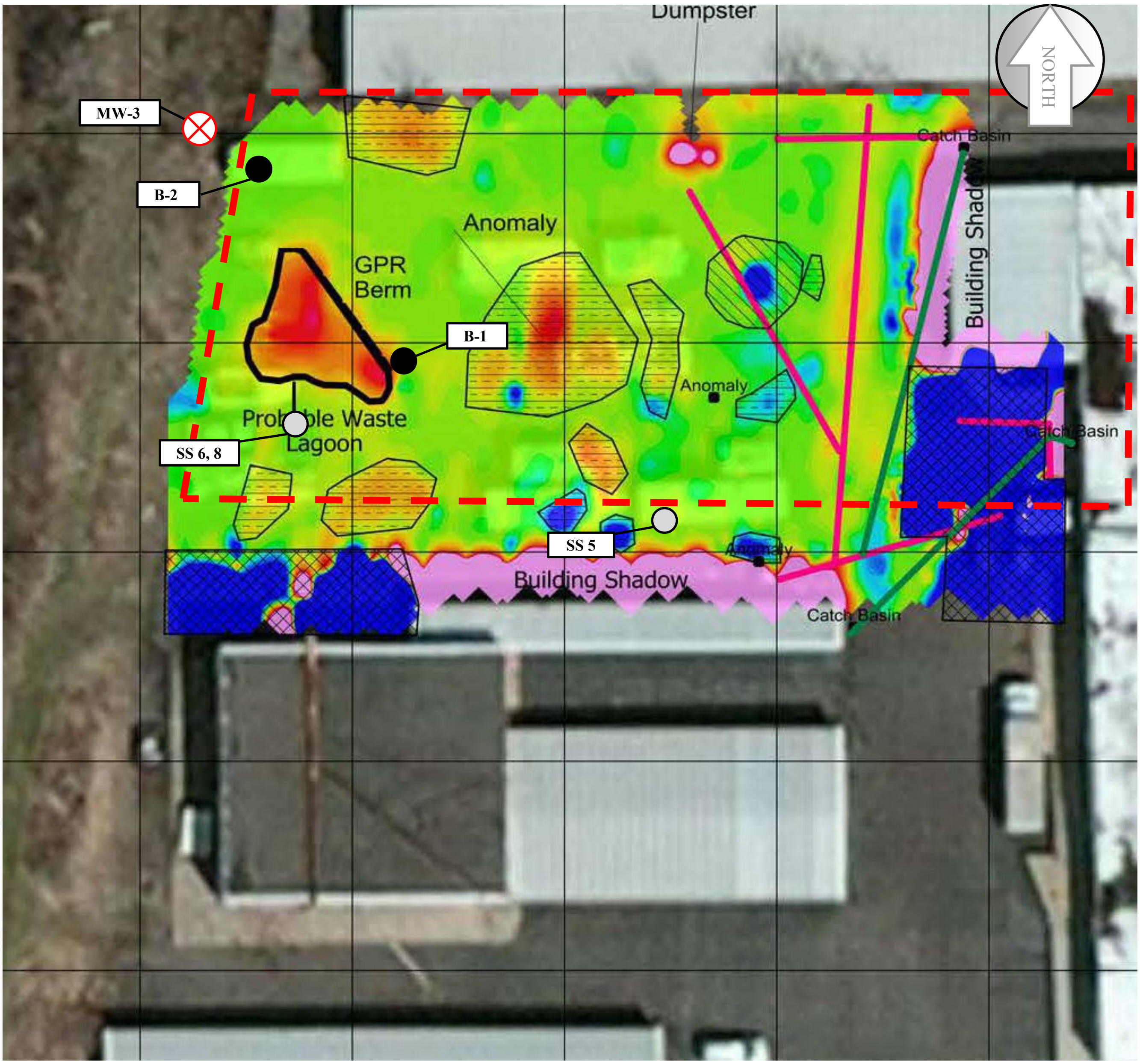


1993 MW-1 NYSDEC Monitoring Well

1993 SS-1 NYSDEC Surface Soil Sampling Location

1993 B-1 NYSDEC Soil Boring Sampling Location

Title: NYSDEC Sample Locations 2266 and 2268 Military Road Tonawanda, New York	MARSH ENGINEERING D.P.C.	Project: 100.001	Drawn: PVS	Figure
Prepared For: Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York		Date: 3/11/2020	Checked: MPR	3
		Scale: NTS	File Name: Site Map	



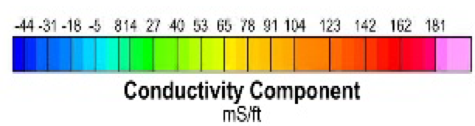
Geophysical results done by Groundwater and Environmental Services and Applus RTD for NYSDEC June 22, 2017.
Geophysical results are an overlay to a NYSDEC site sketch showing sampling locations.

- 1993 Approx. Location of NYSDEC Monitoring Well
- 1993 Approx. Location of NYSDEC Surface Soil Sampling Location
- 1993 Approx. Location of NYSDEC Soil Boring Sampling Location
- Approx. Brownfield Site Boundary

LEGEND

Utilities

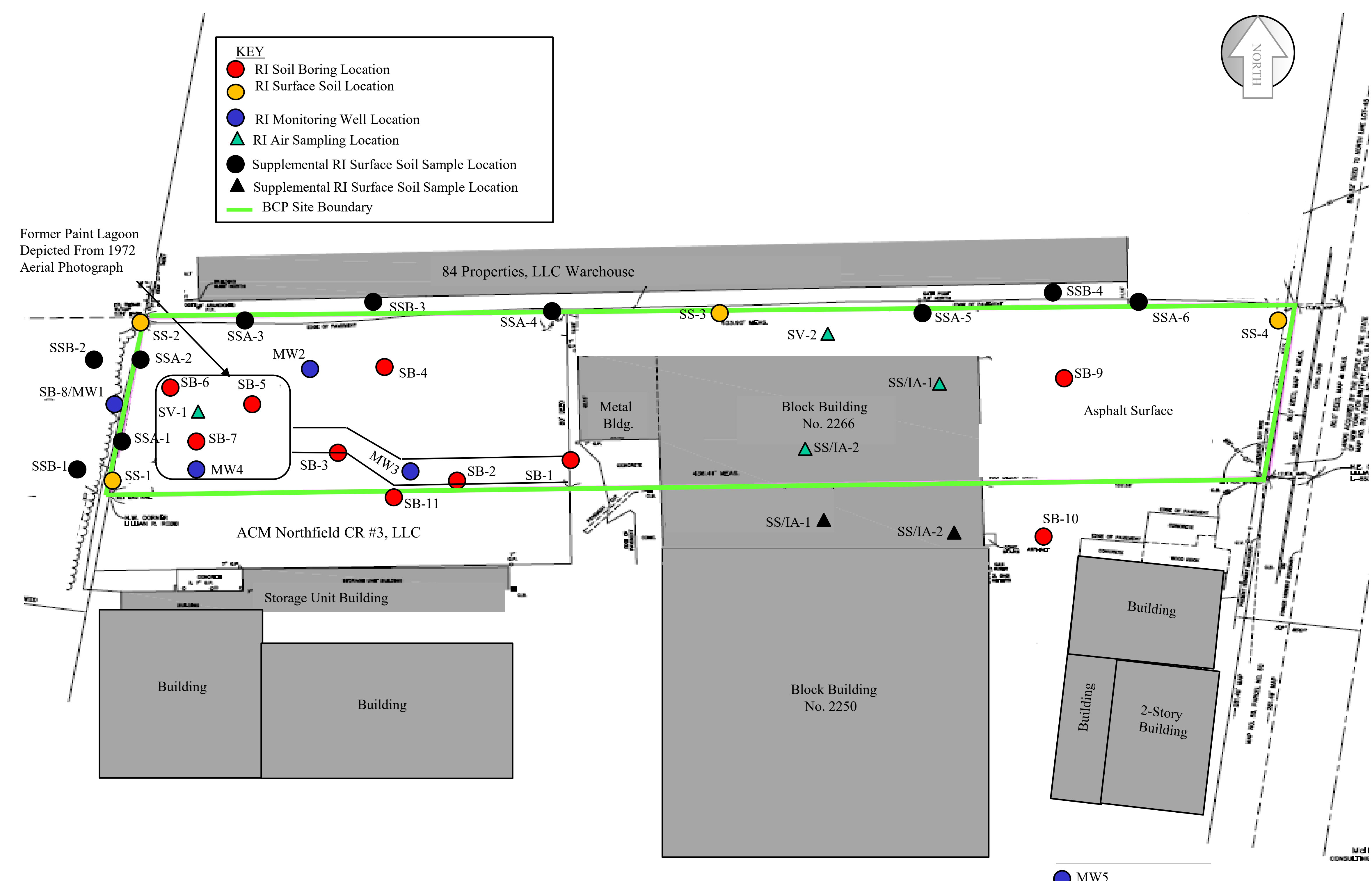
- Unknown
- Sewers and Drain Lines
- Reinforced Concrete Pad
- Buried Metal Object
- Buried Metallic Debris



Title	Geophysical Results 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	Site Map
Figure	4



Title: RI & SRI Investigation Sample Locations
2266 and 2268 Military Road
Tonawanda, New York

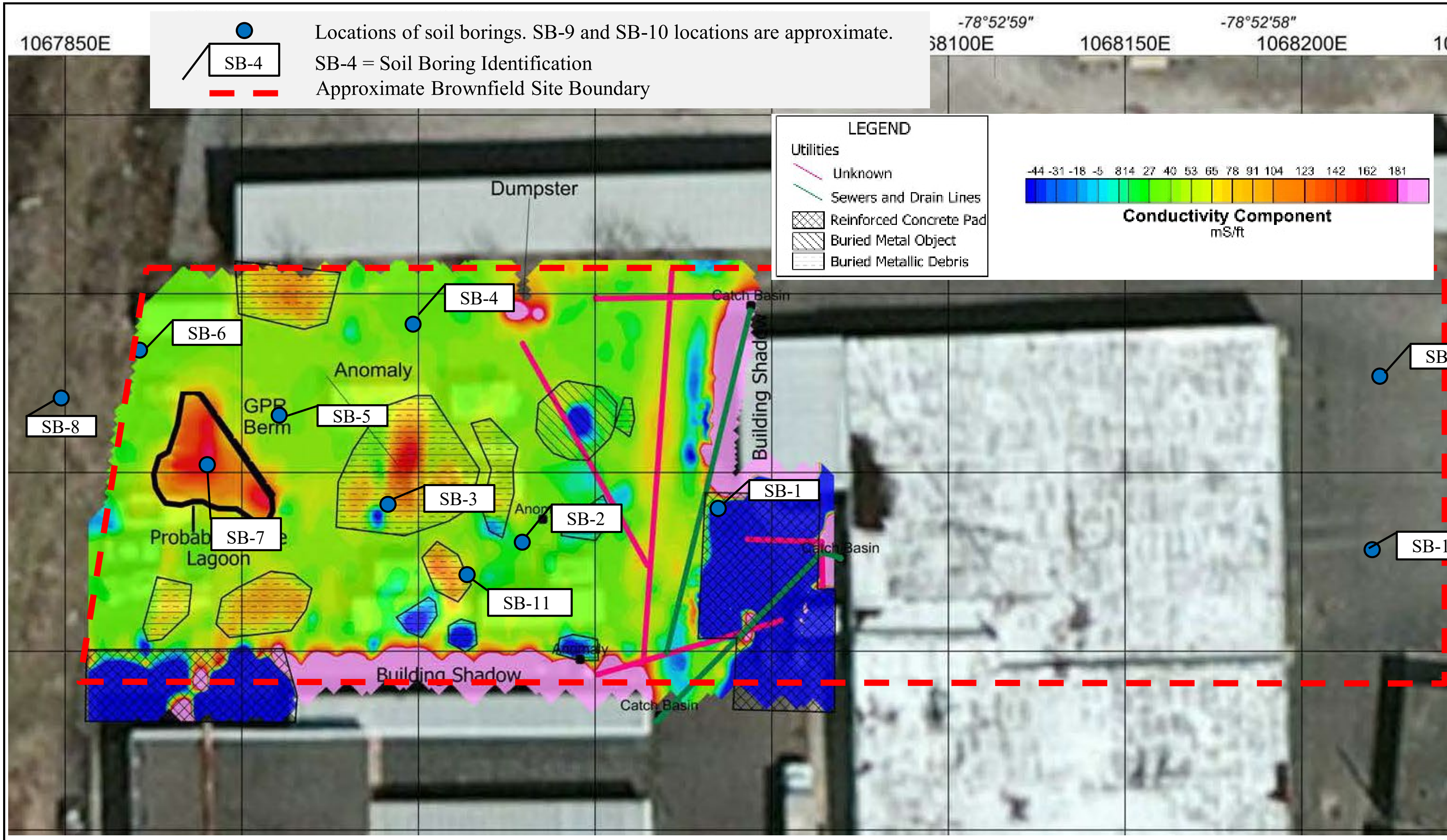
Prepared For: Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	10/12/2022
Scale	Not to Scale

Drawn	FRT
Checked	MPR
File Name	Sample Locations

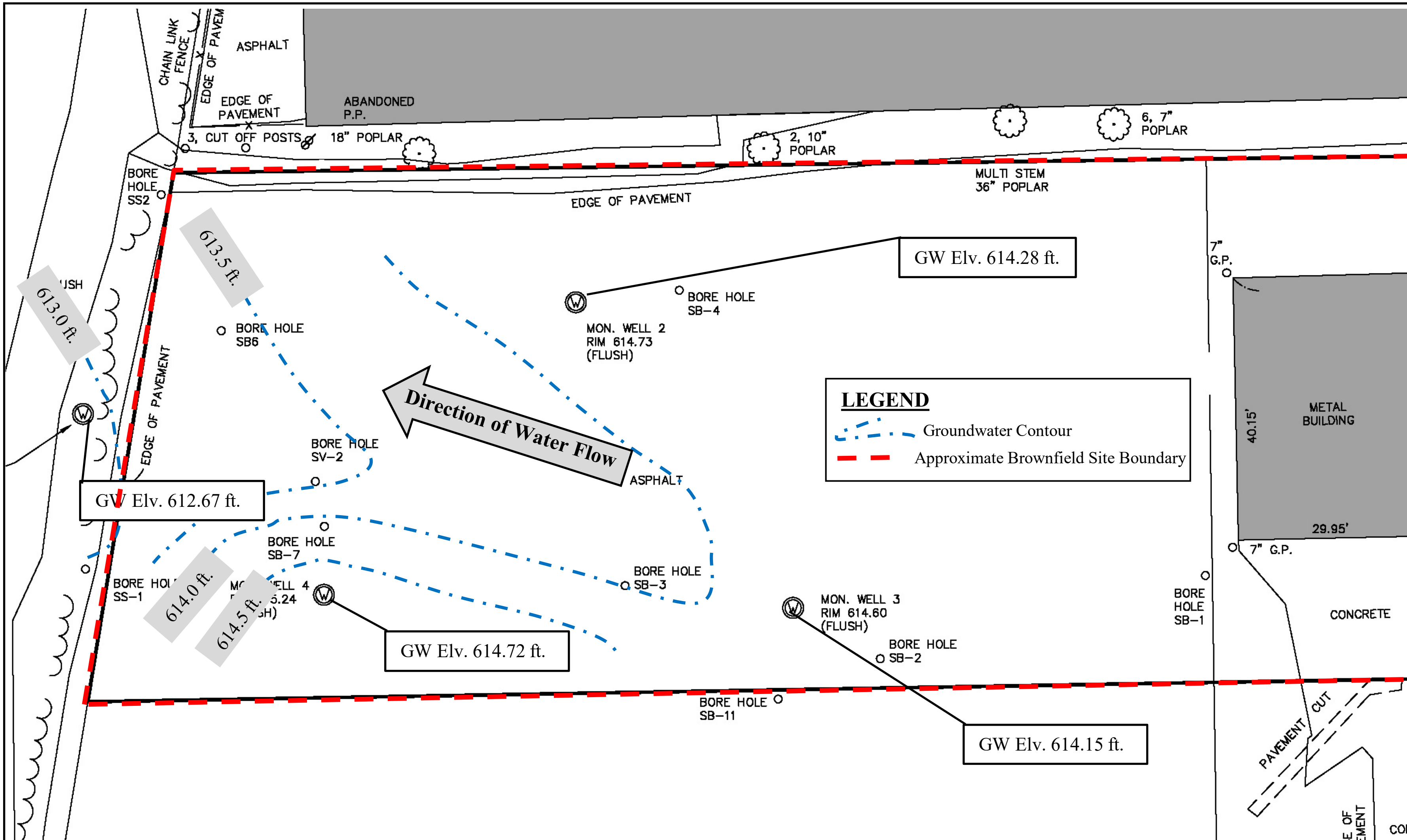
Figure 5



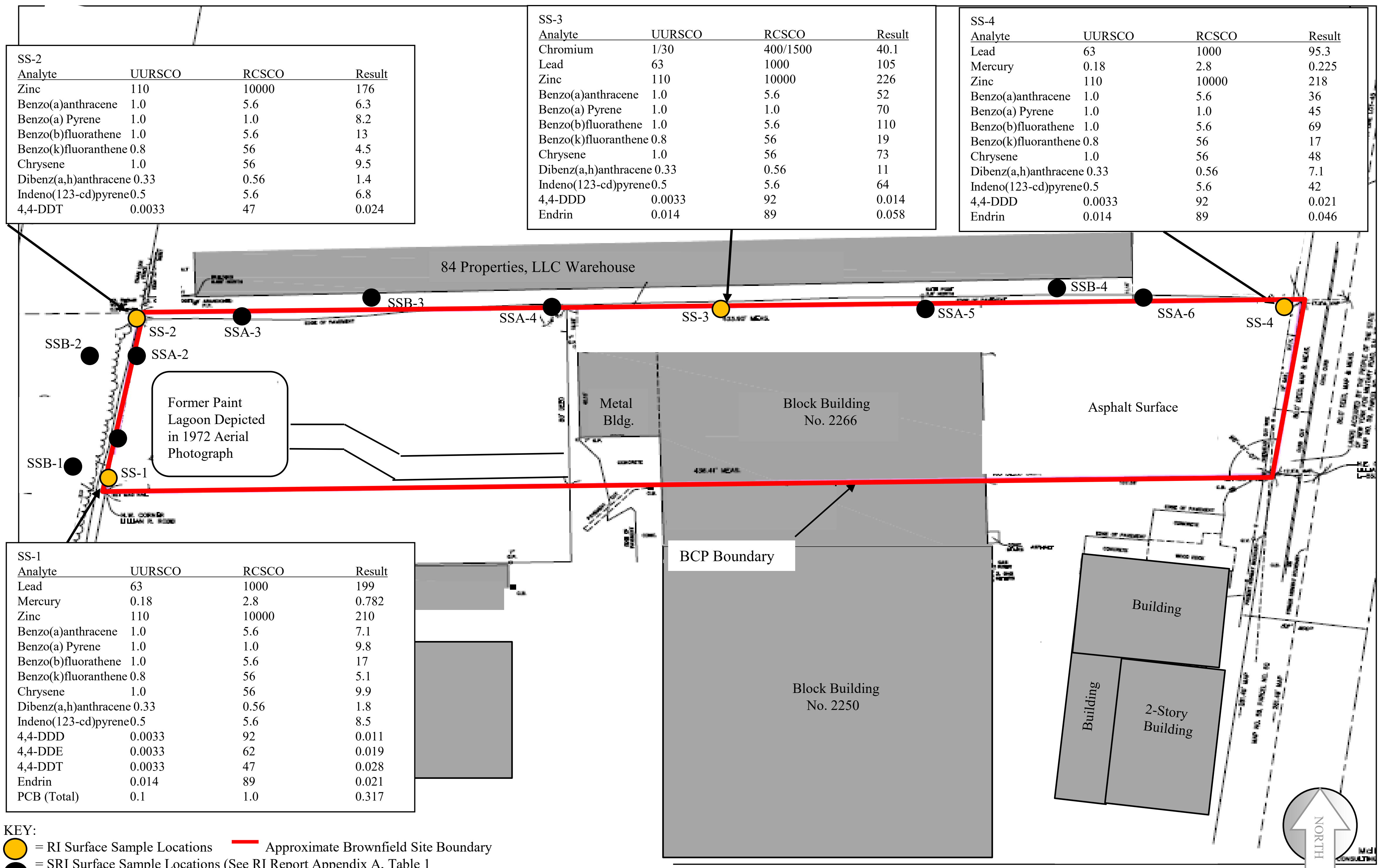
Title	Soil Boring Locations with Geophysical Overlay 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	RI Sample Loc.
Figure	6



Title: Water Table Contours 2266 and 2268 Military Road Tonawanda, New York	MARSH ENGINEERING D.P.C.	Project: 100.001 Date: 3/11/2020 Scale: Not to Scale	Drawn: PVS Checked: MPR File Name: RI Sample Loc.
Prepared For: Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York			Figure: 7



SS-2

Analyte	UURSCO	RCSCO	Result
Zinc	110	10000	176
Benzo(a)anthracene	1.0	5.6	6.3
Benzo(a) Pyrene	1.0	1.0	8.2
Benzo(b)fluorathene	1.0	5.6	13
Benzo(k)fluoranthene	0.8	56	4.5
Chrysene	1.0	56	9.5
Dibenz(a,h)anthracene	0.33	0.56	1.4
Indeno(123-cd)pyrene	0.5	5.6	6.8
4,4-DDT	0.0033	47	0.024

SS-3

Analyte	UURSCO	RCSCO	Result
Chromium	1/30	400/1500	40.1
Lead	63	1000	105
Zinc	110	10000	226
Benzo(a)anthracene	1.0	5.6	52
Benzo(a) Pyrene	1.0	1.0	70
Benzo(b)fluorathene	1.0	5.6	110
Benzo(k)fluoranthene	0.8	56	19
Chrysene	1.0	56	73
Dibenz(a,h)anthracene	0.33	0.56	11
Indeno(123-cd)pyrene	0.5	5.6	64
4,4-DDD	0.0033	92	0.014
Endrin	0.014	89	0.058

SS-4

Analyte	UURSCO	RCSCO	Result
Lead	63	1000	95.3
Mercury	0.18	2.8	0.225
Zinc	110	10000	218
Benzo(a)anthracene	1.0	5.6	36
Benzo(a) Pyrene	1.0	1.0	45
Benzo(b)fluorathene	1.0	5.6	69
Benzo(k)fluoranthene	0.8	56	17
Chrysene	1.0	56	48
Dibenz(a,h)anthracene	0.33	0.56	7.1
Indeno(123-cd)pyrene	0.5	5.6	42
4,4-DDD	0.0033	92	0.021
Endrin	0.014	89	0.046

SS-1

Analyte	UURSCO	RCSCO	Result
Lead	63	1000	199
Mercury	0.18	2.8	0.782
Zinc	110	10000	210
Benzo(a)anthracene	1.0	5.6	7.1
Benzo(a) Pyrene	1.0	1.0	9.8
Benzo(b)fluorathene	1.0	5.6	17
Benzo(k)fluoranthene	0.8	56	5.1
Chrysene	1.0	56	9.9
Dibenz(a,h)anthracene	0.33	0.56	1.8
Indeno(123-cd)pyrene	0.5	5.6	8.5
4,4-DDD	0.0033	92	0.011
4,4-DDE	0.0033	62	0.019
4,4-DDT	0.0033	47	0.028
Endrin	0.014	89	0.021
PCB (Total)	0.1	1.0	0.317

KEY:
= RI Surface Sample Locations
Approximate Brownfield Site Boundary
= SRI Surface Sample Locations (See RI Report Appendix A, Table 1 for SVOC exceedances)

Title: RI Investigation Surface Sample Exceedances
2266 and 2268 Military Road
Tonawanda, New York

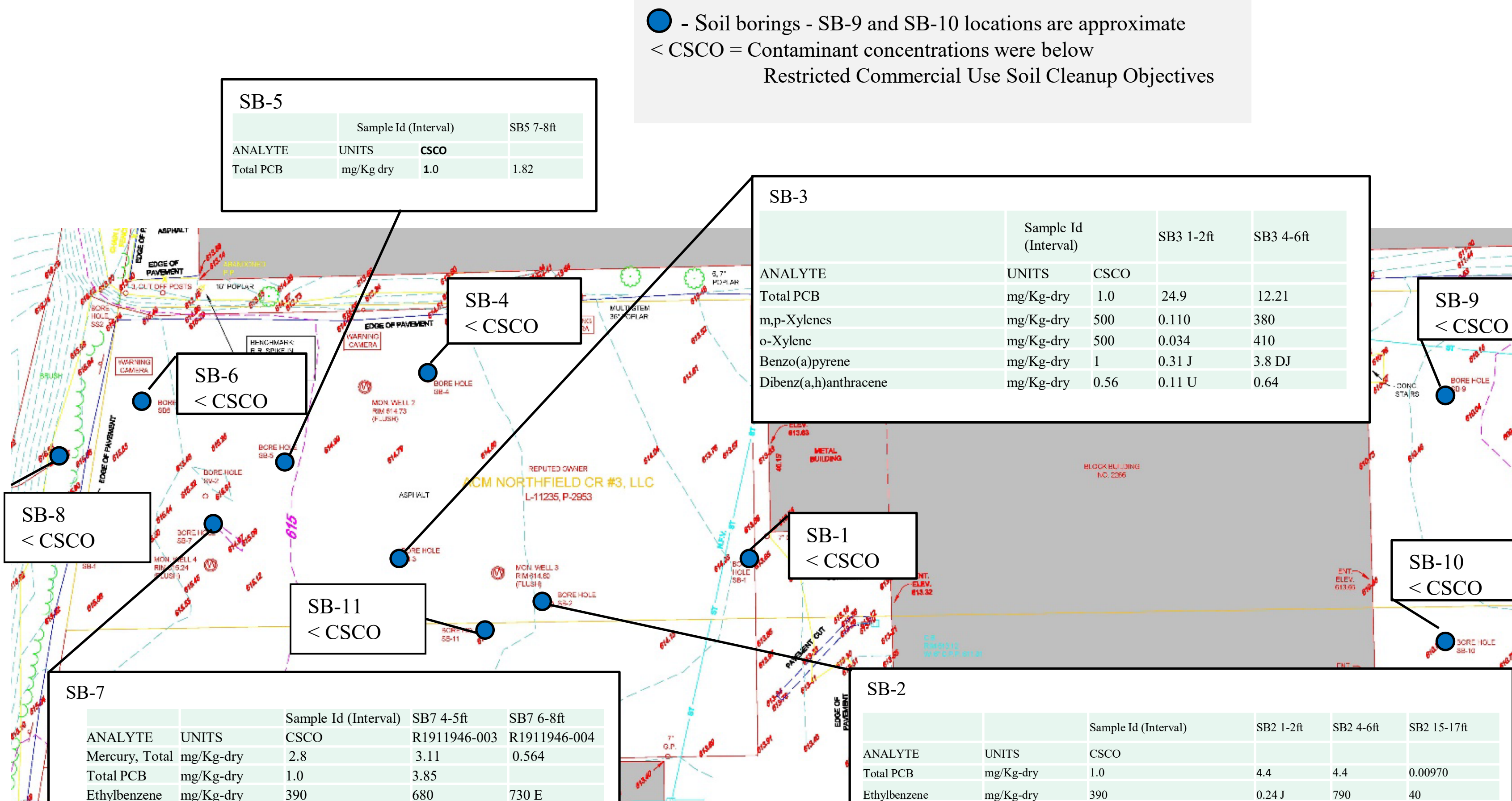
Prepared For: Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project 100.001
Date 09/21/2022
Scale NTS

Drawn FRT
Checked MPR
File Name RI surface Soil

Figure 8



SB-5

		Sample Id (Interval)	SB5 7-8ft
ANALYTE	UNITS	CSCO	
Total PCB	mg/Kg dry	1.0	1.82

SB-3

		Sample Id (Interval)	SB3 1-2ft	SB3 4-6ft
ANALYTE	UNITS	CSCO		
Total PCB	mg/Kg-dry	1.0	24.9	12.21
m,p-Xylenes	mg/Kg-dry	500	0.110	380
o-Xylene	mg/Kg-dry	500	0.034	410
Benzo(a)pyrene	mg/Kg-dry	1	0.31 J	3.8 DJ
Dibenz(a,h)anthracene	mg/Kg-dry	0.56	0.11 U	0.64

SB-7

		Sample Id (Interval)	SB7 4-5ft	SB7 6-8ft
ANALYTE	UNITS	CSCO	R1911946-003	R1911946-004
Mercury, Total	mg/Kg-dry	2.8	3.11	0.564
Total PCB	mg/Kg-dry	1.0	3.85	
Ethylbenzene	mg/Kg-dry	390	680	730 E
Toluene	mg/Kg-dry	500	1500	120
m,p-Xylenes	mg/Kg-dry	N/A	2900	2800 E
o-Xylene	mg/Kg-dry	500	970	550

SB-2

		Sample Id (Interval)	SB2 1-2ft	SB2 4-6ft	SB2 15-17ft
ANALYTE	UNITS	CSCO			
Total PCB	mg/Kg-dry	1.0	4.4	4.4	0.00970
Ethylbenzene	mg/Kg-dry	390	0.24 J	790	40
Toluene	mg/Kg-dry	500	0.51	12,000 E	570 E
m,p-Xylenes	mg/Kg-dry	500	2.4	3300	170
o-Xylene	mg/Kg-dry	500	0.13 J	1200	59

Title
RI Soil Boring Sample Locations and
Analysis Results Exceeding Restricted Commercial SCO
2266 and 2268 Military Road
Tonawanda, New York

Prepared For
Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project 100.001
Date 9/21/2022
Scale Not to Scale

Drawn FRT
Checked MPR
File Name SB Exceedances

Figure 9

MW-1

			MW1
ANALYTE	UNITS	NYSDEC TOGS	
Iron, Total	ug/L	300	4070
Magnesium, Total	ug/L	35000	89200
Manganese, Total	ug/L	300	220
Mercury, Total	ug/L	0.4	0.49
Sodium, Total	ug/L	20000	47000

MW-2

			MW2	MW2 DUP
ANALYTE	UNITS	NYSDEC TOGS		
Trichloroethene (TCE)	ug/L	5	8.1	1.8
cis-1,2-Dichloroethene	ug/L	5	13	2.8

MW-3

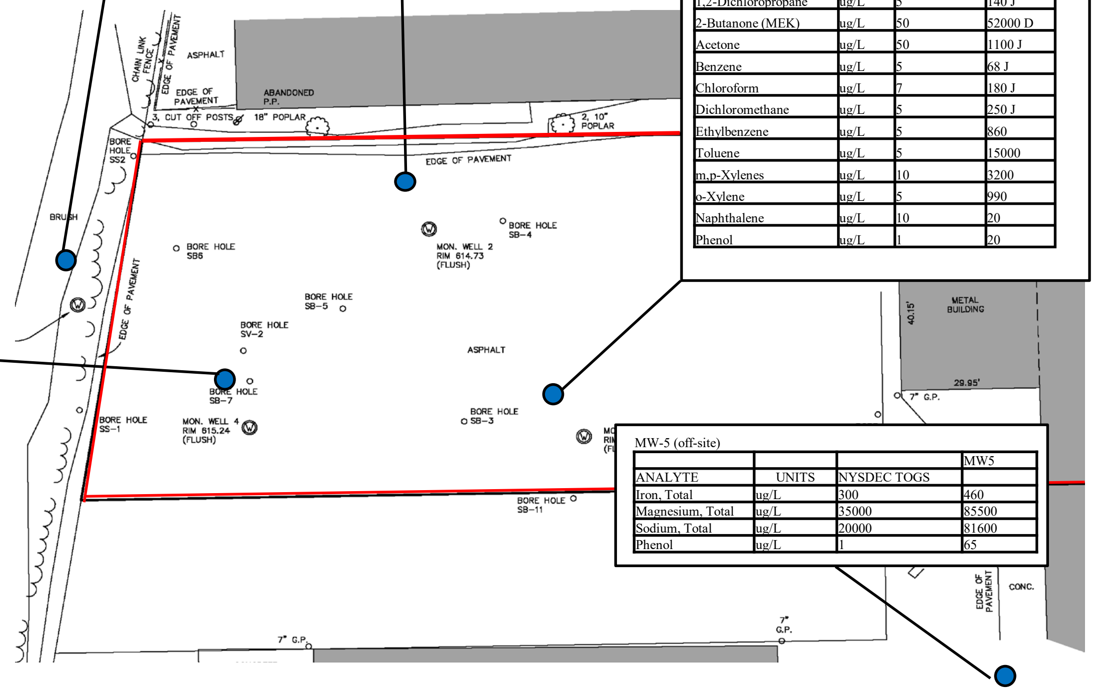
			MW3
ANALYTE	UNITS	NYSDEC TOGS	
Antimony, Total	ug/L	3	6 J
Iron, Total	ug/L	300	4940
Lead, Total	ug/L	25	41 J
Magnesium, Total	ug/L	35000	35300
Manganese, Total	ug/L	300	488
Sodium, Total	ug/L	20000	31600
1,2-Dichloropropane	ug/L	5	140 J
2-Butanone (MEK)	ug/L	50	52000 D
Acetone	ug/L	50	1100 J
Benzene	ug/L	5	68 J
Chloroform	ug/L	7	180 J
Dichloromethane	ug/L	5	250 J
Ethylbenzene	ug/L	5	860
Toluene	ug/L	5	15000
m,p-Xylenes	ug/L	10	3200
o-Xylene	ug/L	5	990
Naphthalene	ug/L	10	20
Phenol	ug/L	1	20

MW-4

			MW4	MW4 FP
ANALYTE	UNITS	NYSDEC TOGS		
Antimony, Total	ug/L	3	105	95
Arsenic, Total	ug/L	25	22	26
Barium, Total	ug/L	1000	1050	955
Cadmium, Total	ug/L	5	8.5	8.6
Chromium, Total	ug/L	50	55	73
Iron, Total	ug/L	300	63800	44800
Lead, Total	ug/L	25	2830	2260
Magnesium, Total	ug/L	35000	129000	130000
Manganese, Total	ug/L	300	6430	6060
Mercury, Total	ug/L	0.4	3.19	2.14
Sodium, Total	ug/L	20000	961000	927000
Zinc, Total	ug/L	2000	160000	155000
4,4'-DDE	ug/L	0.2	3.0	2.3
4,4'-DDT	ug/L	0.2	1.6 P	1.3 P
Dieldrin	ug/L	0.004	0.51 J	0.48 J
Heptachlor	ug/L	0.05	0.63 J	0.46 J
Total PCB	ug/l	0.09	222.0	179
1,2-Dichloropropane	ug/L	5	140 J	100 U
2-Butanone (MEK)	ug/L	50	850000 D	590000 D
Acetone	ug/L	50	15000	10000
Bromodichloromethane	ug/L	50	110 U	260 J
Chloroform	ug/L	7	380 J	980
Dichloromethane	ug/L	5	310 J	250 J
Ethylbenzene	ug/L	5	1800	2000
Toluene	ug/L	5	45000	25000
m,p-Xylenes	ug/L	10	7400	7800
o-Xylene	ug/L	5	1400	1100
Bis(2-ethylhexyl) Phthalate	ug/L	5	97 U	830
Naphthalene	ug/L	10	11 J	11 U
Phenol	ug/L	1	350	250

MW-5 (off-site)

			MW5
ANALYTE	UNITS	NYSDEC TOGS	
Iron, Total	ug/L	300	460
Magnesium, Total	ug/L	35000	85500
Sodium, Total	ug/L	20000	81600
Phenol	ug/L	1	65



Approximate Brownfield Site Boundary
Approximate Monitoring Well Locations

Title	Monitoring Well Locations Water Sample Exceedances 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	3/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	RI Sample Loc.
Figure	10

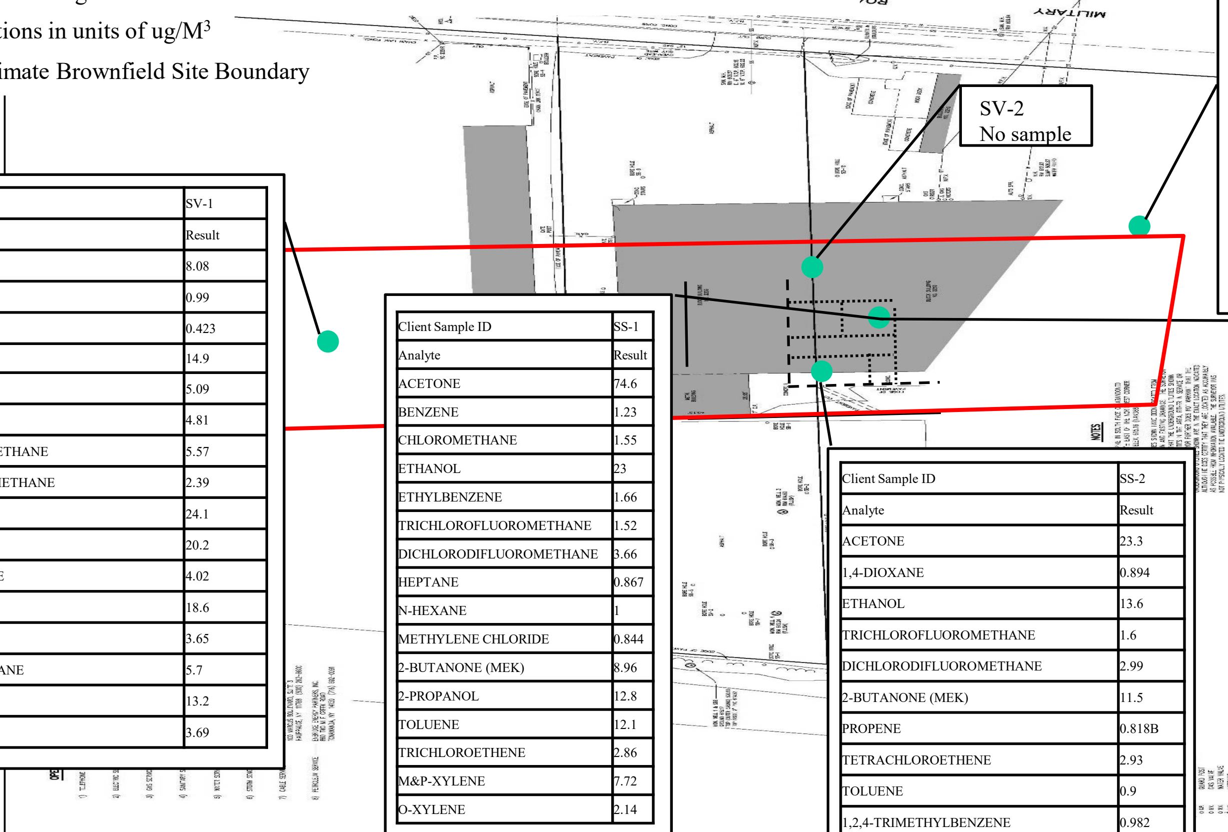
Wall separating tenant spaces, possible concrete block

Wall separating warehouse from flex office space, wood framing not full ceiling height

Wall separating flex office spaces, wood framing, not full ceiling height, area does have drop down ceiling.

All concentrations in units of ug/M³

Approximate Brownfield Site Boundary



Client Sample ID	OUTDOOR 1
Analyte	Result
ACETONE	16.8
BENZENE	1.15
CHLOROMETHANE	3.7
1,4-DIOXANE	1.36
ETHANOL	6.01
ETHYLBENZENE	0.876
TRICHLOROFLUOROMETHANE	1.6
DICHLORODIFLUOROMETHANE	3.03
N-HEXANE	0.917
METHYLENE CHLORIDE	0.715
TETRAHYDROFURAN	2.56
TOLUENE	2.57

Client Sample ID	SV-1
Analyte	Result
ACETONE	8.08
BENZENE	0.99
CHLOROMETHANE	0.423
CYCLOHEXANE	14.9
ETHANOL	5.09
ETHYLBENZENE	4.81
TRICHLOROFLUOROMETHANE	5.57
DICHLORODIFLUOROMETHANE	2.39
HEPTANE	24.1
N-HEXANE	20.2
TETRACHLOROETHENE	4.02
TOLUENE	18.6
TRICHLOROETHENE	3.65
2,2,4-TRIMETHYLPENTANE	5.7
M&P-XYLENE	13.2
O-XYLENE	3.69

Client Sample ID	SS-1
Analyte	Result
ACETONE	74.6
BENZENE	1.23
CHLOROMETHANE	1.55
ETHANOL	23
ETHYLBENZENE	1.66
TRICHLOROFLUOROMETHANE	1.52
DICHLORODIFLUOROMETHANE	3.66
HEPTANE	0.867
N-HEXANE	1
METHYLENE CHLORIDE	0.844
2-BUTANONE (MEK)	8.96
2-PROPANOL	12.8
TOLUENE	12.1
TRICHLOROETHENE	2.86
M&P-XYLENE	7.72
O-XYLENE	2.14

Client Sample ID	SS-2
Analyte	Result
ACETONE	23.3
1,4-DIOXANE	0.894
ETHANOL	13.6
TRICHLOROFLUOROMETHANE	1.6
DICHLORODIFLUOROMETHANE	2.99
2-BUTANONE (MEK)	11.5
PROPENE	0.818B
TETRACHLOROETHENE	2.93
TOLUENE	0.9
1,2,4-TRIMETHYLBENZENE	0.982

Client Sample ID	DUP	INDOOR-1
Analyte	Result	Result
ACETONE	12	12.5
BENZENE	1.07	1.14
CHLOROMETHANE	1.52	1.58
ETHANOL	24.7	13.4
ETHYLBENZENE	1.3	1.2
TRICHLOROFLUOROMETHANE	1.58	1.56
DICHLORODIFLUOROMETHANE	3.39	3.58
N-HEXANE	0.867	0.913
METHYLENE CHLORIDE	1.02	0.74
TOLUENE	10.5	9.94
TRICHLOROETHENE	2.71	2.74
1,2,4-TRIMETHYLBENZENE	1.15	ND (0.982)
M&P-XYLENE	5.03	4.6
O-XYLENE	1.47	1.32

Title RI Soil Vapor and Air Sampling Locations and Summary Results
2266 and 2268 Military Road
Tonawanda, New York

Prepared For Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project 100.001

Date 4/11/2020

Scale Not to Scale

Drawn PVS

Checked MPR

File Name Air Sample Loc.

Figure 11

Sensitive Environments Near Bisonite Paint Site

April 2, 2020

1:36,112

0 0.33 0.65 1.3 mi

0 0.5 1 2 km

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NYS Department of Environmental Conservation
Not a legal document

Surface water

Wetland

Wetland

NORTH

Title	Location of Sensitive Environments 2266 and 2268 Military Road Tonawanda, New York
Prepared For	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	4/11/2020
Scale	Not to Scale
Drawn	PVS
Checked	MPR
File Name	Sensitive Env.
Figure	12

RAAR FIGURES

SS-2

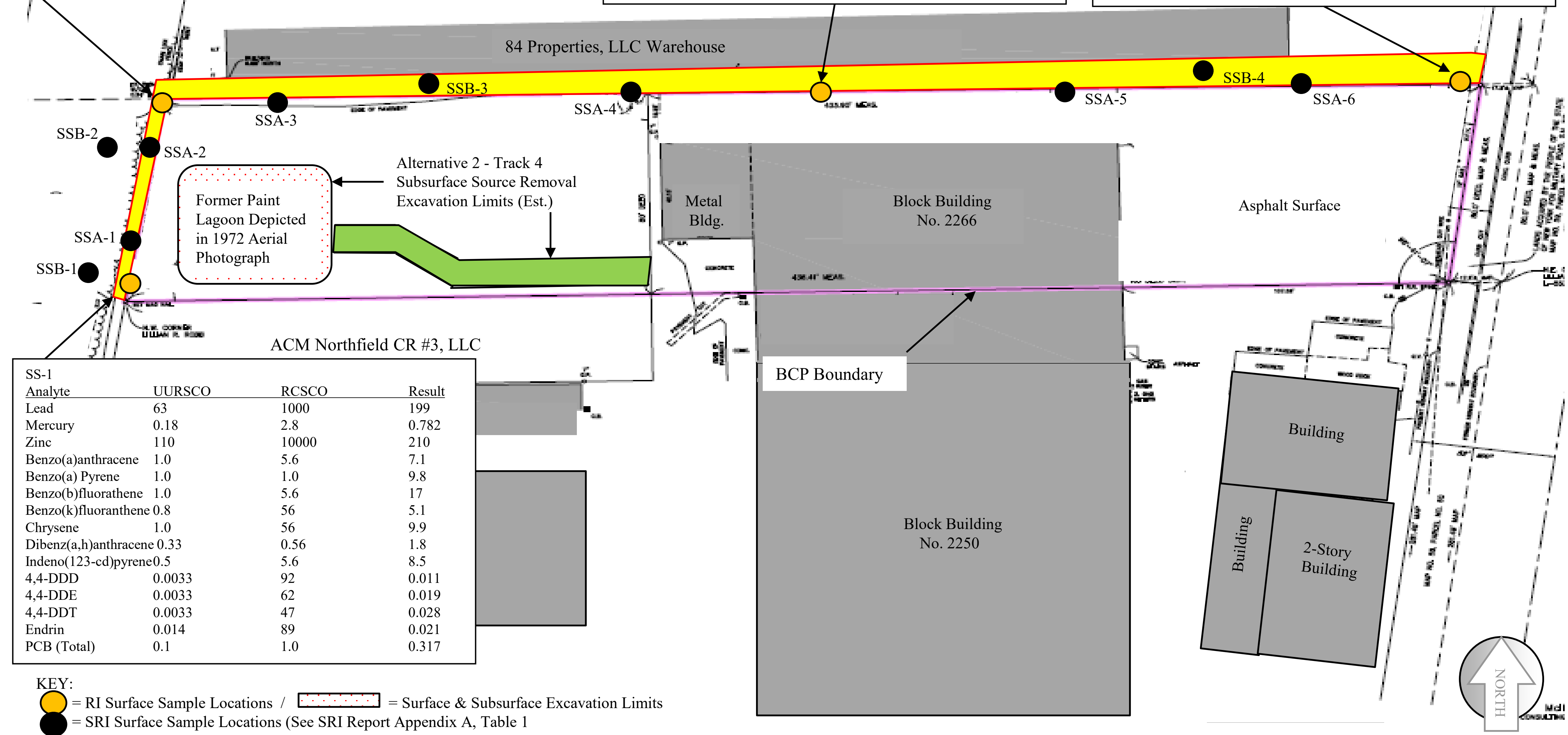
Analyte	UURSCO	RCSCO	Result
Zinc	110	10000	176
Benzo(a)anthracene	1.0	5.6	6.3
Benzo(a) Pyrene	1.0	1.0	8.2
Benzo(b)fluorathene	1.0	5.6	13
Benzo(k)fluoranthene	0.8	56	4.5
Chrysene	1.0	56	9.5
Dibenz(a,h)anthracene	0.33	0.56	1.4
Indeno(123-cd)pyrene	0.5	5.6	6.8
4,4-DDT	0.0033	47	0.024

SS-3

Analyte	UURSCO	RCSCO	Result
Chromium	1/30	400/1500	40.1
Lead	63	1000	105
Zinc	110	10000	226
Benzo(a)anthracene	1.0	5.6	52
Benzo(a) Pyrene	1.0	1.0	70
Benzo(b)fluorathene	1.0	5.6	110
Benzo(k)fluoranthene	0.8	56	19
Chrysene	1.0	56	73
Dibenz(a,h)anthracene	0.33	0.56	11
Indeno(123-cd)pyrene	0.5	5.6	64
4,4-DDD	0.0033	92	0.014
Endrin	0.014	89	0.058

SS-4

Analyte	UURSCO	RCSCO	Result
Lead	63	1000	95.3
Mercury	0.18	2.8	0.225
Zinc	110	10000	218
Benzo(a)anthracene	1.0	5.6	36
Benzo(a) Pyrene	1.0	1.0	45
Benzo(b)fluorathene	1.0	5.6	69
Benzo(k)fluoranthene	0.8	56	17
Chrysene	1.0	56	48
Dibenz(a,h)anthracene	0.33	0.56	7.1
Indeno(123-cd)pyrene	0.5	5.6	42
4,4-DDD	0.0033	92	0.021
Endrin	0.014	89	0.046



SS-1

Analyte	UURSCO	RCSCO	Result
Lead	63	1000	199
Mercury	0.18	2.8	0.782
Zinc	110	10000	210
Benzo(a)anthracene	1.0	5.6	7.1
Benzo(a) Pyrene	1.0	1.0	9.8
Benzo(b)fluorathene	1.0	5.6	17
Benzo(k)fluoranthene	0.8	56	5.1
Chrysene	1.0	56	9.9
Dibenz(a,h)anthracene	0.33	0.56	1.8
Indeno(123-cd)pyrene	0.5	5.6	8.5
4,4-DDD	0.0033	92	0.011
4,4-DDE	0.0033	62	0.019
4,4-DDT	0.0033	47	0.028
Endrin	0.014	89	0.021
PCB (Total)	0.1	1.0	0.317

KEY:
= RI Surface Sample Locations / = Surface & Subsurface Excavation Limits
= SRI Surface Sample Locations (See SRI Report Appendix A, Table 1 for SVOC exceedances)

Title: Surface and Subsurface Soils – Track 4 Excavation Limits
2266 and 2268 Military Road
Tonawanda, New York

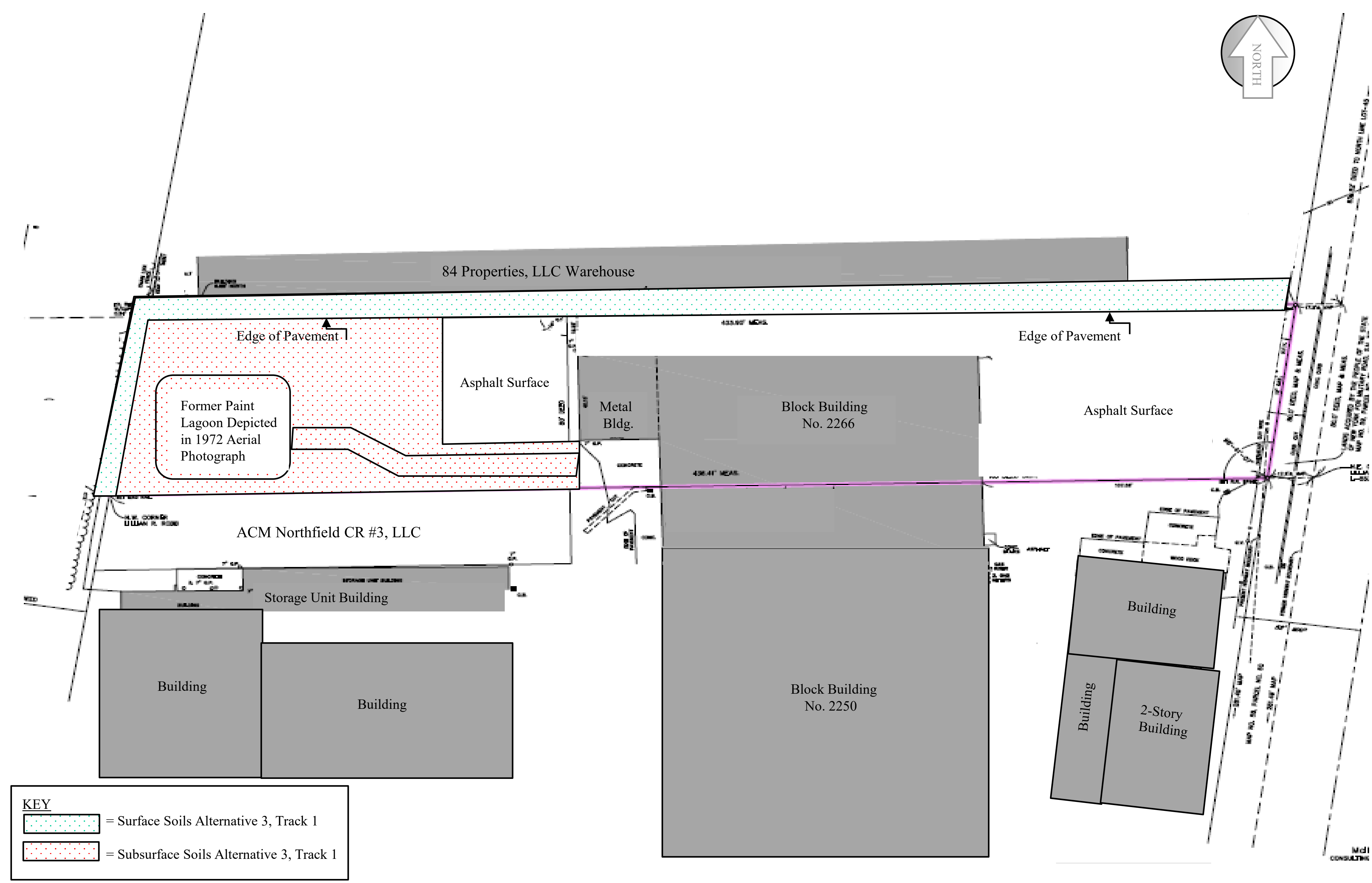
Prepared For: Tonawanda Storage Properties LLC
1400 Crossroads Building
2 State Street Rochester, New York

MARSH ENGINEERING D.P.C.

Project 100.001
Date 10/05/2022
Scale Not to Scale

Drawn FRT
Checked MPR
File Name Track 4 Removal

Figure 13



Title:	Surface and Subsurface Excavation Limits – Track 1 2266 and 2268 Military Road Tonawanda, New York
Prepared For:	Tonawanda Storage Properties LLC 1400 Crossroads Building 2 State Street, Rochester, New York

MARSH ENGINEERING D.P.C.

Project	100.001
Date	10/11/2022
Scale	NTS
Drawn	FRT
Checked	MPR
File Name	Subsurface Soil
Figure	14

RI TABLES

TABLE 1
Soil Analysis Results from NYSDEC 1993 Preliminary Site Assessment
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Sample Interval)	**SS 5**	**SS-6**	**SS-8**	**B-1 4-6 ft.**	**B-2 6-8 ft.**
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**Restricted Commercial SCO**					
Barium, Total	mg/Kg dry	350	400	3.3	279	287	973	350
Cadmium, Total	mg/Kg dry	2.5	9.3	1.4	ND	0.66 J	ND	1.4
Chromium, Total	mg/Kg dry	1/30	400/1500	98.1	79.4	127	19.9	154
Copper, Total	mg/Kg dry	50	270	35.3	25.5	31	18.5	39.2
Lead, Total	mg/Kg dry	63	1000	693	826	1020	46.7	640
Mercury, Total	mg/Kg dry	0.18	2.8	13.3	17	10.7	0.69	6.7
Zinc, Total	mg/Kg dry	110	10,000	426	640	637	109	669
Total PCB	mg/Kg dry	0.1	1	0.00061	**2.5**	0.96	0.055 J	0.19 J
2 Methylnaphthalene	mg/Kg dry	N/A	N/A	022 J	ND	ND	ND	ND
Acenaphthene	mg/Kg dry	20	500	0.05	ND	ND	ND	ND
Anthracene	mg/Kg dry	100	500	0.044 J	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg dry	1	1	0.12 J	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg dry	1	5.60	0.22	ND	ND	ND	ND
Benzo(g,h,i)perylene	mg/Kg dry	100	500	0.17	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg dry	1	5.6	0.17 J	ND	ND	ND	ND
Fluoranthene	mg/Kg dry	100	500	0.17 J	ND	0.43 J	ND	ND
Indeno(1,2,3 cd)pyrene	mg/Kg dry	0.50	5.6	0.19 J	ND	ND	ND	ND
Naphthalene	mg/Kg dry	12	500	4.2	ND	ND	ND	3.9 J
Phenanthrene	mg/Kg dry	100	500	.26 J	ND	ND	ND	ND
Pyrene	mg/Kg dry	100	500	0.62 J	0.58 J	ND	ND	ND
2 Butanone (MEK)	mg/Kg dry	0.12	500	ND	ND	ND	ND	0.054
4 Methyl 2 pentanone	mg/Kg dry	N/A	N/A	0.22 J	ND	ND	ND	ND
Acetone	mg/Kg dry	0.05	500	0.87 BJ	ND	0.006 BJ	ND	**1300**
Benzene	mg/Kg dry	0.06	44	ND	ND	ND	ND	0.21
Ethylbenzene	mg/Kg dry	1	390	2.5	ND	ND	0.014	200
Dichloromethane	mg/Kg dry	0.05	500	1.1 BJ	0.0003 BJ	0.011 BJ	0.011 BJ	**1100**
Styrene	mg/Kg dry	N/A	N/A	220J	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg dry	1.3	150	ND	ND	ND	ND	0.01 J
Toluene	mg/Kg dry	0.7	500	4.5	ND	ND	ND	**19,000**
Xylene	mg/Kg dry	0.26	500	ND	ND	ND	36	**1,000**

Notes:
Units as shown.
ND = Not detected.
J = Value shown is > method detection limit = or < lab reporting limit.
B = Compound also found in blank.
D = Dilution.
Bold = value shown is > than UUSCO.
Bold and Shaded = value shown is > than CSCO.

TABLE 2
Groundwater Analysis Exceedances from NYSDEC 1993 Preliminary Site Assessment
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

ANALYTE	UNITS	NYSDEC TOGS	MW3	MW4
Metals				
Antimony, Total	ug/L	3.0	ND	**44.5**
Barium, Total	ug/L	1000	105 B	277 B
Cadmium, Total	ug/L	5.0	4.3B	ND
Chromium, Total	ug/L	ND	11.6B	55
Lead, Total	ug/L	25.0	3.6	7.3
Zinc, Total	ug/L	2000	21.7	50.6
Dichloromethane	ug/L	5.0	**9B J**	**13B**
Bis(2-ethylhexyl) Phthalate	ug/L	5.0	**63 J**	**180 J**

Notes:
All units as shown.
ND = Not detected.
J = Value is > method detection limit and < lab reporting limit.
B = Compound was found in a blank sample.
Bold and Shaded = result was greater than Class GA groundwater standard.

TABLE 3
Groundwater Elevation and Geochemical and Physical Measurements
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Location		**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
Date	**Units**	1/27/2020	1/27/2020	1/27/2020	1/27/2020	1/27/2020
Ground elevation	Feet MSL	616.17	614.73	614.6	615.24	613.05
Water depth	Feet BGS	3.5	0.45	0.45	0.52	3.1
Water Elevation	Feet MSL	612.67	614.28	614.15	614.72	609.95
Temperature	Centigrade	5.7	3.4	4.6	NS	5.6
pH	Std, Units	7.3	8.11	8.8	NS	7.2
Sp. Cond.	mS/cm	1.09	0.284	0.74	NS	1.39
Diss. Oxygen	mg/L	7.8	10.3	1.2	NS	4.4
ORP	MV	218.9	146	-51	NS	182.6
Turbidity	NTU	10.8	10.37	47	NS	0
Free Product		0	0	0	<1 in.	0

Notes:
MSL = Mean sea level
BGS = Below ground surface
mg/L = Milligrams per liter
mS/cm = Milli-Siemens per centimeter
MV = Millivolts
Std. Units = Standard units
NS = Not Sampled due to presence of Free Product

TABLE 4
Surface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

ANALYTE	RESULT REPORTED TO	UNITS	Unrestricted Use SCO	Sample ID (Sample Interval) Restricted Commercial SCO	SS 1 (0-2") R1911946 008	SS 2 (0-2") R1911946 009	SS 3 (0-2") R1911946 010	SS 4 (0-2") R1911946 011
Metals								
Aluminum, Total	MDL	mg/Kg dry	N/A	N/A	7130	7190	8150	7680
Antimony, Total	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Arsenic, Total	MDL	mg/Kg dry	13.0	16.0	4.2	3.8	4.2	3.7
Barium, Total	MDL	mg/Kg dry	350	400	87.2	96.3	95.2	86.8
Beryllium, Total	MDL	mg/Kg dry	7.2	590	0.53	0.34 J	0.60	0.54
Cadmium, Total	MDL	mg/Kg dry	2.5	9.3	0.85	0.88 J	0.66 J	0.61 J
Calcium, Total	MDL	mg/Kg dry	N/A	N/A	67600	22100	62100	51900
Chromium, Total	MDL	mg/Kg dry	1/30	400/1500	20.7	23.7	**40.1**	26.6
Cobalt, Total	MDL	mg/Kg dry	N/A	N/A	4.4 J	4.8 J	5.5 J	5.4 J
Copper, Total	MDL	mg/Kg dry	50	270	37.8	32.8	47.4	35.3
Iron, Total	MDL	mg/Kg dry	N/A	N/A	14700	14100	20300	16900
Lead, Total	MDL	mg/Kg dry	63	1000	**199**	51.5	**105**	**95.3**
Magnesium, Total	MDL	mg/Kg dry	N/A	N/A	13100	6080	14000	12400
Manganese, Total	MDL	mg/Kg dry	1600	10000	419	389	521	471
Mercury, Total	MDL	mg/Kg dry	0.18	2.8	**0.782**	0.152	0.089	**0.225**
Nickel, Total	MDL	mg/Kg dry	30.0	310	10.8	10.9	14.6	13.5
Potassium, Total	MDL	mg/Kg dry	N/A	N/A	1460	1680	1860	1820
Selenium, Total	MDL	mg/Kg dry	3.9	1500	ND	ND	ND	ND
Silver, Total	MDL	mg/Kg dry	2.0	1500	0.1 J	ND	ND	0.1 J
Sodium, Total	MDL	mg/Kg dry	N/A	N/A	130	ND	170	160
Thallium, Total	MDL	mg/Kg dry	N/A	N/A	1.9	ND	1.3 J	1.3
Vanadium, Total	MDL	mg/Kg dry	N/A	N/A	13.6	16.0	18.2	17.7
Zinc, Total	MDL	mg/Kg dry	110	10000	**210**	**176**	**226**	**218**
Method: 8081B/Pest OC								
4,4' DDD	MDL	mg/Kg dry	0.0033	92.0	**0.011**	ND	**0.014**	**0.021**
4,4' DDE	MDL	mg/Kg dry	0.0033	62.0	**0.019**	ND	ND	ND
4,4' DDT	MDL	mg/Kg dry	0.0033	47.0	**0.028**	**0.024**	ND	ND
Aldrin	MDL	mg/Kg dry	0.005	0.68	ND	ND	ND	ND
Dieldrin	MDL	mg/Kg dry	0.005	1.4	ND	ND	ND	ND
Endosulfan I	MDL	mg/Kg dry	2.4	200	ND	ND	0.017	0.013
Endosulfan II	MDL	mg/Kg dry	2.4	200	0.020	ND	ND	ND
Endosulfan Sulfate	MDL	mg/Kg dry	2.4	200	ND	ND	ND	ND
Endrin	MDL	mg/Kg dry	0.014	89.0	**0.021**	ND	**0.058**	**0.046**
Endrin Aldehyde	MDL	mg/Kg dry	N/A	N/A	ND	0.028	0.055	0.052
Endrin Ketone	MDL	mg/Kg dry	N/A	N/A	0.03	ND	0.1	0.065

Notes:
Bold = result is > than UUSCO.
Bold Shade = result is > than CSCO.
ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

TABLE 4
Surface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

Heptachlor	MDL	mg/Kg dry	0.042	15.0	ND	ND	ND	ND
Heptachlor Epoxide	MDL	mg/Kg dry	N/A	N/A	ND	ND	0.0075 J	ND
Methoxychlor	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Toxaphene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
alpha BHC	MDL	mg/Kg dry	0.02	3.4	ND	ND	ND	ND
alpha Chlordane	MDL	mg/Kg dry	0.094	24.0	0.0054 J	ND	ND	ND
beta BHC	MDL	mg/Kg dry	0.036	3.0	0.014	ND	ND	ND
delta BHC	MDL	mg/Kg dry	0.04	500	ND	ND	ND	ND
gamma BHC (Lindane)	MDL	mg/Kg dry	0.1	9.2	ND	ND	ND	ND
gamma Chlordane	MDL	mg/Kg dry	N/A	N/A	0.01	0.0088	0.021	0.012J
Method: 8082A/PCB								
Aroclor 1016	MDL	mg/Kg dry	0.1	1	ND	ND	ND	ND
Aroclor 1221	MDL	mg/Kg dry	0.1	1	ND	ND	ND	ND
Aroclor 1232	MDL	mg/Kg dry	0.1	1	ND	ND	ND	ND
Aroclor 1242	MDL	mg/Kg dry	0.1	1	ND	ND	ND	ND
Aroclor 1248	MDL	mg/Kg dry	0.1	1	ND	ND	0.041 J	ND
Aroclor 1254	MDL	mg/Kg dry	0.1	1	**0.28**	0.072	0.042 J	0.051
Aroclor 1260	MDL	mg/Kg dry	0.1	1	**0.037 J**	ND	ND	0.025 J
Total PCBs		mg/Kg dry	0.1	1	**0.317**	0.072	0.076	0.076
Method: 8151A/HERB								
2,4,5 T	MDL	mg/Kg dry	N/A	N/A	.0085J	ND	0.086	0.03
2,4,5 TP	MDL	mg/Kg dry	3.8	500	ND	ND	ND	ND
2,4 D	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Dicamba	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Method: 8270D/SVO								
1,2,4,5 Tetrachlorobenzene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,2' Oxybis(1 chloropropane)	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,3,4,6 Tetrachlorophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4,5 Trichlorophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4,6 Trichlorophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4 Dichlorophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4 Dimethylphenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4 Dinitrophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,4 Dinitrotoluene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2,6 Dinitrotoluene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2 Chloronaphthalene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2 Chlorophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2 Methylnaphthalene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND

Notes:
Bold = result is > than UUSCO.
Bold Shade = result is > than CSCO.
ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

2 Methylphenol	MDL	mg/Kg dry	0.33	500	ND	ND	ND	ND
2 Nitroaniline	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
2 Nitrophenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
3,3' Dichlorobenzidine	MDL	ug/Kg dry	N/A	N/A	ND	ND	ND	ND
3 and 4 Methylphenol Coelution	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
3 Nitroaniline	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4,6 Dinitro 2 methylphenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Bromophenyl Phenyl Ether	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Chloro 3 methylphenol	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Chloroaniline	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Chlorophenyl Phenyl Ether	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Nitroaniline	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
4 Nitrophenol	MDL	mg/Kg dry	N/A	N/A	MD	ND	ND	ND
Acenaphthene	MDL	mg/Kg dry	20	500	0.30 J	ND	1.8 J	1.4 J
Acenaphthylene	MDL	mg/Kg dry	100	500	ND	ND	0.91 J	ND
Acetophenone	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Anthracene	MDL	mg/Kg dry	100	500	1.1 J	1.1 J	6.5	5.7
Atrazine	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Benz(a)anthracene	MDL	mg/Kg dry	1.0	5.6	**7.1**	**6.3**	**52 D**	**36 D**
Benzaldehyde	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Benzo(a)pyrene	MDL	mg/Kg dry	1.0	1.0	**9.8**	**8.2**	**70 D**	**45 D**
Benzo(b)fluoranthene	MDL	mg/Kg dry	1.0	5.6	**17 D**	**13.0**	**110 D**	**69 D**
Benzo(g,h,i)perylene	MDL	mg/Kg dry	100	500	7.4	6.2	55 D	36 D
Benzo(k)fluoranthene	MDL	mg/Kg dry	0.8	56.0	**5.1**	**4.5**	**19.0**	**17.0**
Biphenyl	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Bis(2 chloroethoxy)methane	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Bis(2 chloroethyl) Ether	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate	MDL	mg/Kg dry	N/A	N/A	0.59 J	ND	0.91 J	0.69
Butyl Benzyl Phthalate	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Caprolactam	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Carbazole	MDL	mg/Kg dry	N/A	N/A	2.1	2.0	9.9	8.0
Chrysene	MDL	mg/Kg dry	1.0	56.0	**9.9**	**9.5**	**73 D**	**48 D**
Di n butyl Phthalate	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Di n octyl Phthalate	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Dibenz(a,h)anthracene	MDL	mg/Kg dry	0.33	0.56	**1.8**	**1.4 J**	**11.0**	**7.1**
Dibenzofuran	MDL	mg/Kg dry	7.0	350	ND	ND	1.2 J	0.90 J
Diethyl Phthalate	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Dimethyl Phthalate	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Fluoranthene	MDL	mg/Kg dry	100	500	11	13	87 D	63 D
Fluorene	MDL	mg/Kg dry	30.0	500	0.43 J	ND	2.6	2.1 J

Notes:
Bold = result is > than UUSCO.
Bold Shade = result is > than CSCO.
ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

TABLE 4
Surface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

Hexachlorobenzene	MDL	mg/Kg dry	0.33	6.0	ND	ND	ND	ND
Hexachlorobutadiene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Hexachlorocyclopentadiene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Hexachloroethane	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Indeno(1,2,3 cd)pyrene	MDL	mg/Kg dry	0.5	5.6	**8.5**	**6.8**	**64 D**	**42 D**
Isophorone	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
N Nitrosodi n propylamine	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
N Nitrosodiphenylamine	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Naphthalene	MDL	mg/Kg dry	12.0	500	ND	ND	ND	ND
Nitrobenzene	MDL	mg/Kg dry	N/A	N/A	ND	ND	ND	ND
Pentachlorophenol (PCP)	MDL	mg/Kg dry	0.8	6.7	0.38 U	ND	ND	ND
Phenanthrene	MDL	mg/Kg dry	100	500	6.7	7.6	24	19
Phenol	MDL	mg/Kg dry	0.33	500	ND	ND	ND	ND
Pyrene	MDL	mg/Kg dry	100	500	11.0	13.0	89 D	63 D
Total TICs		mg/Kg dry			141.900	52.500	328.500	611.100
Method: 9012B/CN Tot								
Cyanide, Total	MDL	mg/Kg dry	27.0	27.0	0.42	0.59 B	0.68 B	0.61 B
Method: ALS SOP/Total Solids								
Total Solids	MDL	Percent	N/A	N/A	85.6	50.5	66.8	68.7

Notes:
Bold = result is > than UUSCO.
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ND = Not detected or < MDL
MDL = Method Detection Limit
J = Value shown is estimated

TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-1 1ft. - 2ft.	SB-1 17ft. - 18ft.	SB-2 1ft. - 2ft.	SB-2 4ft. - 6ft.	SB-2 15ft. - 17ft.	SB-3 1ft. - 2ft.	SB-3 4ft. - 6ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
Metals											
Aluminum, Total	mg/Kg dry	N/A	N/A	N/A	14000	7600	11100	8630	9910	10300	9060
Antimony, Total	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg dry	13.0	16.0	16.0	5.1	2.3	3.3	2.8	2.1	3.1	ND
Barium, Total	mg/Kg dry	350	400	820	125	78.9	108	84.5	117	122	105
Beryllium, Total	mg/Kg dry	7.2	590	47	0.77	0.36	0.51	0.40	0.44	0.59	0.50
Cadmium, Total	mg/Kg dry	2.5	9.3	7.5	0.49 J	0.32 J	0.36 J	0.44 J	0.44 J	0.68	0.34 J
Calcium, Total	mg/Kg dry	N/A	N/A	N/A	2290	75100	53000	76200	64700	42100	97800
Chromium, Total	mg/Kg dry	N/A	N/A	19	17.3	22.0 *	18.3	13.7	37.2 *	30.9 *	29.9 *
Cobalt, Total	mg/Kg dry	N/A	N/A	N/A	11.1	5.9	8.1	9.1	8.0	7.4	6.8
Copper, Total	mg/Kg dry	50.0	270	1720	19.1	19.9	19.2	22.3	21.8	22.3	18.3
Iron, Total	mg/Kg dry	N/A	N/A	N/A	26300	16300	18800	17700	19300	18200	16100
Lead, Total	mg/Kg dry	63.0	1000	450	16.9	12.8	31.6	16.6	**152**	**194**	**215**
Magnesium, Total	mg/Kg dry	N/A	N/A	N/A	3810	28700	16100	22100	20900	9910	11800
Manganese, Total	mg/Kg dry	1600	10000	2000	1440	538	552	580	584	576	406
Mercury, Total	mg/Kg dry	0.18	2.8	0.73	0.035 J	0.024 J	**1.05 ***	0.081	**1.50 ***	**1.13 ***	**1.42 ***
Nickel, Total	mg/Kg dry	30.0	310	130	17.2	10.1	13.9	11.3	13.9	13.2	12.8
Potassium, Total	mg/Kg dry	N/A	N/A	N/A	1280	2010	1800	2190	2510	1580	2090
Selenium, Total	mg/Kg dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	ND
Silver, Total	mg/Kg dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg dry	N/A	N/A	N/A	ND	180	180	200	200	120	200
Thallium, Total	mg/Kg dry	N/A	N/A	N/A	ND	1.9	1.1 J	2.1	1.4	0.9 J	2.9
Vanadium, Total	mg/Kg dry	N/A	N/A	N/A	29.8	18.3	22.6	19.7	23.3	21.5	23.6
Zinc, Total	mg/Kg dry	110	10000	2480	75.2	74.1	77.7	75.8	125	498	184
Method: 8081B/Pest OC											
4,4' DDD	mg/Kg dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND
4,4' DDE	mg/Kg dry	0.0033	62.0	17.0	ND	ND	ND	ND	0.010 J	ND	**0.14**
4,4' DDT	mg/Kg dry	0.0033	47.0	136	ND	ND	ND	**0.019**	ND	ND	ND
Aldrin	mg/Kg dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg dry	0.005	1.4	0.1	ND	ND	**0.013**	**0.0058 J**	ND	ND	**0.024**
Endosulfan I	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND

Notes:
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* = Exceeds GWSCOs
ND = Not Detected or below MDL
J = Value shown is >MDL or = or < lab reporting limit.

TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-1 1ft. - 2ft.	SB-1 17ft. - 18ft.	SB-2 1ft. - 2ft.	SB-2 4ft. - 6ft.	SB-2 15ft. - 17ft.	SB-3 1ft. - 2ft.	SB-3 4ft. - 6ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
Endrin	mg/Kg dry	0.014	89.0	0.06	ND	ND	ND	0.013	ND	ND	0.011
Endrin Aldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	0.046	ND	ND	ND
Endrin Ketone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg dry	0.042	15.0	N/A	ND	ND	0.0095 J	0.020	ND	**0.047**	0.027
Heptachlor Epoxide	mg/Kg dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Toxaphene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
alpha BHC	mg/Kg dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND
alpha Chlordane	mg/Kg dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND
beta BHC	mg/Kg dry	0.036	3.0	0.09	ND	ND	0.013 *	ND	ND	ND	0.030 P
delta BHC	mg/Kg dry	0.04	500	0.25	ND	ND	ND	ND	ND	ND	ND
gamma BHC (Lindane)	mg/Kg dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND
gamma Chlordane	mg/Kg dry	N/A	N/A	14	ND	ND	ND	ND	ND	ND	ND
Method: 8082A/PCB											
Aroclor 1016	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg dry	0.1	1	3.2	ND	ND	**2.6**	**3.1**	**0.59**	**12 ***	**8 ***
Aroclor 1254	mg/Kg dry	0.1	1	3.2	ND	ND	**1.8**	**1.3**	**0.38**	**11 ***	**3.4 ***
Aroclor 1260	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	**1.9**	**0.81**
Total PCB	mg/Kg dry	0.1	1	3.2	ND	ND	**4.4 ***	**4.4 ***	**0.97**	**24.9 ***	**12.21 ***
Method: 8151A/HERB											
2,4,5 T	mg/Kg dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND
2,4,5 TP	mg/Kg dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	0.0072 J
2,4 D	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP											
1,1,1 Trichloroethane (TCA)	mg/Kg dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane (1,1 DCA)	mg/Kg dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene (1,1 DCE)	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND

Notes:
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* = Exceeds GWSCOs
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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-1 1ft. - 2ft.	SB-1 17ft. - 18ft.	SB-2 1ft. - 2ft.	SB-2 4ft. - 6ft.	SB-2 15ft. - 17ft.	SB-3 1ft. - 2ft.	SB-3 4ft. - 6ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
1,2,3 Trichlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2,4 Trichlorobenzene	mg/Kg dry	N/A	N/A	3.4	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	**15 J ***	**1.3 J ***	0.00035 J	ND
1,2 Dichloroethane	mg/Kg dry	0.02	30.0	0.02	ND	0.00043 J	ND	ND	ND	ND	ND
1,2 Dichloropropane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	mg/Kg dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	mg/Kg dry	1.8	130	1.8	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane	mg/Kg dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND
2 Butanone (MEK)	mg/Kg dry	0.12	500	0.12	0.0067	0.014	ND	ND	ND	0.0082	ND
2 Hexanone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Methyl 2 pentanone	mg/Kg dry	N/A	N/A	1	ND	.00023 J	ND	16 J *	0.91 J	ND	ND
Acetone	mg/Kg dry	0.05	500	0.05	**0.060 ***	**0.21 E ***	ND	ND	ND	0.014	ND
Benzene	mg/Kg dry	0.06	44.0	0.06	0.00054 J	0.00098 J	**0.16 J ***	**15 J ***	**0.70 J ***	0.014	ND
Bromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg dry	N/A	N/A	2.7	0.00029 J	0.0037 J	ND	ND	ND	0.0005 J	ND
Carbon Tetrachloride	mg/Kg dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg dry	1.1	500	1.1	0.00030 J	0.00023 J	ND	**12 J ***	0.69 J	0.00029 J	ND
Chloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg dry	N/A	N/A	N/A	0.00032 J	0.0016 J	ND	ND	ND	0.028	ND
Dibromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg dry	1.0	390	1.0	ND	0.00063 J	0.24 J	**790 ***	**40 ***	0.020	**82 ***
Isopropylbenzene (Cumene)	mg/Kg dry	N/A	N/A	2.3	0.0012 J	0.00034 J	0.051 J	61 J *	3.4 J *	0.0014 J	59 J *
Methyl Acetate	mg/Kg dry	N/A	N/A	N/A	0.013	.11	0.35 J	ND	ND	0.0052 J	ND
Methyl tert Butyl Ether	mg/Kg dry	0.93	500	0.93	ND	0.00050 J	ND	ND	ND	ND	ND
Methylcyclohexane	mg/Kg dry	N/A	N/A	N/A	0.0034 J	0.0037 J	0.078 J	ND	ND	0.053	0.91 J

Notes:
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Bold / Shade = Exceeds CSCOs
* = Exceeds GWSCOs
ND = Not Detected or below MDL
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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-1 1ft. - 2ft.	SB-1 17ft. - 18ft.	SB-2 1ft. - 2ft.	SB-2 4ft. - 6ft.	SB-2 15ft. - 17ft.	SB-3 1ft. - 2ft.	SB-3 4ft. - 6ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
Styrene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg dry	1.3	150	1.3	ND	0.00094 J	ND	ND	ND	ND	ND
Toluene	mg/Kg dry	0.7	500	0.7	0.00077 J	0.0015 J	0.51	**12000 E ***	**570 E ***	0.25 E	**89 ***
Trichloroethene (TCE)	mg/Kg dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg dry	0.02	13.0	0.02	ND	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	mg/Kg dry	0.25	500	0.25	ND	ND	ND	ND	ND	ND	ND
cis 1,3 Dichloropropene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
m,p Xylenes	mg/Kg dry	0.26	500	1.6	0.00035 J	0.0029 J	**2.4 ***	**3300 ***	**170 D ***	0.11	**380 ***
o Xylene	mg/Kg dry	0.26	500	1.6	ND	0.0011 J	0.13	**1200 ***	**59 D ***	0.034	**41 ***
trans 1,2 Dichloroethene	mg/Kg dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND
trans 1,3 Dichloropropene	ug/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg dry				0.561	0.180	0.66	7490	887	4.489	2375
Method: 8270D/SVO											
1,2,4,5 Tetrachlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,2' Oxybis(1 chloropropane)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,3,4,6 Tetrachlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,5 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,6 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dimethylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrophenol	mg/Kg dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,6 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chloronaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylnaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	790 J	140 J	ND	16000 D
2 Methylphenol	mg/Kg dry	0.33	500	N/A	ND	ND	ND	**0.97 J**	ND	ND	ND
2 Nitroaniline	mg/Kg dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND
2 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3,3' Dichlorobenzidine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 and 4 Methylphenol Coelution	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	770 J	260 J	ND	110 J
3 Nitroaniline	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
4,6 Dinitro 2 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND

Notes:
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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-1 1ft. - 2ft.	SB-1 17ft. - 18ft.	SB-2 1ft. - 2ft.	SB-2 4ft. - 6ft.	SB-2 15ft. - 17ft.	SB-3 1ft. - 2ft.	SB-3 4ft. - 6ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
4 Bromophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloro 3 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloroaniline	mg/Kg dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND
4 Chlorophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitroaniline	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	6.9 D
Acenaphthylene	mg/Kg dry	100	500	107	ND	ND	ND	ND	ND	ND	0.11 J
Acetophenone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	0.14 J	6.0 D
Atrazine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg dry	1.0	5.6	1.0	ND	ND	ND	ND	ND	0.29 J	**5.1 D ***
Benzaldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg dry	1.0	1.0	22.0	ND	ND	ND	ND	ND	0.31 J	**3.8 DJ**
Benzo(b)fluoranthene	mg/Kg dry	1.0	5.6	1.7	ND	ND	0.14 J	ND	ND	0.47	**4.4 D ***
Benzo(g,h,i)perylene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	0.25 J	1.9
Benzo(k)fluoranthene	mg/Kg dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	0.16 J	**1.9 ***
Biphenyl	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	2200
Bis(2 chloroethoxy)methane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethyl) Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	1.1	53 D	9.2 D	2.0	5.3 DJ
Butyl Benzyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	2.2
Chrysene	mg/Kg dry	1.0	56.0	1.0	ND	ND	ND	ND	ND	0.36	**4.3 D ***
Di n butyl Phthalate	mg/Kg dry	N/A	N/A	8.1	ND	ND	ND	2.0	0.4 J	ND	ND
Di n octyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	**0.64**
Dibenzofuran	mg/Kg dry	7.0	350	210	ND	ND	ND	ND	ND	ND	**7.2 D**
Diethyl Phthalate	mg/Kg dry	N/A	N/A	7.1	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	0.25 J	0.66	14 D
Fluorene	mg/Kg dry	30.0	500	386	ND	ND	ND	ND	ND	ND	7.2 D

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		**SB-1 1ft. - 2ft.**	**SB-1 17ft. - 18ft.**	**SB-2 1ft. - 2ft.**	**SB-2 4ft. - 6ft.**	**SB-2 15ft. - 17ft.**	**SB-3 1ft. - 2ft.**	**SB-3 4ft. - 6ft.**
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 006**	**R1911946 007**	**R1911945 001**	**R1911945 002**	**R1911945 003**	**R1911945 004**	**R1911945 005**
Hexachlorobenzene	mg/Kg dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3 cd)pyrene	mg/Kg dry	0.5	5.6	8.2	ND	ND	ND	ND	ND	0.26 J	**2.3**
Isophorone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodi n propylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodiphenylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg dry	12.0	500	12.0	ND	ND	ND	4.6	0.63	ND	5.3 D
Nitrobenzene	mg/Kg dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg dry	100	500	1000	ND	ND	ND	0.61 J	0.39 J	0.52	22 D
Phenol	mg/Kg dry	0.33	500	0.33	ND	ND	ND	0.47 J *	ND	ND	ND
Pyrene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	0.18 J	0.59	12 D
Total TICs					14.230	9.070	13.98	204.3	27.58	9.39	33.04
Method: 9012B/CN Tot											
Cyanide, Total	mg/Kg dry	27.0	27.0	40	ND	0.33	1.18	ND	0.11 J	1.11	0.38
Method: ALS SOP/Total Solids											
Total Solids	Percent	N/A	N/A	N/A	84.4	84.6	88.3	87.2	79.8	95.0	86.6

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TABLE 5
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Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-3 10ft. - 12ft.	SB-4 1ft. - 2ft.	SB-4 1ft. - 2ft. Dup	SB-4 16ft. - 18ft.	SB-5 3ft. - 5ft.	SB-5 7ft. - 8ft.	SB-5 12ft. - 12ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
Metals											
Aluminum, Total	mg/Kg dry	N/A	N/A	N/A	9490	10500	10900	9070	12300	9880	9340
Antimony, Total	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg dry	13.0	16.0	16.0	2.3	4.0	3.1	2.6	4.5	3.1	3.0
Barium, Total	mg/Kg dry	350	400	820	75.1	110	86.5	85.2	94.7	91.2	94.3
Beryllium, Total	mg/Kg dry	7.2	590	47	0.45	0.50	0.51	0.44	0.61	0.45	0.46
Cadmium, Total	mg/Kg dry	2.5	9.3	7.5	0.38 J	0.35 J	0.45 J	0.30 J	0.39 J	0.35 J	0.38 J
Calcium, Total	mg/Kg dry	N/A	N/A	N/A	61100	65900	74000	69400	32100	65300	56800
Chromium, Total	mg/Kg dry	N/A	N/A	19	15.0	16.0	15.8	14.6	17.9	15.7	14.2
Cobalt, Total	mg/Kg dry	N/A	N/A	N/A	7.6	8.6	8.4	7.8	8.5	7.9	8.0
Copper, Total	mg/Kg dry	50.0	270	1720	18.0	23.0	19.5	18.0	21.1	17.3	18.7
Iron, Total	mg/Kg dry	N/A	N/A	N/A	19300	21600	21000	18200	21600	20200	18600
Lead, Total	mg/Kg dry	63.0	1000	450	13.3	10.4	9.6	18.1	15.6	9.0	10.4
Magnesium, Total	mg/Kg dry	N/A	N/A	N/A	18800	20200	17900	20200	13100	19400	18000
Manganese, Total	mg/Kg dry	1600	10000	2000	531	608	566	558	390	583	523
Mercury, Total	mg/Kg dry	0.18	2.8	0.73	0.025 J	0.009 J	0.011 J	0.044	0.051	0.035 J	0.034 J
Nickel, Total	mg/Kg dry	30.0	310	130	13.1	15.4	14.0	13.8	18.4	13.9	12.5
Potassium, Total	mg/Kg dry	N/A	N/A	N/A	2310	2600	2170	2300	2240	2370	2330
Selenium, Total	mg/Kg dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	ND
Silver, Total	mg/Kg dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg dry	N/A	N/A	N/A	190	200	180	190	160	210	180
Thallium, Total	mg/Kg dry	N/A	N/A	N/A	1.3	1.2	1.9	1.9	ND	ND	1.1
Vanadium, Total	mg/Kg dry	N/A	N/A	N/A	21.4	23.7	23.7	20.9	25.9	21.8	21.0
Zinc, Total	mg/Kg dry	110	10000	2480	77.6	82.9	80.2	74.7	71.9	73.1	78.8
Method: 8081B/Pest OC											
4,4' DDD	mg/Kg dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND
4,4' DDE	mg/Kg dry	0.0033	62.0	17.0	ND	ND	ND	ND	ND	**0.020**	ND
4,4' DDT	mg/Kg dry	0.0033	47.0	136	ND	ND	ND	ND	ND	ND	ND
Aldrin	mg/Kg dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg dry	0.005	1.4	0.1	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND

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ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
Endrin	mg/Kg dry	0.014	89.0	0.06	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	0.015	ND
Endrin Ketone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg dry	0.042	15.0	N/A	ND	ND	ND	ND	ND	0.0075 J	ND
Heptachlor Epoxide	mg/Kg dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	0.006 J	ND	ND
Toxaphene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
alpha BHC	mg/Kg dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND
alpha Chlordane	mg/Kg dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND
beta BHC	mg/Kg dry	0.036	3.0	0.09	ND	ND	ND	ND	ND	ND	ND
delta BHC	mg/Kg dry	0.04	500	0.25	ND	ND	ND	ND	ND	ND	ND
gamma BHC (Lindane)	mg/Kg dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND
gamma Chlordane	mg/Kg dry	N/A	N/A	14	ND	ND	ND	ND	ND	ND	ND
Method: 8082A/PCB											
Aroclor 1016	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg dry	0.1	1	3.2	ND	**0.49**	ND	0.038 J	**0.16**	**1.1**	0.036 J
Aroclor 1254	mg/Kg dry	0.1	1	3.2	ND	**0.28**	ND	ND	0.1	**0.58**	0.028 J
Aroclor 1260	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	0.024 J	0.14 J	ND
Total PCB	mg/Kg dry	0.1	1	3.2	ND	**0.77**	ND	0.038 J	**0.284**	**1.82**	0.064 J
Method: 8151A/HERB											
2,4,5 T	mg/Kg dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND
2,4,5 TP	mg/Kg dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	ND
2,4 D	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP											
1,1,1 Trichloroethane (TCA)	mg/Kg dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane (1,1 DCA)	mg/Kg dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene (1,1 DCE)	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND

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Site Code C915010
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Tonawanda, New York

			Sample ID (Interval)		SB-3 10ft. - 12ft.	SB-4 1ft. - 2ft.	SB-4 1ft. - 2ft. Dup	SB-4 16ft. - 18ft.	SB-5 3ft. - 5ft.	SB-5 7ft. - 8ft.	SB-5 12ft. - 12ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
1,2,3 Trichlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2,4 Trichlorobenzene	mg/Kg dry	N/A	N/A	3.4	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	ND	ND	0.0051	ND
1,2 Dichloroethane	mg/Kg dry	0.02	30.0	0.02	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	mg/Kg dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	mg/Kg dry	1.8	130	1.8	ND	ND	ND	ND	ND	0.00039 J	ND
1,4 Dioxane	mg/Kg dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND
2 Butanone (MEK)	mg/Kg dry	0.12	500	0.12	ND	0.013	0.011	ND	0.012	0.0061	ND
2 Hexanone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Methyl 2 pentanone	mg/Kg dry	N/A	N/A	1	0.00047 J	ND	ND	ND	ND	ND	ND
Acetone	mg/Kg dry	0.05	500	0.05	0.014	**0.68 D ***	**0.071 ***	0.015	**0.085 ***	**0.23 E ***	0.015
Benzene	mg/Kg dry	0.06	44.0	0.06	0.00015 J	0.00029 J	ND	ND	0.00064 J	0.0054	ND
Bromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg dry	N/A	N/A	2.7	ND	0.00052	0.00053 J	0.00053 J	0.00077 J	0.00041 J	ND
Carbon Tetrachloride	mg/Kg dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	ND	ND	0.0044	ND
Chloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg dry	N/A	N/A	N/A	ND	0.00086 J	0.00081 J	ND	0.001 J	0.00075 J	ND
Dibromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg dry	1.0	390	1.0	0.0037	0.0003 J	0.00027 J	ND	ND	0.0016 J	0.00059 J
Isopropylbenzene (Cumene)	mg/Kg dry	N/A	N/A	2.3	0.00031 J	0.00031	ND	ND	ND	0.0066	ND
Methyl Acetate	mg/Kg dry	N/A	N/A	N/A	0.011	0.47 DJ	0.015	0.0084	0.014	0.11	0.011
Methyl tert Butyl Ether	mg/Kg dry	0.93	500	0.93	ND	0.00077 J	ND	ND	ND	0.00048 J	ND
Methylcyclohexane	mg/Kg dry	N/A	N/A	N/A	0.00027 J	0.048 DJ	0.0027 J	ND	0.0015 J	0.0019 J	ND

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Tonawanda, New York

			Sample ID (Interval)		SB-3 10ft. - 12ft.	SB-4 1ft. - 2ft.	SB-4 1ft. - 2ft. Dup	SB-4 16ft. - 18ft.	SB-5 3ft. - 5ft.	SB-5 7ft. - 8ft.	SB-5 12ft. - 12ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
Styrene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg dry	1.3	150	1.3	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg dry	0.7	500	0.7	0.0078	0.00049 DJ	0.00066 J	0.00030 J	0.00041 J	0.00050 J	0.00067 J
Trichloroethene (TCE)	mg/Kg dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg dry	0.02	13.0	0.02	ND	ND	0.0033 J	0.091	ND	ND	ND
cis 1,2 Dichloroethene	mg/Kg dry	0.25	500	0.25	ND	0.00026 J	0.0022 J	0.050	0.00020 J	ND	ND
cis 1,3 Dichloropropene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
m,p Xylenes	mg/Kg dry	0.26	500	1.6	0.014	0.1 DJ	0.001 J	ND	0.0016	0.073	0.0035 J
o Xylene	mg/Kg dry	0.26	500	1.6	0.0034 J	0.038 DJ	ND	ND	0.00062	0.000055 J	0.00018
trans 1,2 Dichloroethene	mg/Kg dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND
trans 1,3 Dichloropropene	ug/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg dry				0.1097	1.3899	0.160	0.0	0.0041	1.4673	0.018
Method: 8270D/SVO											
1,2,4,5 Tetrachlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,2' Oxybis(1 chloropropane)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,3,4,6 Tetrachlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,5 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,6 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dimethylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrophenol	mg/Kg dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,6 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chloronaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylnaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	160 J	ND
2 Methylphenol	mg/Kg dry	0.33	500	N/A	ND	ND	ND	ND	ND	ND	ND
2 Nitroaniline	mg/Kg dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND
2 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3,3' Dichlorobenzidine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 and 4 Methylphenol Coelution	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 Nitroaniline	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
4,6 Dinitro 2 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND

Notes:
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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-3 10ft. - 12ft.	SB-4 1ft. - 2ft.	SB-4 1ft. - 2ft. Dup	SB-4 16ft. - 18ft.	SB-5 3ft. - 5ft.	SB-5 7ft. - 8ft.	SB-5 12ft. - 12ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
4 Bromophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloro 3 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloroaniline	mg/Kg dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND
4 Chlorophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitroaniline	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/Kg dry	100	500	107	ND	ND	ND	ND	ND	ND	ND
Acetophenone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	ND	ND
Atrazine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg dry	1.0	5.6	1.0	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg dry	1.0	1.0	22.0	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg dry	1.0	5.6	1.7	ND	ND	ND	ND	0.16 J	ND	ND
Benzo(g,h,i)perylene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	ND	ND
Biphenyl	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethoxy)methane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethyl) Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate	mg/Kg dry	N/A	N/A	100	0.17 J	ND	ND	ND	0.14 J	6.0 D	0.19 J
Butyl Benzyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/Kg dry	1.0	56.0	1.0	ND	ND	ND	ND	ND	ND	ND
Di n butyl Phthalate	mg/Kg dry	N/A	N/A	8.1	ND	ND	ND	ND	ND	ND	0.13 J
Di n octyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/Kg dry	7.0	350	210	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg dry	N/A	N/A	7.1	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	0.17 J	0.18 J	ND
Fluorene	mg/Kg dry	30.0	500	386	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-3 10ft. - 12ft.	SB-4 1ft. - 2ft.	SB-4 1ft. - 2ft. Dup	SB-4 16ft. - 18ft.	SB-5 3ft. - 5ft.	SB-5 7ft. - 8ft.	SB-5 12ft. - 12ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911945 006**	**R1911945 009**	**R1911945 010**	**R1911945 011**	**R1911945 012**	**R1911945 013**	**R1911945 014**
Hexachlorobenzene	mg/Kg dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3 cd)pyrene	mg/Kg dry	0.5	5.6	8.2	ND	ND	ND	ND	ND	ND	ND
Isophorone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodi n propylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodiphenylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg dry	12.0	500	12.0	ND	ND	ND	ND	ND	0.54	ND
Nitrobenzene	mg/Kg dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	0.25 J	ND
Phenol	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	0.19 J	ND	ND
Total TICs					5.504	3.05	1.28	1.1	6.08	22.970	4.4
Method: 9012B/CN Tot											
Cyanide, Total	mg/Kg dry	27.0	27.0	40	ND	ND	ND	0.40	ND	0.05 U	0.05 U
Method: ALS SOP/Total Solids											
Total Solids	Percent	N/A	N/A	N/A	88.6	87.4	88.4	86.0	84.6	84.6	89.7

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-6 3ft. - 4ft.	SB 6ft. - 8ft.	SB-7 4ft. - 5ft.	SB-7 6ft. - 8ft.	SB-7 10ft. - 12ft.	SB-8 1ft. - 2ft.	SB-8 6ft. - 8ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
Metals											
Aluminum, Total	mg/Kg dry	N/A	N/A	N/A	12100	10500	10600	12100	9230	11800	9110
Antimony, Total	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg dry	13.0	16.0	16.0	4.8	2.7	3.5	3.3	2.6	2.9	3.3
Barium, Total	mg/Kg dry	350	400	820	130	92.3	136	122	64.1	99.2	132
Beryllium, Total	mg/Kg dry	7.2	590	47	0.64	0.51	0.54	0.57	0.43	0.56	0.43
Cadmium, Total	mg/Kg dry	2.5	9.3	7.5	0.61	0.31 J	0.61	0.44 J	0.33 J	0.30 J	0.26 J
Calcium, Total	mg/Kg dry	N/A	N/A	N/A	55500	67200	61500	80900	62800	71900	80600
Chromium, Total	mg/Kg dry	N/A	N/A	19	17.7	16.1	34.4 *	19.1 *	14.0	16.4	13.4
Cobalt, Total	mg/Kg dry	N/A	N/A	N/A	8.1	9.0	10.7	9.3	6.5	8.3	7.6
Copper, Total	mg/Kg dry	50.0	270	1720	32.9	22.7	34.7	20.2	18.4	19.6	20.7
Iron, Total	mg/Kg dry	N/A	N/A	N/A	19900	21100	22400	25100	18600	21600	19500
Lead, Total	mg/Kg dry	63.0	1000	450	**86.9**	17.0	**243**	16.2	9.0	11.7	10.8
Magnesium, Total	mg/Kg dry	N/A	N/A	N/A	15000	17400	13100	24400	19400	16700	28500
Manganese, Total	mg/Kg dry	1600	10000	2000	464	583	616	683	524	606	545
Mercury, Total	mg/Kg dry	0.18	2.8	0.73	0.075	**0.421**	**3.11 ***	**0.564**	0.035 J	0.117	0.01 J
Nickel, Total	mg/Kg dry	30.0	310	130	16.3	14.4	13.6	16.0	12.2	13.8	12.2
Potassium, Total	mg/Kg dry	N/A	N/A	N/A	1780	2260	1960	2770	2250	1890	2150
Selenium, Total	mg/Kg dry	3.9	1500	4.0	ND	ND	ND	ND	ND	ND	ND
Silver, Total	mg/Kg dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg dry	N/A	N/A	N/A	140	180	160	250	170	140	190
Thallium, Total	mg/Kg dry	N/A	N/A	N/A	1.2	2.1	8 U	2.3	1.6	1.8	2.2
Vanadium, Total	mg/Kg dry	N/A	N/A	N/A	24.9	23.5	23.9	25.9	20.7	24.6	22.2
Zinc, Total	mg/Kg dry	110	10000	2480	**323**	72.1	**282**	**128**	73.0	71.2	67.4
Method: 8081B/Pest OC											
4,4' DDD	mg/Kg dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND
4,4' DDE	mg/Kg dry	0.0033	62.0	17.0	**0.011 J**	ND	**0.053**	ND	ND	0.0015 J	ND
4,4' DDT	mg/Kg dry	0.0033	47.0	136	ND	ND	ND	ND	ND	ND	ND
Aldrin	mg/Kg dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg dry	0.005	1.4	0.1	ND	ND	**0.012**	ND	ND	ND	ND
Endosulfan I	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND

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Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		**SB-6 3ft. - 4ft.**	**SB 6ft. - 8ft.**	**SB-7 4ft. - 5ft.**	**SB-7 6ft. - 8ft.**	**SB-7 10ft. - 12ft.**	**SB-8 1ft. - 2ft.**	**SB-8 6ft. - 8ft.**
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
Endrin	mg/Kg dry	0.014	89.0	0.06	ND	ND	0.0060 J	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	0.0082 J	0.00097 J	ND	ND
Endrin Ketone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg dry	0.042	15.0	N/A	ND	ND	0.0072 J	ND	ND	ND	ND
Heptachlor Epoxide	mg/Kg dry	N/A	N/A	0.02	0.014	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg dry	N/A	N/A	100	ND	ND	0.015	ND	ND	ND	ND
Toxaphene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
alpha BHC	mg/Kg dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND
alpha Chlordane	mg/Kg dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND
beta BHC	mg/Kg dry	0.036	3.0	0.09	ND	ND	ND	0.010 J	0.0020	ND	ND
delta BHC	mg/Kg dry	0.04	500	0.25	ND	ND	ND	0.0084 J	0.0016 J	ND	ND
gamma BHC (Lindane)	mg/Kg dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND
gamma Chlordane	mg/Kg dry	N/A	N/A	14	ND	ND	ND	ND	ND	0.0013 J	ND
Method: 8082A/PCB											
Aroclor 1016	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg dry	0.1	1	3.2	**0.35**	0.05	**2.0**	**0.54**	0.041	ND	ND
Aroclor 1254	mg/Kg dry	0.1	1	3.2	**0.26**	0.03 J	**1.4**	**0.16**	ND	0.039 J	ND
Aroclor 1260	mg/Kg dry	0.1	1	3.2	0.073 J	ND	0.45	ND	ND	ND	ND
Total PCB	mg/Kg dry	0.1	1	3.2	**0.683**	0.08	**3.85 ***	**0.7**	0.041	0.039 J	ND
Method: 8151A/HERB											
2,4,5 T	mg/Kg dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND
2,4,5 TP	mg/Kg dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	ND
2,4 D	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP											
1,1,1 Trichloroethane (TCA)	mg/Kg dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane (1,1 DCA)	mg/Kg dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene (1,1 DCE)	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND

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2266 - 2268 Military Road
Tonawanda, New York

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ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
1,2,3 Trichlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2,4 Trichlorobenzene	mg/Kg dry	N/A	N/A	3.4	ND	ND	15 J *	ND	ND	ND	ND
(DBCP)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	**23**	ND	ND	ND
1,2 Dichloroethane	mg/Kg dry	0.02	30.0	0.02	ND	ND	ND	ND	0.0017 J	ND	ND
1,2 Dichloropropane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	mg/Kg dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	mg/Kg dry	1.8	130	1.8	ND	ND	ND	**2.1 J**	ND	ND	ND
1,4 Dioxane	mg/Kg dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND
2 Butanone (MEK)	mg/Kg dry	0.12	500	0.12	0.0035 J	0.0045	ND	ND	ND	ND	0.0039
2 Hexanone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Methyl 2 pentanone	mg/Kg dry	N/A	N/A	1	ND	0.00028 J	ND	1.6 J	ND	ND	ND
Acetone	mg/Kg dry	0.05	500	0.05	0.027	0.041	ND	ND	0.015	0.0088	**0.19 E**
Benzene	mg/Kg dry	0.06	44.0	0.06	ND	0.0031 J	**7.1 J ***	**19 ***	0.00062 J	ND	ND
Bromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg dry	N/A	N/A	2.7	ND	0.00048 J	ND	ND	ND	ND	ND
Carbon Tetrachloride	mg/Kg dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	**27 ***	0.00024 J	ND	ND
Chloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg dry	N/A	N/A	N/A	ND	0.0011 J	ND	ND	ND	ND	ND
Dibromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg dry	1.0	390	1.0	ND	0.00032 J	**680 ***	**730 E ***	0.0041 J	0.00037 J	0.00023 J
Isopropylbenzene (Cumene)	mg/Kg dry	N/A	N/A	2.3	ND	0.0039 J	56 J *	49 *	ND	ND	ND
Methyl Acetate	mg/Kg dry	N/A	N/A	N/A	0.0013 J	0.0018 J	ND	ND	ND	0.0017 J	0.055
Methyl tert Butyl Ether	mg/Kg dry	0.93	500	0.93	ND	ND	ND	ND	ND	0.00022 J	0.00027 J
Methylcyclohexane	mg/Kg dry	N/A	N/A	N/A	ND	0.0016 J	6.4 J	4.7 J	ND	ND	ND

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-6 3ft. - 4ft.	SB 6ft. - 8ft.	SB-7 4ft. - 5ft.	SB-7 6ft. - 8ft.	SB-7 10ft. - 12ft.	SB-8 1ft. - 2ft.	SB-8 6ft. - 8ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
Styrene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg dry	1.3	150	1.3	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg dry	0.7	500	0.7	0.00025 J	0.00063 J	**1500 ***	**120 ***	0.0065	0.00050 J	0.00041 J
Trichloroethene (TCE)	mg/Kg dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg dry	0.02	13.0	0.02	ND	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	mg/Kg dry	0.25	500	0.25	ND	ND	ND	**2.2 J ***	ND	ND	ND
cis 1,3 Dichloropropene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
m,p Xylenes	mg/Kg dry	0.26	500	1.6	ND	0.0016 J	**2900 ***	**2800 E ***	0.017	0.0016 J	0.00093 J
o Xylene	mg/Kg dry	0.26	500	1.6	ND	0.00039 J	**970 ***	**550 ***	0.0035 J	0.00035 J	0.0002 J
trans 1,2 Dichloroethene	mg/Kg dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND
trans 1,3 Dichloropropene	ug/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg dry				0.0	269.8	11760	3256	0.0	0.0056	0.0225
Method: 8270D/SVO									ND		
1,2,4,5 Tetrachlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,2' Oxybis(1 chloropropane)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,3,4,6 Tetrachlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,5 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,6 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dimethylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrophenol	mg/Kg dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,6 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chloronaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylnaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylphenol	mg/Kg dry	0.33	500	N/A	ND	ND	ND	ND	ND	ND	ND
2 Nitroaniline	mg/Kg dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND
2 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3,3' Dichlorobenzidine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 and 4 Methylphenol Coelution	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 Nitroaniline	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
4,6 Dinitro 2 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-6 3ft. - 4ft.	SB 6ft. - 8ft.	SB-7 4ft. - 5ft.	SB-7 6ft. - 8ft.	SB-7 10ft. - 12ft.	SB-8 1ft. - 2ft.	SB-8 6ft. - 8ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
4 Bromophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloro 3 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloroaniline	mg/Kg dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND
4 Chlorophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitroaniline	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/Kg dry	100	500	107	ND	ND	ND	ND	ND	ND	ND
Acetophenone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg dry	100	500	1000	ND	ND	0.16 J	ND	ND	ND	ND
Atrazine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg dry	1.0	5.6	1.0	ND	ND	0.34 J	ND	ND	ND	ND
Benzaldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg dry	1.0	1.0	22.0	ND	ND	0.30 J	ND	ND	ND	ND
Benzo(b)fluoranthene	mg/Kg dry	1.0	5.6	1.7	ND	ND	0.38 J	ND	ND	ND	ND
Benzo(g,h,i)perylene	mg/Kg dry	100	500	1000	ND	ND	0.16 J	ND	ND	ND	ND
Benzo(k)fluoranthene	mg/Kg dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	ND	ND
Biphenyl	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethoxy)methane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethyl) Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate	mg/Kg dry	N/A	N/A	100	ND	0.41 J	1.2	0.84	0.23 J	ND	ND
Butyl Benzyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chrysene	mg/Kg dry	1.0	56.0	1.0	ND	ND	0.35 J	ND	ND	ND	ND
Di n butyl Phthalate	mg/Kg dry	N/A	N/A	8.1	ND	ND	ND	0.26 J	0.14J	ND	ND
Di n octyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/Kg dry	7.0	350	210	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg dry	N/A	N/A	7.1	ND	ND	ND	0.12 J	ND	ND	ND
Dimethyl Phthalate	mg/Kg dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg dry	100	500	1000	ND	ND	0.85	ND	ND	ND	ND
Fluorene	mg/Kg dry	30.0	500	386	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-6 3ft. - 4ft.	SB 6ft. - 8ft.	SB-7 4ft. - 5ft.	SB-7 6ft. - 8ft.	SB-7 10ft. - 12ft.	SB-8 1ft. - 2ft.	SB-8 6ft. - 8ft.
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911946 001**	**R1911946 002**	**R1911946 003**	**R1911946 004**	**R1911946 005**	**R1911947 001**	**R1911947 002**
Hexachlorobenzene	mg/Kg dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3 cd)pyrene	mg/Kg dry	0.5	5.6	8.2	ND	ND	0.18 J	ND	ND	ND	ND
Isophorone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodi n propylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodiphenylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg dry	12.0	500	12.0	ND	ND	ND	0.38 J	ND	ND	ND
Nitrobenzene	mg/Kg dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg dry	100	500	1000	ND	ND	0.67	ND	ND	ND	ND
Phenol	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/Kg dry	100	500	1000	ND	ND	0.70	ND	ND	ND	ND
Total TICs					3.676	54.810	7.190	26.510	5.690	2.4	5.6
Method: 9012B/CN Tot											
Cyanide, Total	mg/Kg dry	27.0	27.0	40	0.05 U	0.08 J	0.20 J	1.34	ND	ND	0.25 BJ
Method: ALS SOP/Total Solids											
Total Solids	Percent	N/A	N/A	N/A	82.3	85.4	77.9	67.9	89.3	84.1	88.0

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-9 2ft. - 4ft.	SB-9 11ft. - 13ft.	SB-10 2ft. - 4ft.	SB-10 12ft. - 14ft.	SB-11 1ft. - 2ft.	SB-11 6ft. - 8ft.	SB-11 6ft. - 8ft. Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947 006**	**R1911947 007**	**R1911947 008**	**R1911947 009**	**R1911947 003**	**R1911947 004**	**R1911947 005**
Metals											
Aluminum, Total	mg/Kg dry	N/A	N/A	N/A	7890	8760	10100	8960	20200	8130	9540
Antimony, Total	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total	mg/Kg dry	13.0	16.0	16.0	3.3	2.8	3.6	4.4	3.5	2.5	ND
Barium, Total	mg/Kg dry	350	400	820	78.9	83.1	123	138	152	109	59.0
Beryllium, Total	mg/Kg dry	7.2	590	47	0.38	0.42	0.47	0.43	0.87	0.38	0.44
Cadmium, Total	mg/Kg dry	2.5	9.3	7.5	0.28 J	0.23 J	0.27 J	0.24 J	0.17 J	0.27 J	0.29 J
Calcium, Total	mg/Kg dry	N/A	N/A	N/A	68200	67600	62000	57600	4360	102000	65600
Chromium, Total	mg/Kg dry	N/A	N/A	19	11.7	13.0	14.7	13.3	24.8 *	12.2	14.1
Cobalt, Total	mg/Kg dry	N/A	N/A	N/A	6.2	5.9	8.9	8.7	10.7	6.9	7.2
Copper, Total	mg/Kg dry	50.0	270	1720	19.8	15.4	19.9	17.0	22.5	17.1	19.4
Iron, Total	mg/Kg dry	N/A	N/A	N/A	17200	17800	20200	18800	27900	16700	18800
Lead, Total	mg/Kg dry	63.0	1000	450	9.0	8.3	9.3	15.6	14.8	8.8	9.3
Magnesium, Total	mg/Kg dry	N/A	N/A	N/A	21000	19700	18100	16700	7130	42800	21800
Manganese, Total	mg/Kg dry	1600	10000	2000	529	517	585	663	211	672	537
Mercury, Total	mg/Kg dry	0.18	2.8	0.73	0.008 J	0.007 U	0.008 J	0.007 J	0.063	0.009 J	0.008 J
Nickel, Total	mg/Kg dry	30.0	310	130	8.9	10.3	15.0	12.9	21.3	9.6	11.6
Potassium, Total	mg/Kg dry	N/A	N/A	N/A	1800	2160	2210	2180	1570	2030	2330
Selenium, Total	mg/Kg dry	3.9	1500	4.0	ND	0.8 J	ND	ND	ND	ND	ND
Silver, Total	mg/Kg dry	2.0	1500	8.3	ND	ND	ND	ND	ND	ND	ND
Sodium, Total	mg/Kg dry	N/A	N/A	N/A	200	160	220	160	180	190	180
Thallium, Total	mg/Kg dry	N/A	N/A	N/A	1.8	1.7	1.8	1.6	0.8 U	3.3	2.0
Vanadium, Total	mg/Kg dry	N/A	N/A	N/A	20.1	19.7	22.5	20.0	34.9	18.1	21.5
Zinc, Total	mg/Kg dry	110	10000	2480	77.1	68.4	67.3	62.3	96.0	59.7	76.5
Method: 8081B/Pest OC											
4,4' DDD	mg/Kg dry	0.0033	92.0	14.0	ND	ND	ND	ND	ND	ND	ND
4,4' DDE	mg/Kg dry	0.0033	62.0	17.0	ND	ND	ND	ND	**0.0074 J**	ND	ND
4,4' DDT	mg/Kg dry	0.0033	47.0	136	ND	ND	ND	ND	ND	ND	ND
Aldrin	mg/Kg dry	0.005	0.68	0.19	ND	ND	ND	ND	ND	ND	ND
Dieldrin	mg/Kg dry	0.005	1.4	0.1	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	mg/Kg dry	2.4	200	102	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	mg/Kg dry	2.4	200	1000	ND	ND	ND	ND	ND	ND	ND

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Tonawanda, New York

			Sample ID (Interval)		SB-9 2ft. - 4ft.	SB-9 11ft. - 13ft.	SB-10 2ft. - 4ft.	SB-10 12ft. - 14ft.	SB-11 1ft. - 2ft.	SB-11 6ft. - 8ft.	SB-11 6ft. - 8ft. Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947 006**	**R1911947 007**	**R1911947 008**	**R1911947 009**	**R1911947 003**	**R1911947 004**	**R1911947 005**
Endrin	mg/Kg dry	0.014	89.0	0.06	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor	mg/Kg dry	0.042	15.0	N/A	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	mg/Kg dry	N/A	N/A	0.02	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Toxaphene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
alpha BHC	mg/Kg dry	0.02	3.4	0.02	ND	ND	ND	ND	ND	ND	ND
alpha Chlordane	mg/Kg dry	0.094	24	2.9	ND	ND	ND	ND	ND	ND	ND
beta BHC	mg/Kg dry	0.036	3.0	0.09	ND	ND	ND	ND	ND	ND	ND
delta BHC	mg/Kg dry	0.04	500	0.25	ND	ND	ND	ND	ND	ND	ND
gamma BHC (Lindane)	mg/Kg dry	0.1	9.2	0.1	ND	ND	ND	ND	ND	ND	ND
gamma Chlordane	mg/Kg dry	N/A	N/A	14	ND	ND	ND	ND	0.0059 J	ND	ND
Method: 8082A/PCB											
Aroclor 1016	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	**0.15**	ND	ND
Aroclor 1254	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	**0.11**	ND	ND
Aroclor 1260	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	0.039 J	ND	ND
Total PCB	mg/Kg dry	0.1	1	3.2	ND	ND	ND	ND	**0.299**	ND	ND
Method: 8151A/HERB											
2,4,5 T	mg/Kg dry	N/A	N/A	1.9	ND	ND	ND	ND	ND	ND	ND
2,4,5 TP	mg/Kg dry	3.8	500	3.8	ND	ND	ND	ND	ND	ND	ND
2,4 D	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
Dicamba	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Method: 8260C/VOC FP											
1,1,1 Trichloroethane (TCA)	mg/Kg dry	0.68	500	0.68	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane (1,1 DCA)	mg/Kg dry	0.27	240	0.27	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene (1,1 DCE)	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND

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TABLE 5
Subsurface Soil Sample Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 - 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)		SB-9 2ft. - 4ft.	SB-9 11ft. - 13ft.	SB-10 2ft. - 4ft.	SB-10 12ft. - 14ft.	SB-11 1ft. - 2ft.	SB-11 6ft. - 8ft.	SB-11 6ft. - 8ft. Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947 006**	**R1911947 007**	**R1911947 008**	**R1911947 009**	**R1911947 003**	**R1911947 004**	**R1911947 005**
1,2,3 Trichlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2,4 Trichlorobenzene	mg/Kg dry	N/A	N/A	3.4	ND	ND	ND	ND	ND	ND	ND
(DBCP)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	mg/Kg dry	0.02	30.0	0.02	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	mg/Kg dry	2.4	280	2.4	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	mg/Kg dry	1.8	130	1.8	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane	mg/Kg dry	0.1	130	0.1	ND	ND	ND	ND	ND	ND	ND
2 Butanone (MEK)	mg/Kg dry	0.12	500	0.12	ND	0.0023 J	ND	0.0031 J	0.046	ND	0.0022 J
2 Hexanone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Methyl 2 pentanone	mg/Kg dry	N/A	N/A	1	ND	ND	ND	ND	ND	ND	ND
Acetone	mg/Kg dry	0.05	500	0.05	0.019	0.020	0.028	**0.14 E ***	**0.32 E ***	0.0067	**0.071 ***
Benzene	mg/Kg dry	0.06	44.0	0.06	ND	0.00062 J	ND	ND	0.011	ND	ND
Bromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromoform	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bromomethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	mg/Kg dry	N/A	N/A	2.7	0.00022 J	0.00063 J	ND	ND	0.00044 J	ND	ND
Carbon Tetrachloride	mg/Kg dry	0.76	22.0	0.76	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	mg/Kg dry	1.1	500	1.1	ND	ND	ND	ND	ND	ND	ND
Chloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/Kg dry	0.37	350	0.37	ND	ND	ND	ND	ND	ND	ND
Chloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	mg/Kg dry	N/A	N/A	N/A	ND	0.0019 J	ND	ND	0.0016 J	ND	ND
Dibromochloromethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	mg/Kg dry	0.05	500	N/A	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	mg/Kg dry	1.0	390	1.0	ND	0.00063 J	ND	ND	0.00021 J	ND	ND
Isopropylbenzene (Cumene)	mg/Kg dry	N/A	N/A	2.3	ND	ND	ND	ND	0.0038	ND	ND
Methyl Acetate	mg/Kg dry	N/A	N/A	N/A	0.00074 J	ND	0.0016 J	0.022	0.024	ND	0.03
Methyl tert Butyl Ether	mg/Kg dry	0.93	500	0.93	ND	ND	ND	0.00025 J	0.00033 J	ND	0.00019 J
Methylcyclohexane	mg/Kg dry	N/A	N/A	N/A	ND	0.0037 J	ND	ND	0.0072	ND	ND

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ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup- Restricted Use- Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947 006**	**R1911947 007**	**R1911947 008**	**R1911947 009**	**R1911947 003**	**R1911947 004**	**R1911947 005**
Styrene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	mg/Kg dry	1.3	150	1.3	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/Kg dry	0.7	500	0.7	0.00032 J	0.0023 J	0.00038 J	0.00022 J	0.00077 J	0.00022 J	0.00046 J
Trichloroethene (TCE)	mg/Kg dry	0.47	200	0.47	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	mg/Kg dry	0.02	13.0	0.02	ND	ND	ND	ND	0.00037 J	ND	ND
cis 1,2 Dichloroethene	mg/Kg dry	0.25	500	0.25	ND	ND	ND	ND	0.00035 J	ND	ND
cis 1,3 Dichloropropene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
m,p Xylenes	mg/Kg dry	0.26	500	1.6	ND	0.0028 J	ND	ND	0.011	ND	ND
o Xylene	mg/Kg dry	0.26	500	1.6	ND	0.00093 J	ND	ND	0.0021 J	ND	ND
trans 1,2 Dichloroethene	mg/Kg dry	0.19	500	N/A	ND	ND	ND	ND	ND	ND	ND
trans 1,3 Dichloropropene	ug/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Total TICs	mg/Kg dry				0.0	0.0089	0.0	0.0132	0.9352	0.0	0.0111
Method: 8270D/SVO											
1,2,4,5 Tetrachlorobenzene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,2' Oxybis(1 chloropropane)	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,3,4,6 Tetrachlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,5 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4,6 Trichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dichlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dimethylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrophenol	mg/Kg dry	N/A	N/A	0.2	ND	ND	ND	ND	ND	ND	ND
2,4 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2,6 Dinitrotoluene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chloronaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Chlorophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylnaphthalene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
2 Methylphenol	mg/Kg dry	0.33	500	N/A	ND	ND	ND	ND	ND	ND	ND
2 Nitroaniline	mg/Kg dry	N/A	N/A	0.4	ND	ND	ND	ND	ND	ND	ND
2 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3,3' Dichlorobenzidine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 and 4 Methylphenol Coelution	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
3 Nitroaniline	mg/Kg dry	N/A	N/A	0.5	ND	ND	ND	ND	ND	ND	ND
4,6 Dinitro 2 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND

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ANALYTE	UNITS	Unrestricted Use SCO	-375-6.8 Soil Cleanup-Restricted Use-Commercial	-375-6.8 Soil Cleanup for Protection of Groundwater	R1911947 006	R1911947 007	R1911947 008	R1911947 009	R1911947 003	R1911947 004	R1911947 005
4 Bromophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloro 3 methylphenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Chloroaniline	mg/Kg dry	N/A	N/A	0.22	ND	ND	ND	ND	ND	ND	ND
4 Chlorophenyl Phenyl Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitroaniline	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
4 Nitrophenol	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	mg/Kg dry	20.0	500	98.0	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	mg/Kg dry	100	500	107	ND	ND	ND	ND	ND	ND	ND
Acetophenone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Anthracene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	0.14 J	ND
Atrazine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	mg/Kg dry	1.0	5.6	1.0	ND	ND	ND	ND	ND	0.62	ND
Benzaldehyde	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	mg/Kg dry	1.0	1.0	22.0	ND	ND	ND	ND	ND	0.58	ND
Benzo(b)fluoranthene	mg/Kg dry	1.0	5.6	1.7	ND	ND	ND	ND	ND	0.79	ND
Benzo(g,h,i)perylene	mg/Kg dry	100	500	1000	ND	ND	ND	ND	ND	0.41	ND
Benzo(k)fluoranthene	mg/Kg dry	0.8	56.0	1.7	ND	ND	ND	ND	ND	0.31 J	ND
Biphenyl	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethoxy)methane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 chloroethyl) Ether	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Bis(2 ethylhexyl) Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Butyl Benzyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Caprolactam	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Carbazole	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	0.16 J	ND
Chrysene	mg/Kg dry	1.0	56.0	1.0	ND	ND	ND	ND	ND	0.64	ND
Di n butyl Phthalate	mg/Kg dry	N/A	N/A	8.1	ND	ND	ND	ND	ND	ND	ND
Di n octyl Phthalate	mg/Kg dry	N/A	N/A	100	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	mg/Kg dry	0.33	0.56	1000	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	mg/Kg dry	7.0	350	210	ND	ND	ND	ND	ND	ND	ND
Diethyl Phthalate	mg/Kg dry	N/A	N/A	7.1	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	mg/Kg dry	N/A	N/A	7	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	mg/Kg dry	100	500	1000	ND	0.23 J	ND	ND	ND	1.3	ND
Fluorene	mg/Kg dry	30.0	500	386	ND	ND	ND	ND	ND	ND	ND

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Former Bisonite Paint Company
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Tonawanda, New York

			Sample ID (Interval)		SB-9 2ft. - 4ft.	SB-9 11ft. - 13ft.	SB-10 2ft. - 4ft.	SB-10 12ft. - 14ft.	SB-11 1ft. - 2ft.	SB-11 6ft. - 8ft.	SB-11 6ft. - 8ft. Dup
ANALYTE	**UNITS**	**Unrestricted Use SCO**	**-375-6.8 Soil Cleanup-Restricted Use-Commercial**	**-375-6.8 Soil Cleanup for Protection of Groundwater**	**R1911947 006**	**R1911947 007**	**R1911947 008**	**R1911947 009**	**R1911947 003**	**R1911947 004**	**R1911947 005**
Hexachlorobenzene	mg/Kg dry	0.33	6.0	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3 cd)pyrene	mg/Kg dry	0.5	5.6	8.2	ND	ND	ND	ND	ND	0.44	ND
Isophorone	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodi n propylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
N Nitrosodiphenylamine	mg/Kg dry	N/A	N/A	N/A	ND	ND	ND	ND	ND	ND	ND
Naphthalene	mg/Kg dry	12.0	500	12.0	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	mg/Kg dry	N/A	69	0.33	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol (PCP)	mg/Kg dry	0.8	6.7	0.8	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	mg/Kg dry	100	500	1000	ND	0.13 J	ND	ND	ND	0.65	ND
Phenol	mg/Kg dry	0.33	500	0.33	ND	ND	ND	ND	ND	ND	ND
Pyrene	mg/Kg dry	100	500	1000	ND	0.21 J	ND	ND	ND	1.3	ND
Total TICs					15.0	174.24	3.0	20.0	6.1	6.08	29.0
Method: 9012B/CN Tot											
Cyanide, Total	mg/Kg dry	27.0	27.0	40	ND	ND	ND	ND	ND	ND	ND
Method: ALS SOP/Total Solids											
Total Solids	Percent	N/A	N/A	N/A	87.7	88.5	89.3	90.5	79.5	88.8	89.4

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TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

				MW1	MW2	MW2 DUP	MW3	MW4	MW4 FP	MW5	Equipment Blank	Trip Blank
ANALYTE	**RESULT REPORTED TO**	**UNITS**	**NYSDEC TOGS**	**R2000775 003**	**R2000775 004**	**R2000775 008**	**R2000775 009**	**R2000775 001**	**R2000775 002**	**R2000775 005**	**R2000775 006**	**R2000775 007**
Metals												
Aluminum, Total	MDL	ug/L	N/A	5350	240	230	580	7020	5880	ND	ND	NR
Antimony, Total	MDL	ug/L	3	ND	ND	ND	6 J	**105**	**95**	ND	ND	NR
Arsenic, Total	MDL	ug/L	25	4 J	ND	ND	6 J	22	**26**	ND	ND	NR
Barium, Total	MDL	ug/L	1000	128	19 J	19 J	290	**1050**	955	50	ND	NR
Beryllium, Total	MDL	ug/L	3	ND	ND	ND	ND	0.3 J	0.2 J	ND	ND	NR
Cadmium, Total	MDL	ug/L	5	1.0 J	ND	ND	ND	**8.5**	**8.6**	ND	ND	NR
Calcium, Total	MDL	ug/L	N/A	119000	40700	40300	125000	335000	291000	118000	ND	NR
Chromium, Total	MDL	ug/L	50	19	1 J	1 J	7 J	**55**	**73**	ND	ND	NR
Cobalt, Total	MDL	ug/L	N/A	2 J	ND	ND	20 J	127	126	ND	ND	NR
Copper, Total	MDL	ug/L	N/A	10 J	ND	ND	13 J	50	42	ND	ND	NR
Iron, Total	MDL	ug/L	300	**4070**	140	140	**4940**	**63800**	**44800**	**460**	ND	NR
Lead, Total	MDL	ug/L	25	17 J	ND	ND	**41 J**	**2830**	**2260**	ND	ND	NR
Magnesium, Total	MDL	ug/L	35000	**89200**	4500	4900	**35300**	**129000**	**130000**	**85500**	ND	NR
Manganese, Total	MDL	ug/L	300	220	26	32	**488**	**6430**	**6060**	17	ND	NR
Mercury, Total	MDL	ug/L	0.4	**0.49**	ND	ND	ND	**3.19**	**2.14**	ND	ND	NR
Nickel, Total	MDL	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	NR
Potassium, Total	MDL	ug/L	N/A	6900	1600 J	1500 J	14300	80500	82600	3200	ND	NR
Selenium, Total	MDL	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	NR
Silver, Total	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	NR
Sodium, Total	MDL	ug/L	20000	**47000**	5000	4900	**31600**	**961000**	**927000**	**81600**	ND	NR
Thallium, Total	MDL	ug/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	NR
Vanadium, Total	MDL	ug/L	N/A	9 J	ND	ND	6 J	16 J	13 J	ND	ND	NR
Zinc, Total	MDL	ug/L	2000	41	14 J	ND	846	**160000**	**155000**	ND	ND	NR
Method: 8081B/Pest OC												
4,4' DDD	MDL	ug/L	0.3		ND	ND	ND	ND	ND	ND	ND	NR
4,4' DDE	MDL	ug/L	0.2		ND	ND	ND	**3.0**	**2.3**	ND	ND	NR
4,4' DDT	MDL	ug/L	0.2		ND	ND	ND	**1.6 P**	**1.3 P**	ND	ND	NR
Aldrin	MDL	ug/L	ND		ND	ND	ND	ND	ND	ND	ND	NR
Dieldrin	MDL	ug/L	0.004		ND	ND	ND	**0.51 J**	**0.48 J**	ND	ND	NR
Endosulfan I	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
Endosulfan II	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
Endosulfan Sulfate	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
Endrin	MDL	ug/L	ND		ND	ND	ND	**0.42 J**	ND	ND	ND	NR

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Endrin Aldehyde	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	NR
Endrin Ketone	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	NR
Heptachlor	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	NR
Heptachlor Epoxide	MDL	ug/L	0.03		ND	ND	ND	ND	ND	ND	ND	NR
Methoxychlor	MDL	ug/L	35		ND	ND	ND	ND	ND	ND	ND	NR
Toxaphene	MDL	ug/L	0.06		ND	ND	ND	ND	ND	ND	ND	NR
alpha BHC	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
alpha Chlordane	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	NR
beta BHC	MDL	ug/L	N/A		ND	ND	ND	3.5 P	2.3 P	ND	ND	NR
delta BHC	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
gamma BHC (Lindane)	MDL	ug/L	N/A		ND	ND	ND	ND	ND	ND	ND	NR
gamma Chlordane	MDL	ug/L	0.05		ND	ND	ND	ND	ND	ND	ND	NR
Method: 8082A/PCB												
Aroclor 1016	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	NR
Aroclor 1221	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	NR
Aroclor 1232	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	NR
Aroclor 1242	MDL	ug/L	0.09	ND	ND	ND	ND	ND	ND	ND	ND	NR
Aroclor 1248	MDL	ug/L	0.09	ND	ND	ND	ND	**120.0**	**92**	ND	ND	NR
Aroclor 1254	MDL	ug/L	0.09	ND	ND	ND	ND	**77.0**	**66**	ND	ND	NR
Aroclor 1260	MDL	ug/L	0.09	ND	ND	ND	ND	**25.0**	**21**	ND	ND	NR
Total PCB			0.09					**222.0**	**179**			
Method: 8151A/HERB												
2,4,5 T	MDL	ug/L	35		ND	ND	ND	ND	ND	ND	ND	NR
2,4,5 TP	MDL	ug/L	0.3		ND	ND	ND	ND	ND	ND	ND	NR
2,4 D	MDL	ug/L	5		ND	ND	ND	ND	ND	ND	ND	NR
Dicamba	MDL	ug/L	0.44		ND	ND	ND	ND	ND	ND	ND	NR
Dinoseb	MDL	ug/L	1		ND	ND	ND	ND	ND	ND	ND	NR
Pentachlorophenol (PCP)	MDL	ug/L	1		ND	ND	ND	ND	ND	ND	ND	NR
Method: 8260C/VOC FP												
1,1,1 Trichloroethane (TCA)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloro 1,2,2 trifluoroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	MDL	ug/L	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane (1,1 DCA)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene (1,1 DCE)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3 Trichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4 Trichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

1,2 Dibromo 3 chloropropane (DBCP)	MDL	ug/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dibromoethane	MDL	ug/L	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloroethane	MDL	ug/L	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2 Dichloropropane	MDL	ug/L	5	ND	ND	ND	**140 J**	**140 J**	ND	ND	ND	ND
1,3 Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 Butanone (MEK)	MDL	ug/L	50	ND	ND	ND	**52000 D**	**850000 D**	**590000 D**	ND	ND	ND
2 Hexanone	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
4 Methyl 2 pentanone	MDL	ug/L	N/A	ND	ND	ND	5300	36000	24000	ND	ND	ND
Acetone	MDL	ug/L	50	2.9 BJ	2.5 BJ	2.6 BJ	**1100 J**	**15000**	**10000**	ND	ND	ND
Benzene	MDL	ug/L	5	ND	ND	ND	**68 J**	ND	ND	ND	ND	ND
Bromochloromethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	MDL	ug/L	50	ND	ND	ND	ND	ND	**260 J**	ND	ND	ND
Bromoform	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	MDL	ug/L	60	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	MDL	ug/L	7	ND	ND	ND	**180 J**	**380 J**	**980**	ND	ND	ND
Chloromethane	MDL	ug/L	5	0.32 J	0.53 J	0.32 J	ND	ND	ND	ND	ND	ND
Cyclohexane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	MDL	ug/L	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (CFC 12)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	MDL	ug/L	5	ND	ND	ND	**250 J**	**310 J**	**250 J**	ND	ND	ND
Ethylbenzene	MDL	ug/L	5	ND	ND	ND	**860**	**1800**	**2000**	ND	ND	ND
Isopropylbenzene (Cumene)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert Butyl Ether	MDL	ug/L	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	MDL	ug/L	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	MDL	ug/L	5	ND	ND	ND	**15000**	**45000**	**25000**	ND	1.3	ND
Trichloroethene (TCE)	MDL	ug/L	5	ND	**8.1**	1.8	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (CFC 11)	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Vinyl Chloride	MDL	ug/L	2	ND	0.37 J	ND	ND	ND	ND	ND	ND	ND
cis 1,2 Dichloroethene	MDL	ug/L	5	ND	**13**	2.8	ND	ND	ND	ND	ND	ND
cis 1,3 Dichloropropene	MDL	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p Xylenes	MDL	ug/L	10	ND	ND	ND	**3200**	**7400**	**7800**	ND	ND	ND
o Xylene	MDL	ug/L	5	ND	ND	ND	**990**	**1400**	**1100**	ND	ND	ND
trans 1,2 Dichloroethene	MDL	ug/L	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans 1,3 Dichloropropene	MDL	ug/L	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total TICs				0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Method: 8270D SIM/1,4-Dioxane												
1,4 Dioxane	MDL	ug/L	N/A	NS	ND	0.044	NS	NS	NS	NS	ND	NR
Method: 8270D/SVO												NR
1,2,4,5 Tetrachlorobenzene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,2' Oxybis(1 chloropropane)	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,3,4,6 Tetrachlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4,5 Trichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4,6 Trichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4 Dichlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4 Dimethylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4 Dinitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,4 Dinitrotoluene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2,6 Dinitrotoluene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2 Chloronaphthalene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2 Chlorophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
2 Methylnaphthalene	MDL	ug/L	N/A	NS	ND	ND	3.3 J	10 U	25 J	ND	ND	NR
2 Methylphenol	MDL	ug/L	1	NS	ND	ND	**12**	**43 J**	**39 J**	ND	ND	NR
2 Nitroaniline	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
2 Nitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
3,3' Dichlorobenzidine	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
3 and 4 Methylphenol Coelution	MDL	ug/L	N/A	NS	ND	ND	39	240	200	ND	ND	NR
3 Nitroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4,6 Dinitro 2 methylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Bromophenyl Phenyl Ether	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Chloro 3 methylphenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Chloroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Chlorophenyl Phenyl Ether	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Nitroaniline	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
4 Nitrophenol	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Acenaphthene	MDL	ug/L	20	NS	ND	ND	ND	ND	ND	ND	ND	NR
Acenaphthylene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Acetophenone	MDL	ug/L	N/A	NS	ND	ND	24	360	ND	8.6 J	ND	NR
Anthracene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Atrazine	MDL	ug/L	8	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benz(a)anthracene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzaldehyde	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(a)pyrene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(b)fluoranthene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(g,h,i)perylene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Benzo(k)fluoranthene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Biphenyl	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2 chloroethoxy)methane	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2 chloroethyl) Ether	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
Bis(2 ethylhexyl) Phthalate	MDL	ug/L	5	NS	ND	ND	ND	ND	**830**	ND	ND	NR
Butyl Benzyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Caprolactam	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Carbazole	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Chrysene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Di n butyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Di n octyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dibenz(a,h)anthracene	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dibenzofuran	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Diethyl Phthalate	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Dimethyl Phthalate	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
Fluoranthene	MDL	ug/L	50	NS	ND	ND	1.5 J	14 U	16 J	1.5 U	1.4 U	NR
Fluorene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorobenzene	MDL	ug/L	0.04	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorobutadiene	MDL	ug/L	0.5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachlorocyclopentadiene	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Hexachloroethane	MDL	ug/L	5	NS	ND	ND	ND	ND	ND	ND	ND	NR
Indeno(1,2,3 cd)pyrene	MDL	ug/L	0.002	NS	ND	ND	ND	ND	ND	ND	ND	NR
Isophorone	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
N Nitrosodi n propylamine	MDL	ug/L	N/A	NS	ND	ND	ND	ND	ND	ND	ND	NR
N Nitrosodiphenylamine	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Naphthalene	MDL	ug/L	10	NS	ND	ND	**20**	**11 J**	ND	ND	ND	NR
Nitrobenzene	MDL	ug/L	0.4	NS	ND	ND	ND	ND	ND	ND	ND	NR

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 7
Groundwater Analysis Results for Organics, Inorganics and Metals
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

Pentachlorophenol (PCP)	MDL	ug/L	1	NS	ND	ND	ND	ND	ND	ND	ND	NR
Phenanthrene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Phenol	MDL	ug/L	1	NS	ND	ND	**20**	**350**	**250**	**65**	ND	NR
Pyrene	MDL	ug/L	50	NS	ND	ND	ND	ND	ND	ND	ND	NR
Total TICs				Not Analyzed	0.0	0.0	1285	5440	9630	52.4		
Method: 9012B/CN Tot												
Cyanide, Total	MDL	mg/L	0.2	0.007 J	ND	ND	0.017	0.004 J	ND	ND	ND	NR

Notes:
Bold = Exceeds TOGS.
MDL = Method detection limit.
ND = Not Detected or < MDL.
J = Value is >MDL and < lab reporting limit.
NS = Not Sampled
NR = Not Required

TABLE 8
Emerging Contaminant Groundwater Analysis Results
Former Bisonite Paint Site
Site Code C915010
Tonawanda, New York

ANALYTE	RESULT REPORTED TO	UNITS	Guidance Value	MW3 - R2000776 001	MW2 - R2000776 002	MW2 DUP - R2000776 003	Field Blank - R2000776 004	Equipment Blank - R2000776 005
Method: PFC/537M/PFAS								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/L		0.66 J	0.55 U	0.55 U	0.55 U	0.55 U
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/L		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
N Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L		1.4 J	0.50 U	0.50 U	0.50 U	0.50 U
N Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/L		0.28 U	0.40 J	0.36 J	0.28 U	0.28 U
Perfluorobutanoic acid (PFBA)	MDL	ng/L		0.40 UX	3.4 J	3.3 J	0.40 U	0.40 U
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/L		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Perfluorodecanoic acid (PFDA)	MDL	ng/L		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Perfluorododecanoic acid (PFDoDA)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/L		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Perfluoroheptanoic acid (PFHpA)	MDL	ng/L		0.63 U	0.73 J	1.9 J	0.63 U	0.63 U
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluorohexanoic acid (PFHxA)	MDL	ng/L		8.8 UX	8.8 U	8.8 U	8.8 U	8.8 U
Perfluorononanoic acid (PFNA)	MDL	ng/L		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Perfluorooctane sulfonamide (FOSA)	MDL	ng/L		0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/L		2.3	1.5 J	1.7	0.44 U	0.44 U
Perfluorooctanoic acid (PFOA)	MDL	ng/L		11.0	1.4 J	1.3 J	0.35 U	0.35 U
Perfluoropentanoic acid (PFPeA)	MDL	ng/L		1.7 UX	1.7 U	1.7 U	1.7 U	1.7 U
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/L		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/L		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/L		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Total PFAS, PFOA, PFOS	MDL	ng/L	500	15.4	7.43 J	8.56	BDL	BDL

Notes:
ng/L = nanograms per liter.
MDL = Method detection limit.
U = Value is or < MDL.
J = Value > than MDL but < laboratory reporting limit.
X = Quality assurance exceedance.
BDL = below method detection level

TABLE 9
RI Vapor, Sub-slab, Indoor Air, and Outdoor Air Sample Results
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Lab Sample ID		L1180201-01		L1180201-03		L1180201-02		L1180201-04		L1180201-06		L1180201-05		L1180201-10		L1180201-11	
Client Sample ID		SV-1		INDOOR-1		DUPLICATE-INSIDE		SS-1		SS-2		OUTDOOR 1		MATRIX SPIKE		MS-DUPLICATE	
Date Collected		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020	
Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
ACETONE	ug/m3	8.08		12.5		12		74.6		23.3		16.8		11.8		19	
ALLYL CHLORIDE	ug/m3	<0.626		<0.626		<0.626		<0.626		<0.626		<0.626		<0.626		<0.626	
BENZENE	ug/m3	0.99		1.14		1.07		1.23		<0.639		1.15		1.1		1.1	
BENZYL CHLORIDE	ug/m3	<1.04		<1.04		<1.04		<1.04		<1.04		<1.04		<1.04		<1.04	
BROMODICHLOROMETHANE	ug/m3	<1.34		<1.34		<1.34		<1.34		<1.34		<1.34		<1.34		<1.34	
BROMOFORM	ug/m3	<6.21		<6.21		<6.21		<6.21		<6.21		<6.21		<6.21		<6.21	
BROMOMETHANE	ug/m3	<0.776		<0.776		<0.776		<0.776		<0.776		<0.776		<0.776		<0.776	
1,3-BUTADIENE	ug/m3	<4.43		<4.43		<4.43		<4.43		<4.43		<4.43		<4.43		<4.43	
CARBON DISULFIDE	ug/m3	<0.622		<0.622		<0.622		<0.622		<0.622		<0.622		<0.622		<0.622	
CARBON TETRACHLORIDE	ug/m3	<1.26		<1.26		<1.26		<1.26		<1.26		<1.26		<1.26		<1.26	
CHLOROBENZENE	ug/m3	<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924	
CHLOROETHANE	ug/m3	<0.528		<0.528		<0.528		<0.528		<0.528		<0.528		<0.528		<0.528	
CHLOROFORM	ug/m3	<0.973		<0.973		<0.973		<0.973		<0.973		<0.973		<0.973		<0.973	
CHLOROMETHANE	ug/m3	0.423		1.58		1.52		1.55		<0.413		3.7		1.55		2.42	
2-CHLOROTOLUENE	ug/m3	<1.03		<1.03		<1.03		<1.03		<1.03		<1.03		<1.03		<1.03	
CYCLOHEXANE	ug/m3	14.9		<0.689		<0.689		<0.689		<0.689		<0.689		<0.689		<0.689	
CHLORODIBROMOMETHANE	ug/m3	<1.70		<1.70		<1.70		<1.70		<1.70		<1.70		<1.70		<1.70	
1,2-DIBROMOETHANE	ug/m3	<1.54		<1.54		<1.54		<1.54		<1.54		<1.54		<1.54		<1.54	
1,2-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,3-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,4-DICHLOROBENZENE	ug/m3	<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20		<1.20	
1,2-DICHLOROETHANE	ug/m3	<0.810		<0.810		<0.810		<0.810		<0.810		<0.810		<0.810		<0.810	
1,1-DICHLOROETHANE	ug/m3	<0.802		<0.802		<0.802		<0.802		<0.802		<0.802		<0.802		<0.802	
1,1-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
CIS-1,2-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
TRANS-1,2-DICHLOROETHENE	ug/m3	<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793		<0.793	
1,2-DICHLOROPROPANE	ug/m3	<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924		<0.924	
CIS-1,3-DICHLOROPROPENE	ug/m3	<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908	
TRANS-1,3-DICHLOROPROPENE	ug/m3	<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908		<0.908	
1,4-DIOXANE	ug/m3	<0.721		<0.721		<0.721		<0.721		0.894		1.36		<0.721		<0.721	
ETHANOL	ug/m3	5.09		13.4		24.7		23		13.6		6.01		13		21.3	
ETHYLBENZENE	ug/m3	4.81		1.2		1.3		1.66		<0.867		0.876		1.22		1.26	
4-ETHYLTOLUENE	ug/m3	<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982	
TRICHLOROFLUOROMETHANE	ug/m3	5.57		1.56		1.58		1.52		1.6		1.6		1.55		1.69	
DICHLORODIFLUOROMETHANE	ug/m3	2.39		3.58		3.39		3.66		2.99		3.03		3.7		3.4	

Notes
All concentrations in micrograms per cubic meter.
< Concentration is less than the method detection limit
SV = Soil vapor sample.
SS = Sub-slab sample.
Bold and shaded = analyte detected

TABLE 9
RI Vapor, Sub-slab, Indoor Air, and Outdoor Air Sample Results
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Lab Sample ID		L1180201-01		L1180201-03		L1180201-02		L1180201-04		L1180201-06		L1180201-05		L1180201-10		L1180201-11	
Client Sample ID		SV-1		INDOOR-1		DUPLICATE-INSIDE		SS-1		SS-2		OUTDOOR 1		MATRIX SPIKE		MS-DUPLICATE	
Date Collected		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020		01/13/2020	
Analyte	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,2-TRICHLOROTRIFLUOROETHANE	ug/m3	<1.53		<1.53		<1.53		<1.53		<1.53		<1.53		<1.53		<1.53	
1,2-DICHLOROTETRAFLUOROETHANE	ug/m3	<1.40		<1.40		<1.40		<1.40		<1.40		<1.40		<1.40		<1.40	
HEPTANE	ug/m3	24.1		<0.818		<0.818		0.867		<0.818		<0.818		<0.818		<0.818	
HEXACHLORO-1,3-BUTADIENE	ug/m3	<6.73		<6.73		<6.73		<6.73		<6.73		<6.73		<6.73		<6.73	
N-HEXANE	ug/m3	20.2		0.913		0.867		1		<0.705		0.917		0.931		1.12	
ISOPROPYLBENZENE	ug/m3	<0.983		<0.983		<0.983		<0.983		<0.983		<0.983		<0.983		<0.983	
METHYLENE CHLORIDE	ug/m3	<0.694		0.74		1.02		0.844		<0.694		0.715		0.816		1.01	
METHYL BUTYL KETONE	ug/m3	<5.11		<5.11		<5.11		<5.11		<5.11		<5.11		<5.11		<5.11	
2-BUTANONE (MEK)	ug/m3	<3.69		<3.69		<3.69		8.96		11.5		<3.69		<3.69		3.69	
4-METHYL-2-PENTANONE (MIBK)	ug/m3	<5.12		<5.12		<5.12		<5.12		<5.12		<5.12		<5.12		<5.12	
METHYL METHACRYLATE	ug/m3	<0.819		<0.819		<0.819		<0.819		<0.819		<0.819		<0.819		<0.819	
METHYL TERT-BUTYL ETHER	ug/m3	<0.721		<0.721		<0.721		<0.721		<0.721		<0.721		<0.721		<0.721	
NAPHTHALENE	ug/m3	<3.30		<3.30		<3.30		<3.30		<3.30		<3.30		<3.30		<3.30	
2-PROPANOL	ug/m3	<3.07		3.1		<3.07		12.8		<3.07		<3.07		<3.07		3.29	
PROPENE	ug/m3	<0.689		<0.689		<0.689		<0.689		0.818	B	<0.689		<0.689		<0.689	
STYRENE	ug/m3	<0.851		<0.851		<0.851		<0.851		<0.851		<0.851		<0.851		<0.851	
1,1,2,2-TETRACHLOROETHANE	ug/m3	<1.37		<1.37		<1.37		<1.37		<1.37		<1.37		<1.37		<1.37	
TETRACHLOROETHENE	ug/m3	4.02		<1.36		<1.36		<1.36		2.93		<1.36		<1.36		<1.36	
TETRAHYDROFURAN	ug/m3	<0.590		<0.590		<0.590		<0.590		<0.590		2.56		<0.590		<0.590	
TOLUENE	ug/m3	18.6		9.94		10.5		12.1		0.9		2.57		10.5		10.5	
1,2,4-TRICHLOROBENZENE	ug/m3	<4.66		<4.66		<4.66		<4.66		<4.66		<4.66		<4.66		<4.66	
1,1,1-TRICHLOROETHANE	ug/m3	<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09	
1,1,2-TRICHLOROETHANE	ug/m3	<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09		<1.09	
TRICHLOROETHENE	ug/m3	3.65		2.74		2.71		2.86		<1.07		<1.07		2.89		2.89	
1,2,4-TRIMETHYLBENZENE	ug/m3	<0.982		<0.982		1.15		<0.982		0.982		<0.982		<0.982		<0.982	
1,3,5-TRIMETHYLBENZENE	ug/m3	<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982		<0.982	
2,2,4-TRIMETHYLPENTANE	ug/m3	5.7		<0.934		<0.934		<0.934		<0.934		<0.934		<0.934		2.07	
VINYL CHLORIDE	ug/m3	<0.511		<0.511		<0.511		<0.511		<0.511		<0.511		<0.511		<0.511	
VINYL BROMIDE	ug/m3	<0.875		<0.875		<0.875		<0.875		<0.875		<0.875		<0.875		<0.875	
VINYL ACETATE	ug/m3	<0.704		<0.704		<0.704		<0.704		<0.704		<0.704		<0.704		<0.704	
M&P-XYLENE	ug/m3	13.2		4.6		5.03		7.72		<1.73		2.98		4.73		4.9	
O-XYLENE	ug/m3	3.69		1.32		1.47		2.14		<0.867		<0.867		1.27		1.45	

Notes
All concentrations in micrograms per cubic meter.
< Concentration is less than the method detection limit
SV = Soil vapor sample.
SS = Sub-slab sample.
Bold and shaded = analyte detected

TABLE 10
Vapor, Sub-slab, Indoor Air and Outdoor Air Sample Analysis Results
Former Bisonite Paint Company
Site C915010
2266 and 2268 Military Road
Tonawanda, New York

Client Sample ID		**Sub-slab Sample**	**Indoor Air**	**Recommended Action**	**SV-1**		**SS-1**		**SS-2**		**DUPLICATE-INSIDE**		**INDOOR-1**		**OUTDOOR 1**	
Date Collected					**01/13/2020**		**01/13/2020**		**01/13/2020**		**01/13/2020**		**01/13/2020**		**01/13/2020**	
Analyte	**Units**				**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
METHYLENE CHLORIDE	ug/m3	<100	<10	No Further Action	<0.694		0.844		<0.694		1.02		0.74		0.715	
TETRACHLOROETHENE	ug/m3	<100	<10	No Further Action	4.02		<1.36		2.93		<1.36		<1.36		<1.36	
TRICHLOROETHENE	ug/m3	<60	>1	Further investigation and possible mitigation	3.65		2.86		<1.07		2.71		2.74		<1.07	

Notes:
All concentrations shown in micrograms per cubic meter.
< Concentration is less than the method detection limit.
SV = Soil vapor sample.
SS = Sub-slab sample.

TABLE 6
Soil Analysis Results for Emerging Contaminants and 1,4-Dioxane
Former Bisonite Paint Company
Site Code C915010
2266 and 2268 Military Road
Tonawanda, New York

			Sample ID (Interval)	SB-3 10ft. - 12ft.	SB-8 1ft. - 2ft.	SB-9 2ft. - 4ft.	PFAS Field Blank	Field Blank S
ANALYTE	**RESULT REPORTED TO**	**UNITS**	**Unrestricted Use SCO**	**R1911944 001**	**R1911944 004**	**R1911944 005**	**R1911944 002**	**R1911944 003**
Method: 8270D SIM/1,4-Dioxane								
1,4 Dioxane	MDL	ug/L	N/A				NR	0.027 U
Method: 8270D/SVO LL								
1,4 Dioxane	MDL	mg/Kg dry	0.1	0.012 U	0.012 U	0.012 U	NR	NR
Method: ALS SOP/Total Solids								
Total Solids	MDL	Percent	N/A	87.7	86.8	89.5	NR	NR
Method: PFC/537M/PFAS								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/g dry	N/A	0.17 U	0.15 U	0.15 U		NR
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	MDL	ng/L	N/A				0.55 U	NR
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/g dry	N/A	0.032 U	0.029 U	0.029 U	NR	NR
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	MDL	ng/L	N/A				0.15 U	NR
N Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/g dry	N/A	0.22 U	0.20 U	0.20 U	NR	NR
N Ethyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L	N/A				0.50 U	NR
N Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/g dry	N/A	0.30 U	0.27 U	0.27 U	NR	NR
N Methyl perfluorooctane sulfonamidoacetic acid	MDL	ng/L	N/A				1.4 U	NR
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/g dry	N/A	0.24 U	0.22 U	0.22 U	NR	NR
Perfluorobutane sulfonic acid (PFBS)	MDL	ng/L	N/A	NR	NR	NR	0.28 U	NR
Perfluorobutanoic acid (PFBA)	MDL	ng/g dry	N/A	0.43 U	0.39 U	0.39 U	NR	NR
Perfluorobutanoic acid (PFBA)	MDL	ng/L	N/A	NR	NR	NR	0.40 U	NR
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/g dry	N/A	0.19 U	0.17 U	0.17 U	NR	NR
Perfluorodecane sulfonic acid (PFDS)	MDL	ng/L	N/A	NR	NR	NR	0.30 U	NR
Perfluorodecanoic acid (PFDA)	MDL	ng/g dry	N/A	0.29 U	0.26 U	0.26 U	NR	NR
Perfluorodecanoic acid (PFDA)	MDL	ng/L	N/A	NR	NR	NR	1.2 U	NR
Perfluorododecanoic acid (PFDoDA)	MDL	ng/g dry	N/A	0.30 U	0.27 U	0.27 U	NR	NR
Perfluorododecanoic acid (PFDoDA)	MDL	ng/L	N/A	NR			1.3 U	NR
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/g dry	N/A	0.067 U	0.062 U	0.062 U	NR	NR
Perfluoroheptane sulfonic acid (PFHpS)	MDL	ng/L	N/A	NR			0.44 U	NR
Perfluoroheptanoic acid (PFHpA)	MDL	ng/g dry	N/A	0.21 U	0.19 U	0.19 U		NR
Perfluoroheptanoic acid (PFHpA)	MDL	ng/L	N/A				0.63 U	NR
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/g dry	N/A	0.33 U	0.30 U	0.30 U		NR
Perfluorohexane sulfonic acid (PFHxS)	MDL	ng/L	N/A				1.3 U	NR
Perfluorohexanoic acid (PFHxA)	MDL	ng/g dry	N/A	0.34 U	0.31 U	0.31 U		NR
Perfluorohexanoic acid (PFHxA)	MDL	ng/L	N/A				8.8 U	NR
Perfluorononanoic acid (PFNA)	MDL	ng/g dry	N/A	0.36 U	0.33 U	0.33 U		NR
Perfluorononanoic acid (PFNA)	MDL	ng/L	N/A				1.1 U	NR
Perfluorooctane sulfonamide (FOSA)	MDL	ng/g dry	N/A	0.073 U	0.067 U	0.067 U		NR
Perfluorooctane sulfonamide (FOSA)	MDL	ng/L	N/A				0.52 U	NR
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/g dry	N/A	0.15 U	0.13 U	0.13 U		NR
Perfluorooctane sulfonic acid (PFOS)	MDL	ng/L	N/A				0.44 U	NR
Perfluorooctanoic acid (PFOA)	MDL	ng/g dry	N/A	0.15 U	0.14 J	0.13 U		NR
Perfluorooctanoic acid (PFOA)	MDL	ng/L	N/A				0.35 U	NR
Perfluoropentanoic acid (PFPeA)	MDL	ng/g dry	N/A	0.23 U	0.21 U	0.21 U		NR
Perfluoropentanoic acid (PFPeA)	MDL	ng/L	N/A				1.7 U	NR
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/g dry	N/A	0.20 U	0.18 U	0.18 U		NR
Perfluorotetradecanoic acid (PFTeDA)	MDL	ng/L	N/A				2.0 U	NR
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/g dry	N/A	0.23 U	0.21 U	0.21 U		NR
Perfluorotridecanoic acid (PFTrDA)	MDL	ng/L	N/A				1.3 U	NR
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/g dry	N/A	0.20 U	0.18 U	0.18 U		NR
Perfluoroundecanoic acid (PFUnDA)	MDL	ng/L	N/A				1.5 U	NR

Notes:
Units as shown.
MDL = Method detection limit.
U = Value is = MDL.
N/A = not applicable.
NR = not required; not reported.

RAAR TABLES

TABLE 14
COST ESTIMATE FOR COMMERCIAL USE TRACK 4 CLEANUP
Surface Soil (Alt. 2) Subsurface Soil Source Removal (Alt. 2)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Report	$1,100.00	$2,270.00
4.0	**Progress Reports**	12	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	8	Events	$2,000.00	$16,000.00
	Management/Engineering Subtotal				**$73,180.00**
	II. EXPENSES				
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	PID Meter Rental	2	Week	$300.00	$600.00
3.0	CAMP Monitoring Equipment (Upwind & Downwind)	2	Week	$996.00	$1,992.00
4.0	Peristaltic Pump - Monitoring	8	Sessions	$42.00	$336.00
5.0	Water Quality Meter - Monitoring	8	Sessions	$145.00	$1,160.00
7.0	6 mil Poly Sheting	4	Rolls	$190.00	$760.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Travel Expenses	10	Days	$150.00	$1,500.00
	Expenses Subtotal				**$6,366.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoo**n **Soil**	750	Tons	$34.50	$25,875.00
3.0	Load Contaminated **Lagoon Soil**	750	Tons	$6.00	$4,500.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	250	Ton	$610.00	**$152,500.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	500	Ton	$52.00	$26,000.00
6.0	Excavate and Stage **Surface Soils**	200	Tons	$34.50	$6,900.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	200	Ton	$52.00	$10,400.00
8.0	Provide, Place and Compact Imported Crushed Stone	950	Tons	$31.50	$29,925.00
9.0	Install New Asphalt	6000	sq.ft.	$11.00	$66,000.00
10.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,000.00	$1,000.00
11.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
12.0	Survey Features	1	LS	$4,200.00	$4,200.00
13.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	15	Samples	$400.00	$6,000.00
14.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	40	Samples	$400.00	$16,000.00
15.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	2	Samples	$720.00	$1,440.00
16.0	Laboratory Periodic Air Sampling (Building)	6	Samples	$400.00	$2,400.00
17.0	Subcontractor - DUSRs	4	Reports	$1,200.00	$4,800.00
18.0	IDW Drum Disposal	2	Drum	$480.00	$960.00
		Total Management/Engineering Services Cost			**$73,180.00**
		Total Expense Cost			**$6,366.00**
		Subcontractor Total			**$381,100.00**
		Total Cost			**$460,646.00**

2/16/2022

TABLE 15
COST ESTIMATE FOR COMMERCIAL USE TRACK 4 CLEANUP
Surface Soil Subsurface Soil Source Removal With ORC Enhancement
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP, RAWP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Reports	$1,100.00	$2,270.00
4.0	**Progress Reports**	24	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	8	Events	$2,000.00	$16,000.00
	Management/Engineering Subtotal				**$73,180.00**
II. EXPENSES					
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	**ORC Advanced Pellets**	3,400	Pounds	$13.00	$44,200.00
3.0	**ORC Advanced Freight**	1	LS	$2,000.00	$2,000.00
4.0	PID Meter Rental	2	Week	$300.00	$600.00
5.0	CAMP Monitoring Equipment (Upwind & Downwind)	2	Week	$996.00	$1,992.00
6.0	Peristaltic Pump - Monitoring	8	Sessions	$42.00	$336.00
7.0	Water Quality Meter - Monitoring	8	Sessions	$145.00	$1,160.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Poly Sheeting	2	Rolls	$190.00	$380.00
10.0	Travel Expenses	10	Days	$150.00	$1,500.00
	Expenses Subtotal				**$52,186.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoo**n **Soil**	900	Tons	$34.50	$31,050.00
3.0	Load Contaminated **Lagoon Soil**	900	Tons	$6.00	$5,400.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	250	Ton	$610.00	**$152,500.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	650	Ton	$52.00	$33,800.00
6.0	Excavate and Stage **Surface Soils**	200	Tons	$34.50	$6,900.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	200	Ton	$52.00	$10,400.00
8.0	Handling & Placement of ORC Advanced	3400	Pounds	$2.50	$8,500.00
9.0	Provide, Place and Compact Imported Crushed Stone	950	Tons	$31.50	$29,925.00
10.0	Install New Asphalt	6000	sq.ft.	$11.00	$66,000.00
11.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,000.00	$1,000.00
12.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
13.0	Survey Features	1	LS	$4,200.00	$4,200.00
14.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	15	Samples	$400.00	$6,000.00
15.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	40	Samples	$400.00	$16,000.00
16.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	2	Samples	$720.00	$1,440.00
17.0	Laboratory Periodic Air Sampling (Building)	6	Samples	$400.00	$2,400.00
18.0	Subcontractor - DUSRs	4	Reports	$1,200.00	$4,800.00
19.0	IDW Drum Disposal	2	Drum	$480.00	$960.00
20.0	**Contractor Services Subtotal**				**$403,475.00**
		Total Management/Engineering Services Cost			**$73,180.00**
		Total Expense Cost			**$52,186.00**
		Subcontractor Total			**$403,475.00**
		Total Cost			**$528,841.00**

TABLE 16
COST ESTIMATE FOR COMMERCIAL USE (TRACK 1)
Surface Soil (Alt. 3) Subsurface Soil Source Removal (Alt 3)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,800.00
2.0	**Remedial Action Work Plan, HASP, CAMP, QAPP, RAWP**				$10,000.00
3.0	**Contained In Determination Request Package**	1	Reports	$1,100.00	$1,100.00
4.0	**Progress Reports**	12	Reports	$415.00	$4,980.00
5.0	**Site Management Plan**				$4,985.00
6.0	**Final Engineering Report**				$7,945.00
7.0	**Periodic Review Report**				$2,500.00
8.0	**DEC EQUIS Database Management**				$1,500.00
9.0	**Meetings**				$1,200.00
10.0	**Remediation Oversight / Project Management**				$20,000.00
11.0	**Post Excavation Groundwater Monitoring**	4	Events	$2,000.00	$8,000.00
	Management/Engineering Subtotal				**$64,010.00**
II. EXPENSES					
1.0	**Remediation, Well Monitoring / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	PID Meter Rental	4	Week	$300.00	$1,200.00
3.0	CAMP Monitoring Equipment (Upwind & Downwind)	4	Week	$996.00	$3,984.00
4.0	Peristaltic Pump - Monitoring	4	Sessions	$42.00	$168.00
5.0	Water Quality Meter - Monitoring	4	Sessions	$145.00	$580.00
6.0	Excavation Water Discharge Permit	1	Permit	$200.00	$200.00
7.0	6 mil Poly Sheting	4	Rolls	$190.00	$760.00
8.0	Disposable Tubing (100' roll) - Monitoring	1	Roll	$18.00	$18.00
9.0	Travel Expenses	15	Days	$150.00	$2,250.00
	Expenses Subtotal				**$9,160.00**
III.REMEDIAL CONTRACTOR SERVICES					
1.0	Mobilize/Demobilize	1	LS	$19,200.00	$19,200.00
2.0	Excavate and Stage **Lagoon Soil**	8000	Tons	$35.40	$283,200.00
3.0	Load Contaminated **Lagoon Soil**	8000	Tons	$6.00	$48,000.00
4.0	Transport and Dispose of Hazardous **Lagoon Soil**	1000	Ton	$700.00	**$700,000.00**
5.0	Transport and Dispose of Non-Hazardous **Lagoon Soil**	7000	Ton	$52.00	$364,000.00
6.0	Excavate and Stage **Surface Soils**	500	Tons	$34.00	$17,000.00
7.0	Load, Transport and Dispose of Non-Hazardous **Surface Soils**	500	Ton	$52.00	$26,000.00
8.0	Frac Tank Mob/Demob & Rental	15	Days	$125.00	$1,875.00
9.0	Excavation Water handling, treatment, discharge	15000	Gallons	$0.20	$3,000.00
10.0	Frac Tank Cleaning	1	LS	$1,665.00	$1,665.00
11.0	Provide, Place and Compact Imported Crushed Stone	8500	Tons	$31.50	$267,750.00
12.0	Install New Asphalt	7000	sq.ft.	$11.00	$77,000.00
13.0	Decontaminate Heavy Equipment/Vehicles	1	LS	$1,500.00	$1,500.00
14.0	Replace Three Overburden Monitoring Wells	3	Wells	$1,000.00	$3,000.00
15.0	Survey Features	1	LS	$4,200.00	$4,200.00
16.0	Laboratory Confirmatory Soil Samples(Pest, herbs, PCB, VOC, SVOC, Metals & Dup)	20	Samples	$400.00	$8,000.00
17.0	Laboratory Post GW Monitoring (Pest, herbs, PCB, VOC, SVOC, Metals	20	Samples	$400.00	$8,000.00
18.0	Laboratory (2 samples for Full RCRA TCLP, PCB, & misc. for disposal characterization)	5	Samples	$720.00	$3,600.00
19.0	Laboratory Periodic Air Sampling (Building)	8	Samples	$400.00	$3,200.00
20.0	Subcontractor - DUSRs	8	Reports	$1,200.00	$9,600.00
21.0	IDW Drum Disposal	4	Drum	$480.00	$1,920.00
		Total Management/Engineering Services Cost			**$64,010.00**
		Total Expense Cost			**$9,160.00**
		Subcontractor Total			**$1,851,710.00**
		Total Cost			**$1,924,880.00**

TABLE 17
COST ESTIMATE FOR SSDS INSTALLATION
Soil Vapor (Alt. 3)
Former Bisonite Paint Co. Site No. C915010
2266 and 2268 Militry Road
Tonawanda, New York

I. MANAGEMENT AND ENGINEERING SERVICES					
1.0	**Scheduling / Coordination**				$1,500.00
2.0	**SSDS Design Work Plan & Pilot Testing**				$10,000.00
3.0	**SSDS Install Oversight / Project Management**	5	Days	$1,100.00	$5,500.00
4.0	**Post Mitigation Air Sampling**	1	Days	$1,100.00	$1,100.00
5.0	**OM&M Quarterly System Check**	20	Each	$500.00	$10,000.00
6.0	**Management/Engineering Subtotal**				**$28,100.00**
II. EXPENSES					
1.0	**SSDS Installation / Sampling**	**Quantity**	**Unit**	**Rate**	**Total**
2.0	Monitoring Instruments	1	Week	$500.00	$500.00
3.0	Travel Expenses	5	Days	$300.00	$1,500.00
	Expenses Subtotal				**$2,000.00**
III. SSDS CONTRACTOR SERVICES					
1.0	Pilot Testing for SSDS Design	1	LS	$2,000.00	$2,000.00
2.0	Furnish & Install SSDS	9000	Sqft	$6.00	$54,000.00
3.0	Survey Features / Asbuilt Drawing	1	LS	$2,000.00	$2,000.00
4.0	Laboratory Periodic Air Sampling / Analysis (Building)	10	Samples	$400.00	$4,000.00
5.0	Subcontractor - DUSR	1	Report	$900.00	$900.00
	Contractor Subtotal				$62,900.00
		Total Management/Engineering Services Cost			**$28,100.00**
		Total Expense Cost			**$2,000.00**
		Subcontractor Total			**$62,900.00**
		Total Cost			**$93,000.00**

APPENDIX A

SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT

235.198A

Leader
Leader Professional Services, Inc.
271 Marsh Road, Suite 2
Pittsford, New York 14534
(585) 248-2413
(585) 248-2834 (Fax)
www.leaderlink.com

May 4, 2021

Mr. Joshua M. Vaccaro
Division of Environmental Remediation
Region 9
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203
Email: Joshua.vaccaro@dec.ny.gov

Re: Sample Analysis Results for Supplemental Remedial Investigation
Former Bisonite Paint Company, Site Code C915010
2266 Military Road and 2268 Military Road
Tonawanda, New York

Dear Mr. Vaccaro:

Leader Professional Services, Inc. ("Leader") working on the behalf of ACM Northfield CR3, LLC, is providing this report for the sample analysis results obtained during the implementation of the Supplemental Remedial Investigation ("SRI") conducted on March 18, 2021 at the above-referenced site.

The work was conducted following the Supplemental Work Plan – Field Sampling ("SWP"), approved by the New York State Departments of Environmental Conservation ("NYSDEC") and Health ("NYSDOH") on March 1, 2021.

The work was implemented in accordance with the approved SWP with the following exceptions, which were discussed with you prior to implementing the field work. The SWP specified that soil sampling would be conducted using a direct push sampling tool and the air monitoring associated with the sampling would also include implementing a Community Air Monitoring Program ("CAMP") for particulates and volatile organic compounds. Leader conducted the sampling using a gasoline powered post-hole auger, when needed. Because of this change, NYSDEC agreed particulate monitoring would not be needed and the sample hole and the immediate work area would continue to be monitored with a portable organic vapor monitor using a photoionization detector ("PID").

SAMPLE ANALYSIS RESULTS

Soil Samples

Soil samples were collected at the locations shown on Figure 1. At each location, discrete samples were collected from the following intervals: 0 to 2-inches; 2 to 6-inches; 6 to 12-inches and 12 to 24-inches. PID monitoring was conducted prior to the sampling at each location and at each sample interval. No elevated PID readings were noted. The soils encountered consisted of fill in the upper 6 to 18 inches of the soil with asphalt, glass, gravel and silt/sand. Below the fill layer the soil consisted of clay-like soil, with the exception of the soil at sample location SS2-B where silty sand was observed to a depth of 24-inches below the ground surface.

Each soil sample was analyzed for polyaromatic hydrocarbons ("PAH") by ALS Laboratories and compared to the 6 NYCRR Part 375 Restricted Use, Commercial Soil Cleanup Objectives ("RCSCO"). The laboratory data packages are provided in Appendix A. A summary of the PAH compounds in the soil samples that exceed applicable RCSCOs are presented on Table 1. For comparison purposes, Table 2 provides the surface soil (0 to 2-inches) analysis of PAH exceedances during Leader's 2019 Remedial Investigation ("RI"). The RI sample locations are also shown on Figure 1.

Soil Sample Results

The 0 to 2-inch interval sample analysis found the same PAH compounds as the RI findings; Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Dibenz(a,h,)anthracene and Indeno(1,2,3-cd)pyrene. Each sample with the exception of SSB-2, contained at least one compound exceeding the RCSCO. Three samples (SSA-1, SSB-1, and SSA-5) had only one compound (Benzo(a)pyrene) at a concentration above the RCSCO of 1 milligram per kilogram ("mg/Kg").

The 6-inch interval sample analysis found similar results as the 0 to 2-inch sample interval, but the sample analysis results show three samples had no exceedances (SSB-1, SSB-2, and SSA-5) and two locations had one exceedance (Benzo(a)pyrene) at locations SSA-1 and SSA-6.

Improved soil conditions were found in the 12-inch interval sample. Three samples (SSA-3, SSA-5, and SSA-6) did not exceed the RCSCO, but in four samples (samples SSA-1, SSB-1, SSA-2, SSB-2) Benzo(a)pyrene exceeded the RCSCO of 1 mg/Kg. The range of Benzo(a)pyrene concentrations was 1.2 to 1.7 mg/Kg. Samples SSA-4 and SSB-3 had three or more compounds exceeding the RCSCO.

Improved soil conditions were found in the 24-inch interval sample. Two sample locations contained three or more compounds at concentrations exceeding the RCSCO; however, the exceedances were only slightly over the guidance level. For example, in the sample from location SSB-1 the concentration of Benzo(b)fluoranthene was 7.1 mg/kg compared to the RCSCO of 5.6 mg/Kg. In the same sample from SSB-1 Benzo(a)pyrene was found at a concentration of 7.1 mg/Kg compared to the RCSCO of 1.0 mg/Kg. No exceedances of PAH compounds beyond the 12-inch depths from SSA-2, SSB-2, SSA-3, SSB-4 of SSA-5 were detected.

The exceedances of PAHs in the shallower depths as opposed to the 24-in interval is most likely attributed to the observed prevalence of broken asphalt mixed in the soils rather than past operations at the Bisonite facility.

Air Samples

The air sampling conducted during the SRI was collected in a portion of the Site building that is off-Site. However, the building shares a building wall and hallways with the on-Site building. Figure 2 shows the locations of the samples.

Heating in the off-Site portions of the building uses gas fired units. The office uses a natural gas fired forced air system while the warehouse uses a ceiling mounted system with its heat exchanger on the roof. The air temperature inside the building was 68 degrees Fahrenheit during the SRI.

Prior to the sampling, Leader conducted a visual inspection and a survey of the area using a PID. No chemicals or building maintenance products were found in the immediate area of the office or warehouse. The forklift trucks used in the warehouse have electric motors with batteries. No elevated PID levels (greater than 1 ppm) were observed.

After each sub-slab sample location was drilled, Leader conducted measurements of the volatile organic vapors in each hole; at location SS-1 (warehouse) a peak PID reading of 14.6 ppm was observed and a 2.2 ppm sustained reading measured. After approximately five minutes, PID readings were non-detect. At location SS-2, a peak PID reading of 5.2 ppm was observed and it dropped to 0-ppm after a few seconds.

The air samples were analyzed by Galson Laboratories using Method TO-15 and the laboratory package is provided as Appendix B. Table 3 provides a summary of the sample analysis results.

<u>Air Sample Results</u>

None of the compounds that have NYSDOH indoor air guidance values, with the exception of Methylene Chloride, were detected in the samples. Methylene Chloride was found in the two indoor air samples at a concentration of 24.0 micrograms per cubic meter ("mcg/M^3") in sample IA-1 and at a concentration of 16 mcg/M^3 in sample IA-2. Methylene Chloride was not found in the sub-slab samples or the outdoor air, indicating that that the Methylene Chloride detections may be the result of use or storage of products that contain this chemical within the building.

Other compounds found were consistent with the previously collected on-Site samples. The following compounds were found: Acetone, Benzene, Ethylbenzene, Methyl Ethyl Ketone ("MEK"), Toluene and Xylene. No chlorinated compounds were found in the SWP sample analysis results however they were found in the samples during the 2019 Remedial Investigation. Acetone, MEK and Toluene were found in both the indoor air and sub-slab samples during the SWP, but only in the sub-slab samples during the 2019 Remedial Investigation. During the SRI, Benzene was found only in the sub-slab samples. During the 2019 Remedial Investigation Benzene was found in sub-slab and indoor air samples (See Table 3).

DATA USABILITY SUMMARY REPORT

A Data Usability Summary Report ("DUSR") was prepared for the soil and air sample laboratory data by ME Holvey Consulting, LLC ("MEHC"). The DUSR for both the soil and air sample analysis data is provided as Appendix C. MEHC found the data to be valid and usable.

AREA WIDE BUILDING CHEMICAL INVENTORY

On June 30, 2021, Leader returned to the Site to further assess other 'off-site" portions of the former manufacturing building to examine current tenant activities such as, types of chemicals used, stored and managed at the site and determine whether there was potential for releases of hazardous substances or petroleum related constituents to indoor air, particularly that of Methylene Chloride.

Leader was escorted by ACM Northfield's property manager to a wood furniture refurbishing shop, operated by the Elwood Company at the southwest corner of the building. The shop is reportedly operated by one person on a part time basis. Activities include repair, stripping, sanding, painting, and refinishing of antique wood furniture. The shop proprietor was not present during Leader's June 30th Site inspection.

Immediately upon entering the refurbishing shop, a strong lacquer thinner/stripper type odor was noted and a PID reading of 12.4 ppm was reported in the ambient air within the shop, with higher readings recorded near the flammable materials storage locker. An open five-gallon container of gelled stripper or lacquer thinner was observed at the doorway entrance emanating VOC vapors. One (1) five-gallon pail of furniture stripper listed Dichloromethane and Methanol as its primary ingredients. Dichloromethane is a synonym of Methylene Chloride. Various size containers and aerosol cans containing wood stains, mineral spirits, Stoddard solvents, petroleum distillates, paint thinner, spray toners and lacquers were observed in the flammable materials storage locker, and on shelves within the shop.

The shop was not being ventilated at the time of entry. A wall mounted exhaust fan was observed near the ceiling of the shop and reportedly operates while the proprietor is engaged in stripping and refinishing operations. The fan directs the indoor building air directly to the atmosphere. As such, no ventilation ducts are used.

Insight Floor Coverings occupies a garage space at the northwest portion of the building within the BCP boundary. Four-gallon pails containing carpet, vinyl and ceramic tile adhesives are stored neatly on shelves. The containers manufactured by Mohawk and Armstrong Tile are labeled "Solvent and VOC Free" or listed as containing VOCs less than 34 grams per liter". The SDS's for these products lists the ingredients as "Proprietary" but are identified as containing no hazardous ingredients. The ceramic tile adhesive manufactured by Flextile contains petroleum distillates. Approximately 98% of the products were new and un-opened. Minimal containers that have been previously opened were observed to be sealed tight with the original lids. Neither VOC odors, spillage, nor PID readings were observed inside the Insight Floor Coverings garage space.

Leader completed a NYSDOH Indoor Air Quality Questionnaire with emphasis on the furniture refurbishing shop, including product inventory forms for the wood furniture refurbishing and floor covering businesses (See Appendix D). Photographs of the products used in the wood furniture refurbishing shop are provided in Appendix E.

Based on the confirmed use of furniture stripper containing Methylene Chloride, and the presence of VOC odors and elevated PID readings in the ambient air within the furniture refurbishing shop, the presence of Methylene Chloride in addition to other VOCs such as Acetone, Benzene, MEK, Toluene and Xylene detected during the supplemental indoor air samples is likely attributed to the products used in the furniture refurbishing operations.

SUMMARY

Soil Samples

The soil sample analysis results indicated PAH contamination exceeding the RUCSCOs was found along the property line, but the highest concentrations are along the north side of the Site. This is consistent with the RI findings where sample locations SS-3 and SS-4 were found to have the highest concentrations. Although the SWP findings indicate that the soil samples contain SVOC concentrations above the applicable RCSCOs, the level of impact decreased below the 12-inch depth. The PAH exceedances in the shallow soil sample intervals is likely due to the observed prevalence of bituminous asphalt mixed in the soils rather than the result of past operations at the Bisonite facility.

Air Samples

During the SRI the concentration of Methylene Chloride (16.0 and 24.0 mcg/M^3) in the air samples was less than the NYSDOH 2017 indoor air guidance value of 60 mcg/M^3 . Methylene Chloride was not detected from the sub-slab air samples. The concentration of Methylene Chloride found during the 2019 RI was much lower: 0.74 mcg/M^3 in the onsite indoor air primary sample, 1.02 mcg/M^3 in the onsite indoor air duplicate sample, and 0.844 mcg/M^3 in the sub-slab sample, (See Figure 3). Methylene Chloride was also found in the outdoor air at a concentration of 0.715 mcg/M^3 during the 2019 RI but was not detected in the outdoor air during the SRI.

During the SRI other compounds were found in both the indoor and sub-slab samples and they are consistent with the compounds found in the soil and groundwater during the RI. The detected VOCs are also consistent with the ingredients listed on products used in the furniture refurbishing shop; Except for Methylene Chloride, NYSDOH does not have guidance values for these compounds, but rather these compounds are based on typical background concentrations.

The presence of products containing Methylene Chloride, Acetone, Benzene, MEK, Toluene and Xylene observed in the furniture refurbishing shop, is likely the source of the constituents found in the indoor air during the 2019 RI and this SRI.

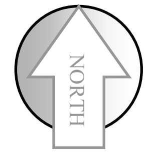
Based on the 2019 RI results, in addition to the off-Site SRI findings, actions are not needed to address exposures related to soil vapor intrusion. However, improving housekeeping practices and/or implementing more effective engineering controls within the furniture repair shop would likely improve the air quality within the entire building.

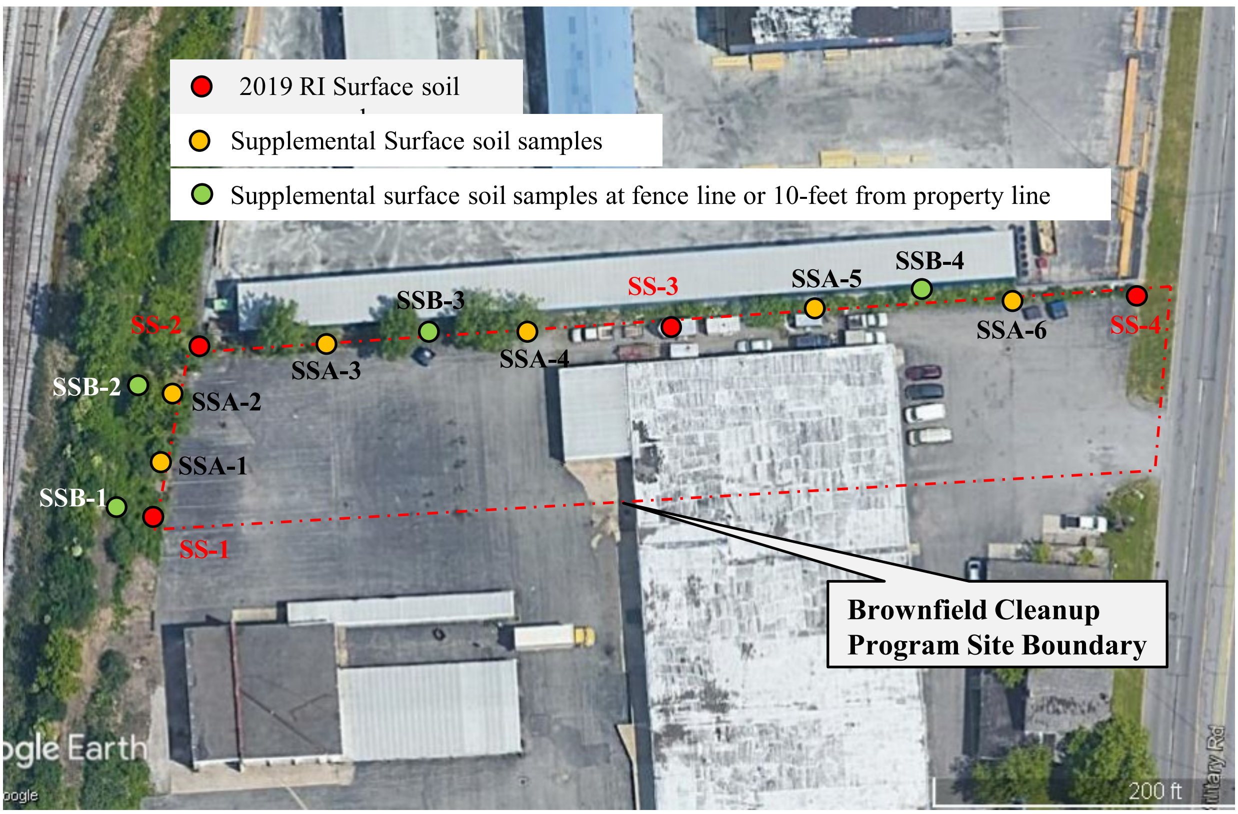
If you have any questions or require further information, please contact us at (585) 248-2413 or fthomas@leaderlink.com.

Very truly yours,
LEADER PROFESSIONAL SERVICES, INC.

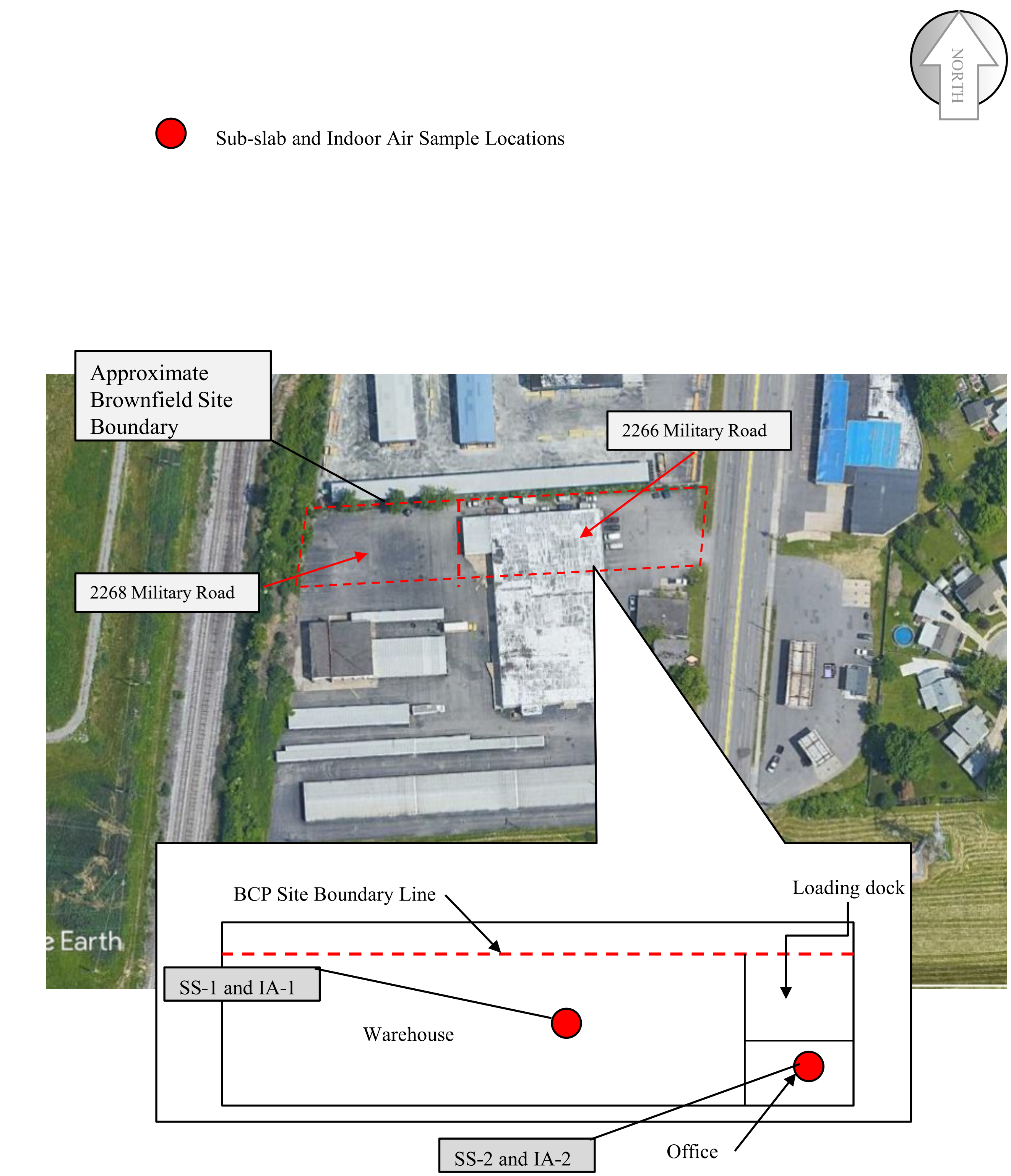
Frank Thomas

Frank Thomas
Senior Project Manage





Title Supplemental Surface Soil Sampling Locations 2266 and 2268 Military Road Tonawanda, NY	Leader Leader Professional Services 271 Marsh Road, Suite 2 Pittsford, NY 14534 (585) 248-2413 FAX (585) 248-2834	Project 235.198A	Drawn PVS	Figure 1
Prepared For ACM Northern CR#3 LLC 3144 S. Winton Road Rochester, NY		Date 4/22/2021	Checked MPR	
		Scale NTS	File Name Site Location	



Title Supplemental Sampling Sub-slab & Indoor Air Loc.
2266 and 2268 Military Road
Tonawanda, NY

Prepared For ACM Northern CR#3 LLC
3144 S. Winton Road
Rochester, NY

Leader

Leader Professional Services
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Project 235.198A
Date 4/23/2021
Scale As shown

Drawn PVS
Checked MPR
File Name Air Samples

Figure 2

TABLE 1
Supplemental RI Soil Sample Exceedances
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	SSA 1 0 2 R2102621 017	SSB 1 0 2 R2102621 021	SSA 2 0 2 R2102621 009	SSB 2 0 2 R2102621 013	SSA 3 0 2 R2102621 005	SSB 3 0 2 R2102621 001	SSA 4 0 2 R2102620 014	SSB 4 0 2 R2102620 005	SSA 5 0-2 R2102620 010	SSA 6 0 2 R2102620 001
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	1.5	0.76	**7.2**	0.38 J	4.0	4.9	**53**	**15**	1.8	**30**
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**2.4**	1.0	**9.4**	0.49	**6.1**	**8.7**	**89**	**24 E**	**3.3**	**48**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	3.4	1.1	**12**	0.63	**7.6**	**12 E**	**120 E**	**31 E**	4.1	**59**
Chrysene	8270D/SVO MW	mg/Kg dry	56	2.5	0.84	9.9	0.43	5.9	7.9	**88**	21 E	2.9	43
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.30 J	0.16 J	**1.3 J**	ND	**0.92 J**	**1.3**	**12**	**3.0**	0.44	**6.8**
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.6	0.65	**6.4**	0.32 J	4.6	**6.7**	**61**	**16**	2.3	**38**

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	SSA 1 6 R2102621 018	SSB 1 6 R2102621 022	SSA 2 6 R2102621 010	SSB 2 6 R2102621 014	SSA 3 6 R2102621 006	SSB 3 6 R2102621 002	SSA 4 5 R2102620 015	SSB 4 5 R2102620 006	SSA 5 6 R2102620 011	SSA 6 6
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	0.98	0.48	**7.5**	0.088 J	2.7	**15**	**5.8**	**16**	0.28 J	2.0
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**1.5**	0.59	**9.9**	0.11 J	**4.0**	**25**	**9.8 E**	**24 E**	0.46	**3.5**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	2.1	0.61	**13**	0.12 J	5.1	**34**	**13 E**	**30 E**	0.57	4.0
Chrysene	8270D/SVO MW	mg/Kg dry	56	1.6	0.47	11	0.082 J	3.9	24	8.8 E	21 E	0.43	3.1
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.26 J	0.090 J	**1.3 J**	ND	**0.58**	**3.2**	**1.3**	**2.9**	ND	0.48
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.2	0.41	**6.2**	ND	2.8	**17**	**6.9**	**15**	0.38 J	2.9

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	SSA 1 12 R2102621 019	SSB 1 12 R2102621-023	SSA 2 12 R2102621 011	SSB 2 12 R2102621 015	SSA 3 12 R2102621 007	SSB 3 12 R2102621 003	SSA 4 8 R2102620 016	SSB 4 10 R2102620 007	SSA 5 12 R2102620 012	SSA 6 12 R2102620 003
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	0.81	1.1	1.3	1.2	0.53	**7.1**	4.4	**13**	0.49	ND
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**1.2**	**1.4**	**1.7**	**1.3**	0.87	**10**	**7.6**	**21 E**	0.83	ND
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	1.7	1.3	2.0	1.6	1.2	**13**	**10 E**	**27 E**	0.98	ND
Chrysene	8270D/SVO MW	mg/Kg dry	56	1.3	1.1	1.6	1.4	0.80	10	7.1	18 E	0.77	ND
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.19 J	0.19 J	0.23 J	0.19 J	0.14 J	**1.5**	**1.0**	**2.7**	0.11 J	ND
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	0.98	0.89	1.0	0.77	0.67	**7.5**	5.3	**14**	0.66	ND

ANALYTE	METHOD	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	SSA 1 20 R2102621 020	SSB 1 24 R2102621 024	SSA 2 24 R2102621 012	SSB 2 24 R2102621 016	SSA 3 20 R2102621 008	SSB 3 24 R2102621 004	SSA 4 18 R2102620 017	SSB 4 18 R2102620 008	SSA 5 21 / SSA-5 21 DUP R2102620 013 / R2102620 009	SSA 6 23 R2102620 004
Method: 8270D/SVO MW													
Benz(a)anthracene	8270D/SVO MW	mg/Kg dry	5.6	2.6	**6.8**	0.48	0.27 J	0.48	1.5	3.1	0.087 J	ND / ND	2.8
Benzo(a)pyrene	8270D/SVO MW	mg/Kg dry	1	**2.9**	**7.1**	0.63	0.31 J	0.80	**2.2**	**5.2**	0.12 J	ND / ND	**4.8**
Benzo(b)fluoranthene	8270D/SVO MW	mg/Kg dry	5.6	3.1	**7.1**	0.84	0.36 J	1.1	2.9	**6.8**	0.15 J	ND / ND	**5.8**
Chrysene	8270D/SVO MW	mg/Kg dry	56	2.5	6.0	0.63	0.28 J	0.78	2.4	5.0	0.12 J	ND / ND	4.3
Dibenz(a,h)anthracene	8270D/SVO MW	mg/Kg dry	0.56	0.38 J	**0.94**	0.088 J	ND	0.12 J	0.33 J	**0.69**	ND	ND / ND	**0.69**
Indeno(1,2,3 cd)pyrene	8270D/SVO MW	mg/Kg dry	5.6	1.8	3.6	0.44	0.17 J	0.60	1.7	3.8	ND	ND / ND	4.1

Notes
MDL = Method Detection Limit.
ND = Not Detected, or < MDL.
J = Concentration below reporting limit but above MDL.
E = Estimated concentration.
Bold/Shade = Exceeds RCSCOs

TABLE 2
Remedial Investigation
Soil Sample Exceedances 0 to 2-inch Sample Interval
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

ANALYTE	UNITS	- 6NYCRR 375-6.8 Soil Cleanup - Restricted Use - Commercial	- SS 1 0-2	- SS 2 0-2	- SS 3 0-2	- SS 4 0-2
Method: 8270D/SVO MW			**Remedial Inv.**	**Remedial Inv.**	**Remedial Inv.**	**Remedial Inv.**
			R1911946 008	**R1911946 009**	**R1911946 010**	**R1911946 011**
Benz(a)anthracene	mg/Kg dry	5.6	**7.1**	**6.3**	**52 D**	**36 D**
Benzo(a)pyrene	mg/Kg dry	1	**9.8**	**8.2**	**70 D**	**45 D**
Benzo(b)fluoranthene	mg/Kg dry	5.6	**17 D**	**13.0**	**110 D**	**69 D**
Chrysene	mg/Kg dry	56	9.9	9.5	**73 D**	48 D
Dibenz(a,h)anthracene	mg/Kg dry	0.56	**1.8**	**1.4 J**	**11.0**	**7.1**
Indeno(1,2,3 cd)pyrene	mg/Kg dry	5.6	**8.5**	**6.8**	**64 D**	**42 D**

TABLE 3
Supplemental RI Indoor Air and Sub-slab Sample Results
Former Bisonite Paint Company
Site C915010
Tonawanda, New York

Sample ID	IA-1	SS-1	SS-2	IA-2	OA-1
Lab ID	L531971-1	L531971-2	L531971-3	L531971-4	L531971-5
Compound	Result	Result	Result	Result	Result
METHYLENE CHLORIDE	24	ND	ND	16	ND
TETRACHLOROETHYLENE	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND
CHLOROFORM	ND	ND	ND	ND	ND
PROPYLENE	ND	410	180	ND	ND
N-BUTANE	5.6	1400	530	4.7	ND
ACETONE	58	420	240	49	ND
ISOPROPYL ALCOHOL	ND	0.033	0.042	ND	ND
PENTANE	5.8	760	320	3.6	ND
CARBON DISULFIDE	ND	50	25	ND	ND
VINYL ACETATE	ND	240	140	ND	ND
METHYL ETHYL KETONE	5	29	3.5	4.2	ND
HEXANE	ND	320	150	ND	ND
ETHYL ACETATE	28	160	380	27	5.7
BENZENE	ND	5.7	3	ND	ND
CYCLOHEXANE	ND	41	30	ND	ND
HEPTANE	ND	83	25	ND	ND
METHYL ISOBUTYL KETONE	ND	6.4	ND	ND	ND
TOLUENE	11	110	5	8.4	ND
METHYL BUTYL KETONE	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND
ETHYLBENZENE	ND	ND	ND	ND	ND
M,P-XYLENES	ND	ND	ND	ND	ND
O-XYLENE	ND	ND	ND	ND	ND
CUMENE	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	ND	ND
NAPHTHALENE	ND	ND	ND	ND	ND

Appendix A

Soil Laboratory Results

April 13, 2021

Service Request No:R2102621

Frank Thomas
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Former Bisonite

Dear Frank,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **R2102621.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Peter von
Schondorf

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dba ALS Environmental

Narrative Documents

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ALS Environmental

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite **Date Received:** 03/19/2021
Sample Matrix: Soil

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Twenty four soil samples were received for analysis at ALS Environmental on 03/19/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, R2102621-003 DL: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The surrogate was within limits for the original analysis. Results confirm.
Method 8270D, 03/27/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. The discrepancy associated with reduced recovery equates to a potential low bias. Samples are being re-extracted. The analytes affected are flagged in the LCS Summary.

Method 8270D, 03/27/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. No further corrective action was required.

Method 8270D, 03/27/2021: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. Batch is being re-extractes for failed QC.

Method 8270D, R2102621-008, -011, -012, -018: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The elevated recovery equates to a high bias. These samples had hits > PQL and are being re-extracted for failed QC.
Method 8270D, 718115: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.
Method 8270D, 04/02/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. The LCS/LCSD are within limits for all anlytes. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by ____________________ Date 04/13/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 0-2			Lab ID: R2102621-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	67.8				Percent	ALS SOP
Acenaphthene	130	J	92	490	ug/Kg	8270D
Acenaphthylene	140	J	98	490	ug/Kg	8270D
Anthracene	680		81	490	ug/Kg	8270D
Benz(a)anthracene	4900		72	490	ug/Kg	8270D
Benzo(a)pyrene	8700		130	490	ug/Kg	8270D
Benzo(b)fluoranthene	12000	E	81	490	ug/Kg	8270D
Benzo(g,h,i)perylene	7000		120	490	ug/Kg	8270D
Benzo(k)fluoranthene	4100		79	490	ug/Kg	8270D
Chrysene	7900		72	490	ug/Kg	8270D
Dibenz(a,h)anthracene	1300		110	490	ug/Kg	8270D
Fluoranthene	12000	E	130	490	ug/Kg	8270D
Fluorene	210	J	91	490	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6700		160	490	ug/Kg	8270D
Naphthalene	95	J	91	490	ug/Kg	8270D
Phenanthrene	4700		69	490	ug/Kg	8270D
Pyrene	10000	E	81	490	ug/Kg	8270D
Anthracene	700	DJ	170	970	ug/Kg	8270D
Benz(a)anthracene	5300	D	150	970	ug/Kg	8270D
Benzo(a)pyrene	9200	D	260	970	ug/Kg	8270D
Benzo(b)fluoranthene	12000	D	170	970	ug/Kg	8270D
Benzo(g,h,i)perylene	6300	D	230	970	ug/Kg	8270D
Benzo(k)fluoranthene	3900	D	160	970	ug/Kg	8270D
Chrysene	8500	D	150	970	ug/Kg	8270D
Dibenz(a,h)anthracene	1200	D	220	970	ug/Kg	8270D
Fluoranthene	15000	D	250	970	ug/Kg	8270D
Fluorene	210	DJ	190	970	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6400	D	320	970	ug/Kg	8270D
Phenanthrene	5000	D	140	970	ug/Kg	8270D
Pyrene	12000	D	170	970	ug/Kg	8270D

CLIENT ID: SSB-3 6			Lab ID: R2102621-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.5				Percent	ALS SOP
Anthracene	1900	J	330	2000	ug/Kg	8270D
Benz(a)anthracene	15000		300	2000	ug/Kg	8270D
Benzo(a)pyrene	25000		530	2000	ug/Kg	8270D
Benzo(b)fluoranthene	34000		330	2000	ug/Kg	8270D
Benzo(g,h,i)perylene	17000		460	2000	ug/Kg	8270D
Benzo(k)fluoranthene	11000		320	2000	ug/Kg	8270D
Chrysene	24000		290	2000	ug/Kg	8270D
Dibenz(a,h)anthracene	3200		430	2000	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 6	Lab ID: R2102621-002					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	41000	E	500	2000	ug/Kg	8270D
Fluorene	570	J	370	2000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	17000		640	2000	ug/Kg	8270D
Phenanthrene	15000		280	2000	ug/Kg	8270D
Pyrene	34000		330	2000	ug/Kg	8270D
Anthracene	2000	DJ	660	4000	ug/Kg	8270D
Benz(a)anthracene	16000	D	590	4000	ug/Kg	8270D
Benzo(a)pyrene	27000	D	1100	4000	ug/Kg	8270D
Benzo(b)fluoranthene	35000	D	660	4000	ug/Kg	8270D
Benzo(g,h,i)perylene	20000	D	910	4000	ug/Kg	8270D
Benzo(k)fluoranthene	12000	D	640	4000	ug/Kg	8270D
Chrysene	26000	D	580	4000	ug/Kg	8270D
Dibenz(a,h)anthracene	3900	DJ	860	4000	ug/Kg	8270D
Fluoranthene	50000	D	990	4000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	20000	D	1300	4000	ug/Kg	8270D
Phenanthrene	17000	D	560	4000	ug/Kg	8270D
Pyrene	39000	D	660	4000	ug/Kg	8270D

CLIENT ID: SSB-3 12	Lab ID: R2102621-003					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	89.7				Percent	ALS SOP
Acenaphthene	510	J	220	1100	ug/Kg	8270D
Anthracene	1400		190	1100	ug/Kg	8270D
Benz(a)anthracene	7100		170	1100	ug/Kg	8270D
Benzo(a)pyrene	10000		300	1100	ug/Kg	8270D
Benzo(b)fluoranthene	13000		190	1100	ug/Kg	8270D
Benzo(g,h,i)perylene	7800		260	1100	ug/Kg	8270D
Benzo(k)fluoranthene	4800		190	1100	ug/Kg	8270D
Chrysene	10000		170	1100	ug/Kg	8270D
Dibenz(a,h)anthracene	1500		250	1100	ug/Kg	8270D
Fluoranthene	18000		290	1100	ug/Kg	8270D
Fluorene	580	J	220	1100	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	7500		370	1100	ug/Kg	8270D
Phenanthrene	8000		160	1100	ug/Kg	8270D
Pyrene	15000		190	1100	ug/Kg	8270D

CLIENT ID: SSB-3 24	Lab ID: R2102621-004					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.6				Percent	ALS SOP
Anthracene	230	J	140	780	ug/Kg	8270D
Benz(a)anthracene	1500		120	780	ug/Kg	8270D
Benzo(a)pyrene	2200		210	780	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-3 24	Lab ID: R2102621-004					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Benzo(b)fluoranthene	2900		130	780	ug/Kg	8270D
Benzo(g,h,i)perylene	1800		180	780	ug/Kg	8270D
Benzo(k)fluoranthene	1100		130	780	ug/Kg	8270D
Chrysene	2400		120	780	ug/Kg	8270D
Dibenz(a,h)anthracene	330	J	170	780	ug/Kg	8270D
Fluoranthene	4400		200	780	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1700		260	780	ug/Kg	8270D
Phenanthrene	1700		120	780	ug/Kg	8270D
Pyrene	3500		130	780	ug/Kg	8270D

CLIENT ID: SSA-3 0-2	Lab ID: R2102621-005					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.3				Percent	ALS SOP
Anthracene	690	J	210	1200	ug/Kg	8270D
Benz(a)anthracene	4000		190	1200	ug/Kg	8270D
Benzo(a)pyrene	6100		330	1200	ug/Kg	8270D
Benzo(b)fluoranthene	7600		210	1200	ug/Kg	8270D
Benzo(g,h,i)perylene	4800		290	1200	ug/Kg	8270D
Benzo(k)fluoranthene	2800		200	1200	ug/Kg	8270D
Chrysene	5900		180	1200	ug/Kg	8270D
Dibenz(a,h)anthracene	920	J	270	1200	ug/Kg	8270D
Fluoranthene	10000		310	1200	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	4600		400	1200	ug/Kg	8270D
Phenanthrene	3800		180	1200	ug/Kg	8270D
Pyrene	8200		210	1200	ug/Kg	8270D

CLIENT ID: SSA-3 6	Lab ID: R2102621-006					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	71.6				Percent	ALS SOP
Anthracene	460		76	450	ug/Kg	8270D
Benz(a)anthracene	2700		68	450	ug/Kg	8270D
Benzo(a)pyrene	4000		130	450	ug/Kg	8270D
Benzo(b)fluoranthene	5100		76	450	ug/Kg	8270D
Benzo(g,h,i)perylene	2900		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	1700		73	450	ug/Kg	8270D
Chrysene	3900		67	450	ug/Kg	8270D
Dibenz(a,h)anthracene	580		99	450	ug/Kg	8270D
Fluoranthene	6800		120	450	ug/Kg	8270D
Fluorene	130	J	85	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2800		150	450	ug/Kg	8270D
Phenanthrene	2800		64	450	ug/Kg	8270D
Pyrene	5500		76	450	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-3 12	Lab ID: R2102621-007					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	75.6				Percent	ALS SOP
Anthracene	92	J	75	450	ug/Kg	8270D
Benz(a)anthracene	530		67	450	ug/Kg	8270D
Benzo(a)pyrene	870		120	450	ug/Kg	8270D
Benzo(b)fluoranthene	1200		75	450	ug/Kg	8270D
Benzo(g,h,i)perylene	720		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	410	J	73	450	ug/Kg	8270D
Chrysene	800		66	450	ug/Kg	8270D
Dibenz(a,h)anthracene	140	J	98	450	ug/Kg	8270D
Fluoranthene	1300		120	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	670		150	450	ug/Kg	8270D
Phenanthrene	560		64	450	ug/Kg	8270D
Pyrene	1100		75	450	ug/Kg	8270D

CLIENT ID: SSA-3 20	Lab ID: R2102621-008					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	70.8				Percent	ALS SOP
Benz(a)anthracene	480		70	470	ug/Kg	8270D
Benzo(a)pyrene	800		130	470	ug/Kg	8270D
Benzo(b)fluoranthene	1100		79	470	ug/Kg	8270D
Benzo(g,h,i)perylene	620		110	470	ug/Kg	8270D
Benzo(k)fluoranthene	350	J	76	470	ug/Kg	8270D
Chrysene	780		69	470	ug/Kg	8270D
Dibenz(a,h)anthracene	120	J	110	470	ug/Kg	8270D
Fluoranthene	1200		120	470	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	600		160	470	ug/Kg	8270D
Phenanthrene	490		67	470	ug/Kg	8270D
Pyrene	1000		78	470	ug/Kg	8270D

CLIENT ID: SSA-2 0-2	Lab ID: R2102621-009					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	55.6				Percent	ALS SOP
Acenaphthene	420	J	350	1800	ug/Kg	8270D
Anthracene	1600	J	310	1800	ug/Kg	8270D
Benz(a)anthracene	7200		270	1800	ug/Kg	8270D
Benzo(a)pyrene	9400		490	1800	ug/Kg	8270D
Benzo(b)fluoranthene	12000		310	1800	ug/Kg	8270D
Benzo(g,h,i)perylene	6500		420	1800	ug/Kg	8270D
Benzo(k)fluoranthene	4200		300	1800	ug/Kg	8270D
Chrysene	9900		270	1800	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	J	400	1800	ug/Kg	8270D
Fluoranthene	22000		460	1800	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-2 0-2			Lab ID: R2102621-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluorene	650	J	340	1800	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6400		590	1800	ug/Kg	8270D
Phenanthrene	12000		260	1800	ug/Kg	8270D
Pyrene	18000		310	1800	ug/Kg	8270D

CLIENT ID: SSA-2 6			Lab ID: R2102621-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	69.4				Percent	ALS SOP
Acenaphthene	790	J	460	2400	ug/Kg	8270D
Anthracene	1700	J	410	2400	ug/Kg	8270D
Benz(a)anthracene	7500		360	2400	ug/Kg	8270D
Benzo(a)pyrene	9900		640	2400	ug/Kg	8270D
Benzo(b)fluoranthene	13000		400	2400	ug/Kg	8270D
Benzo(g,h,i)perylene	6300		550	2400	ug/Kg	8270D
Benzo(k)fluoranthene	5100		390	2400	ug/Kg	8270D
Chrysene	11000		360	2400	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	J	530	2400	ug/Kg	8270D
Fluoranthene	29000		610	2400	ug/Kg	8270D
Fluorene	1200	J	450	2400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6200		780	2400	ug/Kg	8270D
Phenanthrene	20000		340	2400	ug/Kg	8270D
Pyrene	22000		400	2400	ug/Kg	8270D

CLIENT ID: SSA-2 12			Lab ID: R2102621-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.4				Percent	ALS SOP
Acenaphthene	160	J	80	420	ug/Kg	8270D
Anthracene	420	J	70	420	ug/Kg	8270D
Benz(a)anthracene	1300		63	420	ug/Kg	8270D
Benzo(a)pyrene	1700		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	2000		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	1000		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	780		68	420	ug/Kg	8270D
Chrysene	1600		62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	230	J	91	420	ug/Kg	8270D
Fluoranthene	3200		110	420	ug/Kg	8270D
Fluorene	190	J	79	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1000		140	420	ug/Kg	8270D
Phenanthrene	1900		60	420	ug/Kg	8270D
Pyrene	2600		70	420	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-2 24			Lab ID: R2102621-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	80.7				Percent	ALS SOP
Anthracene	110	J	68	400	ug/Kg	8270D
Benz(a)anthracene	480		60	400	ug/Kg	8270D
Benzo(a)pyrene	630		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	840		68	400	ug/Kg	8270D
Benzo(g,h,i)perylene	430		93	400	ug/Kg	8270D
Benzo(k)fluoranthene	290	J	66	400	ug/Kg	8270D
Chrysene	630		60	400	ug/Kg	8270D
Dibenz(a,h)anthracene	88	J	88	400	ug/Kg	8270D
Fluoranthene	1300		110	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	440		130	400	ug/Kg	8270D
Phenanthrene	580		57	400	ug/Kg	8270D
Pyrene	1000		67	400	ug/Kg	8270D

CLIENT ID: SSB-2 0-2			Lab ID: R2102621-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.2				Percent	ALS SOP
Anthracene	120	J	68	410	ug/Kg	8270D
Benz(a)anthracene	380	J	61	410	ug/Kg	8270D
Benzo(a)pyrene	490		110	410	ug/Kg	8270D
Benzo(b)fluoranthene	630		68	410	ug/Kg	8270D
Benzo(g,h,i)perylene	330	J	93	410	ug/Kg	8270D
Benzo(k)fluoranthene	220	J	66	410	ug/Kg	8270D
Chrysene	430		60	410	ug/Kg	8270D
Fluoranthene	760		110	410	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	320	J	140	410	ug/Kg	8270D
Phenanthrene	400	J	58	410	ug/Kg	8270D
Pyrene	640		68	410	ug/Kg	8270D

CLIENT ID: SSB-2 6			Lab ID: R2102621-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.1				Percent	ALS SOP
Benz(a)anthracene	88	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	110	J	99	370	ug/Kg	8270D
Benzo(b)fluoranthene	120	J	62	370	ug/Kg	8270D
Chrysene	82	J	55	370	ug/Kg	8270D
Fluoranthene	160	J	93	370	ug/Kg	8270D
Phenanthrene	75	J	53	370	ug/Kg	8270D
Pyrene	130	J	62	370	ug/Kg	8270D

CLIENT ID: SSB-2 12			Lab ID: R2102621-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.4				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-2 12			Lab ID: R2102621-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthene	78	J	72	380	ug/Kg	8270D
Anthracene	270	J	64	380	ug/Kg	8270D
Benz(a)anthracene	1200		57	380	ug/Kg	8270D
Benzo(a)pyrene	1300		110	380	ug/Kg	8270D
Benzo(b)fluoranthene	1600		64	380	ug/Kg	8270D
Benzo(g,h,i)perylene	730		87	380	ug/Kg	8270D
Benzo(k)fluoranthene	620		62	380	ug/Kg	8270D
Chrysene	1400		56	380	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	83	380	ug/Kg	8270D
Fluoranthene	2900		95	380	ug/Kg	8270D
Fluorene	83	J	71	380	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	770		130	380	ug/Kg	8270D
Phenanthrene	1200		54	380	ug/Kg	8270D
Pyrene	2400		63	380	ug/Kg	8270D

CLIENT ID: SSB-2 24			Lab ID: R2102621-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.4				Percent	ALS SOP
Anthracene	88	J	62	370	ug/Kg	8270D
Benz(a)anthracene	270	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	310	J	98	370	ug/Kg	8270D
Benzo(b)fluoranthene	360	J	62	370	ug/Kg	8270D
Benzo(g,h,i)perylene	190	J	85	370	ug/Kg	8270D
Benzo(k)fluoranthene	140	J	60	370	ug/Kg	8270D
Chrysene	280	J	54	370	ug/Kg	8270D
Fluoranthene	590		93	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	170	J	120	370	ug/Kg	8270D
Phenanthrene	340	J	52	370	ug/Kg	8270D
Pyrene	480		61	370	ug/Kg	8270D

CLIENT ID: SSA-1 0-2			Lab ID: R2102621-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.2				Percent	ALS SOP
Acenaphthene	110	J	76	400	ug/Kg	8270D
Anthracene	270	J	67	400	ug/Kg	8270D
Benz(a)anthracene	1500		59	400	ug/Kg	8270D
Benzo(a)pyrene	2400		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	3400		67	400	ug/Kg	8270D
Benzo(g,h,i)perylene	1600		92	400	ug/Kg	8270D
Benzo(k)fluoranthene	1200		65	400	ug/Kg	8270D
Chrysene	2500		59	400	ug/Kg	8270D
Dibenz(a,h)anthracene	300	J	87	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-1 0-2	Lab ID: R2102621-017					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	4800		100	400	ug/Kg	8270D
Fluorene	140	J	75	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1600		130	400	ug/Kg	8270D
Phenanthrene	2300		57	400	ug/Kg	8270D
Pyrene	3800		67	400	ug/Kg	8270D

CLIENT ID: SSA-1 6	Lab ID: R2102621-018					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	87.9				Percent	ALS SOP
2-Methylnaphthalene	100	J	63	380	ug/Kg	8270D
Anthracene	150	J	63	380	ug/Kg	8270D
Benz(a)anthracene	980		56	380	ug/Kg	8270D
Benzo(a)pyrene	1500		100	380	ug/Kg	8270D
Benzo(b)fluoranthene	2100		63	380	ug/Kg	8270D
Benzo(g,h,i)perylene	1300		87	380	ug/Kg	8270D
Benzo(k)fluoranthene	690		61	380	ug/Kg	8270D
Chrysene	1600		56	380	ug/Kg	8270D
Dibenz(a,h)anthracene	260	J	82	380	ug/Kg	8270D
Fluoranthene	2700		95	380	ug/Kg	8270D
Fluorene	74	J	71	380	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1200		130	380	ug/Kg	8270D
Phenanthrene	1100		54	380	ug/Kg	8270D
Pyrene	2300		63	380	ug/Kg	8270D

CLIENT ID: SSA-1 12	Lab ID: R2102621-019					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.9				Percent	ALS SOP
Anthracene	150	J	62	370	ug/Kg	8270D
Benz(a)anthracene	810		55	370	ug/Kg	8270D
Benzo(a)pyrene	1200		98	370	ug/Kg	8270D
Benzo(b)fluoranthene	1700		61	370	ug/Kg	8270D
Benzo(g,h,i)perylene	1000		84	370	ug/Kg	8270D
Benzo(k)fluoranthene	560		60	370	ug/Kg	8270D
Chrysene	1300		54	370	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	80	370	ug/Kg	8270D
Fluoranthene	2300		92	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	980		120	370	ug/Kg	8270D
Phenanthrene	1000		52	370	ug/Kg	8270D
Pyrene	1900		61	370	ug/Kg	8270D

CLIENT ID: SSA-1 20	Lab ID: R2102621-020					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.0				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-1 20			Lab ID: R2102621-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Methylnaphthalene	110	J	65	390	ug/Kg	8270D
Acenaphthene	690		74	390	ug/Kg	8270D
Anthracene	1500		66	390	ug/Kg	8270D
Benz(a)anthracene	2600		58	390	ug/Kg	8270D
Benzo(a)pyrene	2900		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	3100		66	390	ug/Kg	8270D
Benzo(g,h,i)perylene	1700		90	390	ug/Kg	8270D
Benzo(k)fluoranthene	1200		63	390	ug/Kg	8270D
Chrysene	2500		58	390	ug/Kg	8270D
Dibenz(a,h)anthracene	380	J	85	390	ug/Kg	8270D
Fluoranthene	6100		98	390	ug/Kg	8270D
Fluorene	730		73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1800		130	390	ug/Kg	8270D
Naphthalene	260	J	74	390	ug/Kg	8270D
Phenanthrene	5400		56	390	ug/Kg	8270D
Pyrene	5100		65	390	ug/Kg	8270D

CLIENT ID: SSB-1 0-2			Lab ID: R2102621-021			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.8				Percent	ALS SOP
Anthracene	210	J	71	420	ug/Kg	8270D
Benz(a)anthracene	760		63	420	ug/Kg	8270D
Benzo(a)pyrene	1000		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	1100		71	420	ug/Kg	8270D
Benzo(g,h,i)perylene	660		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	390	J	69	420	ug/Kg	8270D
Chrysene	840		62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	160	J	92	420	ug/Kg	8270D
Fluoranthene	1500		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	650		140	420	ug/Kg	8270D
Phenanthrene	800		60	420	ug/Kg	8270D
Pyrene	1200		71	420	ug/Kg	8270D

CLIENT ID: SSB-1 6			Lab ID: R2102621-022			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	85.4				Percent	ALS SOP
Anthracene	160	J	67	400	ug/Kg	8270D
Benz(a)anthracene	480		60	400	ug/Kg	8270D
Benzo(a)pyrene	590		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	610		67	400	ug/Kg	8270D
Benzo(g,h,i)perylene	430		92	400	ug/Kg	8270D
Benzo(k)fluoranthene	220	J	65	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-1 6	Lab ID: R2102621-022					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chrysene	470		59	400	ug/Kg	8270D
Dibenz(a,h)anthracene	90	J	87	400	ug/Kg	8270D
Fluoranthene	920		100	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	410		130	400	ug/Kg	8270D
Phenanthrene	600		57	400	ug/Kg	8270D
Pyrene	760		67	400	ug/Kg	8270D

CLIENT ID: SSB-1 12	Lab ID: R2102621-023					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.2				Percent	ALS SOP
Acenaphthene	150	J	73	390	ug/Kg	8270D
Anthracene	370	J	65	390	ug/Kg	8270D
Benz(a)anthracene	1100		58	390	ug/Kg	8270D
Benzo(a)pyrene	1400		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	1300		65	390	ug/Kg	8270D
Benzo(g,h,i)perylene	850		89	390	ug/Kg	8270D
Benzo(k)fluoranthene	490		63	390	ug/Kg	8270D
Chrysene	1100		57	390	ug/Kg	8270D
Dibenz(a,h)anthracene	190	J	84	390	ug/Kg	8270D
Fluoranthene	2400		97	390	ug/Kg	8270D
Fluorene	130	J	73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	890		130	390	ug/Kg	8270D
Phenanthrene	1400		55	390	ug/Kg	8270D
Pyrene	1800		65	390	ug/Kg	8270D

CLIENT ID: SSB-1 24	Lab ID: R2102621-024					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	86.9				Percent	ALS SOP
2-Methylnaphthalene	150	J	64	390	ug/Kg	8270D
Acenaphthene	820		73	390	ug/Kg	8270D
Acenaphthylene	94	J	78	390	ug/Kg	8270D
Anthracene	3100		65	390	ug/Kg	8270D
Benz(a)anthracene	6800		58	390	ug/Kg	8270D
Benzo(a)pyrene	7100		110	390	ug/Kg	8270D
Benzo(b)fluoranthene	7100		65	390	ug/Kg	8270D
Benzo(g,h,i)perylene	2900		89	390	ug/Kg	8270D
Benzo(k)fluoranthene	2600		63	390	ug/Kg	8270D
Chrysene	6000		57	390	ug/Kg	8270D
Dibenz(a,h)anthracene	940		84	390	ug/Kg	8270D
Fluoranthene	10000	E	97	390	ug/Kg	8270D
Fluorene	1100		73	390	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	3600		130	390	ug/Kg	8270D

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SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-1 24	Lab ID: R2102621-024					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Naphthalene	210	J	73	390	ug/Kg	8270D
Phenanthrene	7500		55	390	ug/Kg	8270D
Pyrene	8300	E	65	390	ug/Kg	8270D
2-Methylnaphthalene	180	DJ	130	770	ug/Kg	8270D
Acenaphthene	970	D	150	770	ug/Kg	8270D
Anthracene	3600	D	130	770	ug/Kg	8270D
Benz(a)anthracene	8200	D	120	770	ug/Kg	8270D
Benzo(a)pyrene	8500	D	210	770	ug/Kg	8270D
Benzo(b)fluoranthene	8300	D	130	770	ug/Kg	8270D
Benzo(g,h,i)perylene	4300	D	180	770	ug/Kg	8270D
Benzo(k)fluoranthene	3300	D	130	770	ug/Kg	8270D
Chrysene	7300	D	120	770	ug/Kg	8270D
Dibenz(a,h)anthracene	1300	D	170	770	ug/Kg	8270D
Fluoranthene	15000	D	200	770	ug/Kg	8270D
Fluorene	1300	D	150	770	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5000	D	250	770	ug/Kg	8270D
Naphthalene	230	DJ	150	770	ug/Kg	8270D
Phenanthrene	10000	D	110	770	ug/Kg	8270D
Pyrene	11000	D	130	770	ug/Kg	8270D

Sample Receipt Information

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Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2102621-001	SSB-3 0-2	3/18/2021	1235
R2102621-002	SSB-3 6	3/18/2021	1242
R2102621-003	SSB-3 12	3/18/2021	1245
R2102621-004	SSB-3 24	3/18/2021	1250
R2102621-005	SSA-3 0-2	3/18/2021	1300
R2102621-006	SSA-3 6	3/18/2021	1305
R2102621-007	SSA-3 12	3/18/2021	1310
R2102621-008	SSA-3 20	3/18/2021	1312
R2102621-009	SSA-2 0-2	3/18/2021	1320
R2102621-010	SSA-2 6	3/18/2021	1322
R2102621-011	SSA-2 12	3/18/2021	1325
R2102621-012	SSA-2 24	3/18/2021	1330
R2102621-013	SSB-2 0-2	3/18/2021	1340
R2102621-014	SSB-2 6	3/18/2021	1342
R2102621-015	SSB-2 12	3/18/2021	1345
R2102621-016	SSB-2 24	3/18/2021	1347
R2102621-017	SSA-1 0-2	3/18/2021	1350
R2102621-018	SSA-1 6	3/18/2021	1355
R2102621-019	SSA-1 12	3/18/2021	1400
R2102621-020	SSA-1 20	3/18/2021	1405
R2102621-021	SSB-1 0-2	3/18/2021	1410
R2102621-022	SSB-1 6	3/18/2021	1415
R2102621-023	SSB-1 12	3/18/2021	1420
R2102621-024	SSB-1 24	3/18/2021	1430

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

003868

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 3 OF 5

Project Name: Former Bisonite	Project Number: 235.198A
Project Manager: Frank Thomas	Report CC: Pete vonSchondorf & Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Rd., Pittsford, NY 14534	
Phone #: 585-248-2413	Email: fthomas@leaderlink.com
Sampler's Signature: [illegible]	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 400

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ______

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8270 PAH						REMARKS/ ALTERNATE DESCRIPTION
SSB-3 ~~24"~~ 0-2"		3/18/21	12:35	SO									X						
SSB-3 6"			12:42										X						
SSB-3 12"			12:45										X						
SSB-3 24"			12:50										X						
SSA-3 0-2"			13:00										X						
SSA-3 6"			13:05										X						
SSA-3 12"			13:10										X						
SSA-3 20"			13:12										X						

SPECIAL INSTRUCTIONS/COMMENTS
Metals

above correction made as per Frank Thomas dw 3/23/21

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE ______

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata X Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature		[illegible]				
Printed Name		Daniel Ward				
Firm		ALS				
Date/Time		3/19/21 / 1650				

R2102621 5
Leader Professional Services, Inc.
Former Bisonite

Distribution: White - Lab Copy; Yellow - Return to Originator

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004562

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 4 OF 5

Project Name: Former Bisonite	Project Number: 235.198A
Project Manager: Frank Thomas	Report CC: Pete vonSchondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Rd, Pittsford, NY 14534	
Phone #: 585 248-2413	Email: fthomas@leaderlink.com
Sampler's Signature: Frank Thomas	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs 8260 624 CLP	GC/MS SVOAs 8270 625	GC VOAs 8021 601/602	PESTICIDES 8081 608	PCBs 8082 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8270 PAH (Preservative: 4°)							REMARKS/ ALTERNATE DESCRIPTION
SSA-2 0-2"		3/18/21	1320	SO									X							
SSA-2 6"			1322										X							
SSA-2 12"			1325										X							
SSA-2 24"			1330										X							
SSB-2 0-2"			1340										X							
SSB-2 6"			1342										X							
SSB-2 12"			1345										X							
SSB-2 24"			1347										X							

SPECIAL INSTRUCTIONS/COMMENTS
Metals —

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE ____

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data

Edata ✓ Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature		Daniel Ward				
Printed Name		Daniel Ward				
Firm		ALS				
Date/Time		3/19/21/1650				

R2102621 5
Leader Professional Services, Inc.
Former Bisonite

Distribution: White - Lab Copy; Yellow - Return to Originator

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004563

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 5 OF 5

Project Name: Former Bisonite
Project Number: 235.198A
Project Manager:
Report CC: Pete Unschondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Rd, Pittsford, NY 14534
Phone #: 585 248-2413
Email: fthomas@leaderlink.com
Sampler's Signature:
Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 4°

Analysis columns: NUMBER OF CONTAINERS; GC/MS VOAs ○8260 ○624 ○CLP; GC/MS SVOAs ○8270 ○625; GC VOAs ○8021 ○601/602; PESTICIDES ○8081 ○608; PCBs ○8082 ○608; METALS, TOTAL (List in comments below); METALS, DISSOLVED (List in comments below); 8270 PAH

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ______

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8270 PAH	REMARKS/ ALTERNATE DESCRIPTION
SSA-1 0-2"		3/18/21	13:50	SO	X	
SSA-1 6"			1355		X	
SSA-1 12"			1400		X	
SSA-1 20"			1405		X	
SSB-1 0-2"			1410		X	
SSB-1 6"			1415		X	
SSB-1 12"			1420		X	
SSB-1 24"			1430		X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
✓ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE
____

REPORT REQUIREMENTS
____ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata X Yes ____ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature		Daniel Ward				
Printed Name		Daniel Ward				
Firm		ALS				
Date/Time		3/19/21/1650				

R2102621 5
Leader Professional Services, Inc.
Former Bisonite

Distribution: White - Lab Copy; Yellow - Return to Originator

R2102621 5
Leader Professional Services, Inc.
Former Bisonite

ALS

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number

Cooler received on 3/19/21 by: [illegible] COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice Dry Ice Gel packs** present?	Y N	7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 3/19/21 Time: 1705 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	6.90							
Within 0-6°C?	Y N*	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: ____ Ice melted Poorly Packed (described below)* Same Day Rule

&Client Approval to Run Samples: ____ Standing Approval Client aware at drop-off Client notified by: ____

All samples held in storage location: R002 by [illegible] on 3/19/21 at 1705
5035 samples placed in storage location: ____ by ____ on ____ at ____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date : 3/22/21 Time: 1336 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 101 920 - 1512
Explain all Discrepancies/ Other Comments:
* Not enough gel packs provided to cool samples down.

SSB3 2-4 on COC
SSB3 0-2 on bottle
time matches

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: [illegible] 3/23/21

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r19.doc 03/02/2021

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102621-001.01					
	8270D,ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-002.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-003.01					
	ALS SOP,8270D,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0844	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-004.01					
	8270D,ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-005.01					
	ALS SOP,8270D,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-006.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-007.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-008.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-009.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-010.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-011.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-012.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-013.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-014.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-015.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-016.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-017.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-018.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-019.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	

Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	ALS SOP,8270D,8270D				
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-020.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0845	In Lab / KSERCU	
		3/25/2021	1057	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-021.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
		3/25/2021	0844	In Lab / KSERCU	
		3/25/2021	1056	R-002 / KSERCU	
		3/30/2021	1012	In Lab / VSTAUFFER	
		3/30/2021	1609	R-002 / VSTAUFFER	
R2102621-022.01					
	ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-023.01					
	ALS SOP,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	
R2102621-024.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1348	R-002 / GLAFORCE	
		3/22/2021	1350	SMO / GLAFORCE	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

ACCREDITED IN ACCORDANCE WITH nelac

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryõs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client: Leader Professional Services, Inc.
Project: Former Bisonite/235.198A
Service Request: R2102621

Sample Name: SSB-3 0-2
Lab Code: R2102621-001
Sample Matrix: Soil
Date Collected: 03/18/21
Date Received: 03/19/21

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-3 0-2
Lab Code: R2102621-001.R01
Sample Matrix: Soil
Date Collected: 03/18/21
Date Received: 03/19/21

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 6
Lab Code: R2102621-002
Sample Matrix: Soil
Date Collected: 03/18/21
Date Received: 03/19/21

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-3 6
Lab Code: R2102621-002.R01
Sample Matrix: Soil
Date Collected: 03/18/21
Date Received: 03/19/21

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 12 **Date Collected:** 03/18/21
Lab Code: R2102621-003.R02 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-3 24 **Date Collected:** 03/18/21
Lab Code: R2102621-004.R02 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-005 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-3 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-005.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-3 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-005.R02	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-3 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-006	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-3 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-006.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-3 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-007	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-3 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-007.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-3 20	**Date Collected:**	03/18/21
Lab Code:	R2102621-008	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-3 20	**Date Collected:**	03/18/21
Lab Code:	R2102621-008.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-2 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-009	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-2 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-009.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-2 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-010	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-2 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-010.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-2 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-011	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-2 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-011.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-2 24	**Date Collected:**	03/18/21
Lab Code:	R2102621-012	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-2 24	**Date Collected:**	03/18/21
Lab Code:	R2102621-012.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-2 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-013	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSB-2 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-013.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-2 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-014	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSB-2 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-014.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-2 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-015	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Analyst Summary report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A

Sample Name: SSB-2 12 **Date Collected:** 03/18/21
Lab Code: R2102621-015.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-016 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-2 24 **Date Collected:** 03/18/21
Lab Code: R2102621-016.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSA-1 0-2 **Date Collected:** 03/18/21
Lab Code: R2102621-017 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-1 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-017.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-1 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-018	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-1 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-018.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-1 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-019	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-1 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-019.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-1 20	**Date Collected:**	03/18/21
Lab Code:	R2102621-020	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-1 20	**Date Collected:**	03/18/21
Lab Code:	R2102621-020.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-1 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-021	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSB-1 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102621-021.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-1 6	**Date Collected:**	03/18/21
Lab Code:	R2102621-022	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSB-1 12	**Date Collected:**	03/18/21
Lab Code:	R2102621-023	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSB-1 24	**Date Collected:**	03/18/21
Lab Code:	R2102621-024	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

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dba ALS Environmental

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		

Sample Name:	SSB-1 24	**Date Collected:**	03/18/21
Lab Code:	R2102621-024.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	970	U	970	170	2	03/29/21 21:57	3/24/21	
Acenaphthene	970	U	970	190	2	03/29/21 21:57	3/24/21	
Acenaphthylene	970	U	970	200	2	03/29/21 21:57	3/24/21	
Anthracene	**700**	**DJ**	970	170	2	03/29/21 21:57	3/24/21	
Benz(a)anthracene	**5300**	**D**	970	150	2	03/29/21 21:57	3/24/21	
Benzo(a)pyrene	**9200**	**D**	970	260	2	03/29/21 21:57	3/24/21	
Benzo(b)fluoranthene	**12000**	**D**	970	170	2	03/29/21 21:57	3/24/21	
Benzo(g,h,i)perylene	**6300**	**D**	970	230	2	03/29/21 21:57	3/24/21	
Benzo(k)fluoranthene	**3900**	**D**	970	160	2	03/29/21 21:57	3/24/21	
Chrysene	**8500**	**D**	970	150	2	03/29/21 21:57	3/24/21	
Dibenz(a,h)anthracene	**1200**	**D**	970	220	2	03/29/21 21:57	3/24/21	
Fluoranthene	**15000**	**D**	970	250	2	03/29/21 21:57	3/24/21	
Fluorene	**210**	**DJ**	970	190	2	03/29/21 21:57	3/24/21	
Indeno(1,2,3-cd)pyrene	**6400**	**D**	970	320	2	03/29/21 21:57	3/24/21	
Naphthalene	970	U	970	190	2	03/29/21 21:57	3/24/21	
Phenanthrene	**5000**	**D**	970	140	2	03/29/21 21:57	3/24/21	
Pyrene	**12000**	**D**	970	170	2	03/29/21 21:57	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/29/21 21:57	
Nitrobenzene-d5	51	10 - 95	03/29/21 21:57	
p-Terphenyl-d14	60	10 - 106	03/29/21 21:57	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	490	U	490	81	1	03/26/21 22:18	3/24/21	
Acenaphthene	**130**	**J**	490	92	1	03/26/21 22:18	3/24/21	
Acenaphthylene	**140**	**J**	490	98	1	03/26/21 22:18	3/24/21	
Anthracene	**680**		490	81	1	03/26/21 22:18	3/24/21	
Benz(a)anthracene	**4900**		490	72	1	03/26/21 22:18	3/24/21	
Benzo(a)pyrene	**8700**		490	130	1	03/26/21 22:18	3/24/21	
Benzo(b)fluoranthene	**12000**	**E**	490	81	1	03/26/21 22:18	3/24/21	
Benzo(g,h,i)perylene	**7000**		490	120	1	03/26/21 22:18	3/24/21	
Benzo(k)fluoranthene	**4100**		490	79	1	03/26/21 22:18	3/24/21	
Chrysene	**7900**		490	72	1	03/26/21 22:18	3/24/21	
Dibenz(a,h)anthracene	**1300**		490	110	1	03/26/21 22:18	3/24/21	
Fluoranthene	**12000**	**E**	490	130	1	03/26/21 22:18	3/24/21	
Fluorene	**210**	**J**	490	91	1	03/26/21 22:18	3/24/21	
Indeno(1,2,3-cd)pyrene	**6700**		490	160	1	03/26/21 22:18	3/24/21	
Naphthalene	**95**	**J**	490	91	1	03/26/21 22:18	3/24/21	
Phenanthrene	**4700**		490	69	1	03/26/21 22:18	3/24/21	
Pyrene	**10000**	**E**	490	81	1	03/26/21 22:18	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	03/26/21 22:18	
Nitrobenzene-d5	48	10 - 95	03/26/21 22:18	
p-Terphenyl-d14	58	10 - 106	03/26/21 22:18	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2000	U	2000	330	5	03/29/21 22:25	3/24/21	
Acenaphthene	2000	U	2000	380	5	03/29/21 22:25	3/24/21	
Acenaphthylene	2000	U	2000	400	5	03/29/21 22:25	3/24/21	
Anthracene	**1900**	**J**	2000	330	5	03/29/21 22:25	3/24/21	
Benz(a)anthracene	**15000**		2000	300	5	03/29/21 22:25	3/24/21	
Benzo(a)pyrene	**25000**		2000	530	5	03/29/21 22:25	3/24/21	
Benzo(b)fluoranthene	**34000**		2000	330	5	03/29/21 22:25	3/24/21	
Benzo(g,h,i)perylene	**17000**		2000	460	5	03/29/21 22:25	3/24/21	
Benzo(k)fluoranthene	**11000**		2000	320	5	03/29/21 22:25	3/24/21	
Chrysene	**24000**		2000	290	5	03/29/21 22:25	3/24/21	
Dibenz(a,h)anthracene	**3200**		2000	430	5	03/29/21 22:25	3/24/21	
Fluoranthene	**41000**	**E**	2000	500	5	03/29/21 22:25	3/24/21	
Fluorene	**570**	**J**	2000	370	5	03/29/21 22:25	3/24/21	
Indeno(1,2,3-cd)pyrene	**17000**		2000	640	5	03/29/21 22:25	3/24/21	
Naphthalene	2000	U	2000	370	5	03/29/21 22:25	3/24/21	
Phenanthrene	**15000**		2000	280	5	03/29/21 22:25	3/24/21	
Pyrene	**34000**		2000	330	5	03/29/21 22:25	3/24/21	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/29/21 22:25	
Nitrobenzene-d5	53	10 - 95	03/29/21 22:25	
p-Terphenyl-d14	60	10 - 106	03/29/21 22:25	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4000	U	4000	660	10	03/31/21 21:00	3/24/21	
Acenaphthene	4000	U	4000	750	10	03/31/21 21:00	3/24/21	
Acenaphthylene	4000	U	4000	800	10	03/31/21 21:00	3/24/21	
Anthracene	**2000**	**DJ**	4000	660	10	03/31/21 21:00	3/24/21	
Benz(a)anthracene	**16000**	**D**	4000	590	10	03/31/21 21:00	3/24/21	
Benzo(a)pyrene	**27000**	**D**	4000	1100	10	03/31/21 21:00	3/24/21	
Benzo(b)fluoranthene	**35000**	**D**	4000	660	10	03/31/21 21:00	3/24/21	
Benzo(g,h,i)perylene	**20000**	**D**	4000	910	10	03/31/21 21:00	3/24/21	
Benzo(k)fluoranthene	**12000**	**D**	4000	640	10	03/31/21 21:00	3/24/21	
Chrysene	**26000**	**D**	4000	580	10	03/31/21 21:00	3/24/21	
Dibenz(a,h)anthracene	**3900**	**DJ**	4000	860	10	03/31/21 21:00	3/24/21	
Fluoranthene	**50000**	**D**	4000	990	10	03/31/21 21:00	3/24/21	
Fluorene	4000	U	4000	740	10	03/31/21 21:00	3/24/21	
Indeno(1,2,3-cd)pyrene	**20000**	**D**	4000	1300	10	03/31/21 21:00	3/24/21	
Naphthalene	4000	U	4000	740	10	03/31/21 21:00	3/24/21	
Phenanthrene	**17000**	**D**	4000	560	10	03/31/21 21:00	3/24/21	
Pyrene	**39000**	**D**	4000	660	10	03/31/21 21:00	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	10 - 102	03/31/21 21:00	
Nitrobenzene-d5	57	10 - 95	03/31/21 21:00	
p-Terphenyl-d14	66	10 - 106	03/31/21 21:00	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1100	U	1100	190	3	04/02/21 13:48	3/30/21	
Acenaphthene	**510**	**J**	1100	220	3	04/02/21 13:48	3/30/21	
Acenaphthylene	1100	U	1100	230	3	04/02/21 13:48	3/30/21	
Anthracene	**1400**		1100	190	3	04/02/21 13:48	3/30/21	
Benz(a)anthracene	**7100**		1100	170	3	04/02/21 13:48	3/30/21	
Benzo(a)pyrene	**10000**		1100	300	3	04/02/21 13:48	3/30/21	
Benzo(b)fluoranthene	**13000**		1100	190	3	04/02/21 13:48	3/30/21	
Benzo(g,h,i)perylene	**7800**		1100	260	3	04/02/21 13:48	3/30/21	
Benzo(k)fluoranthene	**4800**		1100	190	3	04/02/21 13:48	3/30/21	
Chrysene	**10000**		1100	170	3	04/02/21 13:48	3/30/21	
Dibenz(a,h)anthracene	**1500**		1100	250	3	04/02/21 13:48	3/30/21	
Fluoranthene	**18000**		1100	290	3	04/02/21 13:48	3/30/21	
Fluorene	**580**	**J**	1100	220	3	04/02/21 13:48	3/30/21	
Indeno(1,2,3-cd)pyrene	**7500**		1100	370	3	04/02/21 13:48	3/30/21	
Naphthalene	1100	U	1100	220	3	04/02/21 13:48	3/30/21	
Phenanthrene	**8000**		1100	160	3	04/02/21 13:48	3/30/21	
Pyrene	**15000**		1100	190	3	04/02/21 13:48	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	04/02/21 13:48	
Nitrobenzene-d5	44	10 - 95	04/02/21 13:48	
p-Terphenyl-d14	59	10 - 106	04/02/21 13:48	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 24	**Units:**	ug/Kg
Lab Code:	R2102621-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	780	U	780	130	2	04/02/21 15:13	3/30/21	
Acenaphthene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Acenaphthylene	780	U	780	160	2	04/02/21 15:13	3/30/21	
Anthracene	**230**	**J**	780	140	2	04/02/21 15:13	3/30/21	
Benz(a)anthracene	**1500**		780	120	2	04/02/21 15:13	3/30/21	
Benzo(a)pyrene	**2200**		780	210	2	04/02/21 15:13	3/30/21	
Benzo(b)fluoranthene	**2900**		780	130	2	04/02/21 15:13	3/30/21	
Benzo(g,h,i)perylene	**1800**		780	180	2	04/02/21 15:13	3/30/21	
Benzo(k)fluoranthene	**1100**		780	130	2	04/02/21 15:13	3/30/21	
Chrysene	**2400**		780	120	2	04/02/21 15:13	3/30/21	
Dibenz(a,h)anthracene	**330**	**J**	780	170	2	04/02/21 15:13	3/30/21	
Fluoranthene	**4400**		780	200	2	04/02/21 15:13	3/30/21	
Fluorene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Indeno(1,2,3-cd)pyrene	**1700**		780	260	2	04/02/21 15:13	3/30/21	
Naphthalene	780	U	780	150	2	04/02/21 15:13	3/30/21	
Phenanthrene	**1700**		780	120	2	04/02/21 15:13	3/30/21	
Pyrene	**3500**		780	130	2	04/02/21 15:13	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	04/02/21 15:13	
Nitrobenzene-d5	41	10 - 95	04/02/21 15:13	
p-Terphenyl-d14	57	10 - 106	04/02/21 15:13	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1200	U	1200	210	3	04/02/21 15:41	3/30/21	
Acenaphthene	1200	U	1200	240	3	04/02/21 15:41	3/30/21	
Acenaphthylene	1200	U	1200	250	3	04/02/21 15:41	3/30/21	
Anthracene	**690**	**J**	1200	210	3	04/02/21 15:41	3/30/21	
Benz(a)anthracene	**4000**		1200	190	3	04/02/21 15:41	3/30/21	
Benzo(a)pyrene	**6100**		1200	330	3	04/02/21 15:41	3/30/21	
Benzo(b)fluoranthene	**7600**		1200	210	3	04/02/21 15:41	3/30/21	
Benzo(g,h,i)perylene	**4800**		1200	290	3	04/02/21 15:41	3/30/21	
Benzo(k)fluoranthene	**2800**		1200	200	3	04/02/21 15:41	3/30/21	
Chrysene	**5900**		1200	180	3	04/02/21 15:41	3/30/21	
Dibenz(a,h)anthracene	**920**	**J**	1200	270	3	04/02/21 15:41	3/30/21	
Fluoranthene	**10000**		1200	310	3	04/02/21 15:41	3/30/21	
Fluorene	1200	U	1200	230	3	04/02/21 15:41	3/30/21	
Indeno(1,2,3-cd)pyrene	**4600**		1200	400	3	04/02/21 15:41	3/30/21	
Naphthalene	1200	U	1200	230	3	04/02/21 15:41	3/30/21	
Phenanthrene	**3800**		1200	180	3	04/02/21 15:41	3/30/21	
Pyrene	**8200**		1200	210	3	04/02/21 15:41	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	04/02/21 15:41	
Nitrobenzene-d5	42	10 - 95	04/02/21 15:41	
p-Terphenyl-d14	65	10 - 106	04/02/21 15:41	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 6	**Units:**	ug/Kg
Lab Code:	R2102621-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	75	1	04/02/21 16:10	3/30/21	
Acenaphthene	450	U	450	86	1	04/02/21 16:10	3/30/21	
Acenaphthylene	450	U	450	92	1	04/02/21 16:10	3/30/21	
Anthracene	**460**		450	76	1	04/02/21 16:10	3/30/21	
Benz(a)anthracene	**2700**		450	68	1	04/02/21 16:10	3/30/21	
Benzo(a)pyrene	**4000**		450	130	1	04/02/21 16:10	3/30/21	
Benzo(b)fluoranthene	**5100**		450	76	1	04/02/21 16:10	3/30/21	
Benzo(g,h,i)perylene	**2900**		450	110	1	04/02/21 16:10	3/30/21	
Benzo(k)fluoranthene	**1700**		450	73	1	04/02/21 16:10	3/30/21	
Chrysene	**3900**		450	67	1	04/02/21 16:10	3/30/21	
Dibenz(a,h)anthracene	**580**		450	99	1	04/02/21 16:10	3/30/21	
Fluoranthene	**6800**		450	120	1	04/02/21 16:10	3/30/21	
Fluorene	**130**	**J**	450	85	1	04/02/21 16:10	3/30/21	
Indeno(1,2,3-cd)pyrene	**2800**		450	150	1	04/02/21 16:10	3/30/21	
Naphthalene	450	U	450	85	1	04/02/21 16:10	3/30/21	
Phenanthrene	**2800**		450	64	1	04/02/21 16:10	3/30/21	
Pyrene	**5500**		450	76	1	04/02/21 16:10	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	41	10 - 102	04/02/21 16:10	
Nitrobenzene-d5	39	10 - 95	04/02/21 16:10	
p-Terphenyl-d14	61	10 - 106	04/02/21 16:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	74	1	04/02/21 16:39	3/30/21	
Acenaphthene	450	U	450	85	1	04/02/21 16:39	3/30/21	
Acenaphthylene	450	U	450	91	1	04/02/21 16:39	3/30/21	
Anthracene	**92**	**J**	450	75	1	04/02/21 16:39	3/30/21	
Benz(a)anthracene	**530**		450	67	1	04/02/21 16:39	3/30/21	
Benzo(a)pyrene	**870**		450	120	1	04/02/21 16:39	3/30/21	
Benzo(b)fluoranthene	**1200**		450	75	1	04/02/21 16:39	3/30/21	
Benzo(g,h,i)perylene	**720**		450	110	1	04/02/21 16:39	3/30/21	
Benzo(k)fluoranthene	**410**	**J**	450	73	1	04/02/21 16:39	3/30/21	
Chrysene	**800**		450	66	1	04/02/21 16:39	3/30/21	
Dibenz(a,h)anthracene	**140**	**J**	450	98	1	04/02/21 16:39	3/30/21	
Fluoranthene	**1300**		450	120	1	04/02/21 16:39	3/30/21	
Fluorene	450	U	450	84	1	04/02/21 16:39	3/30/21	
Indeno(1,2,3-cd)pyrene	**670**		450	150	1	04/02/21 16:39	3/30/21	
Naphthalene	450	U	450	84	1	04/02/21 16:39	3/30/21	
Phenanthrene	**560**		450	64	1	04/02/21 16:39	3/30/21	
Pyrene	**1100**		450	75	1	04/02/21 16:39	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	38	10 - 102	04/02/21 16:39	
Nitrobenzene-d5	33	10 - 95	04/02/21 16:39	
p-Terphenyl-d14	47	10 - 106	04/02/21 16:39	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 20	**Units:**	ug/Kg
Lab Code:	R2102621-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	470	U	470	78	1	04/02/21 17:08	3/30/21	
Acenaphthene	470	U	470	89	1	04/02/21 17:08	3/30/21	
Acenaphthylene	470	U	470	95	1	04/02/21 17:08	3/30/21	
Anthracene	470	U	470	79	1	04/02/21 17:08	3/30/21	
Benz(a)anthracene	**480**		470	70	1	04/02/21 17:08	3/30/21	
Benzo(a)pyrene	**800**		470	130	1	04/02/21 17:08	3/30/21	
Benzo(b)fluoranthene	**1100**		470	79	1	04/02/21 17:08	3/30/21	
Benzo(g,h,i)perylene	**620**		470	110	1	04/02/21 17:08	3/30/21	
Benzo(k)fluoranthene	**350**	**J**	470	76	1	04/02/21 17:08	3/30/21	
Chrysene	**780**		470	69	1	04/02/21 17:08	3/30/21	
Dibenz(a,h)anthracene	**120**	**J**	470	110	1	04/02/21 17:08	3/30/21	
Fluoranthene	**1200**		470	120	1	04/02/21 17:08	3/30/21	
Fluorene	470	U	470	88	1	04/02/21 17:08	3/30/21	
Indeno(1,2,3-cd)pyrene	**600**		470	160	1	04/02/21 17:08	3/30/21	
Naphthalene	470	U	470	88	1	04/02/21 17:08	3/30/21	
Phenanthrene	**490**		470	67	1	04/02/21 17:08	3/30/21	
Pyrene	**1000**		470	78	1	04/02/21 17:08	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	52	10 - 102	04/02/21 17:08	
Nitrobenzene-d5	51	10 - 95	04/02/21 17:08	
p-Terphenyl-d14	74	10 - 106	04/02/21 17:08	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	1800	U	1800	300	3	04/02/21 17:38	3/30/21	
Acenaphthene	**420**	**J**	1800	350	3	04/02/21 17:38	3/30/21	
Acenaphthylene	1800	U	1800	370	3	04/02/21 17:38	3/30/21	
Anthracene	**1600**	**J**	1800	310	3	04/02/21 17:38	3/30/21	
Benz(a)anthracene	**7200**		1800	270	3	04/02/21 17:38	3/30/21	
Benzo(a)pyrene	**9400**		1800	490	3	04/02/21 17:38	3/30/21	
Benzo(b)fluoranthene	**12000**		1800	310	3	04/02/21 17:38	3/30/21	
Benzo(g,h,i)perylene	**6500**		1800	420	3	04/02/21 17:38	3/30/21	
Benzo(k)fluoranthene	**4200**		1800	300	3	04/02/21 17:38	3/30/21	
Chrysene	**9900**		1800	270	3	04/02/21 17:38	3/30/21	
Dibenz(a,h)anthracene	**1300**	**J**	1800	400	3	04/02/21 17:38	3/30/21	
Fluoranthene	**22000**		1800	460	3	04/02/21 17:38	3/30/21	
Fluorene	**650**	**J**	1800	340	3	04/02/21 17:38	3/30/21	
Indeno(1,2,3-cd)pyrene	**6400**		1800	590	3	04/02/21 17:38	3/30/21	
Naphthalene	1800	U	1800	340	3	04/02/21 17:38	3/30/21	
Phenanthrene	**12000**		1800	260	3	04/02/21 17:38	3/30/21	
Pyrene	**18000**		1800	310	3	04/02/21 17:38	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	04/02/21 17:38	
Nitrobenzene-d5	33	10 - 95	04/02/21 17:38	
p-Terphenyl-d14	55	10 - 106	04/02/21 17:38	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:22
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 6	**Units:**	ug/Kg
Lab Code:	R2102621-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2400	U	2400	400	5	04/02/21 18:07	3/30/21	
Acenaphthene	**790**	**J**	2400	460	5	04/02/21 18:07	3/30/21	
Acenaphthylene	2400	U	2400	490	5	04/02/21 18:07	3/30/21	
Anthracene	**1700**	**J**	2400	410	5	04/02/21 18:07	3/30/21	
Benz(a)anthracene	**7500**		2400	360	5	04/02/21 18:07	3/30/21	
Benzo(a)pyrene	**9900**		2400	640	5	04/02/21 18:07	3/30/21	
Benzo(b)fluoranthene	**13000**		2400	400	5	04/02/21 18:07	3/30/21	
Benzo(g,h,i)perylene	**6300**		2400	550	5	04/02/21 18:07	3/30/21	
Benzo(k)fluoranthene	**5100**		2400	390	5	04/02/21 18:07	3/30/21	
Chrysene	**11000**		2400	360	5	04/02/21 18:07	3/30/21	
Dibenz(a,h)anthracene	**1300**	**J**	2400	530	5	04/02/21 18:07	3/30/21	
Fluoranthene	**29000**		2400	610	5	04/02/21 18:07	3/30/21	
Fluorene	**1200**	**J**	2400	450	5	04/02/21 18:07	3/30/21	
Indeno(1,2,3-cd)pyrene	**6200**		2400	780	5	04/02/21 18:07	3/30/21	
Naphthalene	2400	U	2400	450	5	04/02/21 18:07	3/30/21	
Phenanthrene	**20000**		2400	340	5	04/02/21 18:07	3/30/21	
Pyrene	**22000**		2400	400	5	04/02/21 18:07	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 18:07	
Nitrobenzene-d5	33	10 - 95	04/02/21 18:07	
p-Terphenyl-d14	55	10 - 106	04/02/21 18:07	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:25
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 12	**Units:**	ug/Kg
Lab Code:	R2102621-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	04/02/21 18:36	3/30/21	
Acenaphthene	**160**	**J**	420	80	1	04/02/21 18:36	3/30/21	
Acenaphthylene	420	U	420	85	1	04/02/21 18:36	3/30/21	
Anthracene	**420**	**J**	420	70	1	04/02/21 18:36	3/30/21	
Benz(a)anthracene	**1300**		420	63	1	04/02/21 18:36	3/30/21	
Benzo(a)pyrene	**1700**		420	120	1	04/02/21 18:36	3/30/21	
Benzo(b)fluoranthene	**2000**		420	70	1	04/02/21 18:36	3/30/21	
Benzo(g,h,i)perylene	**1000**		420	97	1	04/02/21 18:36	3/30/21	
Benzo(k)fluoranthene	**780**		420	68	1	04/02/21 18:36	3/30/21	
Chrysene	**1600**		420	62	1	04/02/21 18:36	3/30/21	
Dibenz(a,h)anthracene	**230**	**J**	420	91	1	04/02/21 18:36	3/30/21	
Fluoranthene	**3200**		420	110	1	04/02/21 18:36	3/30/21	
Fluorene	**190**	**J**	420	79	1	04/02/21 18:36	3/30/21	
Indeno(1,2,3-cd)pyrene	**1000**		420	140	1	04/02/21 18:36	3/30/21	
Naphthalene	420	U	420	79	1	04/02/21 18:36	3/30/21	
Phenanthrene	**1900**		420	60	1	04/02/21 18:36	3/30/21	
Pyrene	**2600**		420	70	1	04/02/21 18:36	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	04/02/21 18:36	
Nitrobenzene-d5	37	10 - 95	04/02/21 18:36	
p-Terphenyl-d14	61	10 - 106	04/02/21 18:36	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 24	**Units:**	ug/Kg
Lab Code:	R2102621-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400	U	400	67	1	04/02/21 19:05	3/30/21	
Acenaphthene	400	U	400	77	1	04/02/21 19:05	3/30/21	
Acenaphthylene	400	U	400	82	1	04/02/21 19:05	3/30/21	
Anthracene	**110**	**J**	400	68	1	04/02/21 19:05	3/30/21	
Benz(a)anthracene	**480**		400	60	1	04/02/21 19:05	3/30/21	
Benzo(a)pyrene	**630**		400	110	1	04/02/21 19:05	3/30/21	
Benzo(b)fluoranthene	**840**		400	68	1	04/02/21 19:05	3/30/21	
Benzo(g,h,i)perylene	**430**		400	93	1	04/02/21 19:05	3/30/21	
Benzo(k)fluoranthene	**290**	**J**	400	66	1	04/02/21 19:05	3/30/21	
Chrysene	**630**		400	60	1	04/02/21 19:05	3/30/21	
Dibenz(a,h)anthracene	**88**	**J**	400	88	1	04/02/21 19:05	3/30/21	
Fluoranthene	**1300**		400	110	1	04/02/21 19:05	3/30/21	
Fluorene	400	U	400	76	1	04/02/21 19:05	3/30/21	
Indeno(1,2,3-cd)pyrene	**440**		400	130	1	04/02/21 19:05	3/30/21	
Naphthalene	400	U	400	76	1	04/02/21 19:05	3/30/21	
Phenanthrene	**580**		400	57	1	04/02/21 19:05	3/30/21	
Pyrene	**1000**		400	67	1	04/02/21 19:05	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	04/02/21 19:05	
Nitrobenzene-d5	32	10 - 95	04/02/21 19:05	
p-Terphenyl-d14	51	10 - 106	04/02/21 19:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	410	U	410	67	1	04/02/21 19:33	3/30/21	
Acenaphthene	410	U	410	77	1	04/02/21 19:33	3/30/21	
Acenaphthylene	410	U	410	82	1	04/02/21 19:33	3/30/21	
Anthracene	**120**	**J**	410	68	1	04/02/21 19:33	3/30/21	
Benz(a)anthracene	**380**	**J**	410	61	1	04/02/21 19:33	3/30/21	
Benzo(a)pyrene	**490**		410	110	1	04/02/21 19:33	3/30/21	
Benzo(b)fluoranthene	**630**		410	68	1	04/02/21 19:33	3/30/21	
Benzo(g,h,i)perylene	**330**	**J**	410	93	1	04/02/21 19:33	3/30/21	
Benzo(k)fluoranthene	**220**	**J**	410	66	1	04/02/21 19:33	3/30/21	
Chrysene	**430**		410	60	1	04/02/21 19:33	3/30/21	
Dibenz(a,h)anthracene	410	U	410	88	1	04/02/21 19:33	3/30/21	
Fluoranthene	**760**		410	110	1	04/02/21 19:33	3/30/21	
Fluorene	410	U	410	76	1	04/02/21 19:33	3/30/21	
Indeno(1,2,3-cd)pyrene	**320**	**J**	410	140	1	04/02/21 19:33	3/30/21	
Naphthalene	410	U	410	76	1	04/02/21 19:33	3/30/21	
Phenanthrene	**400**	**J**	410	58	1	04/02/21 19:33	3/30/21	
Pyrene	**640**		410	68	1	04/02/21 19:33	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	43	10 - 102	04/02/21 19:33	
Nitrobenzene-d5	38	10 - 95	04/02/21 19:33	
p-Terphenyl-d14	54	10 - 106	04/02/21 19:33	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 6	**Units:**	ug/Kg
Lab Code:	R2102621-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	61	1	04/02/21 20:02	3/30/21	
Acenaphthene	370	U	370	70	1	04/02/21 20:02	3/30/21	
Acenaphthylene	370	U	370	75	1	04/02/21 20:02	3/30/21	
Anthracene	370	U	370	62	1	04/02/21 20:02	3/30/21	
Benz(a)anthracene	**88**	**J**	370	55	1	04/02/21 20:02	3/30/21	
Benzo(a)pyrene	**110**	**J**	370	99	1	04/02/21 20:02	3/30/21	
Benzo(b)fluoranthene	**120**	**J**	370	62	1	04/02/21 20:02	3/30/21	
Benzo(g,h,i)perylene	370	U	370	85	1	04/02/21 20:02	3/30/21	
Benzo(k)fluoranthene	370	U	370	60	1	04/02/21 20:02	3/30/21	
Chrysene	**82**	**J**	370	55	1	04/02/21 20:02	3/30/21	
Dibenz(a,h)anthracene	370	U	370	81	1	04/02/21 20:02	3/30/21	
Fluoranthene	**160**	**J**	370	93	1	04/02/21 20:02	3/30/21	
Fluorene	370	U	370	69	1	04/02/21 20:02	3/30/21	
Indeno(1,2,3-cd)pyrene	370	U	370	120	1	04/02/21 20:02	3/30/21	
Naphthalene	370	U	370	70	1	04/02/21 20:02	3/30/21	
Phenanthrene	**75**	**J**	370	53	1	04/02/21 20:02	3/30/21	
Pyrene	**130**	**J**	370	62	1	04/02/21 20:02	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	04/02/21 20:02	
Nitrobenzene-d5	43	10 - 95	04/02/21 20:02	
p-Terphenyl-d14	65	10 - 106	04/02/21 20:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 12	**Units:**	ug/Kg
Lab Code:	R2102621-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	380	U	380	63	1	04/02/21 20:30	3/30/21	
Acenaphthene	**78**	**J**	380	72	1	04/02/21 20:30	3/30/21	
Acenaphthylene	380	U	380	77	1	04/02/21 20:30	3/30/21	
Anthracene	**270**	**J**	380	64	1	04/02/21 20:30	3/30/21	
Benz(a)anthracene	**1200**		380	57	1	04/02/21 20:30	3/30/21	
Benzo(a)pyrene	**1300**		380	110	1	04/02/21 20:30	3/30/21	
Benzo(b)fluoranthene	**1600**		380	64	1	04/02/21 20:30	3/30/21	
Benzo(g,h,i)perylene	**730**		380	87	1	04/02/21 20:30	3/30/21	
Benzo(k)fluoranthene	**620**		380	62	1	04/02/21 20:30	3/30/21	
Chrysene	**1400**		380	56	1	04/02/21 20:30	3/30/21	
Dibenz(a,h)anthracene	**190**	**J**	380	83	1	04/02/21 20:30	3/30/21	
Fluoranthene	**2900**		380	95	1	04/02/21 20:30	3/30/21	
Fluorene	**83**	**J**	380	71	1	04/02/21 20:30	3/30/21	
Indeno(1,2,3-cd)pyrene	**770**		380	130	1	04/02/21 20:30	3/30/21	
Naphthalene	380	U	380	71	1	04/02/21 20:30	3/30/21	
Phenanthrene	**1200**		380	54	1	04/02/21 20:30	3/30/21	
Pyrene	**2400**		380	63	1	04/02/21 20:30	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	04/02/21 20:30	
Nitrobenzene-d5	38	10 - 95	04/02/21 20:30	
p-Terphenyl-d14	56	10 - 106	04/02/21 20:30	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:47
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 24	**Units:**	ug/Kg
Lab Code:	R2102621-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	61	1	04/02/21 20:58	3/30/21	
Acenaphthene	370	U	370	70	1	04/02/21 20:58	3/30/21	
Acenaphthylene	370	U	370	75	1	04/02/21 20:58	3/30/21	
Anthracene	**88**	**J**	370	62	1	04/02/21 20:58	3/30/21	
Benz(a)anthracene	**270**	**J**	370	55	1	04/02/21 20:58	3/30/21	
Benzo(a)pyrene	**310**	**J**	370	98	1	04/02/21 20:58	3/30/21	
Benzo(b)fluoranthene	**360**	**J**	370	62	1	04/02/21 20:58	3/30/21	
Benzo(g,h,i)perylene	**190**	**J**	370	85	1	04/02/21 20:58	3/30/21	
Benzo(k)fluoranthene	**140**	**J**	370	60	1	04/02/21 20:58	3/30/21	
Chrysene	**280**	**J**	370	54	1	04/02/21 20:58	3/30/21	
Dibenz(a,h)anthracene	370	U	370	80	1	04/02/21 20:58	3/30/21	
Fluoranthene	**590**		370	93	1	04/02/21 20:58	3/30/21	
Fluorene	370	U	370	69	1	04/02/21 20:58	3/30/21	
Indeno(1,2,3-cd)pyrene	**170**	**J**	370	120	1	04/02/21 20:58	3/30/21	
Naphthalene	370	U	370	69	1	04/02/21 20:58	3/30/21	
Phenanthrene	**340**	**J**	370	52	1	04/02/21 20:58	3/30/21	
Pyrene	**480**		370	61	1	04/02/21 20:58	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 20:58	
Nitrobenzene-d5	35	10 - 95	04/02/21 20:58	
p-Terphenyl-d14	58	10 - 106	04/02/21 20:58	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400	U	400	66	1	04/02/21 21:26	3/30/21	
Acenaphthene	**110**	**J**	400	76	1	04/02/21 21:26	3/30/21	
Acenaphthylene	400	U	400	81	1	04/02/21 21:26	3/30/21	
Anthracene	**270**	**J**	400	67	1	04/02/21 21:26	3/30/21	
Benz(a)anthracene	**1500**		400	59	1	04/02/21 21:26	3/30/21	
Benzo(a)pyrene	**2400**		400	110	1	04/02/21 21:26	3/30/21	
Benzo(b)fluoranthene	**3400**		400	67	1	04/02/21 21:26	3/30/21	
Benzo(g,h,i)perylene	**1600**		400	92	1	04/02/21 21:26	3/30/21	
Benzo(k)fluoranthene	**1200**		400	65	1	04/02/21 21:26	3/30/21	
Chrysene	**2500**		400	59	1	04/02/21 21:26	3/30/21	
Dibenz(a,h)anthracene	**300**	**J**	400	87	1	04/02/21 21:26	3/30/21	
Fluoranthene	**4800**		400	100	1	04/02/21 21:26	3/30/21	
Fluorene	**140**	**J**	400	75	1	04/02/21 21:26	3/30/21	
Indeno(1,2,3-cd)pyrene	**1600**		400	130	1	04/02/21 21:26	3/30/21	
Naphthalene	400	U	400	75	1	04/02/21 21:26	3/30/21	
Phenanthrene	**2300**		400	57	1	04/02/21 21:26	3/30/21	
Pyrene	**3800**		400	67	1	04/02/21 21:26	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	39	10 - 102	04/02/21 21:26	
Nitrobenzene-d5	36	10 - 95	04/02/21 21:26	
p-Terphenyl-d14	50	10 - 106	04/02/21 21:26	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 6	**Units:**	ug/Kg
Lab Code:	R2102621-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**100**	**J**	380	63	1	04/05/21 13:36	3/30/21	
Acenaphthene	380	U	380	72	1	04/05/21 13:36	3/30/21	
Acenaphthylene	380	U	380	76	1	04/05/21 13:36	3/30/21	
Anthracene	**150**	**J**	380	63	1	04/05/21 13:36	3/30/21	
Benz(a)anthracene	**980**		380	56	1	04/05/21 13:36	3/30/21	
Benzo(a)pyrene	**1500**		380	100	1	04/05/21 13:36	3/30/21	
Benzo(b)fluoranthene	**2100**		380	63	1	04/05/21 13:36	3/30/21	
Benzo(g,h,i)perylene	**1300**		380	87	1	04/05/21 13:36	3/30/21	
Benzo(k)fluoranthene	**690**		380	61	1	04/05/21 13:36	3/30/21	
Chrysene	**1600**		380	56	1	04/05/21 13:36	3/30/21	
Dibenz(a,h)anthracene	**260**	**J**	380	82	1	04/05/21 13:36	3/30/21	
Fluoranthene	**2700**		380	95	1	04/05/21 13:36	3/30/21	
Fluorene	**74**	**J**	380	71	1	04/05/21 13:36	3/30/21	
Indeno(1,2,3-cd)pyrene	**1200**		380	130	1	04/05/21 13:36	3/30/21	
Naphthalene	380	U	380	71	1	04/05/21 13:36	3/30/21	
Phenanthrene	**1100**		380	54	1	04/05/21 13:36	3/30/21	
Pyrene	**2300**		380	63	1	04/05/21 13:36	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	48	10 - 102	04/05/21 13:36	
Nitrobenzene-d5	44	10 - 95	04/05/21 13:36	
p-Terphenyl-d14	63	10 - 106	04/05/21 13:36	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 12	**Units:**	ug/Kg
Lab Code:	R2102621-019	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	61	1	04/05/21 14:05	3/30/21	
Acenaphthene	370	U	370	70	1	04/05/21 14:05	3/30/21	
Acenaphthylene	370	U	370	74	1	04/05/21 14:05	3/30/21	
Anthracene	**150**	**J**	370	62	1	04/05/21 14:05	3/30/21	
Benz(a)anthracene	**810**		370	55	1	04/05/21 14:05	3/30/21	
Benzo(a)pyrene	**1200**		370	98	1	04/05/21 14:05	3/30/21	
Benzo(b)fluoranthene	**1700**		370	61	1	04/05/21 14:05	3/30/21	
Benzo(g,h,i)perylene	**1000**		370	84	1	04/05/21 14:05	3/30/21	
Benzo(k)fluoranthene	**560**		370	60	1	04/05/21 14:05	3/30/21	
Chrysene	**1300**		370	54	1	04/05/21 14:05	3/30/21	
Dibenz(a,h)anthracene	**190**	**J**	370	80	1	04/05/21 14:05	3/30/21	
Fluoranthene	**2300**		370	92	1	04/05/21 14:05	3/30/21	
Fluorene	370	U	370	69	1	04/05/21 14:05	3/30/21	
Indeno(1,2,3-cd)pyrene	**980**		370	120	1	04/05/21 14:05	3/30/21	
Naphthalene	370	U	370	69	1	04/05/21 14:05	3/30/21	
Phenanthrene	**1000**		370	52	1	04/05/21 14:05	3/30/21	
Pyrene	**1900**		370	61	1	04/05/21 14:05	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	04/05/21 14:05	
Nitrobenzene-d5	45	10 - 95	04/05/21 14:05	
p-Terphenyl-d14	59	10 - 106	04/05/21 14:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 20	**Units:**	ug/Kg
Lab Code:	R2102621-020	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**110**	**J**	390	65	1	04/05/21 14:33	3/30/21	
Acenaphthene	**690**		390	74	1	04/05/21 14:33	3/30/21	
Acenaphthylene	390	U	390	79	1	04/05/21 14:33	3/30/21	
Anthracene	**1500**		390	66	1	04/05/21 14:33	3/30/21	
Benz(a)anthracene	**2600**		390	58	1	04/05/21 14:33	3/30/21	
Benzo(a)pyrene	**2900**		390	110	1	04/05/21 14:33	3/30/21	
Benzo(b)fluoranthene	**3100**		390	66	1	04/05/21 14:33	3/30/21	
Benzo(g,h,i)perylene	**1700**		390	90	1	04/05/21 14:33	3/30/21	
Benzo(k)fluoranthene	**1200**		390	63	1	04/05/21 14:33	3/30/21	
Chrysene	**2500**		390	58	1	04/05/21 14:33	3/30/21	
Dibenz(a,h)anthracene	**380**	**J**	390	85	1	04/05/21 14:33	3/30/21	
Fluoranthene	**6100**		390	98	1	04/05/21 14:33	3/30/21	
Fluorene	**730**		390	73	1	04/05/21 14:33	3/30/21	
Indeno(1,2,3-cd)pyrene	**1800**		390	130	1	04/05/21 14:33	3/30/21	
Naphthalene	**260**	**J**	390	74	1	04/05/21 14:33	3/30/21	
Phenanthrene	**5400**		390	56	1	04/05/21 14:33	3/30/21	
Pyrene	**5100**		390	65	1	04/05/21 14:33	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	35	10 - 102	04/05/21 14:33	
Nitrobenzene-d5	32	10 - 95	04/05/21 14:33	
p-Terphenyl-d14	45	10 - 106	04/05/21 14:33	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-021	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	04/05/21 15:02	3/30/21	
Acenaphthene	420	U	420	80	1	04/05/21 15:02	3/30/21	
Acenaphthylene	420	U	420	86	1	04/05/21 15:02	3/30/21	
Anthracene	**210**	**J**	420	71	1	04/05/21 15:02	3/30/21	
Benz(a)anthracene	**760**		420	63	1	04/05/21 15:02	3/30/21	
Benzo(a)pyrene	**1000**		420	120	1	04/05/21 15:02	3/30/21	
Benzo(b)fluoranthene	**1100**		420	71	1	04/05/21 15:02	3/30/21	
Benzo(g,h,i)perylene	**660**		420	97	1	04/05/21 15:02	3/30/21	
Benzo(k)fluoranthene	**390**	**J**	420	69	1	04/05/21 15:02	3/30/21	
Chrysene	**840**		420	62	1	04/05/21 15:02	3/30/21	
Dibenz(a,h)anthracene	**160**	**J**	420	92	1	04/05/21 15:02	3/30/21	
Fluoranthene	**1500**		420	110	1	04/05/21 15:02	3/30/21	
Fluorene	420	U	420	79	1	04/05/21 15:02	3/30/21	
Indeno(1,2,3-cd)pyrene	**650**		420	140	1	04/05/21 15:02	3/30/21	
Naphthalene	420	U	420	79	1	04/05/21 15:02	3/30/21	
Phenanthrene	**800**		420	60	1	04/05/21 15:02	3/30/21	
Pyrene	**1200**		420	71	1	04/05/21 15:02	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	33	10 - 102	04/05/21 15:02	
Nitrobenzene-d5	29	10 - 95	04/05/21 15:02	
p-Terphenyl-d14	45	10 - 106	04/05/21 15:02	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 6	**Units:**	ug/Kg
Lab Code:	R2102621-022	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400 U	400	66	1	03/29/21 17:44	3/26/21	
Acenaphthene	400 U	400	76	1	03/29/21 17:44	3/26/21	
Acenaphthylene	400 U	400	81	1	03/29/21 17:44	3/26/21	
Anthracene	**160 J**	400	67	1	03/29/21 17:44	3/26/21	
Benz(a)anthracene	**480**	400	60	1	03/29/21 17:44	3/26/21	
Benzo(a)pyrene	**590**	400	110	1	03/29/21 17:44	3/26/21	
Benzo(b)fluoranthene	**610**	400	67	1	03/29/21 17:44	3/26/21	
Benzo(g,h,i)perylene	**430**	400	92	1	03/29/21 17:44	3/26/21	
Benzo(k)fluoranthene	**220 J**	400	65	1	03/29/21 17:44	3/26/21	
Chrysene	**470**	400	59	1	03/29/21 17:44	3/26/21	
Dibenz(a,h)anthracene	**90 J**	400	87	1	03/29/21 17:44	3/26/21	
Fluoranthene	**920**	400	100	1	03/29/21 17:44	3/26/21	
Fluorene	400 U	400	75	1	03/29/21 17:44	3/26/21	
Indeno(1,2,3-cd)pyrene	**410**	400	130	1	03/29/21 17:44	3/26/21	
Naphthalene	400 U	400	75	1	03/29/21 17:44	3/26/21	
Phenanthrene	**600**	400	57	1	03/29/21 17:44	3/26/21	
Pyrene	**760**	400	67	1	03/29/21 17:44	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	50	10 - 102	03/29/21 17:44	
Nitrobenzene-d5	52	10 - 95	03/29/21 17:44	
p-Terphenyl-d14	84	10 - 106	03/29/21 17:44	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 12	**Units:**	ug/Kg
Lab Code:	R2102621-023	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	390 U	390	64	1	03/29/21 18:13	3/26/21	
Acenaphthene	**150 J**	390	73	1	03/29/21 18:13	3/26/21	
Acenaphthylene	390 U	390	78	1	03/29/21 18:13	3/26/21	
Anthracene	**370 J**	390	65	1	03/29/21 18:13	3/26/21	
Benz(a)anthracene	**1100**	390	58	1	03/29/21 18:13	3/26/21	
Benzo(a)pyrene	**1400**	390	110	1	03/29/21 18:13	3/26/21	
Benzo(b)fluoranthene	**1300**	390	65	1	03/29/21 18:13	3/26/21	
Benzo(g,h,i)perylene	**850**	390	89	1	03/29/21 18:13	3/26/21	
Benzo(k)fluoranthene	**490**	390	63	1	03/29/21 18:13	3/26/21	
Chrysene	**1100**	390	57	1	03/29/21 18:13	3/26/21	
Dibenz(a,h)anthracene	**190 J**	390	84	1	03/29/21 18:13	3/26/21	
Fluoranthene	**2400**	390	97	1	03/29/21 18:13	3/26/21	
Fluorene	**130 J**	390	73	1	03/29/21 18:13	3/26/21	
Indeno(1,2,3-cd)pyrene	**890**	390	130	1	03/29/21 18:13	3/26/21	
Naphthalene	390 U	390	73	1	03/29/21 18:13	3/26/21	
Phenanthrene	**1400**	390	55	1	03/29/21 18:13	3/26/21	
Pyrene	**1800**	390	65	1	03/29/21 18:13	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	53	10 - 102	03/29/21 18:13	
Nitrobenzene-d5	54	10 - 95	03/29/21 18:13	
p-Terphenyl-d14	80	10 - 106	03/29/21 18:13	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**180**	**DJ**	770	130	2	03/31/21 18:10	3/26/21	
Acenaphthene	**970**	**D**	770	150	2	03/31/21 18:10	3/26/21	
Acenaphthylene	770	U	770	160	2	03/31/21 18:10	3/26/21	
Anthracene	**3600**	**D**	770	130	2	03/31/21 18:10	3/26/21	
Benz(a)anthracene	**8200**	**D**	770	120	2	03/31/21 18:10	3/26/21	
Benzo(a)pyrene	**8500**	**D**	770	210	2	03/31/21 18:10	3/26/21	
Benzo(b)fluoranthene	**8300**	**D**	770	130	2	03/31/21 18:10	3/26/21	
Benzo(g,h,i)perylene	**4300**	**D**	770	180	2	03/31/21 18:10	3/26/21	
Benzo(k)fluoranthene	**3300**	**D**	770	130	2	03/31/21 18:10	3/26/21	
Chrysene	**7300**	**D**	770	120	2	03/31/21 18:10	3/26/21	
Dibenz(a,h)anthracene	**1300**	**D**	770	170	2	03/31/21 18:10	3/26/21	
Fluoranthene	**15000**	**D**	770	200	2	03/31/21 18:10	3/26/21	
Fluorene	**1300**	**D**	770	150	2	03/31/21 18:10	3/26/21	
Indeno(1,2,3-cd)pyrene	**5000**	**D**	770	250	2	03/31/21 18:10	3/26/21	
Naphthalene	**230**	**DJ**	770	150	2	03/31/21 18:10	3/26/21	
Phenanthrene	**10000**	**D**	770	110	2	03/31/21 18:10	3/26/21	
Pyrene	**11000**	**D**	770	130	2	03/31/21 18:10	3/26/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	40	10 - 102	03/31/21 18:10	
Nitrobenzene-d5	41	10 - 95	03/31/21 18:10	
p-Terphenyl-d14	80	10 - 106	03/31/21 18:10	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**150**	**J**	390	64	1	03/29/21 18:41	3/26/21	
Acenaphthene	**820**		390	73	1	03/29/21 18:41	3/26/21	
Acenaphthylene	**94**	**J**	390	78	1	03/29/21 18:41	3/26/21	
Anthracene	**3100**		390	65	1	03/29/21 18:41	3/26/21	
Benz(a)anthracene	**6800**		390	58	1	03/29/21 18:41	3/26/21	
Benzo(a)pyrene	**7100**		390	110	1	03/29/21 18:41	3/26/21	
Benzo(b)fluoranthene	**7100**		390	65	1	03/29/21 18:41	3/26/21	
Benzo(g,h,i)perylene	**2900**		390	89	1	03/29/21 18:41	3/26/21	
Benzo(k)fluoranthene	**2600**		390	63	1	03/29/21 18:41	3/26/21	
Chrysene	**6000**		390	57	1	03/29/21 18:41	3/26/21	
Dibenz(a,h)anthracene	**940**		390	84	1	03/29/21 18:41	3/26/21	
Fluoranthene	**10000**	**E**	390	97	1	03/29/21 18:41	3/26/21	
Fluorene	**1100**		390	73	1	03/29/21 18:41	3/26/21	
Indeno(1,2,3-cd)pyrene	**3600**		390	130	1	03/29/21 18:41	3/26/21	
Naphthalene	**210**	**J**	390	73	1	03/29/21 18:41	3/26/21	
Phenanthrene	**7500**		390	55	1	03/29/21 18:41	3/26/21	
Pyrene	**8300**	**E**	390	65	1	03/29/21 18:41	3/26/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24	**Units:**	ug/Kg
Lab Code:	R2102621-024	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	35	10 - 102	03/29/21 18:41	
Nitrobenzene-d5	36	10 - 95	03/29/21 18:41	
p-Terphenyl-d14	67	10 - 106	03/29/21 18:41	

General Chemistry

ALS Environmental—Rochester Laboratory
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Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 12:35
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 0-2		**Basis:**	As Received
Lab Code:	R2102621-001			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**67.8**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 6	**Basis:**	As Received
Lab Code:	R2102621-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.5**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 12	**Basis:**	As Received
Lab Code:	R2102621-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.7**	Percent	-	1	03/23/21 06:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-3 24	**Basis:**	As Received
Lab Code:	R2102621-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.6**	Percent	-	1	03/23/21 06:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 0-2	**Basis:**	As Received
Lab Code:	R2102621-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.3**	Percent	-	1	03/23/21 06:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 6	**Basis:**	As Received
Lab Code:	R2102621-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**71.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 12	**Basis:**	As Received
Lab Code:	R2102621-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**75.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-3 20	**Basis:**	As Received
Lab Code:	R2102621-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**70.8**	Percent	-	1	04/02/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 0-2	**Basis:**	As Received
Lab Code:	R2102621-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**55.6**	Percent	-	1	04/02/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:22
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 6	**Basis:**	As Received
Lab Code:	R2102621-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**69.4**	Percent	-	1	04/02/21 06:00	

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 13:25
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 12		**Basis:**	As Received
Lab Code:	R2102621-011			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.4**	Percent	-	1	04/02/21 06:00	

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 13:30
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSA-2 24		**Basis:**	As Received
Lab Code:	R2102621-012			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**80.7**	Percent	-	1	04/02/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 0-2	**Basis:**	As Received
Lab Code:	R2102621-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.2**	Percent	-	1	04/02/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:42
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 6	**Basis:**	As Received
Lab Code:	R2102621-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.1**	Percent	-	1	04/02/21 06:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 12	**Basis:**	As Received
Lab Code:	R2102621-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.4**	Percent	-	1	04/02/21 09:25	

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 13:47
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSB-2 24		**Basis:**	As Received
Lab Code:	R2102621-016			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.4**	Percent	-	1	04/02/21 09:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:50
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 0-2	**Basis:**	As Received
Lab Code:	R2102621-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.2**	Percent	-	1	04/02/21 09:25	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 13:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 6	**Basis:**	As Received
Lab Code:	R2102621-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.9**	Percent	-	1	04/02/21 09:25	

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 14:00
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 12		**Basis:**	As Received
Lab Code:	R2102621-019			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.9**	Percent	-	1	04/02/21 09:25	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-1 20	**Basis:**	As Received
Lab Code:	R2102621-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.0**	Percent	-	1	04/02/21 09:25	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:10
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 0-2	**Basis:**	As Received
Lab Code:	R2102621-021		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.8**	Percent	-	1	04/02/21 09:25	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 6	**Basis:**	As Received
Lab Code:	R2102621-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**85.4**	Percent	-	1	04/02/21 09:25	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 14:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 12	**Basis:**	As Received
Lab Code:	R2102621-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.2**	Percent	-	1	04/02/21 09:25	

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102621
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 14:30
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSB-1 24		**Basis:**	As Received
Lab Code:	R2102621-024			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.9**	Percent	-	1	04/02/21 09:25	

QC Summary Forms

ALS Environmental—Rochester Laboratory
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Semivolatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
SSB-3 0-2	R2102621-001	47	48	58
SSB-3 0-2 DL	R2102621-001	49	51	60
SSB-3 6	R2102621-002	49	53	60
SSB-3 6 DL	R2102621-002	52	57	66
SSB-3 12	R2102621-003	47	44	59
SSB-3 24	R2102621-004	45	41	57
SSA-3 0-2	R2102621-005	46	42	65
SSA-3 6	R2102621-006	41	39	61
SSA-3 12	R2102621-007	38	33	47
SSA-3 20	R2102621-008	52	51	74
SSA-2 0-2	R2102621-009	36	33	55
SSA-2 6	R2102621-010	39	33	55
SSA-2 12	R2102621-011	42	37	61
SSA-2 24	R2102621-012	36	32	51
SSB-2 0-2	R2102621-013	43	38	54
SSB-2 6	R2102621-014	49	43	65
SSB-2 12	R2102621-015	42	38	56
SSB-2 24	R2102621-016	39	35	58
SSA-1 0-2	R2102621-017	39	36	50
SSA-1 6	R2102621-018	48	44	63
SSA-1 12	R2102621-019	47	45	59
SSA-1 20	R2102621-020	35	32	45
SSB-1 0-2	R2102621-021	33	29	45
SSB-1 6	R2102621-022	50	52	84
SSB-1 12	R2102621-023	53	54	80
SSB-1 24	R2102621-024	35	36	67
SSB-1 24 DL	R2102621-024	40	41	80
Method Blank	RQ2103000-03	64	65	101
Method Blank	RQ2103049-01	56	54	130*
Method Blank	RQ2103107-01	73	77	132*
Method Blank	RQ2103266-03	70	67	93
Lab Control Sample	RQ2103000-04	60	57	84
Duplicate Lab Control Sample	RQ2103000-05	63	63	89
Lab Control Sample	RQ2103049-02	49	41	97
Duplicate Lab Control Sample	RQ2103049-03	62	57	100
Lab Control Sample	RQ2103107-02	70	71	110*
Duplicate Lab Control Sample	RQ2103107-03	71	71	110*

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
Lab Control Sample	RQ2103266-04	75	67	86
Duplicate Lab Control Sample	RQ2103266-05	72	66	84
SSA-1 0-2 MS	RQ2103049-04	52	55	88
SSA-1 0-2 DMS	RQ2103049-05	47	50	77
SSB-3 12 MS	RQ2103266-01	54	49	72
SSB-3 12 DMS	RQ2103266-02	50	46	66

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/27/21
		Date Extracted:	03/25/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSA-1 0-2	**Units:**	ug/Kg
Lab Code:	R2102621-017	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike RQ2103049-04			Duplicate Matrix Spike RQ2103049-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	420 U	2060	4240	49 *	1810	3960	46 *	50-86	13	30
Acenaphthene	110 J	2080	4240	47 *	2000	3960	48 *	52-91	4	30
Acenaphthylene	420 U	2300	4240	54	2000	3960	50 *	53-97	14	30
Anthracene	270 J	2730	4240	58 *	2540	3960	57 *	63-98	7	30
Benz(a)anthracene	1500	4110	4240	61	4140	3960	67	59-99	<1	30
Benzo(a)pyrene	2400	5400	4240	71	5260	3960	73	71-129	3	30
Benzo(b)fluoranthene	3400	6440	4240	72	6450	3960	78	59-101	<1	30
Benzo(g,h,i)perylene	1600	4440	4240	66 *	4170	3960	64 *	67-113	6	30
Benzo(k)fluoranthene	1200	4070	4240	68	3980	3960	71	64-107	2	30
Chrysene	2500	5090	4240	61 *	5170	3960	67	62-103	2	30
Dibenz(a,h)anthracene	300 J	2610	4240	54 *	2240	3960	49 *	58-119	15	30
Fluoranthene	4800	7110	4240	55 *	7470	3960	68	59-104	5	30
Fluorene	140 J	2200	4240	49 *	2060	3960	49 *	54-93	7	30
Indeno(1,2,3-cd)pyrene	1600	4280	4240	64	4000	3960	61 *	64-114	7	30
Naphthalene	420 U	2010	4240	47 *	1790	3960	45 *	48-85	11	30
Phenanthrene	2300	3820	4240	36 *	4250	3960	50 *	60-95	11	30
Pyrene	3800	6230	4240	57 *	6720	3960	73	65-107	8	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/2/21
		Date Extracted:	03/30/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSB-3 12	**Units:**	ug/Kg
Lab Code:	R2102621-003	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike RQ2103266-01			Duplicate Matrix Spike RQ2103266-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	1100 U	1970	3590	55	1910	3770	51	50-86	3	30
Acenaphthene	510 J	2140	3590	45 *	2390	3770	50 *	52-91	11	30
Acenaphthylene	1100 U	2230	3590	62	2150	3770	57	53-97	4	30
Anthracene	1400	3160	3590	48 *	3610	3770	58 *	63-98	13	30
Benz(a)anthracene	7100	7890	3590	22 *	7830	3770	19 *	59-99	<1	30
Benzo(a)pyrene	10000	11300	3590	35 *	10900	3770	23 *	71-129	4	30
Benzo(b)fluoranthene	13000	13300	3590	10 *	12600	3770	-12 *	59-101	6	30
Benzo(g,h,i)perylene	7800	9520	3590	46 *	8860	3770	27 *	67-113	7	30
Benzo(k)fluoranthene	4800	6500	3590	46 *	6510	3770	44 *	64-107	<1	30
Chrysene	10000	11000	3590	24 *	10400	3770	8 *	62-103	5	30
Dibenz(a,h)anthracene	1500	3750	3590	61	3540	3770	53 *	58-119	6	30
Fluoranthene	18000	18100	3590	0 #	17800	3770	-7 #	59-104	2	30
Fluorene	580 J	2480	3590	53 *	2760	3770	58	54-93	11	30
Indeno(1,2,3-cd)pyrene	7500	8570	3590	28 *	8090	3770	14 *	64-114	6	30
Naphthalene	1100 U	1860	3590	52	1830	3770	49	48-85	2	30
Phenanthrene	8000	8080	3590	2 *	9760	3770	46 *	60-95	19	30
Pyrene	15000	15000	3590	0 #	14600	3770	-11 *	65-107	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103000-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Acenaphthene	330 U	330	63	1	03/25/21 18:17	3/24/21	
Acenaphthylene	330 U	330	67	1	03/25/21 18:17	3/24/21	
Anthracene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benz(a)anthracene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Benzo(a)pyrene	330 U	330	88	1	03/25/21 18:17	3/24/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/25/21 18:17	3/24/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/25/21 18:17	3/24/21	
Chrysene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/25/21 18:17	3/24/21	
Fluoranthene	330 U	330	83	1	03/25/21 18:17	3/24/21	
Fluorene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/25/21 18:17	3/24/21	
Naphthalene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Phenanthrene	330 U	330	47	1	03/25/21 18:17	3/24/21	
Pyrene	330 U	330	55	1	03/25/21 18:17	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 102	03/25/21 18:17	
Nitrobenzene-d5	65	10 - 95	03/25/21 18:17	
p-Terphenyl-d14	101	10 - 106	03/25/21 18:17	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103049-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	350	U	350	58	1	03/26/21 21:21	3/25/21	
Acenaphthene	350	U	350	66	1	03/26/21 21:21	3/25/21	
Acenaphthylene	350	U	350	70	1	03/26/21 21:21	3/25/21	
Anthracene	350	U	350	58	1	03/26/21 21:21	3/25/21	
Benz(a)anthracene	350	U	350	52	1	03/26/21 21:21	3/25/21	
Benzo(a)pyrene	350	U	350	92	1	03/26/21 21:21	3/25/21	
Benzo(b)fluoranthene	350	U	350	58	1	03/26/21 21:21	3/25/21	
Benzo(g,h,i)perylene	350	U	350	80	1	03/26/21 21:21	3/25/21	
Benzo(k)fluoranthene	350	U	350	56	1	03/26/21 21:21	3/25/21	
Chrysene	350	U	350	51	1	03/26/21 21:21	3/25/21	
Dibenz(a,h)anthracene	350	U	350	76	1	03/26/21 21:21	3/25/21	
Fluoranthene	350	U	350	87	1	03/26/21 21:21	3/25/21	
Fluorene	350	U	350	65	1	03/26/21 21:21	3/25/21	
Indeno(1,2,3-cd)pyrene	350	U	350	120	1	03/26/21 21:21	3/25/21	
Naphthalene	350	U	350	65	1	03/26/21 21:21	3/25/21	
Phenanthrene	350	U	350	49	1	03/26/21 21:21	3/25/21	
Pyrene	350	U	350	58	1	03/26/21 21:21	3/25/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	56	10 - 102	03/26/21 21:21	
Nitrobenzene-d5	54	10 - 95	03/26/21 21:21	
p-Terphenyl-d14	130 *	10 - 106	03/26/21 21:21	*

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103107-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Acenaphthene	330 U	330	63	1	03/29/21 16:18	3/26/21	
Acenaphthylene	330 U	330	67	1	03/29/21 16:18	3/26/21	
Anthracene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Benz(a)anthracene	330 U	330	49	1	03/29/21 16:18	3/26/21	
Benzo(a)pyrene	330 U	330	88	1	03/29/21 16:18	3/26/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/29/21 16:18	3/26/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/29/21 16:18	3/26/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/29/21 16:18	3/26/21	
Chrysene	330 U	330	49	1	03/29/21 16:18	3/26/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/29/21 16:18	3/26/21	
Fluoranthene	330 U	330	83	1	03/29/21 16:18	3/26/21	
Fluorene	330 U	330	62	1	03/29/21 16:18	3/26/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/29/21 16:18	3/26/21	
Naphthalene	330 U	330	62	1	03/29/21 16:18	3/26/21	
Phenanthrene	330 U	330	47	1	03/29/21 16:18	3/26/21	
Pyrene	330 U	330	55	1	03/29/21 16:18	3/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	73	10 - 102	03/29/21 16:18	
Nitrobenzene-d5	77	10 - 95	03/29/21 16:18	
p-Terphenyl-d14	132 *	10 - 106	03/29/21 16:18	*

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103266-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330	U	330	55	1	04/01/21 20:03	3/30/21	
Acenaphthene	330	U	330	63	1	04/01/21 20:03	3/30/21	
Acenaphthylene	330	U	330	67	1	04/01/21 20:03	3/30/21	
Anthracene	330	U	330	56	1	04/01/21 20:03	3/30/21	
Benz(a)anthracene	330	U	330	50	1	04/01/21 20:03	3/30/21	
Benzo(a)pyrene	330	U	330	88	1	04/01/21 20:03	3/30/21	
Benzo(b)fluoranthene	330	U	330	56	1	04/01/21 20:03	3/30/21	
Benzo(g,h,i)perylene	330	U	330	76	1	04/01/21 20:03	3/30/21	
Benzo(k)fluoranthene	330	U	330	54	1	04/01/21 20:03	3/30/21	
Chrysene	330	U	330	49	1	04/01/21 20:03	3/30/21	
Dibenz(a,h)anthracene	330	U	330	72	1	04/01/21 20:03	3/30/21	
Fluoranthene	330	U	330	83	1	04/01/21 20:03	3/30/21	
Fluorene	330	U	330	62	1	04/01/21 20:03	3/30/21	
Indeno(1,2,3-cd)pyrene	330	U	330	110	1	04/01/21 20:03	3/30/21	
Naphthalene	330	U	330	62	1	04/01/21 20:03	3/30/21	
Phenanthrene	330	U	330	47	1	04/01/21 20:03	3/30/21	
Pyrene	330	U	330	55	1	04/01/21 20:03	3/30/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	10 - 102	04/01/21 20:03	
Nitrobenzene-d5	67	10 - 95	04/01/21 20:03	
p-Terphenyl-d14	93	10 - 106	04/01/21 20:03	

Client: Leader Professional Services, Inc.
Project: Former Bisonite/235.198A
Sample Matrix: Soil

Service Request: R2102621
Date Analyzed: 03/25/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units: ug/Kg
Basis: Dry

		Lab Control Sample RQ2103000-04			Duplicate Lab Control Sample RQ2103000-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1790	3290	54	1940	3280	59	50-86	8	30
Acenaphthene	8270D	2010	3290	61	2110	3280	64	52-91	5	30
Acenaphthylene	8270D	2210	3290	67	2320	3280	71	53-97	5	30
Anthracene	8270D	2590	3290	79	2650	3280	81	63-98	2	30
Benz(a)anthracene	8270D	2630	3290	80	2710	3280	82	59-99	3	30
Benzo(a)pyrene	8270D	3400	3290	103	3570	3280	109	71-129	5	30
Benzo(b)fluoranthene	8270D	2560	3290	78	2650	3280	81	59-101	3	30
Benzo(g,h,i)perylene	8270D	3280	3290	100	3430	3280	105	67-113	5	30
Benzo(k)fluoranthene	8270D	2760	3290	84	2910	3280	89	64-107	5	30
Chrysene	8270D	2680	3290	81	2770	3280	84	62-103	3	30
Dibenz(a,h)anthracene	8270D	2850	3290	87	2980	3280	91	58-119	4	30
Fluoranthene	8270D	2770	3290	84	2800	3280	85	59-104	1	30
Fluorene	8270D	2240	3290	68	2280	3280	70	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	2930	3290	89	3050	3280	93	64-114	4	30
Naphthalene	8270D	1710	3290	52	1880	3280	57	48-85	9	30
Phenanthrene	8270D	2440	3290	74	2490	3280	76	60-95	2	30
Pyrene	8270D	2670	3290	81	2730	3280	83	65-107	2	30

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QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project:	Former Bisonite/235.198A	**Date Analyzed:**	03/26/21
Sample Matrix:	Soil		

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units: ug/Kg
Basis: Dry

		Lab Control Sample RQ2103049-02			Duplicate Lab Control Sample RQ2103049-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1390	3290	42 *	1900	3440	55	50-86	31*	30
Acenaphthene	8270D	1610	3290	49 *	2030	3440	59	52-91	23	30
Acenaphthylene	8270D	1750	3290	53	2250	3440	65	53-97	25	30
Anthracene	8270D	2260	3290	69	2600	3440	76	63-98	14	30
Benz(a)anthracene	8270D	2350	3290	72	2570	3440	75	59-99	9	30
Benzo(a)pyrene	8270D	2860	3290	87	3190	3440	93	71-129	11	30
Benzo(b)fluoranthene	8270D	2330	3290	71	2570	3440	75	59-101	10	30
Benzo(g,h,i)perylene	8270D	2760	3290	84	3030	3440	88	67-113	9	30
Benzo(k)fluoranthene	8270D	2620	3290	80	2930	3440	85	64-107	11	30
Chrysene	8270D	2440	3290	74	2690	3440	78	62-103	9	30
Dibenz(a,h)anthracene	8270D	2560	3290	78	2850	3440	83	58-119	11	30
Fluoranthene	8270D	2550	3290	77	2770	3440	80	59-104	8	30
Fluorene	8270D	1780	3290	54	2160	3440	63	54-93	20	30
Indeno(1,2,3-cd)pyrene	8270D	2510	3290	76	2760	3440	80	64-114	10	30
Naphthalene	8270D	1280	3290	39 *	1880	3440	55	48-85	38*	30
Phenanthrene	8270D	2070	3290	63	2410	3440	70	60-95	15	30
Pyrene	8270D	2300	3290	70	2640	3440	77	65-107	14	30

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 03/29/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units: ug/Kg
Basis: Dry

		Lab Control Sample RQ2103107-02			Duplicate Lab Control Sample RQ2103107-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	2160	3400	63	2100	3330	63	50-86	3	30
Acenaphthene	8270D	2240	3400	66	2200	3330	66	52-91	2	30
Acenaphthylene	8270D	2500	3400	74	2460	3330	74	53-97	1	30
Anthracene	8270D	2600	3400	76	2530	3330	76	63-98	2	30
Benz(a)anthracene	8270D	2620	3400	77	2540	3330	76	59-99	3	30
Benzo(a)pyrene	8270D	3430	3400	101	3300	3330	99	71-129	4	30
Benzo(b)fluoranthene	8270D	2620	3400	77	2510	3330	76	59-101	4	30
Benzo(g,h,i)perylene	8270D	3280	3400	97	3280	3330	99	67-113	<1	30
Benzo(k)fluoranthene	8270D	2720	3400	80	2650	3330	80	64-107	3	30
Chrysene	8270D	2680	3400	79	2630	3330	79	62-103	2	30
Dibenz(a,h)anthracene	8270D	3010	3400	89	2950	3330	89	58-119	2	30
Fluoranthene	8270D	2660	3400	78	2600	3330	78	59-104	2	30
Fluorene	8270D	2390	3400	70	2350	3330	71	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	3010	3400	89	2980	3330	90	64-114	1	30
Naphthalene	8270D	2120	3400	62	2030	3330	61	48-85	4	30
Phenanthrene	8270D	2440	3400	72	2380	3330	72	60-95	2	30
Pyrene	8270D	2690	3400	79	2620	3330	79	65-107	2	30

Client: Leader Professional Services, Inc. **Service Request:** R2102621
Project: Former Bisonite/235.198A **Date Analyzed:** 04/01/21
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units: ug/Kg
Basis: Dry

		Lab Control Sample RQ2103266-04			Duplicate Lab Control Sample RQ2103266-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	2350	3400	69	2230	3220	69	50-86	5	30
Acenaphthene	8270D	2460	3400	72	2320	3220	72	52-91	6	30
Acenaphthylene	8270D	2650	3400	78	2500	3220	78	53-97	6	30
Anthracene	8270D	2750	3400	81	2600	3220	81	63-98	6	30
Benz(a)anthracene	8270D	2660	3400	78	2560	3220	79	59-99	4	30
Benzo(a)pyrene	8270D	3290	3400	97	3080	3220	96	71-129	7	30
Benzo(b)fluoranthene	8270D	2670	3400	78	2500	3220	78	59-101	7	30
Benzo(g,h,i)perylene	8270D	3010	3400	89	2820	3220	88	67-113	7	30
Benzo(k)fluoranthene	8270D	2880	3400	85	2720	3220	85	64-107	6	30
Chrysene	8270D	2740	3400	81	2590	3220	80	62-103	6	30
Dibenz(a,h)anthracene	8270D	2800	3400	82	2660	3220	83	58-119	5	30
Fluoranthene	8270D	2700	3400	79	2560	3220	80	59-104	5	30
Fluorene	8270D	2550	3400	75	2420	3220	75	54-93	5	30
Indeno(1,2,3-cd)pyrene	8270D	2620	3400	77	2530	3220	78	64-114	4	30
Naphthalene	8270D	2310	3400	68	2190	3220	68	48-85	5	30
Phenanthrene	8270D	2640	3400	78	2480	3220	77	60-95	6	30
Pyrene	8270D	2830	3400	83	2680	3220	83	65-107	5	30

General Chemistry

ALS Environmental—Rochester Laboratory
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dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSB-3 0-2	**Units:**	Percent
Lab Code:	R2102621-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-001DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	67.8	74.6	71.2	9	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/02/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-2 6	**Units:**	Percent
Lab Code:	R2102621-010	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-010DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	69.4	66.3	67.8	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102621
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	04/02/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSB-2 12	**Units:**	Percent
Lab Code:	R2102621-015	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102621-015DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	86.4	86.9	86.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

April 02, 2021 Service Request No:R2102620

Frank Thomas
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

Laboratory Results for: Former Bisonite

Dear Frank,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **R2102620.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Peter von
Schondorf

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Narrative Documents

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Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite	**Date Received:**	03/19/2021
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Seventeen soil samples were received for analysis at ALS Environmental on 03/19/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 03/26/2021: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample matrix. The LCS/LCSD are within limits for all analytes. No further corrective action was required.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by ______________________ Date 04/02/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-6 0-2			Lab ID: R2102620-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	80.7				Percent	ALS SOP
Acenaphthene	920	J	790	4200	ug/Kg	8270D
Anthracene	4100	J	700	4200	ug/Kg	8270D
Benz(a)anthracene	30000		620	4200	ug/Kg	8270D
Benzo(a)pyrene	48000		1200	4200	ug/Kg	8270D
Benzo(b)fluoranthene	59000		700	4200	ug/Kg	8270D
Benzo(g,h,i)perylene	38000		960	4200	ug/Kg	8270D
Benzo(k)fluoranthene	21000		680	4200	ug/Kg	8270D
Chrysene	43000		620	4200	ug/Kg	8270D
Dibenz(a,h)anthracene	6800		910	4200	ug/Kg	8270D
Fluoranthene	81000		1100	4200	ug/Kg	8270D
Fluorene	1200	J	780	4200	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	38000		1400	4200	ug/Kg	8270D
Phenanthrene	30000		590	4200	ug/Kg	8270D
Pyrene	66000		700	4200	ug/Kg	8270D

CLIENT ID: SSA-6 6			Lab ID: R2102620-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	77.2				Percent	ALS SOP
Anthracene	240	J	70	420	ug/Kg	8270D
Benz(a)anthracene	2000		62	420	ug/Kg	8270D
Benzo(a)pyrene	3500		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	4000		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	3000		96	420	ug/Kg	8270D
Benzo(k)fluoranthene	1400		67	420	ug/Kg	8270D
Chrysene	3100		61	420	ug/Kg	8270D
Dibenz(a,h)anthracene	480		90	420	ug/Kg	8270D
Fluoranthene	5500		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2900		140	420	ug/Kg	8270D
Phenanthrene	1800		59	420	ug/Kg	8270D
Pyrene	4200		69	420	ug/Kg	8270D

CLIENT ID: SSA-6 12			Lab ID: R2102620-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	79.2				Percent	ALS SOP

CLIENT ID: SSA-6 23			Lab ID: R2102620-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	79.7				Percent	ALS SOP
Anthracene	350	J	68	400	ug/Kg	8270D
Benz(a)anthracene	2800		60	400	ug/Kg	8270D
Benzo(a)pyrene	4800		110	400	ug/Kg	8270D
Benzo(b)fluoranthene	5800		67	400	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-6 23	Lab ID: R2102620-004					
Analyte	Results	Flag	MDL	MRL	Units	Method
Benzo(g,h,i)perylene	4300		93	400	ug/Kg	8270D
Benzo(k)fluoranthene	2000		65	400	ug/Kg	8270D
Chrysene	4300		60	400	ug/Kg	8270D
Dibenz(a,h)anthracene	690		88	400	ug/Kg	8270D
Fluoranthene	7200		110	400	ug/Kg	8270D
Fluorene	95	J	76	400	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	4100		130	400	ug/Kg	8270D
Phenanthrene	2300		57	400	ug/Kg	8270D
Pyrene	5600		67	400	ug/Kg	8270D

CLIENT ID: SSB-4 0-2	Lab ID: R2102620-005					
Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	75.3				Percent	ALS SOP
2-Methylnaphthalene	630	J	150	880	ug/Kg	8270D
Acenaphthene	840	J	170	880	ug/Kg	8270D
Acenaphthylene	300	J	180	880	ug/Kg	8270D
Anthracene	2500		150	880	ug/Kg	8270D
Benz(a)anthracene	15000		140	880	ug/Kg	8270D
Benzo(a)pyrene	24000	E	240	880	ug/Kg	8270D
Benzo(b)fluoranthene	31000	E	150	880	ug/Kg	8270D
Benzo(g,h,i)perylene	15000		210	880	ug/Kg	8270D
Benzo(k)fluoranthene	9900		150	880	ug/Kg	8270D
Chrysene	21000	E	130	880	ug/Kg	8270D
Dibenz(a,h)anthracene	3000		200	880	ug/Kg	8270D
Fluoranthene	30000	E	230	880	ug/Kg	8270D
Fluorene	950		170	880	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	16000		290	880	ug/Kg	8270D
Naphthalene	390	J	170	880	ug/Kg	8270D
Phenanthrene	15000		130	880	ug/Kg	8270D
Pyrene	26000	E	150	880	ug/Kg	8270D
2-Methylnaphthalene	690	DJ	370	2200	ug/Kg	8270D
Acenaphthene	910	DJ	420	2200	ug/Kg	8270D
Anthracene	2600	D	370	2200	ug/Kg	8270D
Benz(a)anthracene	16000	D	330	2200	ug/Kg	8270D
Benzo(a)pyrene	26000	D	590	2200	ug/Kg	8270D
Benzo(b)fluoranthene	32000	D	370	2200	ug/Kg	8270D
Benzo(g,h,i)perylene	18000	D	510	2200	ug/Kg	8270D
Benzo(k)fluoranthene	11000	D	360	2200	ug/Kg	8270D
Chrysene	23000	D	330	2200	ug/Kg	8270D
Dibenz(a,h)anthracene	3600	D	480	2200	ug/Kg	8270D
Fluoranthene	42000	D	560	2200	ug/Kg	8270D
Fluorene	1000	DJ	420	2200	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-4 0-2			Lab ID: R2102620-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Indeno(1,2,3-cd)pyrene	19000	D	710	2200	ug/Kg	8270D
Phenanthrene	18000	D	320	2200	ug/Kg	8270D
Pyrene	35000	D	370	2200	ug/Kg	8270D

CLIENT ID: SSB-4 5			Lab ID: R2102620-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	73.3				Percent	ALS SOP
2-Methylnaphthalene	220	J	150	900	ug/Kg	8270D
Acenaphthene	1800		170	900	ug/Kg	8270D
Acenaphthylene	280	J	190	900	ug/Kg	8270D
Anthracene	4500		160	900	ug/Kg	8270D
Benz(a)anthracene	16000		140	900	ug/Kg	8270D
Benzo(a)pyrene	24000	E	240	900	ug/Kg	8270D
Benzo(b)fluoranthene	30000	E	150	900	ug/Kg	8270D
Benzo(g,h,i)perylene	14000		210	900	ug/Kg	8270D
Benzo(k)fluoranthene	10000		150	900	ug/Kg	8270D
Chrysene	21000	E	140	900	ug/Kg	8270D
Dibenz(a,h)anthracene	2900		200	900	ug/Kg	8270D
Fluoranthene	31000	E	230	900	ug/Kg	8270D
Fluorene	1900		170	900	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	15000		290	900	ug/Kg	8270D
Phenanthrene	19000	E	130	900	ug/Kg	8270D
Pyrene	27000	E	150	900	ug/Kg	8270D
Acenaphthene	2100	DJ	850	4500	ug/Kg	8270D
Anthracene	5400	D	760	4500	ug/Kg	8270D
Benz(a)anthracene	20000	D	670	4500	ug/Kg	8270D
Benzo(a)pyrene	29000	D	1200	4500	ug/Kg	8270D
Benzo(b)fluoranthene	34000	D	750	4500	ug/Kg	8270D
Benzo(g,h,i)perylene	21000	D	1100	4500	ug/Kg	8270D
Benzo(k)fluoranthene	12000	D	730	4500	ug/Kg	8270D
Chrysene	26000	D	670	4500	ug/Kg	8270D
Dibenz(a,h)anthracene	3800	DJ	980	4500	ug/Kg	8270D
Fluoranthene	57000	D	1200	4500	ug/Kg	8270D
Fluorene	2300	DJ	850	4500	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	21000	D	1500	4500	ug/Kg	8270D
Phenanthrene	28000	D	640	4500	ug/Kg	8270D
Pyrene	42000	D	750	4500	ug/Kg	8270D

CLIENT ID: SSB-4 10			Lab ID: R2102620-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.3				Percent	ALS SOP
Acenaphthene	590	J	160	840	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSB-4 10	Lab ID: R2102620-007					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthylene	280	J	170	840	ug/Kg	8270D
Anthracene	2100		140	840	ug/Kg	8270D
Benz(a)anthracene	13000		130	840	ug/Kg	8270D
Benzo(a)pyrene	21000	E	230	840	ug/Kg	8270D
Benzo(b)fluoranthene	27000	E	140	840	ug/Kg	8270D
Benzo(g,h,i)perylene	14000		200	840	ug/Kg	8270D
Benzo(k)fluoranthene	8700		140	840	ug/Kg	8270D
Chrysene	18000	E	130	840	ug/Kg	8270D
Dibenz(a,h)anthracene	2700		190	840	ug/Kg	8270D
Fluoranthene	26000	E	210	840	ug/Kg	8270D
Fluorene	710	J	160	840	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	14000		270	840	ug/Kg	8270D
Phenanthrene	12000		120	840	ug/Kg	8270D
Pyrene	22000	E	140	840	ug/Kg	8270D
Acenaphthene	660	DJ	400	2100	ug/Kg	8270D
Anthracene	2200	D	350	2100	ug/Kg	8270D
Benz(a)anthracene	14000	D	310	2100	ug/Kg	8270D
Benzo(a)pyrene	23000	D	560	2100	ug/Kg	8270D
Benzo(b)fluoranthene	29000	D	350	2100	ug/Kg	8270D
Benzo(g,h,i)perylene	15000	D	480	2100	ug/Kg	8270D
Benzo(k)fluoranthene	11000	D	340	2100	ug/Kg	8270D
Chrysene	20000	D	310	2100	ug/Kg	8270D
Dibenz(a,h)anthracene	3000	D	460	2100	ug/Kg	8270D
Fluoranthene	37000	D	530	2100	ug/Kg	8270D
Fluorene	790	DJ	390	2100	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	16000	D	680	2100	ug/Kg	8270D
Phenanthrene	14000	D	300	2100	ug/Kg	8270D
Pyrene	30000	D	350	2100	ug/Kg	8270D

CLIENT ID: SSB-4 18	Lab ID: R2102620-008					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.8				Percent	ALS SOP
Benz(a)anthracene	87	J	55	370	ug/Kg	8270D
Benzo(a)pyrene	120	J	99	370	ug/Kg	8270D
Benzo(b)fluoranthene	150	J	62	370	ug/Kg	8270D
Benzo(g,h,i)perylene	110	J	86	370	ug/Kg	8270D
Chrysene	120	J	55	370	ug/Kg	8270D
Fluoranthene	240	J	93	370	ug/Kg	8270D
Phenanthrene	110	J	53	370	ug/Kg	8270D
Pyrene	180	J	62	370	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-5 21 DUP	Lab ID: R2102620-009					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	83.4				Percent	ALS SOP

CLIENT ID: SSA-5 0.2	Lab ID: R2102620-010					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	88.4				Percent	ALS SOP
Anthracene	210	J	63	370	ug/Kg	8270D
Benz(a)anthracene	1800		56	370	ug/Kg	8270D
Benzo(a)pyrene	3300		99	370	ug/Kg	8270D
Benzo(b)fluoranthene	4100		63	370	ug/Kg	8270D
Benzo(g,h,i)perylene	2300		86	370	ug/Kg	8270D
Benzo(k)fluoranthene	1400		61	370	ug/Kg	8270D
Chrysene	2900		55	370	ug/Kg	8270D
Dibenz(a,h)anthracene	440		81	370	ug/Kg	8270D
Fluoranthene	5000		94	370	ug/Kg	8270D
Fluorene	80	J	70	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	2300		120	370	ug/Kg	8270D
Phenanthrene	1600		53	370	ug/Kg	8270D
Pyrene	3900		62	370	ug/Kg	8270D

CLIENT ID: SSA-5 6	Lab ID: R2102620-011					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.1				Percent	ALS SOP
Benz(a)anthracene	280	J	62	420	ug/Kg	8270D
Benzo(a)pyrene	460		120	420	ug/Kg	8270D
Benzo(b)fluoranthene	570		70	420	ug/Kg	8270D
Benzo(g,h,i)perylene	430		96	420	ug/Kg	8270D
Benzo(k)fluoranthene	200	J	68	420	ug/Kg	8270D
Chrysene	430		62	420	ug/Kg	8270D
Fluoranthene	740		110	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	380	J	140	420	ug/Kg	8270D
Phenanthrene	230	J	59	420	ug/Kg	8270D
Pyrene	580		70	420	ug/Kg	8270D

CLIENT ID: SSA-5 12	Lab ID: R2102620-012					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.6				Percent	ALS SOP
Benz(a)anthracene	490		61	410	ug/Kg	8270D
Benzo(a)pyrene	830		110	410	ug/Kg	8270D
Benzo(b)fluoranthene	980		69	410	ug/Kg	8270D
Benzo(g,h,i)perylene	710		95	410	ug/Kg	8270D
Benzo(k)fluoranthene	360	J	67	410	ug/Kg	8270D
Chrysene	770		61	410	ug/Kg	8270D
Dibenz(a,h)anthracene	110	J	89	410	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-5 12			Lab ID: R2102620-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	1400		110	410	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	660		140	410	ug/Kg	8270D
Phenanthrene	450		58	410	ug/Kg	8270D
Pyrene	1100		69	410	ug/Kg	8270D

CLIENT ID: SSA-5 21			Lab ID: R2102620-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	82.3				Percent	ALS SOP

CLIENT ID: SSA-4 0-2			Lab ID: R2102620-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	66.7				Percent	ALS SOP
Acenaphthene	1300	J	930	4900	ug/Kg	8270D
Anthracene	6500		820	4900	ug/Kg	8270D
Benz(a)anthracene	53000		730	4900	ug/Kg	8270D
Benzo(a)pyrene	89000		1400	4900	ug/Kg	8270D
Benzo(b)fluoranthene	120000	E	820	4900	ug/Kg	8270D
Benzo(g,h,i)perylene	61000		1200	4900	ug/Kg	8270D
Benzo(k)fluoranthene	45000		800	4900	ug/Kg	8270D
Chrysene	88000		720	4900	ug/Kg	8270D
Dibenz(a,h)anthracene	12000		1100	4900	ug/Kg	8270D
Fluoranthene	140000	E	1300	4900	ug/Kg	8270D
Fluorene	2000	J	920	4900	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	61000		1600	4900	ug/Kg	8270D
Phenanthrene	58000		700	4900	ug/Kg	8270D
Pyrene	120000	E	820	4900	ug/Kg	8270D
Anthracene	6400	DJ	1700	9800	ug/Kg	8270D
Benz(a)anthracene	53000	D	1500	9800	ug/Kg	8270D
Benzo(a)pyrene	89000	D	2700	9800	ug/Kg	8270D
Benzo(b)fluoranthene	120000	D	1700	9800	ug/Kg	8270D
Benzo(g,h,i)perylene	60000	D	2300	9800	ug/Kg	8270D
Benzo(k)fluoranthene	42000	D	1600	9800	ug/Kg	8270D
Chrysene	91000	D	1500	9800	ug/Kg	8270D
Dibenz(a,h)anthracene	12000	D	2200	9800	ug/Kg	8270D
Fluoranthene	170000	D	2500	9800	ug/Kg	8270D
Fluorene	2000	DJ	1900	9800	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	62000	D	3200	9800	ug/Kg	8270D
Phenanthrene	62000	D	1400	9800	ug/Kg	8270D
Pyrene	130000	D	1700	9800	ug/Kg	8270D

CLIENT ID: SSA-4 5			Lab ID: R2102620-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	78.6				Percent	ALS SOP

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-4 5			Lab ID: R2102620-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acenaphthene	130	J	80	420	ug/Kg	8270D
Acenaphthylene	110	J	86	420	ug/Kg	8270D
Anthracene	660		71	420	ug/Kg	8270D
Benz(a)anthracene	5800		63	420	ug/Kg	8270D
Benzo(a)pyrene	9800	E	120	420	ug/Kg	8270D
Benzo(b)fluoranthene	13000	E	71	420	ug/Kg	8270D
Benzo(g,h,i)perylene	7000		97	420	ug/Kg	8270D
Benzo(k)fluoranthene	4400		68	420	ug/Kg	8270D
Chrysene	8800	E	62	420	ug/Kg	8270D
Dibenz(a,h)anthracene	1300		92	420	ug/Kg	8270D
Fluoranthene	12000	E	110	420	ug/Kg	8270D
Fluorene	200	J	79	420	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	6900		140	420	ug/Kg	8270D
Phenanthrene	4900		60	420	ug/Kg	8270D
Pyrene	10000	E	70	420	ug/Kg	8270D
Anthracene	690	DJ	150	840	ug/Kg	8270D
Benz(a)anthracene	6200	D	130	840	ug/Kg	8270D
Benzo(a)pyrene	11000	D	230	840	ug/Kg	8270D
Benzo(b)fluoranthene	14000	D	150	840	ug/Kg	8270D
Benzo(g,h,i)perylene	6900	D	200	840	ug/Kg	8270D
Benzo(k)fluoranthene	4800	D	140	840	ug/Kg	8270D
Chrysene	9900	D	130	840	ug/Kg	8270D
Dibenz(a,h)anthracene	1400	D	190	840	ug/Kg	8270D
Fluoranthene	17000	D	220	840	ug/Kg	8270D
Fluorene	200	DJ	160	840	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	7200	D	280	840	ug/Kg	8270D
Phenanthrene	5700	D	120	840	ug/Kg	8270D
Pyrene	13000	D	140	840	ug/Kg	8270D

CLIENT ID: SSA-4 8			Lab ID: R2102620-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	73.9				Percent	ALS SOP
Acenaphthene	120	J	84	450	ug/Kg	8270D
Acenaphthylene	91	J	90	450	ug/Kg	8270D
Anthracene	610		75	450	ug/Kg	8270D
Benz(a)anthracene	4400		66	450	ug/Kg	8270D
Benzo(a)pyrene	7600		120	450	ug/Kg	8270D
Benzo(b)fluoranthene	10000	E	75	450	ug/Kg	8270D
Benzo(g,h,i)perylene	5500		110	450	ug/Kg	8270D
Benzo(k)fluoranthene	3300		72	450	ug/Kg	8270D
Chrysene	7100		66	450	ug/Kg	8270D
Dibenz(a,h)anthracene	1000		97	450	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: SSA-4 8			Lab ID: R2102620-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Fluoranthene	11000	E	120	450	ug/Kg	8270D
Fluorene	190	J	84	450	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5300		150	450	ug/Kg	8270D
Phenanthrene	4400		63	450	ug/Kg	8270D
Pyrene	9100	E	74	450	ug/Kg	8270D
Anthracene	640	DJ	150	890	ug/Kg	8270D
Benz(a)anthracene	4900	D	140	890	ug/Kg	8270D
Benzo(a)pyrene	8100	D	240	890	ug/Kg	8270D
Benzo(b)fluoranthene	11000	D	150	890	ug/Kg	8270D
Benzo(g,h,i)perylene	5300	D	210	890	ug/Kg	8270D
Benzo(k)fluoranthene	3700	D	150	890	ug/Kg	8270D
Chrysene	7700	D	140	890	ug/Kg	8270D
Dibenz(a,h)anthracene	1000	D	200	890	ug/Kg	8270D
Fluoranthene	14000	D	230	890	ug/Kg	8270D
Fluorene	210	DJ	170	890	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	5200	D	290	890	ug/Kg	8270D
Phenanthrene	4900	D	130	890	ug/Kg	8270D
Pyrene	11000	D	150	890	ug/Kg	8270D

CLIENT ID: SSA-4 18			Lab ID: R2102620-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Total Solids	76.1				Percent	ALS SOP
Acenaphthene	88	J	82	430	ug/Kg	8270D
Anthracene	420	J	73	430	ug/Kg	8270D
Benz(a)anthracene	3100		65	430	ug/Kg	8270D
Benzo(a)pyrene	5200		120	430	ug/Kg	8270D
Benzo(b)fluoranthene	6800		73	430	ug/Kg	8270D
Benzo(g,h,i)perylene	3800		100	430	ug/Kg	8270D
Benzo(k)fluoranthene	2300		70	430	ug/Kg	8270D
Chrysene	5000		64	430	ug/Kg	8270D
Dibenz(a,h)anthracene	690		95	430	ug/Kg	8270D
Fluoranthene	8700		110	430	ug/Kg	8270D
Fluorene	140	J	82	430	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	3800		140	430	ug/Kg	8270D
Phenanthrene	3200		62	430	ug/Kg	8270D
Pyrene	7100		73	430	ug/Kg	8270D

Sample Receipt Information

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www.alsglobal.com

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2102620-001	SSA-6 0-2	3/18/2021	0955
R2102620-002	SSA-6 6	3/18/2021	1012
R2102620-003	SSA-6 12	3/18/2021	1015
R2102620-004	SSA-6 23	3/18/2021	1020
R2102620-005	SSB-4 0-2	3/18/2021	1100
R2102620-006	SSB-4 5	3/18/2021	1103
R2102620-007	SSB-4 10	3/18/2021	1104
R2102620-008	SSB-4 18	3/18/2021	1105
R2102620-009	SSA-5 21 DUP	3/18/2021	1145
R2102620-010	SSA-5 0.2	3/18/2021	1135
R2102620-011	SSA-5 6	3/18/2021	1138
R2102620-012	SSA-5 12	3/18/2021	1140
R2102620-013	SSA-5 21	3/18/2021	1145
R2102620-014	SSA-4 0-2	3/18/2021	1200
R2102620-015	SSA-4 5	3/18/2021	1215
R2102620-016	SSA-4 8	3/18/2021	1220
R2102620-017	SSA-4 18	3/18/2021	1230

ALS

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004560

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 5

Project Name: Former Bisonite
Project Number: 235.198A
Project Manager: Frank Thomas
Report CC: Pete Vonschondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Road, Ste. 2, Pittsford, NY 14534
Phone #: 585 248-2413
Email: fthomas@leaderdink.com
Sampler's Signature: [signature]
Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 4°C (8270 PAH)

Analysis columns: NUMBER OF CONTAINERS; GC/MS VOAs ○8260 ○624 ○CLP; GC/MS SVOAs ○8270 ○625; GC VOAs ○8021 ○601/602; PESTICIDES ○8081 ○608; PCBs ○8082 ○608; METALS, TOTAL (List in comments below); METALS, DISSOLVED (List in comments below); 8270 PAH

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ____

REMARKS/ ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	8270 PAH
					X
SSA-6 0-2"		3/18/21	9:55	SO	X
SSA-6 6"		3/18/21	10:12	SO	X
SSA-6 12"		3/18/21	10:15	SO	X
SSA-6 23"		3/18/21	10:20	SO	X
SSB-4 0-2"		3/18/21	11:00	SO	X
SSB-4 5"		|	11:03	SO	X
SSB-4 10"		|	11:04	SO	X
SSB-4 18"		|	11:05	SO	X
SSA-5 21" DUP		|	11:45	SO	X
SSA-5 21" MS/MSD		|	11:45	SO	

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Cat B Deliverables

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE ____

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata X Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	[signature]	[signature]				
Printed Name	Alec Minaris	Daniel Ward				
Firm	Leader	ALS				
Date/Time	3/19/21 16:50	3/19/21 1650				

R2102620 5
Leader Professional Services, Inc.
Former Bisonite

Distribution: White - Lab Copy; Yellow - Return to Originator

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004561

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Project Name: Former Bisonite	Project Number: 235.198A
Project Manager:	Report CC: Pete von Schondorf, Rob Murphy
Company/Address: Leader Professional Services, 271 Marsh Road, Pittsford, NY 14534	
Phone #: 585 248-2413	Email: fthomas@leaderlink.com
Sampler's Signature:	Sampler's Printed Name: Frank Thomas

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 4°

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs 8260 624 CLP	GC/MS SVOAs 8270 625	GC VOAs 8021 601/602	PESTICIDES 8081 608	PCBs 8082 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	8270 PAH						REMARKS/ ALTERNATE DESCRIPTION
SSA-5 0-2"		3/18/21	11:35	SO									X						
SSA-5 6"			11:38										X						
SSA-5 12"			11:40										X						
SSA-5 21"			11:45										X						
SSA-4 0-2"			12:00										X						
SSA-4 5"			12:15										X						
SSA-4 8"			12:20										X						
SSA-4 18"			12:30										X						

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata X Yes ___ No

INVOICE INFORMATION
PO # 235.198A
BILL TO: Leader

	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature						
Printed Name		Daniel Ward				
Firm		ALS				
Date/Time		3/19/21 / 1650				

R2102620 5
Leader Professional Services, Inc.
Former Bisonite

Distribution: White - Lab Copy; Yellow - Return to Originator

R2102620 5
Leader Professional Services, Inc.
Former Bisonite

Cooler Receipt and Preservation Check Form

Project/Client Leader Folder Number________.

Cooler received on 3/19/21 by: dw COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y N
2	Custody papers properly completed (ink, signed)?	Y N
3	Did all bottles arrive in good condition (unbroken)?	Y N
4	Circle: Wet Ice Dry Ice Gel packs present?	Y N

5a	Perchlorate samples have required headspace?	Y N NA
5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 3/19/21 Time: 1705 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	6.9						
Within 0-6°C?	Y N*	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: ________ Ice melted Poorly Packed (described below)* Same Day Rule

&Client Approval to Run Samples:________ Standing Approval Client aware at drop-off Client notified by:________

All samples held in storage location: R002 by dw on 3/19/21 at 1705
5035 samples placed in storage location: ______ by ______ on ______ at ______ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date : 3/22/21 Time: 1326 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 101920-1SR
Explain all Discrepancies/ Other Comments:
* Not enough gel packs provided to cool samples down.

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [illegible]
PC Secondary Review: [illegible] 3/23/21

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r19.doc 03/02/2021

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102620-001.01					
	8270D,ALS SOP				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-002.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-003.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-004.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-005.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-006.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-007.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-008.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-009.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-010.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	

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Internal Chain of Custody Report

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2102620-011.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-012.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-013.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-013.02					
		3/22/2021	1332	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-014.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-015.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-016.01					
	ALS SOP,8270D,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	
R2102620-017.01					
	ALS SOP,8270D				
		3/22/2021	1329	SMO / GLAFORCE	
		3/22/2021	1332	R-002 / GLAFORCE	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-6 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102620-001	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-6 6	**Date Collected:**	03/18/21
Lab Code:	R2102620-002	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-6 12	**Date Collected:**	03/18/21
Lab Code:	R2102620-003	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-6 23	**Date Collected:**	03/18/21
Lab Code:	R2102620-004	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Analyst Summary report

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A

Sample Name: SSB-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-005 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name: SSB-4 0-2 **Date Collected:** 03/18/21
Lab Code: R2102620-005.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: SSB-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-006 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSB-4 5 **Date Collected:** 03/18/21
Lab Code: R2102620-006.R01 **Date Received:** 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		

Sample Name:	SSB-4 10	**Date Collected:**	03/18/21
Lab Code:	R2102620-007	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSB-4 10	**Date Collected:**	03/18/21
Lab Code:	R2102620-007.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSB-4 18	**Date Collected:**	03/18/21
Lab Code:	R2102620-008	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	SSA-5 21 DUP	**Date Collected:**	03/18/21
Lab Code:	R2102620-009	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Client: Leader Professional Services, Inc.
Service Request: R2102620
Project: Former Bisonite/235.198A

Sample Name: SSA-5 0.2
Date Collected: 03/18/21
Lab Code: R2102620-010
Date Received: 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 6
Date Collected: 03/18/21
Lab Code: R2102620-011
Date Received: 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 12
Date Collected: 03/18/21
Lab Code: R2102620-012
Date Received: 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: SSA-5 21
Date Collected: 03/18/21
Lab Code: R2102620-013
Date Received: 03/19/21
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-4 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102620-014	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSA-4 0-2	**Date Collected:**	03/18/21
Lab Code:	R2102620-014.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-4 5	**Date Collected:**	03/18/21
Lab Code:	R2102620-015	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSA-4 5	**Date Collected:**	03/18/21
Lab Code:	R2102620-015.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Analyst Summary report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		

Sample Name:	SSA-4 8	**Date Collected:**	03/18/21
Lab Code:	R2102620-016	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	BALLGEIER
ALS SOP		KAWONG

Sample Name:	SSA-4 8	**Date Collected:**	03/18/21
Lab Code:	R2102620-016.R01	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ

Sample Name:	SSA-4 18	**Date Collected:**	03/18/21
Lab Code:	R2102620-017	**Date Received:**	03/19/21
Sample Matrix:	Soil		

Analysis Method	**Extracted/Digested By**	**Analyzed By**
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 09:55
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-001	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4200	U	4200	690	10	03/26/21 18:02	3/24/21	
Acenaphthene	**920**	**J**	4200	790	10	03/26/21 18:02	3/24/21	
Acenaphthylene	4200	U	4200	850	10	03/26/21 18:02	3/24/21	
Anthracene	**4100**	**J**	4200	700	10	03/26/21 18:02	3/24/21	
Benz(a)anthracene	**30000**		4200	620	10	03/26/21 18:02	3/24/21	
Benzo(a)pyrene	**48000**		4200	1200	10	03/26/21 18:02	3/24/21	
Benzo(b)fluoranthene	**59000**		4200	700	10	03/26/21 18:02	3/24/21	
Benzo(g,h,i)perylene	**38000**		4200	960	10	03/26/21 18:02	3/24/21	
Benzo(k)fluoranthene	**21000**		4200	680	10	03/26/21 18:02	3/24/21	
Chrysene	**43000**		4200	620	10	03/26/21 18:02	3/24/21	
Dibenz(a,h)anthracene	**6800**		4200	910	10	03/26/21 18:02	3/24/21	
Fluoranthene	**81000**		4200	1100	10	03/26/21 18:02	3/24/21	
Fluorene	**1200**	**J**	4200	780	10	03/26/21 18:02	3/24/21	
Indeno(1,2,3-cd)pyrene	**38000**		4200	1400	10	03/26/21 18:02	3/24/21	
Naphthalene	4200	U	4200	780	10	03/26/21 18:02	3/24/21	
Phenanthrene	**30000**		4200	590	10	03/26/21 18:02	3/24/21	
Pyrene	**66000**		4200	700	10	03/26/21 18:02	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	43	10 - 102	03/26/21 18:02	
Nitrobenzene-d5	43	10 - 95	03/26/21 18:02	
p-Terphenyl-d14	64	10 - 106	03/26/21 18:02	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 6	**Units:**	ug/Kg
Lab Code:	R2102620-002	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	69	1	03/25/21 19:44	3/24/21	
Acenaphthene	420	U	420	79	1	03/25/21 19:44	3/24/21	
Acenaphthylene	420	U	420	84	1	03/25/21 19:44	3/24/21	
Anthracene	**240**	**J**	420	70	1	03/25/21 19:44	3/24/21	
Benz(a)anthracene	**2000**		420	62	1	03/25/21 19:44	3/24/21	
Benzo(a)pyrene	**3500**		420	120	1	03/25/21 19:44	3/24/21	
Benzo(b)fluoranthene	**4000**		420	70	1	03/25/21 19:44	3/24/21	
Benzo(g,h,i)perylene	**3000**		420	96	1	03/25/21 19:44	3/24/21	
Benzo(k)fluoranthene	**1400**		420	67	1	03/25/21 19:44	3/24/21	
Chrysene	**3100**		420	61	1	03/25/21 19:44	3/24/21	
Dibenz(a,h)anthracene	**480**		420	90	1	03/25/21 19:44	3/24/21	
Fluoranthene	**5500**		420	110	1	03/25/21 19:44	3/24/21	
Fluorene	420	U	420	78	1	03/25/21 19:44	3/24/21	
Indeno(1,2,3-cd)pyrene	**2900**		420	140	1	03/25/21 19:44	3/24/21	
Naphthalene	420	U	420	78	1	03/25/21 19:44	3/24/21	
Phenanthrene	**1800**		420	59	1	03/25/21 19:44	3/24/21	
Pyrene	**4200**		420	69	1	03/25/21 19:44	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	48	10 - 102	03/25/21 19:44	
Nitrobenzene-d5	48	10 - 95	03/25/21 19:44	
p-Terphenyl-d14	73	10 - 106	03/25/21 19:44	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 12	**Units:**	ug/Kg
Lab Code:	R2102620-003	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420 U	420	70	1	03/25/21 20:13	3/24/21	
Acenaphthene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Acenaphthylene	420 U	420	86	1	03/25/21 20:13	3/24/21	
Anthracene	420 U	420	71	1	03/25/21 20:13	3/24/21	
Benz(a)anthracene	420 U	420	63	1	03/25/21 20:13	3/24/21	
Benzo(a)pyrene	420 U	420	120	1	03/25/21 20:13	3/24/21	
Benzo(b)fluoranthene	420 U	420	71	1	03/25/21 20:13	3/24/21	
Benzo(g,h,i)perylene	420 U	420	98	1	03/25/21 20:13	3/24/21	
Benzo(k)fluoranthene	420 U	420	69	1	03/25/21 20:13	3/24/21	
Chrysene	420 U	420	63	1	03/25/21 20:13	3/24/21	
Dibenz(a,h)anthracene	420 U	420	92	1	03/25/21 20:13	3/24/21	
Fluoranthene	420 U	420	110	1	03/25/21 20:13	3/24/21	
Fluorene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Indeno(1,2,3-cd)pyrene	420 U	420	140	1	03/25/21 20:13	3/24/21	
Naphthalene	420 U	420	80	1	03/25/21 20:13	3/24/21	
Phenanthrene	420 U	420	60	1	03/25/21 20:13	3/24/21	
Pyrene	420 U	420	71	1	03/25/21 20:13	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	31	10 - 102	03/25/21 20:13	
Nitrobenzene-d5	34	10 - 95	03/25/21 20:13	
p-Terphenyl-d14	53	10 - 106	03/25/21 20:13	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 23	**Units:**	ug/Kg
Lab Code:	R2102620-004	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400	U	400	67	1	03/26/21 14:05	3/24/21	
Acenaphthene	400	U	400	76	1	03/26/21 14:05	3/24/21	
Acenaphthylene	400	U	400	82	1	03/26/21 14:05	3/24/21	
Anthracene	**350**	**J**	400	68	1	03/26/21 14:05	3/24/21	
Benz(a)anthracene	**2800**		400	60	1	03/26/21 14:05	3/24/21	
Benzo(a)pyrene	**4800**		400	110	1	03/26/21 14:05	3/24/21	
Benzo(b)fluoranthene	**5800**		400	67	1	03/26/21 14:05	3/24/21	
Benzo(g,h,i)perylene	**4300**		400	93	1	03/26/21 14:05	3/24/21	
Benzo(k)fluoranthene	**2000**		400	65	1	03/26/21 14:05	3/24/21	
Chrysene	**4300**		400	60	1	03/26/21 14:05	3/24/21	
Dibenz(a,h)anthracene	**690**		400	88	1	03/26/21 14:05	3/24/21	
Fluoranthene	**7200**		400	110	1	03/26/21 14:05	3/24/21	
Fluorene	**95**	**J**	400	76	1	03/26/21 14:05	3/24/21	
Indeno(1,2,3-cd)pyrene	**4100**		400	130	1	03/26/21 14:05	3/24/21	
Naphthalene	400	U	400	76	1	03/26/21 14:05	3/24/21	
Phenanthrene	**2300**		400	57	1	03/26/21 14:05	3/24/21	
Pyrene	**5600**		400	67	1	03/26/21 14:05	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	23	10 - 102	03/26/21 14:05	
Nitrobenzene-d5	21	10 - 95	03/26/21 14:05	
p-Terphenyl-d14	41	10 - 106	03/26/21 14:05	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**690**	**DJ**	2200	370	5	03/29/21 19:10	3/24/21	
Acenaphthene	**910**	**DJ**	2200	420	5	03/29/21 19:10	3/24/21	
Acenaphthylene	2200	U	2200	450	5	03/29/21 19:10	3/24/21	
Anthracene	**2600**	**D**	2200	370	5	03/29/21 19:10	3/24/21	
Benz(a)anthracene	**16000**	**D**	2200	330	5	03/29/21 19:10	3/24/21	
Benzo(a)pyrene	**26000**	**D**	2200	590	5	03/29/21 19:10	3/24/21	
Benzo(b)fluoranthene	**32000**	**D**	2200	370	5	03/29/21 19:10	3/24/21	
Benzo(g,h,i)perylene	**18000**	**D**	2200	510	5	03/29/21 19:10	3/24/21	
Benzo(k)fluoranthene	**11000**	**D**	2200	360	5	03/29/21 19:10	3/24/21	
Chrysene	**23000**	**D**	2200	330	5	03/29/21 19:10	3/24/21	
Dibenz(a,h)anthracene	**3600**	**D**	2200	480	5	03/29/21 19:10	3/24/21	
Fluoranthene	**42000**	**D**	2200	560	5	03/29/21 19:10	3/24/21	
Fluorene	**1000**	**DJ**	2200	420	5	03/29/21 19:10	3/24/21	
Indeno(1,2,3-cd)pyrene	**19000**	**D**	2200	710	5	03/29/21 19:10	3/24/21	
Naphthalene	2200	U	2200	420	5	03/29/21 19:10	3/24/21	
Phenanthrene	**18000**	**D**	2200	320	5	03/29/21 19:10	3/24/21	
Pyrene	**35000**	**D**	2200	370	5	03/29/21 19:10	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	51	10 - 102	03/29/21 19:10	
Nitrobenzene-d5	55	10 - 95	03/29/21 19:10	
p-Terphenyl-d14	66	10 - 106	03/29/21 19:10	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**630 J**	880	150	2	03/26/21 18:31	3/24/21	
Acenaphthene	**840 J**	880	170	2	03/26/21 18:31	3/24/21	
Acenaphthylene	**300 J**	880	180	2	03/26/21 18:31	3/24/21	
Anthracene	**2500**	880	150	2	03/26/21 18:31	3/24/21	
Benz(a)anthracene	**15000**	880	140	2	03/26/21 18:31	3/24/21	
Benzo(a)pyrene	**24000 E**	880	240	2	03/26/21 18:31	3/24/21	
Benzo(b)fluoranthene	**31000 E**	880	150	2	03/26/21 18:31	3/24/21	
Benzo(g,h,i)perylene	**15000**	880	210	2	03/26/21 18:31	3/24/21	
Benzo(k)fluoranthene	**9900**	880	150	2	03/26/21 18:31	3/24/21	
Chrysene	**21000 E**	880	130	2	03/26/21 18:31	3/24/21	
Dibenz(a,h)anthracene	**3000**	880	200	2	03/26/21 18:31	3/24/21	
Fluoranthene	**30000 E**	880	230	2	03/26/21 18:31	3/24/21	
Fluorene	**950**	880	170	2	03/26/21 18:31	3/24/21	
Indeno(1,2,3-cd)pyrene	**16000**	880	290	2	03/26/21 18:31	3/24/21	
Naphthalene	**390 J**	880	170	2	03/26/21 18:31	3/24/21	
Phenanthrene	**15000**	880	130	2	03/26/21 18:31	3/24/21	
Pyrene	**26000 E**	880	150	2	03/26/21 18:31	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-005	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	47	10 - 102	03/26/21 18:31	
Nitrobenzene-d5	49	10 - 95	03/26/21 18:31	
p-Terphenyl-d14	62	10 - 106	03/26/21 18:31	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4500	U	4500	750	10	03/31/21 20:31	3/24/21	
Acenaphthene	**2100**	**DJ**	4500	850	10	03/31/21 20:31	3/24/21	
Acenaphthylene	4500	U	4500	910	10	03/31/21 20:31	3/24/21	
Anthracene	**5400**	**D**	4500	760	10	03/31/21 20:31	3/24/21	
Benz(a)anthracene	**20000**	**D**	4500	670	10	03/31/21 20:31	3/24/21	
Benzo(a)pyrene	**29000**	**D**	4500	1200	10	03/31/21 20:31	3/24/21	
Benzo(b)fluoranthene	**34000**	**D**	4500	750	10	03/31/21 20:31	3/24/21	
Benzo(g,h,i)perylene	**21000**	**D**	4500	1100	10	03/31/21 20:31	3/24/21	
Benzo(k)fluoranthene	**12000**	**D**	4500	730	10	03/31/21 20:31	3/24/21	
Chrysene	**26000**	**D**	4500	670	10	03/31/21 20:31	3/24/21	
Dibenz(a,h)anthracene	**3800**	**DJ**	4500	980	10	03/31/21 20:31	3/24/21	
Fluoranthene	**57000**	**D**	4500	1200	10	03/31/21 20:31	3/24/21	
Fluorene	**2300**	**DJ**	4500	850	10	03/31/21 20:31	3/24/21	
Indeno(1,2,3-cd)pyrene	**21000**	**D**	4500	1500	10	03/31/21 20:31	3/24/21	
Naphthalene	4500	U	4500	850	10	03/31/21 20:31	3/24/21	
Phenanthrene	**28000**	**D**	4500	640	10	03/31/21 20:31	3/24/21	
Pyrene	**42000**	**D**	4500	750	10	03/31/21 20:31	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	56	10 - 102	03/31/21 20:31	
Nitrobenzene-d5	56	10 - 95	03/31/21 20:31	
p-Terphenyl-d14	74	10 - 106	03/31/21 20:31	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	**220**	**J**	900	150	2	03/26/21 19:01	3/24/21	
Acenaphthene	**1800**		900	170	2	03/26/21 19:01	3/24/21	
Acenaphthylene	**280**	**J**	900	190	2	03/26/21 19:01	3/24/21	
Anthracene	**4500**		900	160	2	03/26/21 19:01	3/24/21	
Benz(a)anthracene	**16000**		900	140	2	03/26/21 19:01	3/24/21	
Benzo(a)pyrene	**24000**	**E**	900	240	2	03/26/21 19:01	3/24/21	
Benzo(b)fluoranthene	**30000**	**E**	900	150	2	03/26/21 19:01	3/24/21	
Benzo(g,h,i)perylene	**14000**		900	210	2	03/26/21 19:01	3/24/21	
Benzo(k)fluoranthene	**10000**		900	150	2	03/26/21 19:01	3/24/21	
Chrysene	**21000**	**E**	900	140	2	03/26/21 19:01	3/24/21	
Dibenz(a,h)anthracene	**2900**		900	200	2	03/26/21 19:01	3/24/21	
Fluoranthene	**31000**	**E**	900	230	2	03/26/21 19:01	3/24/21	
Fluorene	**1900**		900	170	2	03/26/21 19:01	3/24/21	
Indeno(1,2,3-cd)pyrene	**15000**		900	290	2	03/26/21 19:01	3/24/21	
Naphthalene	900	U	900	170	2	03/26/21 19:01	3/24/21	
Phenanthrene	**19000**	**E**	900	130	2	03/26/21 19:01	3/24/21	
Pyrene	**27000**	**E**	900	150	2	03/26/21 19:01	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-006	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	03/26/21 19:01	
Nitrobenzene-d5	48	10 - 95	03/26/21 19:01	
p-Terphenyl-d14	62	10 - 106	03/26/21 19:01	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	2100	U	2100	350	5	03/29/21 20:06	3/24/21	
Acenaphthene	**660**	**DJ**	2100	400	5	03/29/21 20:06	3/24/21	
Acenaphthylene	2100	U	2100	430	5	03/29/21 20:06	3/24/21	
Anthracene	**2200**	**D**	2100	350	5	03/29/21 20:06	3/24/21	
Benz(a)anthracene	**14000**	**D**	2100	310	5	03/29/21 20:06	3/24/21	
Benzo(a)pyrene	**23000**	**D**	2100	560	5	03/29/21 20:06	3/24/21	
Benzo(b)fluoranthene	**29000**	**D**	2100	350	5	03/29/21 20:06	3/24/21	
Benzo(g,h,i)perylene	**15000**	**D**	2100	480	5	03/29/21 20:06	3/24/21	
Benzo(k)fluoranthene	**11000**	**D**	2100	340	5	03/29/21 20:06	3/24/21	
Chrysene	**20000**	**D**	2100	310	5	03/29/21 20:06	3/24/21	
Dibenz(a,h)anthracene	**3000**	**D**	2100	460	5	03/29/21 20:06	3/24/21	
Fluoranthene	**37000**	**D**	2100	530	5	03/29/21 20:06	3/24/21	
Fluorene	**790**	**DJ**	2100	390	5	03/29/21 20:06	3/24/21	
Indeno(1,2,3-cd)pyrene	**16000**	**D**	2100	680	5	03/29/21 20:06	3/24/21	
Naphthalene	2100	U	2100	400	5	03/29/21 20:06	3/24/21	
Phenanthrene	**14000**	**D**	2100	300	5	03/29/21 20:06	3/24/21	
Pyrene	**30000**	**D**	2100	350	5	03/29/21 20:06	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	50	10 - 102	03/29/21 20:06	
Nitrobenzene-d5	52	10 - 95	03/29/21 20:06	
p-Terphenyl-d14	72	10 - 106	03/29/21 20:06	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	840 U	840	140	2	03/26/21 19:29	3/24/21	
Acenaphthene	**590 J**	840	160	2	03/26/21 19:29	3/24/21	
Acenaphthylene	**280 J**	840	170	2	03/26/21 19:29	3/24/21	
Anthracene	**2100**	840	140	2	03/26/21 19:29	3/24/21	
Benz(a)anthracene	**13000**	840	130	2	03/26/21 19:29	3/24/21	
Benzo(a)pyrene	**21000 E**	840	230	2	03/26/21 19:29	3/24/21	
Benzo(b)fluoranthene	**27000 E**	840	140	2	03/26/21 19:29	3/24/21	
Benzo(g,h,i)perylene	**14000**	840	200	2	03/26/21 19:29	3/24/21	
Benzo(k)fluoranthene	**8700**	840	140	2	03/26/21 19:29	3/24/21	
Chrysene	**18000 E**	840	130	2	03/26/21 19:29	3/24/21	
Dibenz(a,h)anthracene	**2700**	840	190	2	03/26/21 19:29	3/24/21	
Fluoranthene	**26000 E**	840	210	2	03/26/21 19:29	3/24/21	
Fluorene	**710 J**	840	160	2	03/26/21 19:29	3/24/21	
Indeno(1,2,3-cd)pyrene	**14000**	840	270	2	03/26/21 19:29	3/24/21	
Naphthalene	840 U	840	160	2	03/26/21 19:29	3/24/21	
Phenanthrene	**12000**	840	120	2	03/26/21 19:29	3/24/21	
Pyrene	**22000 E**	840	140	2	03/26/21 19:29	3/24/21	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Units:**	ug/Kg
Lab Code:	R2102620-007	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	03/26/21 19:29	
Nitrobenzene-d5	48	10 - 95	03/26/21 19:29	
p-Terphenyl-d14	66	10 - 106	03/26/21 19:29	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 18	**Units:**	ug/Kg
Lab Code:	R2102620-008	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370 U	370	62	1	03/26/21 14:34	3/24/21	
Acenaphthene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Acenaphthylene	370 U	370	75	1	03/26/21 14:34	3/24/21	
Anthracene	370 U	370	62	1	03/26/21 14:34	3/24/21	
Benz(a)anthracene	**87 J**	370	55	1	03/26/21 14:34	3/24/21	
Benzo(a)pyrene	**120 J**	370	99	1	03/26/21 14:34	3/24/21	
Benzo(b)fluoranthene	**150 J**	370	62	1	03/26/21 14:34	3/24/21	
Benzo(g,h,i)perylene	**110 J**	370	86	1	03/26/21 14:34	3/24/21	
Benzo(k)fluoranthene	370 U	370	60	1	03/26/21 14:34	3/24/21	
Chrysene	**120 J**	370	55	1	03/26/21 14:34	3/24/21	
Dibenz(a,h)anthracene	370 U	370	81	1	03/26/21 14:34	3/24/21	
Fluoranthene	**240 J**	370	93	1	03/26/21 14:34	3/24/21	
Fluorene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Indeno(1,2,3-cd)pyrene	370 U	370	120	1	03/26/21 14:34	3/24/21	
Naphthalene	370 U	370	70	1	03/26/21 14:34	3/24/21	
Phenanthrene	**110 J**	370	53	1	03/26/21 14:34	3/24/21	
Pyrene	**180 J**	370	62	1	03/26/21 14:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	29	10 - 102	03/26/21 14:34	
Nitrobenzene-d5	32	10 - 95	03/26/21 14:34	
p-Terphenyl-d14	60	10 - 106	03/26/21 14:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21 DUP	**Units:**	ug/Kg
Lab Code:	R2102620-009	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	390 U	390	65	1	03/26/21 15:03	3/24/21	
Acenaphthene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Acenaphthylene	390 U	390	80	1	03/26/21 15:03	3/24/21	
Anthracene	390 U	390	66	1	03/26/21 15:03	3/24/21	
Benz(a)anthracene	390 U	390	59	1	03/26/21 15:03	3/24/21	
Benzo(a)pyrene	390 U	390	110	1	03/26/21 15:03	3/24/21	
Benzo(b)fluoranthene	390 U	390	66	1	03/26/21 15:03	3/24/21	
Benzo(g,h,i)perylene	390 U	390	90	1	03/26/21 15:03	3/24/21	
Benzo(k)fluoranthene	390 U	390	64	1	03/26/21 15:03	3/24/21	
Chrysene	390 U	390	58	1	03/26/21 15:03	3/24/21	
Dibenz(a,h)anthracene	390 U	390	85	1	03/26/21 15:03	3/24/21	
Fluoranthene	390 U	390	99	1	03/26/21 15:03	3/24/21	
Fluorene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Indeno(1,2,3-cd)pyrene	390 U	390	130	1	03/26/21 15:03	3/24/21	
Naphthalene	390 U	390	74	1	03/26/21 15:03	3/24/21	
Phenanthrene	390 U	390	56	1	03/26/21 15:03	3/24/21	
Pyrene	390 U	390	65	1	03/26/21 15:03	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	37	10 - 102	03/26/21 15:03	
Nitrobenzene-d5	41	10 - 95	03/26/21 15:03	
p-Terphenyl-d14	62	10 - 106	03/26/21 15:03	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 0.2	**Units:**	ug/Kg
Lab Code:	R2102620-010	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	370	U	370	62	1	03/26/21 19:57	3/24/21	
Acenaphthene	370	U	370	71	1	03/26/21 19:57	3/24/21	
Acenaphthylene	370	U	370	76	1	03/26/21 19:57	3/24/21	
Anthracene	**210**	**J**	370	63	1	03/26/21 19:57	3/24/21	
Benz(a)anthracene	**1800**		370	56	1	03/26/21 19:57	3/24/21	
Benzo(a)pyrene	**3300**		370	99	1	03/26/21 19:57	3/24/21	
Benzo(b)fluoranthene	**4100**		370	63	1	03/26/21 19:57	3/24/21	
Benzo(g,h,i)perylene	**2300**		370	86	1	03/26/21 19:57	3/24/21	
Benzo(k)fluoranthene	**1400**		370	61	1	03/26/21 19:57	3/24/21	
Chrysene	**2900**		370	55	1	03/26/21 19:57	3/24/21	
Dibenz(a,h)anthracene	**440**		370	81	1	03/26/21 19:57	3/24/21	
Fluoranthene	**5000**		370	94	1	03/26/21 19:57	3/24/21	
Fluorene	**80**	**J**	370	70	1	03/26/21 19:57	3/24/21	
Indeno(1,2,3-cd)pyrene	**2300**		370	120	1	03/26/21 19:57	3/24/21	
Naphthalene	370	U	370	70	1	03/26/21 19:57	3/24/21	
Phenanthrene	**1600**		370	53	1	03/26/21 19:57	3/24/21	
Pyrene	**3900**		370	62	1	03/26/21 19:57	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	42	10 - 102	03/26/21 19:57	
Nitrobenzene-d5	45	10 - 95	03/26/21 19:57	
p-Terphenyl-d14	62	10 - 106	03/26/21 19:57	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:38
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 6	**Units:**	ug/Kg
Lab Code:	R2102620-011	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420 U	420	69	1	03/26/21 15:36	3/24/21	
Acenaphthene	420 U	420	79	1	03/26/21 15:36	3/24/21	
Acenaphthylene	420 U	420	85	1	03/26/21 15:36	3/24/21	
Anthracene	420 U	420	70	1	03/26/21 15:36	3/24/21	
Benz(a)anthracene	**280 J**	420	62	1	03/26/21 15:36	3/24/21	
Benzo(a)pyrene	**460**	420	120	1	03/26/21 15:36	3/24/21	
Benzo(b)fluoranthene	**570**	420	70	1	03/26/21 15:36	3/24/21	
Benzo(g,h,i)perylene	**430**	420	96	1	03/26/21 15:36	3/24/21	
Benzo(k)fluoranthene	**200 J**	420	68	1	03/26/21 15:36	3/24/21	
Chrysene	**430**	420	62	1	03/26/21 15:36	3/24/21	
Dibenz(a,h)anthracene	420 U	420	91	1	03/26/21 15:36	3/24/21	
Fluoranthene	**740**	420	110	1	03/26/21 15:36	3/24/21	
Fluorene	420 U	420	78	1	03/26/21 15:36	3/24/21	
Indeno(1,2,3-cd)pyrene	**380 J**	420	140	1	03/26/21 15:36	3/24/21	
Naphthalene	420 U	420	78	1	03/26/21 15:36	3/24/21	
Phenanthrene	**230 J**	420	59	1	03/26/21 15:36	3/24/21	
Pyrene	**580**	420	70	1	03/26/21 15:36	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	32	10 - 102	03/26/21 15:36	
Nitrobenzene-d5	33	10 - 95	03/26/21 15:36	
p-Terphenyl-d14	54	10 - 106	03/26/21 15:36	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 12	**Units:**	ug/Kg
Lab Code:	R2102620-012	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	410 U	410	68	1	03/26/21 16:05	3/24/21	
Acenaphthene	410 U	410	78	1	03/26/21 16:05	3/24/21	
Acenaphthylene	410 U	410	83	1	03/26/21 16:05	3/24/21	
Anthracene	410 U	410	69	1	03/26/21 16:05	3/24/21	
Benz(a)anthracene	**490**	410	61	1	03/26/21 16:05	3/24/21	
Benzo(a)pyrene	**830**	410	110	1	03/26/21 16:05	3/24/21	
Benzo(b)fluoranthene	**980**	410	69	1	03/26/21 16:05	3/24/21	
Benzo(g,h,i)perylene	**710**	410	95	1	03/26/21 16:05	3/24/21	
Benzo(k)fluoranthene	**360 J**	410	67	1	03/26/21 16:05	3/24/21	
Chrysene	**770**	410	61	1	03/26/21 16:05	3/24/21	
Dibenz(a,h)anthracene	**110 J**	410	89	1	03/26/21 16:05	3/24/21	
Fluoranthene	**1400**	410	110	1	03/26/21 16:05	3/24/21	
Fluorene	410 U	410	77	1	03/26/21 16:05	3/24/21	
Indeno(1,2,3-cd)pyrene	**660**	410	140	1	03/26/21 16:05	3/24/21	
Naphthalene	410 U	410	77	1	03/26/21 16:05	3/24/21	
Phenanthrene	**450**	410	58	1	03/26/21 16:05	3/24/21	
Pyrene	**1100**	410	69	1	03/26/21 16:05	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	32	10 - 102	03/26/21 16:05	
Nitrobenzene-d5	32	10 - 95	03/26/21 16:05	
p-Terphenyl-d14	52	10 - 106	03/26/21 16:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21	**Units:**	ug/Kg
Lab Code:	R2102620-013	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	400 U	400	67	1	03/26/21 16:34	3/24/21	
Acenaphthene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Acenaphthylene	400 U	400	82	1	03/26/21 16:34	3/24/21	
Anthracene	400 U	400	68	1	03/26/21 16:34	3/24/21	
Benz(a)anthracene	400 U	400	60	1	03/26/21 16:34	3/24/21	
Benzo(a)pyrene	400 U	400	110	1	03/26/21 16:34	3/24/21	
Benzo(b)fluoranthene	400 U	400	67	1	03/26/21 16:34	3/24/21	
Benzo(g,h,i)perylene	400 U	400	93	1	03/26/21 16:34	3/24/21	
Benzo(k)fluoranthene	400 U	400	65	1	03/26/21 16:34	3/24/21	
Chrysene	400 U	400	59	1	03/26/21 16:34	3/24/21	
Dibenz(a,h)anthracene	400 U	400	88	1	03/26/21 16:34	3/24/21	
Fluoranthene	400 U	400	110	1	03/26/21 16:34	3/24/21	
Fluorene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Indeno(1,2,3-cd)pyrene	400 U	400	130	1	03/26/21 16:34	3/24/21	
Naphthalene	400 U	400	76	1	03/26/21 16:34	3/24/21	
Phenanthrene	400 U	400	57	1	03/26/21 16:34	3/24/21	
Pyrene	400 U	400	67	1	03/26/21 16:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	03/26/21 16:34	
Nitrobenzene-d5	40	10 - 95	03/26/21 16:34	
p-Terphenyl-d14	60	10 - 106	03/26/21 16:34	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	9800	U	9800	1700	20	03/29/21 20:34	3/24/21	
Acenaphthene	9800	U	9800	1900	20	03/29/21 20:34	3/24/21	
Acenaphthylene	9800	U	9800	2000	20	03/29/21 20:34	3/24/21	
Anthracene	**6400**	**DJ**	9800	1700	20	03/29/21 20:34	3/24/21	
Benz(a)anthracene	**53000**	**D**	9800	1500	20	03/29/21 20:34	3/24/21	
Benzo(a)pyrene	**89000**	**D**	9800	2700	20	03/29/21 20:34	3/24/21	
Benzo(b)fluoranthene	**120000**	**D**	9800	1700	20	03/29/21 20:34	3/24/21	
Benzo(g,h,i)perylene	**60000**	**D**	9800	2300	20	03/29/21 20:34	3/24/21	
Benzo(k)fluoranthene	**42000**	**D**	9800	1600	20	03/29/21 20:34	3/24/21	
Chrysene	**91000**	**D**	9800	1500	20	03/29/21 20:34	3/24/21	
Dibenz(a,h)anthracene	**12000**	**D**	9800	2200	20	03/29/21 20:34	3/24/21	
Fluoranthene	**170000**	**D**	9800	2500	20	03/29/21 20:34	3/24/21	
Fluorene	**2000**	**DJ**	9800	1900	20	03/29/21 20:34	3/24/21	
Indeno(1,2,3-cd)pyrene	**62000**	**D**	9800	3200	20	03/29/21 20:34	3/24/21	
Naphthalene	9800	U	9800	1900	20	03/29/21 20:34	3/24/21	
Phenanthrene	**62000**	**D**	9800	1400	20	03/29/21 20:34	3/24/21	
Pyrene	**130000**	**D**	9800	1700	20	03/29/21 20:34	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	0 *	10 - 102	03/29/21 20:34	D
Nitrobenzene-d5	0 *	10 - 95	03/29/21 20:34	D
p-Terphenyl-d14	0 *	10 - 106	03/29/21 20:34	D

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	4900	U	4900	810	10	03/26/21 20:25	3/24/21	
Acenaphthene	**1300**	**J**	4900	930	10	03/26/21 20:25	3/24/21	
Acenaphthylene	4900	U	4900	990	10	03/26/21 20:25	3/24/21	
Anthracene	**6500**		4900	820	10	03/26/21 20:25	3/24/21	
Benz(a)anthracene	**53000**		4900	730	10	03/26/21 20:25	3/24/21	
Benzo(a)pyrene	**89000**		4900	1400	10	03/26/21 20:25	3/24/21	
Benzo(b)fluoranthene	**120000**	**E**	4900	820	10	03/26/21 20:25	3/24/21	
Benzo(g,h,i)perylene	**61000**		4900	1200	10	03/26/21 20:25	3/24/21	
Benzo(k)fluoranthene	**45000**		4900	800	10	03/26/21 20:25	3/24/21	
Chrysene	**88000**		4900	720	10	03/26/21 20:25	3/24/21	
Dibenz(a,h)anthracene	**12000**		4900	1100	10	03/26/21 20:25	3/24/21	
Fluoranthene	**140000**	**E**	4900	1300	10	03/26/21 20:25	3/24/21	
Fluorene	**2000**	**J**	4900	920	10	03/26/21 20:25	3/24/21	
Indeno(1,2,3-cd)pyrene	**61000**		4900	1600	10	03/26/21 20:25	3/24/21	
Naphthalene	4900	U	4900	920	10	03/26/21 20:25	3/24/21	
Phenanthrene	**58000**		4900	700	10	03/26/21 20:25	3/24/21	
Pyrene	**120000**	**E**	4900	820	10	03/26/21 20:25	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Units:**	ug/Kg
Lab Code:	R2102620-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	46	10 - 102	03/26/21 20:25	
Nitrobenzene-d5	47	10 - 95	03/26/21 20:25	
p-Terphenyl-d14	55	10 - 106	03/26/21 20:25	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	840	U	840	140	2	03/29/21 21:02	3/24/21	
Acenaphthene	840	U	840	160	2	03/29/21 21:02	3/24/21	
Acenaphthylene	840	U	840	180	2	03/29/21 21:02	3/24/21	
Anthracene	**690**	**DJ**	840	150	2	03/29/21 21:02	3/24/21	
Benz(a)anthracene	**6200**	**D**	840	130	2	03/29/21 21:02	3/24/21	
Benzo(a)pyrene	**11000**	**D**	840	230	2	03/29/21 21:02	3/24/21	
Benzo(b)fluoranthene	**14000**	**D**	840	150	2	03/29/21 21:02	3/24/21	
Benzo(g,h,i)perylene	**6900**	**D**	840	200	2	03/29/21 21:02	3/24/21	
Benzo(k)fluoranthene	**4800**	**D**	840	140	2	03/29/21 21:02	3/24/21	
Chrysene	**9900**	**D**	840	130	2	03/29/21 21:02	3/24/21	
Dibenz(a,h)anthracene	**1400**	**D**	840	190	2	03/29/21 21:02	3/24/21	
Fluoranthene	**17000**	**D**	840	220	2	03/29/21 21:02	3/24/21	
Fluorene	**200**	**DJ**	840	160	2	03/29/21 21:02	3/24/21	
Indeno(1,2,3-cd)pyrene	**7200**	**D**	840	280	2	03/29/21 21:02	3/24/21	
Naphthalene	840	U	840	160	2	03/29/21 21:02	3/24/21	
Phenanthrene	**5700**	**D**	840	120	2	03/29/21 21:02	3/24/21	
Pyrene	**13000**	**D**	840	140	2	03/29/21 21:02	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	45	10 - 102	03/29/21 21:02	
Nitrobenzene-d5	46	10 - 95	03/29/21 21:02	
p-Terphenyl-d14	56	10 - 106	03/29/21 21:02	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	420	U	420	70	1	03/26/21 20:53	3/24/21	
Acenaphthene	**130**	**J**	420	80	1	03/26/21 20:53	3/24/21	
Acenaphthylene	**110**	**J**	420	86	1	03/26/21 20:53	3/24/21	
Anthracene	**660**		420	71	1	03/26/21 20:53	3/24/21	
Benz(a)anthracene	**5800**		420	63	1	03/26/21 20:53	3/24/21	
Benzo(a)pyrene	**9800**	**E**	420	120	1	03/26/21 20:53	3/24/21	
Benzo(b)fluoranthene	**13000**	**E**	420	71	1	03/26/21 20:53	3/24/21	
Benzo(g,h,i)perylene	**7000**		420	97	1	03/26/21 20:53	3/24/21	
Benzo(k)fluoranthene	**4400**		420	68	1	03/26/21 20:53	3/24/21	
Chrysene	**8800**	**E**	420	62	1	03/26/21 20:53	3/24/21	
Dibenz(a,h)anthracene	**1300**		420	92	1	03/26/21 20:53	3/24/21	
Fluoranthene	**12000**	**E**	420	110	1	03/26/21 20:53	3/24/21	
Fluorene	**200**	**J**	420	79	1	03/26/21 20:53	3/24/21	
Indeno(1,2,3-cd)pyrene	**6900**		420	140	1	03/26/21 20:53	3/24/21	
Naphthalene	420	U	420	79	1	03/26/21 20:53	3/24/21	
Phenanthrene	**4900**		420	60	1	03/26/21 20:53	3/24/21	
Pyrene	**10000**	**E**	420	70	1	03/26/21 20:53	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Units:**	ug/Kg
Lab Code:	R2102620-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	41	10 - 102	03/26/21 20:53	
Nitrobenzene-d5	42	10 - 95	03/26/21 20:53	
p-Terphenyl-d14	53	10 - 106	03/26/21 20:53	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	890	U	890	150	2	03/29/21 21:29	3/24/21	
Acenaphthene	890	U	890	170	2	03/29/21 21:29	3/24/21	
Acenaphthylene	890	U	890	180	2	03/29/21 21:29	3/24/21	
Anthracene	**640**	**DJ**	890	150	2	03/29/21 21:29	3/24/21	
Benz(a)anthracene	**4900**	**D**	890	140	2	03/29/21 21:29	3/24/21	
Benzo(a)pyrene	**8100**	**D**	890	240	2	03/29/21 21:29	3/24/21	
Benzo(b)fluoranthene	**11000**	**D**	890	150	2	03/29/21 21:29	3/24/21	
Benzo(g,h,i)perylene	**5300**	**D**	890	210	2	03/29/21 21:29	3/24/21	
Benzo(k)fluoranthene	**3700**	**D**	890	150	2	03/29/21 21:29	3/24/21	
Chrysene	**7700**	**D**	890	140	2	03/29/21 21:29	3/24/21	
Dibenz(a,h)anthracene	**1000**	**D**	890	200	2	03/29/21 21:29	3/24/21	
Fluoranthene	**14000**	**D**	890	230	2	03/29/21 21:29	3/24/21	
Fluorene	**210**	**DJ**	890	170	2	03/29/21 21:29	3/24/21	
Indeno(1,2,3-cd)pyrene	**5200**	**D**	890	290	2	03/29/21 21:29	3/24/21	
Naphthalene	**890**	**DU**	890	170	2	03/29/21 21:29	3/24/21	
Phenanthrene	**4900**	**D**	890	130	2	03/29/21 21:29	3/24/21	
Pyrene	**11000**	**D**	890	150	2	03/29/21 21:29	3/24/21	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	36	10 - 102	03/29/21 21:29	
Nitrobenzene-d5	37	10 - 95	03/29/21 21:29	
p-Terphenyl-d14	46	10 - 106	03/29/21 21:29	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	450	U	450	74	1	03/26/21 21:21	3/24/21	
Acenaphthene	**120**	**J**	450	84	1	03/26/21 21:21	3/24/21	
Acenaphthylene	**91**	**J**	450	90	1	03/26/21 21:21	3/24/21	
Anthracene	**610**		450	75	1	03/26/21 21:21	3/24/21	
Benz(a)anthracene	**4400**		450	66	1	03/26/21 21:21	3/24/21	
Benzo(a)pyrene	**7600**		450	120	1	03/26/21 21:21	3/24/21	
Benzo(b)fluoranthene	**10000**	**E**	450	75	1	03/26/21 21:21	3/24/21	
Benzo(g,h,i)perylene	**5500**		450	110	1	03/26/21 21:21	3/24/21	
Benzo(k)fluoranthene	**3300**		450	72	1	03/26/21 21:21	3/24/21	
Chrysene	**7100**		450	66	1	03/26/21 21:21	3/24/21	
Dibenz(a,h)anthracene	**1000**		450	97	1	03/26/21 21:21	3/24/21	
Fluoranthene	**11000**	**E**	450	120	1	03/26/21 21:21	3/24/21	
Fluorene	**190**	**J**	450	84	1	03/26/21 21:21	3/24/21	
Indeno(1,2,3-cd)pyrene	**5300**		450	150	1	03/26/21 21:21	3/24/21	
Naphthalene	450	U	450	84	1	03/26/21 21:21	3/24/21	
Phenanthrene	**4400**		450	63	1	03/26/21 21:21	3/24/21	
Pyrene	**9100**	**E**	450	74	1	03/26/21 21:21	3/24/21	

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Units:**	ug/Kg
Lab Code:	R2102620-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	33	10 - 102	03/26/21 21:21	
Nitrobenzene-d5	35	10 - 95	03/26/21 21:21	
p-Terphenyl-d14	43	10 - 106	03/26/21 21:21	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 18	**Units:**	ug/Kg
Lab Code:	R2102620-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	430	U	430	72	1	03/26/21 21:50	3/24/21	
Acenaphthene	**88**	**J**	430	82	1	03/26/21 21:50	3/24/21	
Acenaphthylene	430	U	430	88	1	03/26/21 21:50	3/24/21	
Anthracene	**420**	**J**	430	73	1	03/26/21 21:50	3/24/21	
Benz(a)anthracene	**3100**		430	65	1	03/26/21 21:50	3/24/21	
Benzo(a)pyrene	**5200**		430	120	1	03/26/21 21:50	3/24/21	
Benzo(b)fluoranthene	**6800**		430	73	1	03/26/21 21:50	3/24/21	
Benzo(g,h,i)perylene	**3800**		430	100	1	03/26/21 21:50	3/24/21	
Benzo(k)fluoranthene	**2300**		430	70	1	03/26/21 21:50	3/24/21	
Chrysene	**5000**		430	64	1	03/26/21 21:50	3/24/21	
Dibenz(a,h)anthracene	**690**		430	95	1	03/26/21 21:50	3/24/21	
Fluoranthene	**8700**		430	110	1	03/26/21 21:50	3/24/21	
Fluorene	**140**	**J**	430	82	1	03/26/21 21:50	3/24/21	
Indeno(1,2,3-cd)pyrene	**3800**		430	140	1	03/26/21 21:50	3/24/21	
Naphthalene	430	U	430	82	1	03/26/21 21:50	3/24/21	
Phenanthrene	**3200**		430	62	1	03/26/21 21:50	3/24/21	
Pyrene	**7100**		430	73	1	03/26/21 21:50	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	49	10 - 102	03/26/21 21:50	
Nitrobenzene-d5	51	10 - 95	03/26/21 21:50	
p-Terphenyl-d14	65	10 - 106	03/26/21 21:50	

General Chemistry

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Analytical Report

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 09:55
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 0-2		**Basis:**	As Received
Lab Code:	R2102620-001			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**80.7**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:12
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 6	**Basis:**	As Received
Lab Code:	R2102620-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**77.2**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 12	**Basis:**	As Received
Lab Code:	R2102620-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.2**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 10:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-6 23	**Basis:**	As Received
Lab Code:	R2102620-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**79.7**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 0-2	**Basis:**	As Received
Lab Code:	R2102620-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**75.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.		**Service Request:**	R2102620
Project:	Former Bisonite/235.198A		**Date Collected:**	03/18/21 11:03
Sample Matrix:	Soil		**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 5		**Basis:**	As Received
Lab Code:	R2102620-006			

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**73.3**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:04
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 10	**Basis:**	As Received
Lab Code:	R2102620-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.3**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:05
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSB-4 18	**Basis:**	As Received
Lab Code:	R2102620-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.8**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21 DUP	**Basis:**	As Received
Lab Code:	R2102620-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.4**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:35
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 0.2	**Basis:**	As Received
Lab Code:	R2102620-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.4**	Percent	-	1	03/23/21 06:05	

Printed 4/2/2021 10:39:32 AM

Superset Reference:21-0000583536 rev 00

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dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:38
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 6	**Basis:**	As Received
Lab Code:	R2102620-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.1**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:40
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 12	**Basis:**	As Received
Lab Code:	R2102620-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.6**	Percent	-	1	03/23/21 06:05	

ALS Group USA, Corp.
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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 11:45
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-5 21	**Basis:**	As Received
Lab Code:	R2102620-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**82.3**	Percent	-	1	03/23/21 06:05	

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:00
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 0-2	**Basis:**	As Received
Lab Code:	R2102620-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**66.7**	Percent	-	1	03/23/21 06:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:15
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 5	**Basis:**	As Received
Lab Code:	R2102620-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.6**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:20
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 8	**Basis:**	As Received
Lab Code:	R2102620-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**73.9**	Percent	-	1	03/23/21 06:05	

Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21 12:30
Sample Matrix:	Soil	**Date Received:**	03/19/21 16:50
Sample Name:	SSA-4 18	**Basis:**	As Received
Lab Code:	R2102620-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**76.1**	Percent	-	1	03/23/21 06:05	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Leader Professional Services, Inc. **Service Request:** R2102620
Project: Former Bisonite/235.198A
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Extraction Method: EPA 3546

Sample Name	Lab Code	2-Fluorobiphenyl 10-102	Nitrobenzene-d5 10-95	p-Terphenyl-d14 10-106
SSA-6 0-2	R2102620-001	43	43	64
SSA-6 6	R2102620-002	48	48	73
SSA-6 12	R2102620-003	31	34	53
SSA-6 23	R2102620-004	23	21	41
SSB-4 0-2	R2102620-005	47	49	62
SSB-4 0-2 DL	R2102620-005	51	55	66
SSB-4 5	R2102620-006	46	48	62
SSB-4 5 DL	R2102620-006	56	56	74
SSB-4 10	R2102620-007	45	48	66
SSB-4 10 DL	R2102620-007	50	52	72
SSB-4 18	R2102620-008	29	32	60
SSA-5 21 DUP	R2102620-009	37	41	62
SSA-5 0.2	R2102620-010	42	45	62
SSA-5 6	R2102620-011	32	33	54
SSA-5 12	R2102620-012	32	32	52
SSA-5 21	R2102620-013	36	40	60
SSA-4 0-2	R2102620-014	46	47	55
SSA-4 0-2 DL	R2102620-014	0*	0*	0*
SSA-4 5	R2102620-015	41	42	53
SSA-4 5 DL	R2102620-015	45	46	56
SSA-4 8	R2102620-016	33	35	43
SSA-4 8 DL	R2102620-016	36	37	46
SSA-4 18	R2102620-017	49	51	65
Method Blank	RQ2103000-03	64	65	101
Lab Control Sample	RQ2103000-04	60	57	84
Duplicate Lab Control Sample	RQ2103000-05	63	63	89
SSA-5 21 MS	RQ2103000-01	40	43	60
SSA-5 21 DMS	RQ2103000-02	43	47	62

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/26/21
		Date Extracted:	03/24/21

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Sample Name:	SSA-5 21	**Units:**	ug/Kg
Lab Code:	R2102620-013	**Basis:**	Dry
Analysis Method:	8270D		
Prep Method:	EPA 3546		

		Matrix Spike RQ2103000-01			**Duplicate Matrix Spike** RQ2103000-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	410 U	1570	4100	38 *	1640	3950	42 *	50-86	4	30
Acenaphthene	410 U	1600	4100	39 *	1680	3950	42 *	52-91	4	30
Acenaphthylene	410 U	1790	4100	44 *	1880	3950	48 *	53-97	5	30
Anthracene	410 U	2140	4100	52 *	2210	3950	56 *	63-98	3	30
Benz(a)anthracene	410 U	2500	4100	61	2560	3950	65	59-99	2	30
Benzo(a)pyrene	410 U	3220	4100	79	3300	3950	84	71-129	2	30
Benzo(b)fluoranthene	410 U	2490	4100	61	2480	3950	63	59-101	<1	30
Benzo(g,h,i)perylene	410 U	3330	4100	81	3370	3950	85	67-113	<1	30
Benzo(k)fluoranthene	410 U	2570	4100	63 *	2630	3950	67	64-107	2	30
Chrysene	410 U	2570	4100	63	2640	3950	67	62-103	3	30
Dibenz(a,h)anthracene	410 U	2760	4100	67	2920	3950	74	58-119	6	30
Fluoranthene	410 U	2770	4100	68	2720	3950	69	59-104	2	30
Fluorene	410 U	1700	4100	42 *	1830	3950	46 *	54-93	7	30
Indeno(1,2,3-cd)pyrene	410 U	2940	4100	72	2990	3950	76	64-114	2	30
Naphthalene	410 U	1560	4100	38 *	1650	3950	42 *	48-85	5	30
Phenanthrene	410 U	2010	4100	49 *	2080	3950	53 *	60-95	3	30
Pyrene	410 U	2530	4100	62 *	2580	3950	65	65-107	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project:	Former Bisonite/235.198A	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ2103000-03	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Analysis Method: 8270D
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2-Methylnaphthalene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Acenaphthene	330 U	330	63	1	03/25/21 18:17	3/24/21	
Acenaphthylene	330 U	330	67	1	03/25/21 18:17	3/24/21	
Anthracene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benz(a)anthracene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Benzo(a)pyrene	330 U	330	88	1	03/25/21 18:17	3/24/21	
Benzo(b)fluoranthene	330 U	330	55	1	03/25/21 18:17	3/24/21	
Benzo(g,h,i)perylene	330 U	330	76	1	03/25/21 18:17	3/24/21	
Benzo(k)fluoranthene	330 U	330	54	1	03/25/21 18:17	3/24/21	
Chrysene	330 U	330	49	1	03/25/21 18:17	3/24/21	
Dibenz(a,h)anthracene	330 U	330	72	1	03/25/21 18:17	3/24/21	
Fluoranthene	330 U	330	83	1	03/25/21 18:17	3/24/21	
Fluorene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Indeno(1,2,3-cd)pyrene	330 U	330	110	1	03/25/21 18:17	3/24/21	
Naphthalene	330 U	330	62	1	03/25/21 18:17	3/24/21	
Phenanthrene	330 U	330	47	1	03/25/21 18:17	3/24/21	
Pyrene	330 U	330	55	1	03/25/21 18:17	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	64	10 - 102	03/25/21 18:17	
Nitrobenzene-d5	65	10 - 95	03/25/21 18:17	
p-Terphenyl-d14	101	10 - 106	03/25/21 18:17	

Client: Leader Professional Services, Inc.
Project: Former Bisonite/235.198A
Sample Matrix: Soil

Service Request: R2102620
Date Analyzed: 03/25/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS using Microwave Digestion

Units: ug/Kg
Basis: Dry

		Lab Control Sample RQ2103000-04			Duplicate Lab Control Sample RQ2103000-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2-Methylnaphthalene	8270D	1790	3290	54	1940	3280	59	50-86	8	30
Acenaphthene	8270D	2010	3290	61	2110	3280	64	52-91	5	30
Acenaphthylene	8270D	2210	3290	67	2320	3280	71	53-97	5	30
Anthracene	8270D	2590	3290	79	2650	3280	81	63-98	2	30
Benz(a)anthracene	8270D	2630	3290	80	2710	3280	82	59-99	3	30
Benzo(a)pyrene	8270D	3400	3290	103	3570	3280	109	71-129	5	30
Benzo(b)fluoranthene	8270D	2560	3290	78	2650	3280	81	59-101	3	30
Benzo(g,h,i)perylene	8270D	3280	3290	100	3430	3280	105	67-113	5	30
Benzo(k)fluoranthene	8270D	2760	3290	84	2910	3280	89	64-107	5	30
Chrysene	8270D	2680	3290	81	2770	3280	84	62-103	3	30
Dibenz(a,h)anthracene	8270D	2850	3290	87	2980	3280	91	58-119	4	30
Fluoranthene	8270D	2770	3290	84	2800	3280	85	59-104	1	30
Fluorene	8270D	2240	3290	68	2280	3280	70	54-93	2	30
Indeno(1,2,3-cd)pyrene	8270D	2930	3290	89	3050	3280	93	64-114	4	30
Naphthalene	8270D	1710	3290	52	1880	3280	57	48-85	9	30
Phenanthrene	8270D	2440	3290	74	2490	3280	76	60-95	2	30
Pyrene	8270D	2670	3290	81	2730	3280	83	65-107	2	30

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-6 23	**Units:**	Percent
Lab Code:	R2102620-004	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102620-004DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	79.7	86.4	83.1	8	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 4/2/2021 10:39:31 AM Superset Reference:21-0000583536 rev 00

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Leader Professional Services, Inc.	**Service Request:**	R2102620
Project	Former Bisonite/235.198A	**Date Collected:**	03/18/21
Sample Matrix:	Soil	**Date Received:**	03/19/21
		Date Analyzed:	03/23/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SSA-5 21	**Units:**	Percent
Lab Code:	R2102620-013	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R2102620-013DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	82.3	83.1	82.7	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Appendix B

Air Sample Laboratory Results

SGS GALSON

Mr. Alec Minavio
Leader Professional Services, Inc.
271 Marsh Road
Suite 2
Pittsford, NY 14534

April 13, 2021

Account# 14935

Login# L531971

Dear Alec Minavio:

Enclosed are the revised analytical results for the samples received by our laboratory on March 23, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa Swab

Lisa Swab
Laboratory Director

Enclosure(s)

SGS GALSON

Account: 14935
Login No.: L531971

COMMENT ANNEX

Please note that this revision cancels and supersedes L531971 (report reference:1) dated March 26, 2021 issued by SGS Galson.

Per your request, the report has been updated to include units in ug/m3.

Terms and Conditions & General Disclaimers

- 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 herein 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 content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - Liters	m3 - Cubic Meters	NS - Not Specified	ppbv - ppb Volume
LOQ - Limit of Quantitation	kg - Kilograms	ND - Not Detected	ppmv - ppm Volume
ft2 - Square Feet	cm2 - Square Centimeters	in2 - Square Inches	ng - Nanograms

LABORATORY ANALYSIS REPORT

SGS GALSON
6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
Date Received : 23-MAR-21

Account No.: 1493!
Login No. : L531!
Date Analyzed : :
Report ID : :

TO15 List

	LOQ ppbv	LOQ ug/m3	Galson ID: L531971-1 Client ID: IA-1 ppbv	ug/m3	Galson ID: L531971-2 Client ID: SS-1 ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	240	410
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	2.4	5.6	570	1400
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	24	58	180	420

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Supervi:
Collection Media : Mini Can
Submitted by : BLD
Approved by : JMR
Date : 13-APR-21

GALSON

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client : Leader Professional Services,
Site : NS
Project No. : 235.198
Date Sampled : 18-MAR-21
Date Received : 23-MAR-21

Account No.: 149
Login No. : L53
Date Analyzed :
Report ID :

TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-1 IA-1 ppbv	L531971-1 IA-1 ug/m3	L531971-2 SS-1 ppbv	L531971-2 SS-1 ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	13	33
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	2.0	5.8	260	760
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	7.0	24	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	16	50
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Superv
Collection Media : Mini Can
Submitted by : BLD
Approved by : JMR
Date : 13-APR-21

SGS GALSON

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.sgsgalson.com

Client	: Leader Professional Services,	Account No.:	149
Site	: NS	Login No. :	L53
Project No.	: 235.198		
Date Sampled	: 18-MAR-21	Date Analyzed	:
Date Received	: 23-MAR-21	Report ID	:

TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-1 IA-1 ppbv	L531971-1 IA-1 ug/m3	L531971-2 SS-1 ppbv	L531971-2 SS-1 ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	67	240
Methyl Ethyl Ketone	0.80	2.4	1.7	5.0	9.9	29
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	91	320
Ethyl Acetate	0.80	2.9	7.9	28	45	160
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	1.8	5.7
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	12	41

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Superv
Collection Media : Mini Can — Approved by : JMR
Submitted by : BLD — Date : 13-APR-21

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Account No.: 149:
Login No. : L53:
Date Analyzed :
Report ID :

TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-1 IA-1 ppbv	L531971-1 IA-1 ug/m3	L531971-2 SS-1 ppbv	L531971-2 SS-1 ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	20	83
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	1.6	6.4
Toluene	0.80	3.0	3.0	11	29	110
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
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Report ID :

TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-1 IA-1 ppbv	L531971-1 IA-1 ug/m3	L531971-2 SS-1 ppbv	L531971-2 SS-1 ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	10	54
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Superv

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Project No.	: 235.198		
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Date Received	: 23-MAR-21	Report ID	:

TO15 List

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Galson ID:			L531971-1		L531971-2	
Client ID:			IA-1		SS-1	
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Superv:
Collection Media : Mini Can — Approved by : JMR
Submitted by : BLD — Date : 13-APR-21

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Account No.: 149:
Login No. : L53:
Date Analyzed :
Report ID :

TO15 List

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	2.0	4.7	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	20	49	<5.0	<12

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Superv:
Collection Media : Mini Can
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Report ID :

TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-4 IA-2 ppbv	L531971-4 IA-2 ug/m3	L531971-5 OA-1 ppbv	L531971-5 OA-1 ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.2	3.6	<0.80	<2.4
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	4.6	16	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Superv:
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Site	: NS	Login No.	: L53:
Project No.	: 235.198		
Date Sampled	: 18-MAR-21	Date Analyzed	:
Date Received	: 23-MAR-21	Report ID	:

TO15 List

Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	1.4	4.2	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	7.4	27	1.6	5.7
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Superv:
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Account No.: 149
Login No. : L53
Date Analyzed :
Report ID :

TO15 List

			L531971-4		L531971-5	
Galson ID:			L531971-4		L531971-5	
Client ID:			IA-2		OA-1	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	2.2	8.4	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Superv
Collection Media : Mini Can
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TO15 List

	LOQ ppbv	LOQ ug/m3	L531971-4 IA-2 ppbv	L531971-4 IA-2 ug/m3	L531971-5 OA-1 ppbv	L531971-5 OA-1 ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Superv:
Collection Media : Mini Can
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Account No.: 149:
Login No. : L53:
Date Analyzed :
Report ID :

TO15 List

	LOQ	LOQ	Galson ID: L531971-4		L531971-5	
			Client ID: IA-2		OA-1	
	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : BLD

Superv:
Approved by : JMR
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LABORATORY FOOTNOTE REPORT

GALSON

Client Name : Leader Professional Services, Inc.
Site :
Project No. : 235.198

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Date Sampled : 18-MAR-21
Date Received: 23-MAR-21
Date Analyzed: 24-MAR-21

Account No.: 14935
Login No. : L531971

L531971 (Report ID: 1236521):
NYSDOH does not offer a certification for the following compounds:
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane, Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.
SOPs: in-vocs(40)

L531971-1-4 (Report ID: 1236521):
Acetone results may be biased high due to co-elution with 2-methylbutane.

L531971-2-3 (Report ID: 1236521):
Propylene results may be biased high due to co-elution with Propane.
Vinyl Acetate results may be biased high due to co-elution with 2-methylpentane.

L531971 (Report ID: 1236521):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy appl media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampli The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insu data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2,2-Tetrachloroethane	+/-13.1%	102%
1,1,2-Trichloroethane	+/-10.9%	101%
1,1-Dichloroethane	+/-13.1%	99.7%
1,1-Dichloroethene	+/-13.5%	102%
1,2,4-Trimethylbenzene	+/-14.6%	108%
1,2-Dibromoethane	+/-12.9%	103%
1,2-Dichlorobenzene	+/-12.2%	105%
1,2-Dichloroethane	+/-14.9%	102%
1,2-Dichloropropane	+/-13.1%	99.7%
1,3,5-Trimethylbenzene	+/-13.1%	105%
1,3-Dichlorobenzene	+/-12.3%	104%
1,4-Dichlorobenzene	+/-13.6%	104%
2,2,4-Trimethylpentane	+/-13.9%	102%
2-Chlorotoluene	+/-13.1%	104%
4-Ethyltoluene	+/-14%	106%
Acrolein	+/-17.1%	100%
Acrylonitrile	+/-14.2%	99%
Allyl Chloride	+/-16.4%	101%
Acetonitrile	+/-23%	103%
Acetone	+/-15.4%	102%
Bromodichloromethane	+/-11.3%	103%
Bromoform	+/-14.1%	107%
1,3-Butadiene	+/-17.1%	100%

LABORATORY FOOTNOTE REPORT

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Date Sampled : 18-MAR-21 Account No.: 14935
Date Received: 23-MAR-21 Login No. : L531971
Date Analyzed: 24-MAR-21

n-Butane	+/-19.2%	99%
Benzene	+/-11.6%	100%
Benzyl Chloride	+/-15.6%	113%
Carbon Disulfide	+/-12.7%	99.7%
Carbon Tetrachloride	+/-13.4%	104%
cis-1,2-Dichloroethylene	+/-13.7%	101%
cis-1,3-Dichloropropene	+/-13.2%	104%
Chlorobenzene	+/-12.4%	100%
Dibromochloromethane	+/-12.9%	105%
Chloroform	+/-11.8%	100%
Cumene	+/-13.1%	104%
Cyclohexane	+/-14.5%	101%
1,4-Dioxane	+/-13.3%	104%
Ethyl Acetate	+/-16.2%	102%
Ethylbenzene	+/-14%	104%
Chloroethane	+/-19.3%	99.3%
Ethyl Bromide	+/-11.4%	99.5%
Freon-11	+/-16.7%	103%
Freon-113	+/-11.3%	99.9%
Freon-114	+/-14.3%	102%
Freon-12	+/-14.8%	104%
Heptane	+/-16.2%	102%
Isopropyl Alcohol	+/-15.4%	103%
1,1,1-Trichloroethane	+/-13.1%	103%
Bromomethane	+/-12.7%	99.2%
Chloromethane	+/-17.5%	98.6%
Methylene Chloride	+/-12.3%	97.6%
Methyl Ethyl Ketone	+/-15.9%	101%
Methyl Methacrylate	+/-15.6%	104%
Methyl Isobutyl Ketone	+/-18.1%	103%
Methyl Butyl Ketone	+/-18.8%	107%
m & p-Xylene	+/-13.2%	103%
Methyl tert-Butyl Ether	+/-14.6%	102%
Naphthalene	+/-20.2%	114%
Hexane	+/-15.2%	100%
Nonane	+/-15.7%	102%
n-Propylbenzene	+/-12.8%	104%
o-Xylene	+/-13.2%	104%
Propylene	+/-16.8%	101%
Pentane	+/-16.5%	98.6%
Styrene	+/-14.8%	106%
Trichloroethylene	+/-11.1%	102%
tert-Butyl Alcohol	+/-13.8%	103%
Tetrachloroethylene	+/-12%	102%
Tetrahydrofuran	+/-18.7%	102%

LABORATORY FOOTNOTE REPORT

GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
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Client Name : Leader Professional Services, Inc.
Site :
Project No. : 235.198

Date Sampled : 18-MAR-21
Date Received: 23-MAR-21
Date Analyzed: 24-MAR-21

Account No.: 14935
Login No. : L531971

Toluene	+/-14.3%	102%
trans-1,2-Dichloroethene	+/-13.8%	101%
trans-1,3-Dichloropropene	+/-13.7%	106%
Vinyl Acetate	+/-17.1%	102%
Vinyl Bromide	+/-14.5%	102%
Vinyl Chloride	+/-15.2%	100%

Sample: WG497676-6 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/24/21 10:20:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803015

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	51.853	50	104	70.0 to 130.				
Freon-12	51.956	50	104	70.0 to 130.				
Chloromethane	55.075	50	110	70.0 to 130.				
Freon-114	52.7	50	105	70.0 to 130.				
Vinyl Chloride	53.179	50	106	70.0 to 130.				
1,3-Butadiene	53.944	50	108	70.0 to 130.				
n-Butane	53.178	50	106	70.0 to 130.				
Bromomethane	51.422	50	103	70.0 to 130.				
Chloroethane	53.578	50	107	70.0 to 130.				
Acetonitrile	50.904	50	102	70.0 to 130.				
Vinyl Bromide	51.576	50	103	70.0 to 130.				
Acrolein	51.81	50	104	70.0 to 130.				
Acetone	51.033	50	102	70.0 to 130.				
Freon-11	51.993	50	104	70.0 to 130.				
Isopropyl Alcohol	53.252	50	107	70.0 to 130.				
Acrylonitrile	52.183	50	104	70.0 to 130.				
Pentane	52.136	50	104	70.0 to 130.				
Ethyl Bromide	50.96	50	102	70.0 to 130.				
1,1-Dichloroethene	51.836	50	104	70.0 to 130.				
tert-Butyl Alcohol	52.574	50	105	70.0 to 130.				
Methylene Chloride	49.17	50	98.3	70.0 to 130.				
Freon-113	50.676	50	101	70.0 to 130.				
Carbon Disulfide	50.695	50	101	70.0 to 130.				
Allyl Chloride	51.817	50	104	70.0 to 130.				
trans-1,2-Dichloroethene	51.57	50	103	70.0 to 130.				
1,1-Dichloroethane	51.226	50	102	70.0 to 130.				
Methyl tert-Butyl Ether	51.042	50	102	70.0 to 130.				
Vinyl Acetate	51.764	50	104	70.0 to 130.				
Methyl Ethyl Ketone	51.822	50	104	70.0 to 130.				
cis-1,2-Dichloroethylene	52.077	50	104	70.0 to 130.				
Hexane	51.931	50	104	70.0 to 130.				
Ethyl Acetate	53.578	50	107	70.0 to 130.				
Chloroform	51.48	50	103	70.0 to 130.				
Tetrahydrofuran	51.756	50	104	70.0 to 130.				
1,2-Dichloroethane	52.149	50	104	70.0 to 130.				
1,1,1-Trichloroethane	51.747	50	103	70.0 to 130.				
Benzene	50.539	50	101	70.0 to 130.				

Sample: WG497676-6 **Spikelot:** IH702388

QC Type: CCV **Raw File:**

Analysis date 03/24/21 10:20:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803015

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Carbon Tetrachloride	52.366	50	105	70.0 to 130.				
Cyclohexane	51.558	50	103	70.0 to 130.				
1,2-Dichloropropane	50.674	50	101	70.0 to 130.				
Bromodichloromethane	52.068	50	104	70.0 to 130.				
1,4-Dioxane	52.728	50	105	70.0 to 130.				
Trichloroethylene	51.791	50	104	70.0 to 130.				
2,2,4-Trimethylpentane	51.615	50	103	70.0 to 130.				
Methyl Methacrylate	52.973	50	106	70.0 to 130.				
Heptane	52.573	50	105	70.0 to 130.				
cis-1,3-Dichloropropene	52.147	50	104	70.0 to 130.				
trans-1,3-Dichloropropene	52.757	50	106	70.0 to 130.				
1,1,2-Trichloroethane	51.081	50	102	70.0 to 130.				
Methyl Isobutyl Ketone	51.337	50	103	70.0 to 130.				
Toluene	50.256	50	101	70.0 to 130.				
Methyl Butyl Ketone	54.327	50	109	70.0 to 130.				
Dibromochloromethane	52.68	50	105	70.0 to 130.				
1,2-Dibromoethane	51.59	50	103	70.0 to 130.				
Tetrachloroethylene	51.255	50	103	70.0 to 130.				
Chlorobenzene	50.608	50	101	70.0 to 130.				
Ethylbenzene	51.025	50	102	70.0 to 130.				
m & p-Xylene	102.772	100	103	70.0 to 130.				
Bromoform	53.182	50	106	70.0 to 130.				
Styrene	51.918	50	104	70.0 to 130.				
1,1,2,2-Tetrachloroethane	52.295	50	105	70.0 to 130.				
o-Xylene	52.419	50	105	70.0 to 130.				
Nonane	52.793	50	106	70.0 to 130.				
Cumene	51.766	50	104	70.0 to 130.				
2-Chlorotoluene	52.332	50	105	70.0 to 130.				
n-Propylbenzene	52.408	50	105	70.0 to 130.				
4-Ethyltoluene	52.825	50	106	70.0 to 130.				
1,3,5-Trimethylbenzene	52.695	50	105	70.0 to 130.				
1,2,4-Trimethylbenzene	53.551	50	107	70.0 to 130.				
Benzyl Chloride	56.025	50	112	70.0 to 130.				
1,3-Dichlorobenzene	53.413	50	107	70.0 to 130.				
1,4-Dichlorobenzene	52.614	50	105	70.0 to 130.				
1,2-Dichlorobenzene	54.371	50	109	70.0 to 130.				
Naphthalene	56.462	50	113	70.0 to 130.				

Sample: WG497676-2 **Spikelot:** IH702523

QC Type: LCS **Raw File:**

Analysis date 03/24/21 11:00:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803016

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	52.056	50	104	70.0 to 130.				
Freon-12	52.098	50	104	70.0 to 130.				
Chloromethane	55.541	50	111	70.0 to 130.				
Freon-114	53.736	50	107	70.0 to 130.				
Vinyl Chloride	54.434	50	109	70.0 to 130.				
1,3-Butadiene	55.526	50	111	70.0 to 130.				
n-Butane	54.258	50	109	70.0 to 130.				
Bromomethane	51.818	50	104	70.0 to 130.				
Chloroethane	54.61	50	109	70.0 to 130.				
Acetonitrile	51.488	50	103	70.0 to 130.				
Vinyl Bromide	51.525	50	103	70.0 to 130.				
Acrolein	51.667	50	103	70.0 to 130.				
Acetone	50.383	50	101	70.0 to 130.				
Freon-11	51.298	50	103	70.0 to 130.				
Isopropyl Alcohol	53.4	50	107	70.0 to 130.				
Acrylonitrile	52.045	50	104	70.0 to 130.				
Pentane	51.7	50	103	70.0 to 130.				
Ethyl Bromide	51.265	50	103	70.0 to 130.				
1,1-Dichloroethene	51.526	50	103	70.0 to 130.				
tert-Butyl Alcohol	52.343	50	105	70.0 to 130.				
Methylene Chloride	49.278	50	98.6	70.0 to 130.				
Freon-113	50.785	50	102	70.0 to 130.				
Carbon Disulfide	50.882	50	102	70.0 to 130.				
Allyl Chloride	50.87	50	102	70.0 to 130.				
trans-1,2-Dichloroethene	51.727	50	103	70.0 to 130.				
1,1-Dichloroethane	51.198	50	102	70.0 to 130.				
Methyl tert-Butyl Ether	51.334	50	103	70.0 to 130.				
Vinyl Acetate	51.841	50	104	70.0 to 130.				
Methyl Ethyl Ketone	51.746	50	103	70.0 to 130.				
cis-1,2-Dichloroethylene	51.636	50	103	70.0 to 130.				
Hexane	51.571	50	103	70.0 to 130.				
Ethyl Acetate	52.221	50	104	70.0 to 130.				
Chloroform	50.731	50	101	70.0 to 130.				
Tetrahydrofuran	51.509	50	103	70.0 to 130.				
1,2-Dichloroethane	51.562	50	103	70.0 to 130.				
1,1,1-Trichloroethane	51.952	50	104	70.0 to 130.				
Benzene	50.512	50	101	70.0 to 130.				

Sample: WG497676-2
QC Type: LCS
Analysis date 03/24/21 11:00:00
Instrument: MS J

Spikelot: IH702523
Raw File:
Approval Status: YES
Samp Join ID: SJ12803016

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Carbon Tetrachloride	51.854	50	104	70.0 to 130.				
Cyclohexane	52.296	50	105	70.0 to 130.				
1,2-Dichloropropane	51.188	50	102	70.0 to 130.				
Bromodichloromethane	51.918	50	104	70.0 to 130.				
1,4-Dioxane	53.954	50	108	70.0 to 130.				
Trichloroethylene	52.136	50	104	70.0 to 130.				
2,2,4-Trimethylpentane	52.276	50	105	70.0 to 130.				
Methyl Methacrylate	53.784	50	108	70.0 to 130.				
Heptane	52.114	50	104	70.0 to 130.				
cis-1,3-Dichloropropene	52.765	50	106	70.0 to 130.				
trans-1,3-Dichloropropene	53.108	50	106	70.0 to 130.				
1,1,2-Trichloroethane	51.544	50	103	70.0 to 130.				
Methyl Isobutyl Ketone	52.139	50	104	70.0 to 130.				
Toluene	50.982	50	102	70.0 to 130.				
Methyl Butyl Ketone	54.875	50	110	70.0 to 130.				
Dibromochloromethane	53.041	50	106	70.0 to 130.				
1,2-Dibromoethane	51.668	50	103	70.0 to 130.				
Tetrachloroethylene	51.409	50	103	70.0 to 130.				
Chlorobenzene	51.605	50	103	70.0 to 130.				
Ethylbenzene	51.731	50	103	70.0 to 130.				
m & p-Xylene	103.487	100	103	70.0 to 130.				
Bromoform	53.991	50	108	70.0 to 130.				
Styrene	52.616	50	105	70.0 to 130.				
1,1,2,2-Tetrachloroethane	52.693	50	105	70.0 to 130.				
o-Xylene	52.501	50	105	70.0 to 130.				
Nonane	53.085	50	106	70.0 to 130.				
Cumene	52.803	50	106	70.0 to 130.				
2-Chlorotoluene	52.841	50	106	70.0 to 130.				
n-Propylbenzene	52.525	50	105	70.0 to 130.				
4-Ethyltoluene	53.036	50	106	70.0 to 130.				
1,3,5-Trimethylbenzene	52.855	50	106	70.0 to 130.				
1,2,4-Trimethylbenzene	53.482	50	107	70.0 to 130.				
Benzyl Chloride	57.322	50	115	70.0 to 130.				
1,3-Dichlorobenzene	53.539	50	107	70.0 to 130.				
1,4-Dichlorobenzene	52.523	50	105	70.0 to 130.				
1,2-Dichlorobenzene	53.732	50	107	70.0 to 130.				
Naphthalene	59.294	50	119	70.0 to 130.				

SGS GALSON

Work Group: WG497676

Sample: WG497676-3 **Spikelot:** IH702523
QC Type: LCSD **Raw File:**
Analysis date 03/24/21 11:40:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803017

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	50.756	50	102	70.0 to 130.			2.53	-25 to 25.0
Freon-12	51.388	50	103	70.0 to 130.			1.37	-25 to 25.0
Chloromethane	55.083	50	110	70.0 to 130.			.828	-25 to 25.0
Freon-114	53.312	50	107	70.0 to 130.			.792	-25 to 25.0
Vinyl Chloride	53.404	50	107	70.0 to 130.			1.91	-25 to 25.0
1,3-Butadiene	53.164	50	106	70.0 to 130.			4.35	-25 to 25.0
n-Butane	51.998	50	104	70.0 to 130.			4.25	-25 to 25.0
Bromomethane	50.872	50	102	70.0 to 130.			1.84	-25 to 25.0
Chloroethane	53.615	50	107	70.0 to 130.			1.84	-25 to 25.0
Acetonitrile	50.373	50	101	70.0 to 130.			2.19	-25 to 25.0
Vinyl Bromide	51.041	50	102	70.0 to 130.			.944	-25 to 25.0
Acrolein	50.877	50	102	70.0 to 130.			1.54	-25 to 25.0
Acetone	50.099	50	100	70.0 to 130.			.565	-25 to 25.0
Freon-11	50.45	50	101	70.0 to 130.			1.67	-25 to 25.0
Isopropyl Alcohol	52.947	50	106	70.0 to 130.			.852	-25 to 25.0
Acrylonitrile	51.219	50	102	70.0 to 130.			1.6	-25 to 25.0
Pentane	50.887	50	102	70.0 to 130.			1.58	-25 to 25.0
Ethyl Bromide	50.853	50	102	70.0 to 130.			.807	-25 to 25.0
1,1-Dichloroethene	51.179	50	102	70.0 to 130.			.676	-25 to 25.0
tert-Butyl Alcohol	51.662	50	103	70.0 to 130.			1.31	-25 to 25.0
Methylene Chloride	48.336	50	96.7	70.0 to 130.			1.93	-25 to 25.0
Freon-113	50.429	50	101	70.0 to 130.			.703	-25 to 25.0
Carbon Disulfide	50.698	50	101	70.0 to 130.			.362	-25 to 25.0
Allyl Chloride	50.306	50	101	70.0 to 130.			1.11	-25 to 25.0
trans-1,2-Dichloroethene	50.881	50	102	70.0 to 130.			1.65	-25 to 25.0
1,1-Dichloroethane	50.614	50	101	70.0 to 130.			1.15	-25 to 25.0
Methyl tert-Butyl Ether	51.41	50	103	70.0 to 130.			-.148	-25 to 25.0
Vinyl Acetate	51.404	50	103	70.0 to 130.			.847	-25 to 25.0
Methyl Ethyl Ketone	51.251	50	103	70.0 to 130.			.961	-25 to 25.0
cis-1,2-Dichloroethylene	51.445	50	103	70.0 to 130.			.371	-25 to 25.0
Hexane	51.439	50	103	70.0 to 130.			.256	-25 to 25.0
Ethyl Acetate	52.441	50	105	70.0 to 130.			-.42	-25 to 25.0
Chloroform	50.506	50	101	70.0 to 130.			.445	-25 to 25.0
Tetrahydrofuran	51.051	50	102	70.0 to 130.			.893	-25 to 25.0
1,2-Dichloroethane	50.979	50	102	70.0 to 130.			1.14	-25 to 25.0
1,1,1-Trichloroethane	51.153	50	102	70.0 to 130.			1.55	-25 to 25.0
Benzene	50.954	50	102	70.0 to 130.			-.871	-25 to 25.0

Sample: WG497676-3 **Spikelot:** IH702523

QC Type: LCSD **Raw File:**

Analysis date 03/24/21 11:40:00 **Approval Status:** YES

Instrument: MS J **Samp Join ID:** SJ12803017

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Carbon Tetrachloride	50.705	50	101	70.0 to 130.			2.24	-25 to 25.0
Cyclohexane	51.81	50	104	70.0 to 130.			.934	-25 to 25.0
1,2-Dichloropropane	51.149	50	102	70.0 to 130.			.0762	-25 to 25.0
Bromodichloromethane	51.463	50	103	70.0 to 130.			.88	-25 to 25.0
1,4-Dioxane	53.218	50	106	70.0 to 130.			1.37	-25 to 25.0
Trichloroethylene	51.534	50	103	70.0 to 130.			1.16	-25 to 25.0
2,2,4-Trimethylpentane	51.808	50	104	70.0 to 130.			.899	-25 to 25.0
Methyl Methacrylate	53.716	50	107	70.0 to 130.			.127	-25 to 25.0
Heptane	51.59	50	103	70.0 to 130.			1.01	-25 to 25.0
cis-1,3-Dichloropropene	52.17	50	104	70.0 to 130.			1.13	-25 to 25.0
trans-1,3-Dichloropropene	52.444	50	105	70.0 to 130.			1.26	-25 to 25.0
1,1,2-Trichloroethane	51.222	50	102	70.0 to 130.			.627	-25 to 25.0
Methyl Isobutyl Ketone	51.815	50	104	70.0 to 130.			.623	-25 to 25.0
Toluene	51.017	50	102	70.0 to 130.			-.0686	-25 to 25.0
Methyl Butyl Ketone	54.717	50	109	70.0 to 130.			.288	-25 to 25.0
Dibromochloromethane	53.254	50	107	70.0 to 130.			-.401	-25 to 25.0
1,2-Dibromoethane	51.911	50	104	70.0 to 130.			-.469	-25 to 25.0
Tetrachloroethylene	51.148	50	102	70.0 to 130.			.509	-25 to 25.0
Chlorobenzene	51.59	50	103	70.0 to 130.			.0291	-25 to 25.0
Ethylbenzene	51.399	50	103	70.0 to 130.			.644	-25 to 25.0
m & p-Xylene	103.016	100	103	70.0 to 130.			.456	-25 to 25.0
Bromoform	53.547	50	107	70.0 to 130.			.826	-25 to 25.0
Styrene	52.517	50	105	70.0 to 130.			.188	-25 to 25.0
1,1,2,2-Tetrachloroethane	52.186	50	104	70.0 to 130.			.967	-25 to 25.0
o-Xylene	51.906	50	104	70.0 to 130.			1.14	-25 to 25.0
Nonane	52.826	50	106	70.0 to 130.			.489	-25 to 25.0
Cumene	52.031	50	104	70.0 to 130.			1.47	-25 to 25.0
2-Chlorotoluene	52.179	50	104	70.0 to 130.			1.26	-25 to 25.0
n-Propylbenzene	51.898	50	104	70.0 to 130.			1.2	-25 to 25.0
4-Ethyltoluene	52.653	50	105	70.0 to 130.			.725	-25 to 25.0
1,3,5-Trimethylbenzene	52.187	50	104	70.0 to 130.			1.27	-25 to 25.0
1,2,4-Trimethylbenzene	52.53	50	105	70.0 to 130.			1.8	-25 to 25.0
Benzyl Chloride	56.848	50	114	70.0 to 130.			.83	-25 to 25.0
1,3-Dichlorobenzene	52.764	50	106	70.0 to 130.			1.46	-25 to 25.0
1,4-Dichlorobenzene	51.557	50	103	70.0 to 130.			1.86	-25 to 25.0
1,2-Dichlorobenzene	53.077	50	106	70.0 to 130.			1.23	-25 to 25.0
Naphthalene	58.514	50	117	70.0 to 130.			1.32	-25 to 25.0

Sample: WG497676-4
Spikelot: IH702835
QC Type: DLS
Raw File:
Analysis date 03/24/21 13:02:00
Approval Status: YES
Instrument: MS J
Samp Join ID: SJ12803018

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Freon-12	.889	.8	111	60.0 to 140.				
Chloromethane	.964	.8	121	60.0 to 140.				
Freon-114	.916	.8	115	60.0 to 140.				
Vinyl Chloride	.856	.8	107	60.0 to 140.				
1,3-Butadiene	.951	.8	119	60.0 to 140.				
n-Butane	.969	.8	121	60.0 to 140.				
Bromomethane	.99	.8	124	60.0 to 140.				
Chloroethane	.917	.8	115	60.0 to 140.				
Vinyl Bromide	.856	.8	107	60.0 to 140.				
Acrolein	.851	.8	106	60.0 to 140.				
Freon-11	.852	.8	107	60.0 to 140.				
Acrylonitrile	.89	.8	111	60.0 to 140.				
Pentane	.924	.8	116	60.0 to 140.				
Ethyl Bromide	.863	.8	108	60.0 to 140.				
1,1-Dichloroethene	.867	.8	108	60.0 to 140.				
Methylene Chloride	.994	.8	124	60.0 to 140.				
Freon-113	.886	.8	111	60.0 to 140.				
Allyl Chloride	.869	.8	109	60.0 to 140.				
trans-1,2-Dichloroethene	.908	.8	114	60.0 to 140.				
1,1-Dichloroethane	.868	.8	109	60.0 to 140.				
Methyl tert-Butyl Ether	.848	.8	106	60.0 to 140.				
Vinyl Acetate	.859	.8	107	60.0 to 140.				
Methyl Ethyl Ketone	.874	.8	109	60.0 to 140.				
cis-1,2-Dichloroethylene	.872	.8	109	60.0 to 140.				
Hexane	.868	.8	109	60.0 to 140.				
Ethyl Acetate	.873	.8	109	60.0 to 140.				
Chloroform	.906	.8	113	60.0 to 140.				
Tetrahydrofuran	.854	.8	107	60.0 to 140.				
1,2-Dichloroethane	.863	.8	108	60.0 to 140.				
1,1,1-Trichloroethane	.867	.8	108	60.0 to 140.				
Benzene	.878	.8	110	60.0 to 140.				
Carbon Tetrachloride	.884	.8	111	60.0 to 140.				
Cyclohexane	.86	.8	108	60.0 to 140.				
1,2-Dichloropropane	.901	.8	113	60.0 to 140.				
Bromodichloromethane	.816	.8	102	60.0 to 140.				
1,4-Dioxane	.801	.8	100	60.0 to 140.				
Trichloroethylene	.862	.8	108	60.0 to 140.				

Sample: WG497676-4 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:02:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803018

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
2,2,4-Trimethylpentane	.905	.8	113	60.0 to 140.				
Methyl Methacrylate	.836	.8	105	60.0 to 140.				
Heptane	.902	.8	113	60.0 to 140.				
cis-1,3-Dichloropropene	.817	.8	102	60.0 to 140.				
trans-1,3-Dichloropropene	.752	.8	94	60.0 to 140.				
1,1,2-Trichloroethane	.849	.8	106	60.0 to 140.				
Methyl Isobutyl Ketone	.923	.8	115	60.0 to 140.				
Toluene	.842	.8	105	60.0 to 140.				
Methyl Butyl Ketone	.805	.8	101	60.0 to 140.				
Dibromochloromethane	.798	.8	99.8	60.0 to 140.				
1,2-Dibromoethane	.842	.8	105	60.0 to 140.				
Tetrachloroethylene	.889	.8	111	60.0 to 140.				
Chlorobenzene	.896	.8	112	60.0 to 140.				
Ethylbenzene	.837	.8	105	60.0 to 140.				
m & p-Xylene	1.696	1.6	106	60.0 to 140.				
Bromoform	.751	.8	93.9	60.0 to 140.				
Styrene	.771	.8	96.4	60.0 to 140.				
1,1,2,2-Tetrachloroethane	.849	.8	106	60.0 to 140.				
o-Xylene	.858	.8	107	60.0 to 140.				
Nonane	.821	.8	103	60.0 to 140.				
Cumene	.842	.8	105	60.0 to 140.				
2-Chlorotoluene	.79	.8	98.8	60.0 to 140.				
n-Propylbenzene	.802	.8	100	60.0 to 140.				
4-Ethyltoluene	.81	.8	101	60.0 to 140.				
1,3,5-Trimethylbenzene	.812	.8	102	60.0 to 140.				
1,2,4-Trimethylbenzene	.778	.8	97.3	60.0 to 140.				
Benzyl Chloride	.63	.8	78.8	60.0 to 140.				
1,3-Dichlorobenzene	.848	.8	106	60.0 to 140.				
1,4-Dichlorobenzene	.809	.8	101	60.0 to 140.				
1,2-Dichlorobenzene	.827	.8	103	60.0 to 140.				
Naphthalene	.71	.8	88.8	60.0 to 140.				

Sample: WG497676-5 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:44:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803019

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-5 **Spikelot:** IH702835
QC Type: DLS **Raw File:**
Analysis date 03/24/21 13:44:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803019

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	5.336	5	107	60.0 to 140.				
Acetonitrile	6.098	5	122	60.0 to 140.				
Acetone	5.826	5	117	60.0 to 140.				
Isopropyl Alcohol	4.692	5	93.8	60.0 to 140.				
tert-Butyl Alcohol	4.577	5	91.5	60.0 to 140.				
Carbon Disulfide	4.983	5	99.7	60.0 to 140.				

Sample: WG497676-1 **Spikelot:** NA
QC Type: BLANK **Raw File:**
Analysis date 03/24/21 14:24:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803135

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-1 **Spikelot:** NA
QC Type: BLANK **Raw File:**
Analysis date 03/24/21 14:24:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803214

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits

Sample: WG497676-7 **Spikelot:** IH702388
QC Type: CCV **Raw File:**
Analysis date 03/25/21 01:18:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Propylene	53.102	50	106	70.0 to 130.				
Freon-12	53.354	50	107	70.0 to 130.				
Chloromethane	56.574	50	113	70.0 to 130.				
Freon-114	54.749	50	109	70.0 to 130.				
Vinyl Chloride	54.526	50	109	70.0 to 130.				
1,3-Butadiene	56.444	50	113	70.0 to 130.				
n-Butane	54.868	50	110	70.0 to 130.				
Bromomethane	53.313	50	107	70.0 to 130.				
Chloroethane	56.836	50	114	70.0 to 130.				
Acetonitrile	52.013	50	104	70.0 to 130.				
Vinyl Bromide	53.045	50	106	70.0 to 130.				
Acrolein	53.367	50	107	70.0 to 130.				
Acetone	52.537	50	105	70.0 to 130.				
Freon-11	53.595	50	107	70.0 to 130.				

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Work Group: WG497676

Sample: WG497676-7 **Spikelot:** IH702388
QC Type: CCV **Raw File:**
Analysis date 03/25/21 01:18:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Isopropyl Alcohol	54.515	50	109	70.0 to 130.				
Acrylonitrile	53.898	50	108	70.0 to 130.				
Pentane	53.381	50	107	70.0 to 130.				
Ethyl Bromide	53.617	50	107	70.0 to 130.				
1,1-Dichloroethene	53.37	50	107	70.0 to 130.				
tert-Butyl Alcohol	53.564	50	107	70.0 to 130.				
Methylene Chloride	50.798	50	102	70.0 to 130.				
Freon-113	52.997	50	106	70.0 to 130.				
Carbon Disulfide	52.855	50	106	70.0 to 130.				
Allyl Chloride	52.996	50	106	70.0 to 130.				
trans-1,2-Dichloroethene	53.535	50	107	70.0 to 130.				
1,1-Dichloroethane	53.06	50	106	70.0 to 130.				
Methyl tert-Butyl Ether	53.247	50	106	70.0 to 130.				
Vinyl Acetate	53.347	50	107	70.0 to 130.				
Methyl Ethyl Ketone	53.673	50	107	70.0 to 130.				
cis-1,2-Dichloroethylene	53.628	50	107	70.0 to 130.				
Hexane	53.72	50	107	70.0 to 130.				
Ethyl Acetate	54.84	50	110	70.0 to 130.				
Chloroform	53.161	50	106	70.0 to 130.				
Tetrahydrofuran	53.11	50	106	70.0 to 130.				
1,2-Dichloroethane	53.556	50	107	70.0 to 130.				
1,1,1-Trichloroethane	53.328	50	107	70.0 to 130.				
Benzene	52.649	50	105	70.0 to 130.				
Carbon Tetrachloride	54.034	50	108	70.0 to 130.				
Cyclohexane	53.413	50	107	70.0 to 130.				
1,2-Dichloropropane	53.185	50	106	70.0 to 130.				
Bromodichloromethane	53.729	50	107	70.0 to 130.				
1,4-Dioxane	54.64	50	109	70.0 to 130.				
Trichloroethylene	53.823	50	108	70.0 to 130.				
2,2,4-Trimethylpentane	53.545	50	107	70.0 to 130.				
Methyl Methacrylate	55.6	50	111	70.0 to 130.				
Heptane	54.15	50	108	70.0 to 130.				
cis-1,3-Dichloropropene	54.533	50	109	70.0 to 130.				
trans-1,3-Dichloropropene	54.559	50	109	70.0 to 130.				
1,1,2-Trichloroethane	53.7	50	107	70.0 to 130.				
Methyl Isobutyl Ketone	53.581	50	107	70.0 to 130.				
Toluene	53.393	50	107	70.0 to 130.				

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Work Group: WG497676

Sample: WG497676-7 **Spikelot:** IH702388
QC Type: CCV **Raw File:**
Analysis date 03/25/21 01:18:00 **Approval Status:** YES
Instrument: MS J **Samp Join ID:** SJ12803020

Parameter	Found	True	Rec.	Limits	DE Rec.	Limits	RPD	Limits
Methyl Butyl Ketone	56.142	50	112	70.0 to 130.				
Dibromochloromethane	55.542	50	111	70.0 to 130.				
1,2-Dibromoethane	54.436	50	109	70.0 to 130.				
Tetrachloroethylene	54.182	50	108	70.0 to 130.				
Chlorobenzene	54.041	50	108	70.0 to 130.				
Ethylbenzene	54.046	50	108	70.0 to 130.				
m & p-Xylene	108.739	100	109	70.0 to 130.				
Bromoform	55.726	50	111	70.0 to 130.				
Styrene	55.315	50	111	70.0 to 130.				
1,1,2,2-Tetrachloroethane	55.251	50	111	70.0 to 130.				
o-Xylene	55.168	50	110	70.0 to 130.				
Nonane	55.825	50	112	70.0 to 130.				
Cumene	55.262	50	111	70.0 to 130.				
2-Chlorotoluene	55.172	50	110	70.0 to 130.				
n-Propylbenzene	54.964	50	110	70.0 to 130.				
4-Ethyltoluene	55.873	50	112	70.0 to 130.				
1,3,5-Trimethylbenzene	55.331	50	111	70.0 to 130.				
1,2,4-Trimethylbenzene	56.097	50	112	70.0 to 130.				
Benzyl Chloride	58.204	50	116	70.0 to 130.				
1,3-Dichlorobenzene	55.951	50	112	70.0 to 130.				
1,4-Dichlorobenzene	55.047	50	110	70.0 to 130.				
1,2-Dichlorobenzene	56.747	50	113	70.0 to 130.				
Naphthalene	57.106	50	114	70.0 to 130.				

773210656088
Date:03/23/21
Shipper:FEDEX
Initials:MAK

Prep:UNKNOWN

i53971

GALSON CHAIN OF CUSTODY

Turn Around Time (TAT):	(surcharge)
☐ Standard	0%
☒ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☑ Samples submitted using the FreePumpLoan™ Program

☐ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 14935

Original Prep No.: PSY604532

CS Rep: JTRAINER

Online COC No.: 222128

Report To: Mr. Alec Minavio
Company Name: Leader Professional Services, Inc.
Address 1: 271 Marsh Road
Address 2: Suite 2
City, State Zip: Pittsford, NY 14534
Phone No.: 585 - 248 - 2413
Cell No.:
Email reports to: aminavio@leaderlink.com
Comments:

Invoice To: Mr. Rob M
Company Name: Leader Pr
Address 1: 271 Marsh
Address 2: Suite 2
City, State Zip: Pittsford
Phone No.: 585 - 248
Email Address: rmurphy@l
Comments:
P.O. No.:
Payment info.: ☐ I will call ☐ Card on F

Comments: Need NYSDEC EDD w/ QC summaries Cat B Deliverables

State Sampled: NY

Please ☐ OSH ☐ IAQ

Site Name:

Project: 235.198

Sampled By:

List description of industry or

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	M
		Minican, 1 L			Volatile Organics Profile (TO15 list)	mod. PV21 TO15

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have u

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature
Relinquished By :					Received By :	Michelle Krage
Relinquished By :					Received By :	

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

SGS North America, 6601 Kirkville Road E. Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315

SGS GALSON **CHAIN OF CUSTODY**

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	
IA-1	3/18/21	Minican, 1 L	8 hour	1 L	Volatile Organics Profile (TO15 list)	mod PV2: TO1:
SS-1	↓	Minican, 1 L	↓	↓	Volatile Organics Profile (TO15 list)	mod PV2: TO1.
SS-2	↓	Minican, 1 L	↓	↓	Volatile Organics Profile (TO15 list)	mod PV2: TO1.
IA-2	↓	Minican, 1 L	↓	↓	Volatile Organics Profile (TO15 list)	mod PV2 TO1
OA-1	↓	Minican, 1 L	↓	↓	TO15 List	Ef

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature
Relinquished By :	Alec Minauin	[signature]	3/19/21	13:40	Received By :	Michelle Krause
Relinquished By :					Received By :	

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

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Field Data Sheet

Facility: Bisonite paint
Address: 2250 Military Road

Employee: Alec Minacuio
ID Number:
Sampled By: Alec Minacuio

Job Title: Geology
Date of Sampling: 3/12/15
PREP #

Field Sampling Data **Contaminant(s)**

Sample ID	Minican Number (WA or WC)	Regulator Number (WR or RR)	Flowmeter Number (AS)	Flow Rate Setting (Hrs. or Mins.)	Time On	Time Off	Starting Gauge Reading 28-30" Hg	Ending Gauge Reading 30-0" Hg	
IA-1	WA518	WR932		Hrs.	10:30	6:30	30+	10	
SS-1	WA932	WR940			10:35	6:35	30+	6	
IA-2	WA664	WR942			10:45	6:45	30+	6	
SS-2	WA940	WR951			10:50	6:50	30+	12	
OA-1	WA937	WR935			10:55	6:55	29	9	

SGS GALSON LABORATORIES

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Laboratory Regulator Calibration Data

PSY604532

Regulator Calibration Record

Regulator Number	Can Number	Calibrated By: AJS Date/Time: 03-11-21/1620 Meter Reading(cc/min.)	Minutes or Hour(s)	Flow Professor Utilized Date/Time: 03-11-21/1620 Flow Professor SN	Pre Can Vacuum Reading (Between 28-30" Hg) (LAB USE)	Post Flow Meter Reading (cc/min) (LAB USE)
WR951	WA590	1.65	8 HOUR	379	-29.41	
WR940	WA932	1.66	8 HOUR	378	-29.44	
WR942	WA664	1.65	8 HOUR	380	-29.44	
WR932	WA518	1.65	8 HOUR	379	-29.44	
WR935	WA937	1.66	8 HOUR	378	-29.45	

Flow Professor Utilized	Flow Professor Serial Number	Checked Box Indicates Flow Professor Utilized
Flow Professor (FP1)	380	X
Flow Professor (FP2)	379	X
Flow Professor (FP3)	378	X
Flow Professor (FP4)	523	
GRAB		

GALSON LABORATORIES INC. IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Appendix C

Data Usability Summary Reports

Data Usability Summary Report
March 2021 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory Tier IV deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on March 18, 2021. A total of 41 samples were collected, including Quality Control samples, during the March 2021 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Semi-Volatile Organics ("SVOCs") USEPA Method 8270D

Field duplicate, surrogates, internal standards, reference samples, matrix spikes, and matrix spike duplicates were included in the sample set and processed. Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2102620	03/18/2021	03/19/2021	Soil (17 Samples)	VOCs 8270 Total Solids	6.9°C
R2102621	03/18/2021	03/19/2021	Soil (24 Samples)	VOCs 8270 Total Solids	6.9°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples (not collected);
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory reports, R2102620 and R2102621, associated with the 41 soil samples collected on March 18, 2021 is detailed below:

1. SSA-6: 0-2 inches; 6 inches; 12 inches; and 23 inches
2. SSB-4: 0-2 inches; 5 inches; 10 inches; and 18 inches
3. SSA-5: 0-2 inches; 6 inches; 12 inches; and 21 inches
4. SSA-5 Duplicate: 21 inches
5. SSA-5 MS/MSD: 21 inches
6. SSA-4: 0-2 inches; 5 inches; 8 inches; and 18 inches
7. SSB-3: 0-2 inches; 6 inches; 12 inches; and 24 inches
8. SSA-3: 0-2 inches; 6 inches; 12 inches; and 20 inches
9. SSA-2: 0-2 inches; 6 inches; 12 inches; and 24 inches
10. SSB-2: 0-2 inches; 6 inches; 12 inches; and 24 inches
11. SSA-1: 0-2 inches; 6 inches; 12 inches; and 20 inches
12. SSB-1: 0-2 inches; 6 inches; 12 inches; and 24 inches

Sample SSA-5 (21 inches) was collected in Duplicate as well as Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There one (1) discrepancy on the COC related to sample SSB-3. The sample was mislabeled on the COC. The Project Manager contacted ALS with the change. ALS modified the sample label to reflect the correct sample information.

PRESERVATION AND TECHNICAL HOLDING TIMES

The sample temperatures were 6.9°C, slightly above the 6.0°C limit. The laboratory noted that there were not enough ice packs. The temperature is noted without qualification.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures.

Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the soil samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All the soil samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A Trip blank was NOT included with the shipment of the soil samples.

Field (Equipment) Blanks

A field (equipment) blank was NOT collected on March 18, 2021 as part of this project. The samples were collected with dedicated field equipment.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the soil samples collected on March 18, 2021. There were no target analytes found in the method blanks.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the soil samples. Some of the matrix spikes were outside of the control limits due to sample matrix. However, the LCS/LCSD samples were within control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates except for some LCS sample surrogates which were re-extracted and found within limits.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative, if any.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 20, 2021

.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

March 18, 2021 Sampling Event

Sample Data Group (SDG)	**R2102620 and R2102621**
Matrix	**Soil**
Analysis	**SVOCs 8270**
Holding Times	Samples were extracted and analyzed within USEPA holding times
Sample Preservation	The samples were collected in accordance with laboratory protocols. The sample temperatures were 6.9°C, above the 6.0°C limit. The laboratory noted that there were not enough ice packs. The temperature is noted without qualification.
Calibration	In the calibrations, all criteria were within method requirements.
Method Blanks	There were no detections of target analytes in the Method Blanks.
Detection Limits	No issues identified. Samples requiring dilution are reflected in the reporting limits.
Matrix Spike/Matrix Spike Duplicate	Some of the matrix spikes were outside of the control limits due to sample matrix. The LCS/LCSD samples were within control limits. No further action is required or noted. All other data quality objectives were satisfied.
Surrogates	The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The surrogate was within limits for the original analysis. All other data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

March 18, 2021 Sampling Event

Sample Data Group (SDG)	**R2102620 and R2102621**
Matrix	**Soil**
Analysis	**SVOCs 8270**
Laboratory Control Sample	The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. The discrepancy associated with reduced recovery equates to a potential low bias. The samples were re-extracted and within the control limits. All other data quality objectives were satisfied. The laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable for use.

Data Usability Summary Report
March 2021 Sampling Event
Bisonite Site
MEHC Project No. 14-223

EXECUTIVE SUMMARY

This Data Usability Summary Report is for the Air Sampling Event at the Bisonite Site ("Site"). The sampling event was conducted by Leader Professional Services, Inc. ("LPSI") on March 18, 2021 which included indoor and outdoor air sampling using 1-liter stainless steel canisters.

The review of the data was evaluated for the following levels of uncertainty:

- **Critical** – Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.
- **Major –** A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data have been qualified "J" estimated.
- **Minor –** The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings: None
Major Findings: None
Minor Findings: None

The data meets all quality control and quality assurance objectives.

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by LPSI. The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the Interim Remedial Measures and air sampling at the Site. The Air Sampling was conducted by LPSI and submitted for analysis to SGS Galson Laboratories ("SGS") by USEPA Method TO-15.

SAMPLE SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by SGS, pertaining to samples collected for the Site Investigation on March 18, 2021. A total of five (5) air samples were collected during the March 18, 2021 sampling event and analyzed for TO-15 Volatile Organic Compounds ("VOCs") including the laboratory quality control samples.

The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatiles Organic Compounds (VOCs)	Method TO-15/Modified OSHA PV2120
Sample Delivery Group (SDG) No.	L531971

Surrogates, internal standards, laboratory control samples, laboratory matrix spikes, and laboratory duplicates were included and processed.

Samples were collected and received on the following schedule:

Sample Package ID	Date Collected	Date Received by SGS	Sample Matrix	Requested Analyses	Sample (Post) Vacuum (in Hg)
L531971	03/18/2021	03/23/2021	Air	USEPA TO-15	-10; -6; -6; -12; and -9

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Laboratory Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All the reviewed data was found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data and generated in compliance with analytical protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

SAMPLING INFORMATION AND SAMPLE CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The complete list of sample information was provided:

a. Sample Locations: Bisonite Site
b. Sample Matrix: Air
c. Trip Blanks: No Trip Blank
d. Field Duplicate: No Field Duplicate

e. QC Audit Samples: Laboratory Control Samples with Duplicate and Matrix Spikes
f. Sampling Date: March 18, 2021
g. Received at SGS: March 23, 2021
h. Laboratory: SGS Analytical
i. Initial/Final Canister Pressure: In Compliance
j. Initial/Final Canister Temperature: In Compliance

The Chain of Custody ("COC") accurately documents the sample collection. The following samples were submitted to SGS:

1. 1A-1
2. SS-1
3. SS-2
4. 1A-2
5. OA-1

Accuracy, Precision, and Sensitivity of Analyses

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy is assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Air Sampling are considered "usable".

Completeness, Representativeness, and Comparability of Data

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by SGS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures.

Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the air samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. A

Field Duplicate was NOT collected.

All the air samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

Quality Control Checks

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for VOCs. Analysis of trip blanks determines whether sample canister was contaminated during shipment from the laboratory, while in storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of clean canister prepared by the analytical laboratory prior to transportation the sample canisters.

A Trip blank was not included with the shipment of the air samples. However, a canister certification evaluation was completed on SGS pre-cleaned containers. There were no detectable levels of VOCs in these sampled containers.

Field (Equipment) Blanks

Given that dedicated sampling pre-cleaned stainless steel air sampling equipment was utilized for the collection of each sample, a field (equipment) blank not collected.

Method Blanks

A method blank is a sample of air, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background contamination.

For this investigation, a laboratory method blank was analyzed alongside the air samples collected on March 18, 2021. No VOC compounds were detected in the method blanks analyzed during this investigation.

Canister Suitability

Canisters used for the sampling of ambient air must be demonstrated clean and leak free prior to sample collection. This cleanliness is demonstrated by analysis of an individual canister or analysis of a representative canister, if only batch cleaning was required. Leak proof testing is performed on individual canisters. Canisters are used in conjunction with gauges, valves, and flow controllers. Therefore, the canister should be demonstrated clean and leak free inclusive of these components.

Leak Proof Test: Canister are tested by their ability to hold vacuum/pressure within +/-2 psi for a period of 24 hours preceding sampling.

Cleanliness: Integrity of the canister used for sampling of air for analysis should be always maintained including the time of shipment to the field, sampling, shipment back to the laboratory and time of analysis. Analytical results of the canister cleanliness verification are considered in the validation of sample results.

Matrix Spike/Matrix Spike Duplicate Samples

For this project, there was a laboratory QC MS/MSD analysis performed.

The results were within the control limits.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and laboratory control sample, with the exceptions (if any) noted in the above narrative.

PREPARED BY: ME Holvey Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 19, 2021

Data Validation Compliance Chart
Bisonite Site

March 18, 2021 Sampling Event

<table>
<tr><th>Sample ID</th><th colspan="3">L531971</th></tr>
<tr><th>Matrix</th><th colspan="3">Air</th></tr>
<tr><td>Analysis</td><td colspan="3">USEPA TO-15 – Whole Air Samples</td></tr>
<tr><td>Holding Times</td><td colspan="3">Samples were analyzed within USEPA holding times.</td></tr>
<tr><td rowspan="6">Field Parameters</td><td>Sample ID</td><td>Vacuum Initial (in Hg)</td><td>Vacuum Final (in Hg)</td></tr>
<tr><td>L531971-1 (IA-1)</td><td>-30+</td><td>-10</td></tr>
<tr><td>L531971-2 (SS-1)</td><td>-30+</td><td>-6</td></tr>
<tr><td>L531971-3 (SS-2)</td><td>-30+</td><td>-6</td></tr>
<tr><td>L531971-4 (IA-2)</td><td>-30+</td><td>-12</td></tr>
<tr><td>L531971-5 (OA-1)</td><td>-29</td><td>-9</td></tr>
<tr><td>Calibration</td><td colspan="3">In the continuing calibration for all compounds are within of method control limits.

All data quality objectives were satisfied.</td></tr>
<tr><td>Method Blanks</td><td colspan="3">All quality assurance parameters were met for these analyses.</td></tr>
<tr><td>Canister Leak Check</td><td colspan="3">The canisters passed the leak check. All quality assurance parameters were met.</td></tr>
<tr><td>Canister Cleanliness</td><td colspan="3">No detectable compounds found in the Canister Certification Evaluation. All quality assurance parameters were met for these analyses.</td></tr>
</table>

Data Validation Compliance Chart
Bisonite Site

March 18, 2021 Sampling Event

Sample ID	**L531971**
Matrix	**Air**
Analysis	**USEPA TO-15 – Whole Air Samples**
Matrix Spike/Matrix Spike Duplicate	Laboratory matrix spike recovery and/or matrix spike duplicate recovery were within control limits.
Surrogates	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.
Laboratory Control Samples	All laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable.

Appendix D

NYSDOH Indoor Air Quality Questionnaire and Building Inventory

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Frank Thomas Date/Time Prepared 6/30/21 9:00 am

Preparer's Affiliation Leader Professional svcs Phone No. 585 248-2413

Purpose of Investigation Former Bissonite Paint Facility SVI Investigation

1. OCCUPANT: - Wood Furniture Refinishing

Interviewed: Y / N (circled: N)

Last Name: ________ First Name: ________

Address: Elwood Company * Occupant not present

County: ________

Home Phone: ________ Office Phone: No phone in shop

Number of Occupants/persons at this location 1 Age of Occupants ________

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N (circled: Y)

Last Name: Walter First Name: Matt

Address: 2266-2268 Military Rd. (Site), Tonawanda, NY

County: ________

Home Phone: ________ Office Phone: 716-404-5480

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use (circled)
Industrial	Church	Other: ________

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other None
c. Basement floor:	concrete	dirt	stone	other None
d. Basement floor:	uncovered	covered	covered with None	
e. Concrete floor:	unsealed	sealed	sealed with ______	
f. Foundation walls:	poured	block	stone	other ______
g. Foundation walls:	unsealed	sealed	sealed with Painted	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished N/A	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: ________(feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Floor inside BCP Portion of building in excellent condition. Expansion joints in concrete are sealed. No major cracks or exposed drains observed

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other ______

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other NA
Air conditioning:	Central Air	Window units	Open Windows	None

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Furniture refinishing shop SW corner of building

k. Is there new carpet, drapes or other textiles? Y / N Where & When? ______________

l. Have air fresheners been used recently? Y / N When & Type? ______________

m. Is there a kitchen exhaust fan? Y / N If yes, where vented?______________

n. Is there a bathroom exhaust fan? Y / N If yes, where vented?______________

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type?______________

*Furniture stripping exhaust fan at SW corner of building

Are there odors in the building? Y / N
If yes, please describe: VOC odors present in furniture refinishing shop

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Paint thinner, wood stripper, wood stains + finishers

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: ____________
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _______

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _______

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

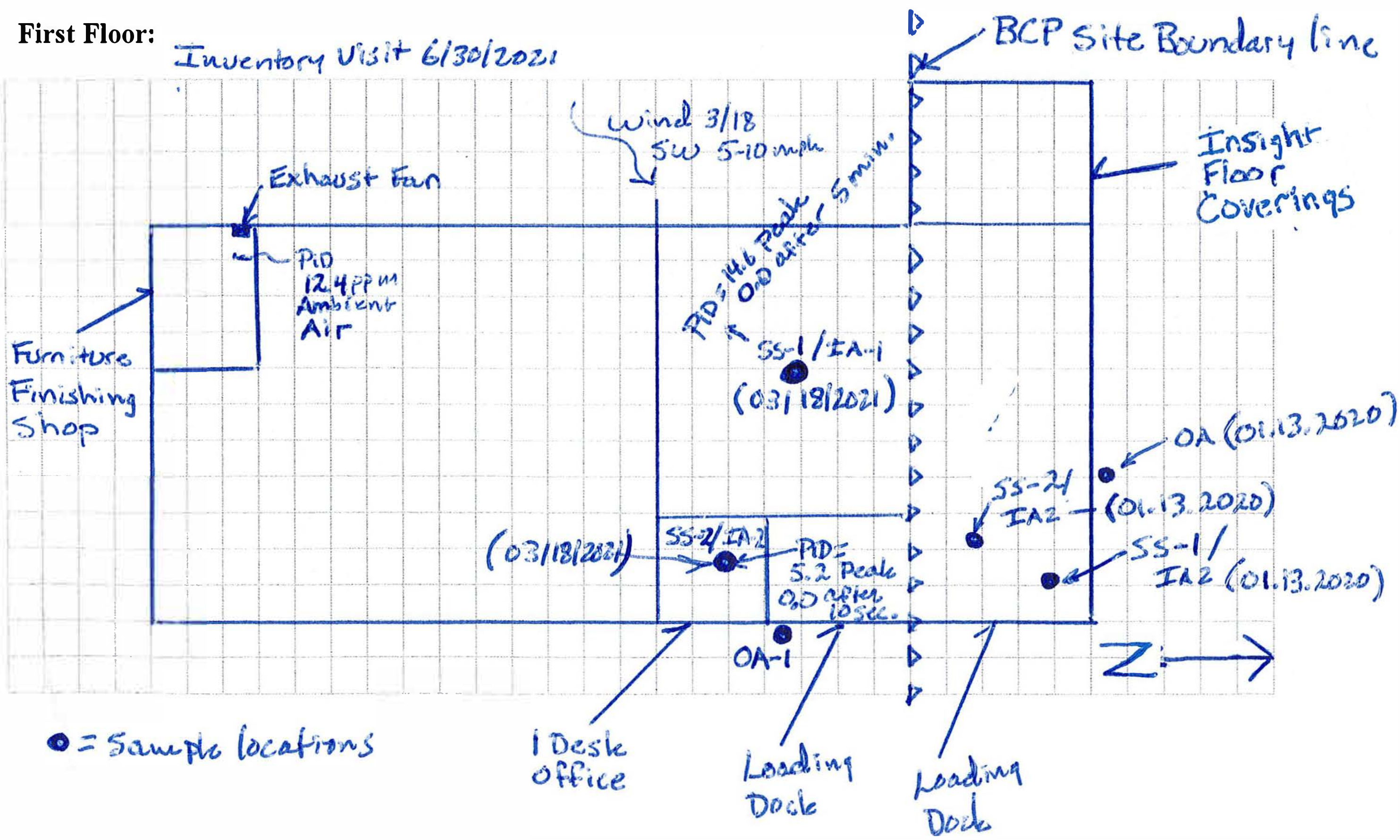
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo **
Furniture Finishing	Emco 2245 Stripper	1 5-Gal	Fair loose cap U	Methylene chloride, Acetate Methanol	> 2000 PPM	Y
"	Sunnyside Lacquer Thinner	1 5 Gal	Fair U	Ethylacetate, Acetone, Toluene, Xylene, MEK, Ethylbenzene	N/A	Y
"	Emco 4776 Polishing Solution	1 5 Gal	Fair U	Petroleum Distillates, mixed Solvents, Naphtha		Y
"	Lenmar Ultralaq	4 1 Gal	Good UO	Ethyl acetate, Acetone, Xylene, Toluene, Ethanol		Y
"	Lenmar Duralaq	1 1 Gal	Good UO	Acetone, Toluene, Ethanol, Xylene, E.Benzene, n-Butyl Acetate		Y
"	All Pro Paint Thinner	1 1 Gal	Good U	Benzene, 1,2,4-Trimethylbenzene, Stoddard solvent		Y
"	3M Final Finish	8 oz	Good U	Aluminum oxide, Petroleum Distilate		Y
"	Sherwood Universal Dye Stain	1 1 qt	Good U	1-Methoxy-2-propanol 2-Methoxy-2-propanol		Y
"	Klean Strip Mineral Spirits	1 1 Gal	Good U	Petroleum Distillate		Y
"	Mohawk Classic Toner - aersol cans	53 18 oz	Good U + UO	Acetone, toluene, isopropanol, ethylbenzene, Petroleum gas		Y
"	Unlabeled open container stripper	1 5 Gal	U Poor	- Strong VOC odor gel, open lid	> 3000	Y
"	Unmarked Cans of stains + paint	± 6 Various	Good U	Appears to be wood stains in 1 pt to 1 qt cans		N
"	New + Used Air driven					
	Spray Guns Observed					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Insight Const	Mohawk M700 Adhesive	3 4-Gal	UO	Solvent + Voc Free No Hazardous ingredients	ND in	N
"	Mohawk Express Carpet adhesive	8 4-Gal	UO	Vinyl acrylic VOC's < 3.1 grams/liter	Room	N
"	Armstrong Tile adhesive - vinyl	4 4-Gal	UO + U	No Hazardous ingredients		N
"	Flextile 200 Ceramic tile adhesive	3 4-Gal	UO	Calcium Carbonate, Silica Sand, Petroleum Distillate		N
	* Mohawk + Armstrong ingredients not listed - "proprietary ingredients"					
	* All containers new or used were sealed tight					
	* Space occupied by Insight Floor Covering					

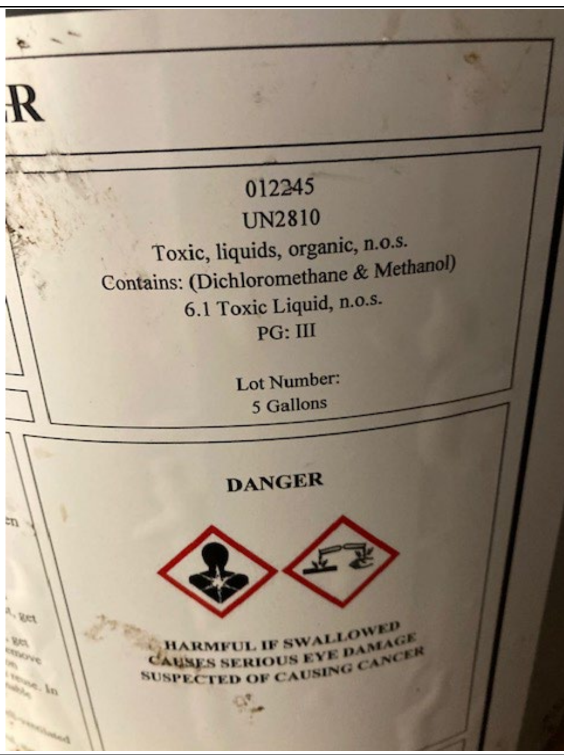
* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Appendix E

Furniture Refurbishing Shop Product Inventory Photographs

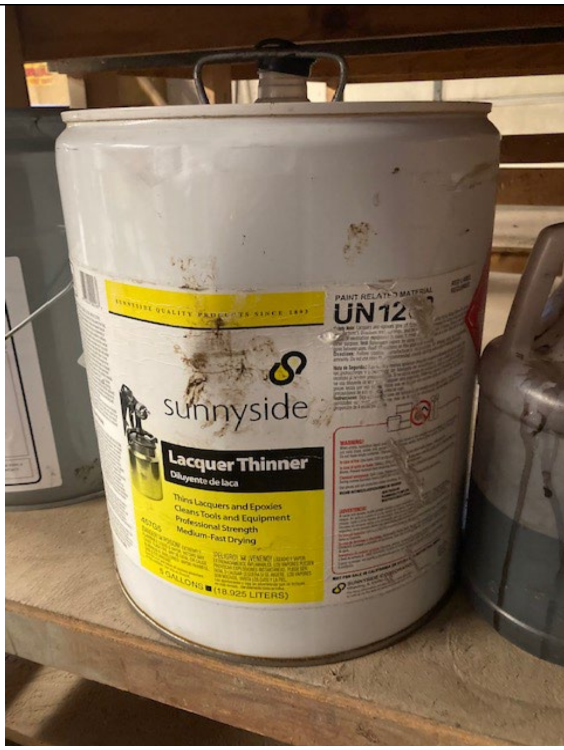
Flammable cabinet in furniture restoration shop.

Furniture stripper containing Methylene Chloride.

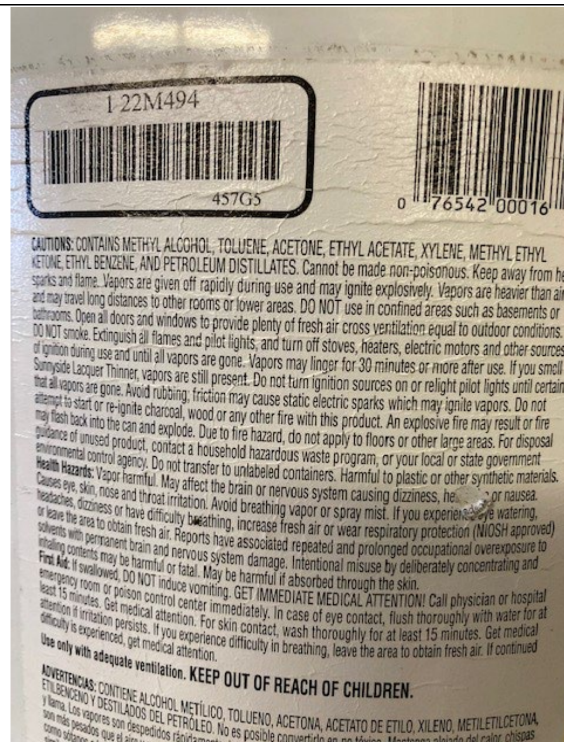


Ingredients on 2245 Stripper. Dichloromethane (a.k.a. Methylene Chloride) and Methanol

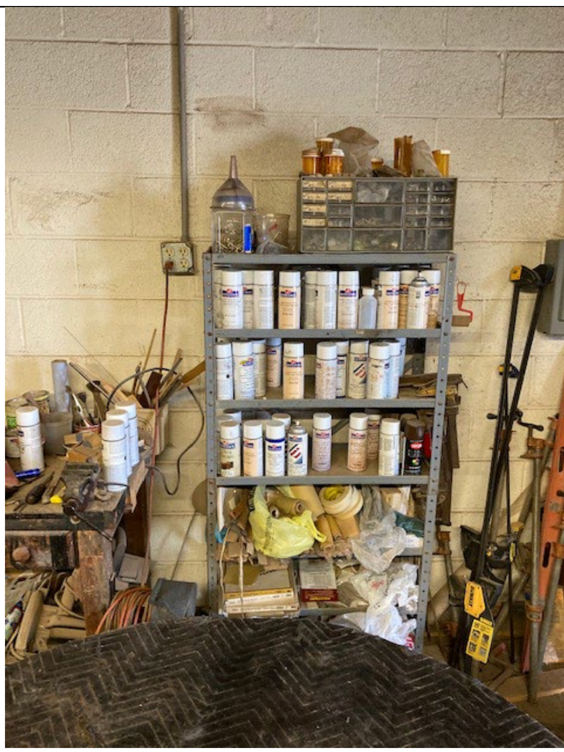
Uncovered 5-gallon pail containing what appears to be gelled furniture stripper (>3000 ppm).



Lacquer thinner containing toluene, xylene, MEK, ethylbenzene, ethyl acetate



Ingredients on lacquer thinner



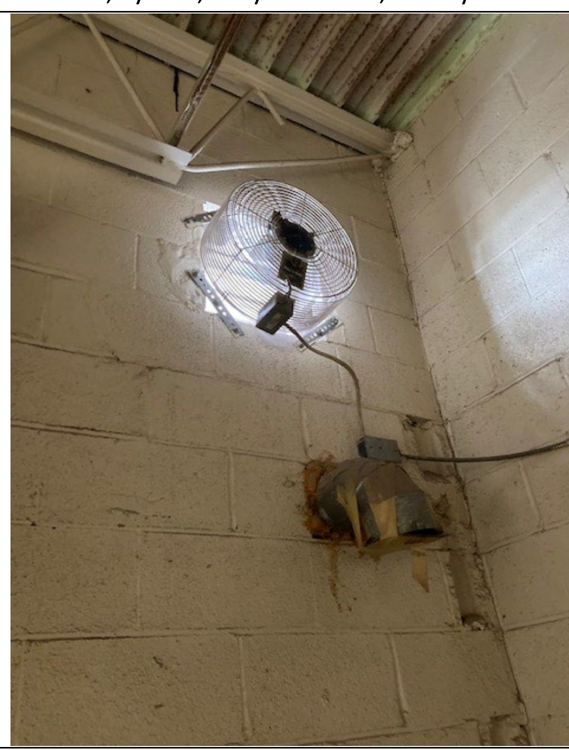
Shelf containing Mohawk spray toner and finishes.

Dual compartment Diesel and Kerosene aboveground tank looking south.

Paint thinner and mineral spirits containing benzene, 1,2,4-trimethylbenzene, stoddard solvent

1 gallon can lacquer containing acetone, toluene, ethanol, xylene, ethyl benzene, n-butyl acetate

Lacquer, thinner and polisher products removed from flammable cabinet for inventory.



Ventilation exhaust fan inside furniture finishing shop.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Frank Thomas Date/Time Prepared 6/30/21 9:00 am

Preparer's Affiliation Leader Professional svcs Phone No. 585 248-2413

Purpose of Investigation Former Bisonite Paint Facility SVI Investigation

1. OCCUPANT: - Wood Furniture Refinishing

Interviewed: Y / N (N circled)

Last Name: ____________ First Name: ____________

Address: Elwood Company * Occupant not present

County: ____________

Home Phone: ____________ Office Phone: No phone in shop

Number of Occupants/persons at this location 1 Age of Occupants ____________

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N (Y circled)

Last Name: Walter First Name: Matt

Address: 2266-2268 Military Rd. (Site), Tonawanda, NY

County: ____________

Home Phone: ____________ Office Phone: 716-404-5480

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use (circled)
Industrial	Church	Other: ____________

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other None
c. Basement floor:	concrete	dirt	stone	other None
d. Basement floor:	uncovered	covered	covered with None	
e. Concrete floor:	unsealed	sealed	sealed with ______	
f. Foundation walls:	poured	block	stone	other ______
g. Foundation walls:	unsealed	sealed	sealed with Painted	
h. The basement is:	wet	damp	dry	moldy N/A
i. The basement is:	finished	unfinished	partially finished N/A	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: ________(feet) N/A

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Floor inside BCP Portion of building in excellent condition. Expansion joints in concrete are sealed. No major cracks or exposed drains observed

6. **HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other ______

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other NA
Air conditioning:	Central Air	Window units	Open Windows	None

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Furniture refinishing shop SW corner of building

k. Is there new carpet, drapes or other textiles? Y / N Where & When? ____________

l. Have air fresheners been used recently? Y / N When & Type? ____________

m. Is there a kitchen exhaust fan? Y / N If yes, where vented?____________

n. Is there a bathroom exhaust fan? Y / N If yes, where vented?____________

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type?____________

*Furniture stripping exhaust fan at SW corner of building

Are there odors in the building? Y / N
If yes, please describe: VOC odors present in furniture refinishing shop

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Paint thinner, wood stripper, wood stains + finishers

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: ____________
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _______

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _______

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

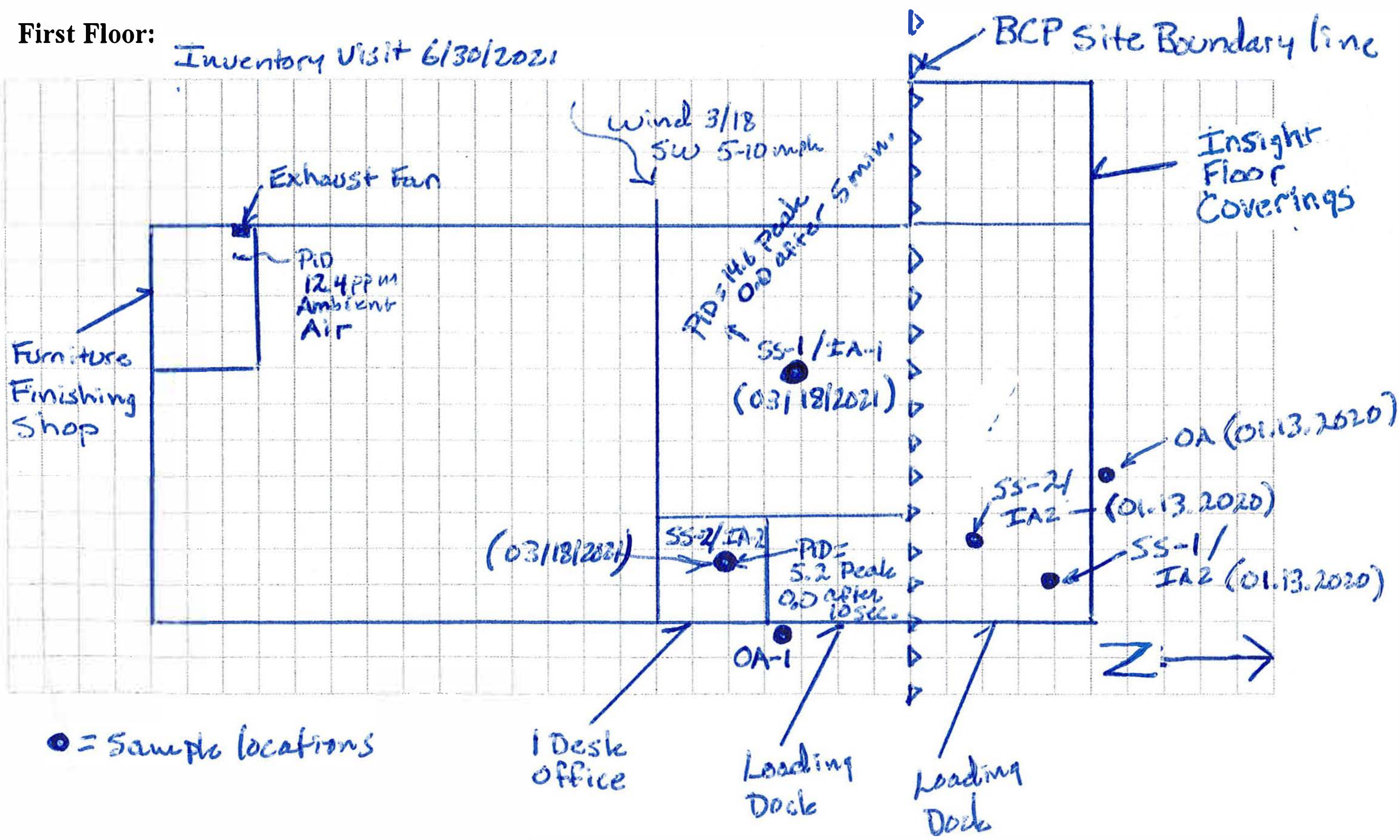
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

NO BASEMENT

First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo **
Furniture Finishing	Emco 2245 Stripper	1 5-Gal	Fair U loose cap	Methylene chloride, Acetate Methanol	> 2000 PPM	Y
"	Sunnyside Lacquer Thinner	1 5 Gal	Fair U	Ethylacetate, Acetone, Toluene, Xylene, MEK, Ethylbenzene	N/A	Y
"	Emco 4776 Polishing Solution	1 5 Gal	Fair U	Petroleum Distillates, mixed Solvents, Naphtha		Y
"	Lenmar Ultralaq	4 1 Gal	Good UO	Ethyl acetate, Acetone, Xylene, Toluene, Ethanol		Y
"	Lenmar Duralaq	1 1 Gal	Good UO	Acetone, Toluene, Ethanol, Xylene, E.Benzene, n-Butyl Acetate		Y
"	All Pro Paint Thinner	1 1 Gal	Good U	Benzene, 1,2,4-Trimethylbenzene, Stoddard Solvent		Y
"	3M Final Finish	8oz	Good U	Aluminum oxide, Petroleum Distilate		Y
"	Sherwood Universal Dye Stain	1 1qt	Good U	1-Methoxy-2-propanol 2-Methoxy-2-propanol		Y
"	Klean Strip Mineral Spirits	1 1 Gal	Good U	Petroleum Distillate		Y
"	Mohawk Classic Toner - aersol cans	53 18 oz	Good U + UO	Acetone, toluene, isopropanol, ethylbenzene, Petroleum gas		Y
"	Unlabeled open container stripper	1 5 Gal	U Poor	- Strong VOC odor gel, open lid	> 3000	Y
"	Unmarked Cans of stains + paint	± 6 Various	Good U	Appears to be wood stains in 1pt to 1qt cans		N
"	New + Used Air driven Spray Guns Observed					

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PID - MiniRAE 3000 10.6 Ev lamp

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Insight Const	Mohawk M700 Adhesive	3 4-Gal	UO	Solvent + VOC Free No Hazardous ingredients	ND in	N
"	Mohawk Express Carpet adhesive	8 4-Gal	UO	Vinyl acrylic VOC's < 3.1 grams/liter	Room	N
"	Armstrong Tile adhesive - vinyl	4 4-Gal	UO + U	No Hazardous ingredients		N
"	Flextile 200 Ceramic tile adhesive	3 4-Gal	UO	Calcium Carbonate, Silica Sand, Petroleum Distillate		N
	* Mohawk + Armstrong ingredients not listed - "proprietary ingredients"					
	* All containers new or used were sealed tight					
	* Space occupied by Insight Floor Covering					

* Describe the condition of the product containers as **Unopened (UO), Used (U)**, or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX B

SOIL BORING AND WELL CONSTRUCTION LOGS

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-1
Page 1 of 1

Project	235.198A	Location	Bisonite Paint Military Road	Permit #:	
Date Drilled	12/4	Drilling Co.:	Cascade	Job #:	235.198A
Total Depth	20'	Method Used:	Geoprobe		
Inspector	Rob Murphy	Organic Vapor Inst:	MiniRAE 3000	Water elv:	Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-6" asphalt 6-12" gray clay/light brown **Sample 1'-2' Lab** 1-2' uniform dark brown clay-silt	CL CL/ML GM	
5	2	Push	5'-10'		0.0	1-4 brown silty clay with gravel. 5'-10' Brown Clay with sand some gravel (20%)	CL	
10	3	Push	10'-15'		0.0	10'-15' Reddish Brown Clay, Minor Sand Gravel (20%)	CL	
15	4	Push	15'-20'		0.0	Reddish brown sandy silt gravel (15%) 17'-18' noticeably wet **Sample 17'18' Lab**	ML	
20						20' point of refusal. Possible rock		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-2
Page 1 of 1

Project 235.198A
Location Bisonite Paint Military Road
Permit #:
Date Drilled 12/4
Drilling Co.: Cascade
Job #: 235.198A
Total Depth
Method Used: Geoprobe
Inspector Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.06 328	Odor: Solvent 0-1' Crumbly Asphalt **Sample 1'-2' Lab** 1-' 5 clay litttle sand		
5	2	Push	5'-10'		0.7 2.2	**Sample 4'-6' Lab** 4'-5' white streaks (paint?) 5' piece of metal 5'-10' red clay, Hard	Fill	
10	3	Push	10'-15'		32 25.8	11'-13' wet, red clay 13'-15' silty clay 13'-15' wet, rock/gravel (20%)		
15	4	Push	15'-20'		24 150 6.5 0.6	15'-16' paint refuse **Sample 15'-17' Lab** 16'-20' red clay, wet	CL	
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-3
Page 1 of 1

LOG OF BORING

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 20' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.5	0-2' asphalt		
	1	Push	0-5'		1.1	**Sample 1'-2' Lab**		
					7.5	4'-5' clay, contaminated, stains	Fill	
5					400	**Sample 4'-6' Lab**		
	2	Push	5'-10'			5' dried paint found		
					10	6'-8' wet, 60% recovery	Fill to 8 ft.?	
						8'-10' moist, soft gravelly		
10					9	10'-15' red clay silt		
	3	Push	10'-15'			**Sample 10'-12' Lab**	CL	
					8			
					3			
15					1	15-16 red dry clay		
	4	Push	15'-20'			17-20 red wet clay	CL	
					1			
					1			
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-4
Page 1 of 1

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 17' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0	0-1' asphalt **Sample 1'-2' Lab** 1'-3' born silty clay 3'-5' red clay		
5	2	Push	5'-10'		0.5 0.2 0.0 .5	6'-10' wet 6'-10' red silty clay 9'-10' fill	Poss. Fill 10'	
10	3	Push	10'-15'		2.0 2.0	10'-15' fill red clay wet	CL/ML	
15	4	Push	15'-17'		0.0	Sample 15'-16' Lab 15'-17' brown silty clay 15% gravel 17 ft end, black rock		
20								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-5
Page 1 of 1

LOG OF BORING

Project: 235.198A | Location: Bisonite Paint Military Road | Permit #:
Date Drilled: 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth: 15' | Method Used: Geoprobe
Inspector: Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' black chunks of asphalt		
	1	Push	0-5'			2'-3' gray crumbly soil	Poss. Fill	
						2'-3' white color rock fragments (25%)	to 5'	
					0.0	**Sample 3'-5' Lab**		
5					1.0	4'-7' brown silty clay		
	2	Push	5'-10'		2.0	6-7 rock frag. (40%), wet		
					3.0	**Sample 7'-8' Lab**		
					2.0	7'-10' dry red clay gravel (15%)	GM/CL	
10						10'-15' red glay gravel (10%)		
	3	Push	10'-15'		0.0	10'-12' wet		
						Sample 12'-14' Lab		
					0.0	13'-14' dry		
15						14'-15' wet.		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-6
Page 1 of 1

LOG OF BORING

Project: 235.198A
Location: Bisonite Paint Military Road
Permit #:
Date Drilled: 12/4/19
Drilling Co.: Cascade
Job #: 235.198A
Total Depth: 10'
Method Used: Geoprobe
Inspector: Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' Gravel (85%)		
	1	Push	0-5'			**Sample 3'-4' Lab**		
						2'-4' Sandy clay, orange and brown	SM/CL	
					0.0	2'-4' wet		
5					0.0	4'-5' sandy clay wet		
	2	Push	5'-10'			5'-6' 75% gravel	GM	
					0.0	**Sample 6'-8' Lab**		
						6'-8' clay wet		
10						8'-10' dry clay	CL	
						10' wet.		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-7
Page 1 of 1
Permit #:
Job #: 235.198A

LOG OF BORING

Project 235.198A | Location Bisonite Paint Military Road
Date Drilled 12/4/19 | Drilling Co.: Cascade
Total Depth 15' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
						0-6' Asphalt		
	1	Push	0-5'			gray clay sand		
					800+	paint material	Fill to 8 ft.	
5					43	**Sample 4'-5' Lab**		
	2	Push	5'-10'			6'-7' light gray clayey poss. Fill		
						6'-7' paint material		
						Sample 6'-8' Lab		
10					5.0	Brown/Gray tight clay	CL	
	3	Push	10'-15'			**Sample 10'-12' Lab**		
					1.5			
						Brown Tight Clay	CL	
15						dark wet sandy		

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-8
Page 1 of 1

LOG OF BORING

Project 235.198A | Location Bisonite Paint Military Road | Permit #:
Date Drilled 12/4/19 | Drilling Co.: Cascade | Job #: 235.198A
Total Depth 15' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-1' grass+topsoil		
	1	Push	0-5'			**Sample 1'-2' Lab**		
					0.0	1'-2' clay brown	CL	
					0.0	3'-4' wet		
5					0.0	4'-5' dry clay	ML	
	2	Push	5'-10'			5'-10' red silt dry little rocks frag.		
						Sample 6'-8' Lab		
					0.0			
10					0.0	10'-15' red silt	ML	
	3	Push	10'-15'					
					00	15' ft boring ended.		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

LOG OF BORING

BORING #: SB-9
Page 1 of 1

Project: 235.198A
Location: Bisonite Paint Military Road
Permit #:
Date Drilled: 12/4/19
Drilling Co.: Cascade
Job #: 235.198A
Total Depth: 15'
Method Used: Geoprobe
Inspector: Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' asphalt, rock fill		
	1	Push	0-5'			**Sample 2'-4' Lab**		
					0.0	2'-5' hard red silty clay, little sand	Fill?	
					0.0			
5					0.0	5'-10' hard sandy clay with poss. concrete frag.	Fill?	
	2	Push	5'-10'					
					0.0			
10					0.0	11'-13' red sandy silt	SM/ML	
	3	Push	10'-15'			**Sample 11'-13' Lab**		
						13'-15' clay	CL	
					00	15' ft terminate		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-10
Page 1 of 1
Permit #:
Job #: 235.198A

LOG OF BORING

Project 235.198A | Location Bisonite Paint Military Road
Date Drilled 12/4/19 | Drilling Co.: Cascade
Total Depth 15' | Method Used: Geoprobe
Inspector Robert Murphy | Organic Vapor Inst: MiniRAE 3000 | Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
					0.0	0-2' asphalt, gravel fill		
	1	Push	0-5'			**Sample 2'-4' Lab**	Fill	
					0.0	3'-5' red silty clay gravel (18%)		
					0.0		CL/GM	
5					0.0	6'-10' red silty clay		
	2	Push	5'-10'			6'-10' gravel (20%) some sand	SM/GM	
					0.0			
10					0.0	11'-13' wet		
	3	Push	10'-15'			**Sample 12'-14' Lab**	GM	
						11'-15' red clay gravel (5%)		
					00	15' ft boring ended		
15								

LEADER PROFESSIONAL SERVICES

Environmental Engineers & Scientists

BORING #: SB-11
Page 1 of 1

LOG OF BORING

Project: 235.198A
Location: Bisonite Paint Military Road
Permit #:
Date Drilled: 12/4/19
Drilling Co.: Cascade
Job #: 235.198A
Total Depth: 10'
Method Used: Geoprobe
Inspector: Robert Murphy
Organic Vapor Inst: MiniRAE 3000
Water elv: Unknown

Depth (feet)	Sample No.	Blows/6" 140 lbs.	Sample Inter.	Adv/Rec (feet)	Org. Vap (ppm)	Sample Description	Unified Class.	Permeability
	1	Push	0-5'		0.0 0.0 0.0	0-6" asphalt **Sample 1'-2' Lab** 2'-4' brown silt/clay	ML/CL	
5	2	Push	5'-10'		0.0 0.0	6'-10' light brown tight clay little gravel (5%) **Sample 6'-8' Lab** **Boring ended 10 ft.**	CL	
10								

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APPENDIX D

DATA USABILITY SUMMARY REPORTS

Data Usability Summary Report
December 2019 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on December 4 and 5, 2019. A total of 28 samples were collected, including Quality Control sample, during the December 2019 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatile Organic Compounds ("VOCs")	USEPA Method 8260
Semi-Volatile Organics ("SVOCs")	USEPA Method 8270D
PFAS (Per- and Polyfluoroalkyl Substances)	USEPA Method 573
Pesticides/Herbicides	USEPA Method 8081/8151A
Polychlorinated Compounds	USEPA Method 8082A
Metals	USEPA Method 3050B/6010D
Mercury	USEPA Method 7471B
Cyanide	USEPA Method 9012B
Total Solids	USEPA Method 1684

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R1911944 R1911945 R1911946	12/4/2019 12/5/2019	12/5/2019	Soil (23 Samples)	VOCs 8260 SVOCs 8270 PFAS Pesticides/Herbicides PCBs Metals Mercury Cyanide Total Solids	Coolers: A – 3.1°C B – 3.0°C C – 19.9°C D – 19.1°C E – 4.6°C F – 2.8°C G – 5.8°C
R1911944	12/5/2019	12/11/2019 ALS Kelso	Soil (3 Samples)	PFAS	Coolers: 0.1°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

The following sample results are acceptable but confirmatory sampling was out of range. The lower results were reported:

SDG R1911945 and R1911946

- SB-3 (4-6 feet): beta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).
- SB-7 (4-5 feet): Endrin and heptachlor is qualified with a P (Concentration >40% difference between the two GC columns).
- SB-7 (6-8 feet): delta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R1911944, 1911945, and 1911946, associated with the 23 soil samples collected on December 4 and 5, 2019 is detailed below:

1. SB-1: 1-2 feet
2. SB-2: 1-2 feet; 4-6 feet; 10-17 feet; and 17-18 feet
3. SB-3: 1-2 feet; 4-6 feet; 10-17 feet
4. SB-8: 1-2 feet; 6-8 feet
5. SB-9: 2-4 feet; 11-13 feet
6. SB-10: 2-4 feet; 12-14 feet
7. SB-11: 1-2 feet; 6-8 feet (duplicate, matrix spike, and matrix spike duplicate)
8. SS-1
9. SS-2
10. SS-3
11. SS-4

Sample SB-11 (6-8 feet) was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There were no discrepancies on the COC.

PRESERVATION AND TECHNICAL HOLDING TIMES

Two (2) of the cooler temperatures were 19.9°C and 19.1°C, above the 6.0°C limit; however, the samples were delivered the same day as the sample collection. This is considered the "Same Day Rule" and does not adversely impact the sampling results.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the soil samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the soil samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was included with the shipment of the soil samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on December 5, 2019 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on December 4 and 5, 2019. Acetone was detected in the Method Blank and attributed to the preservative in the vial.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the soil samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates with the exception of the following sample.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

March 30, 2020

.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample Data Group (SDG)	**R1911944, R1911945, and R1911946**				
Matrix	**Soil**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Holding Times	Samples were extracted and analyzed within USEPA holding times				
Sample Preservation	The samples were collected and preserved in accordance with laboratory protocols.				
Calibration	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.		In the calibrations, all criteria were within method requirements.	The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.	In the calibrations, all criteria were within method requirements.
Method Blanks	Acetone was detected and determined to be cause by the preservative in the sample vial. All other data quality objectives were satisfied.	All data quality objectives were satisfied.			
Detection Limits	No issues identified.				No issues identified.
Matrix Spike/Matrix Spike Duplicate	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample Data Group (SDG)	**R1911944, R1911945, and R1911946**				
Matrix	**Soil**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Surrogates	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	R1911946-008 (SS-1), -010 (SS-3), -011 (SS-4): The control limits were exceeded for one or more surrogates due to matrix interferences. Due to the presence of non-target background components that prevented adequate resolution of the surrogate, accurate quantitation was not possible. All other data quality objectives were satisfied.	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.	All data quality objectives were satisfied.
Laboratory Control Sample	All laboratory internal quality control samples were within acceptable ranges.		The RPD for SB4 (1-2 feet) was exceeded from a serial dilution due to a matrix interference. All other data quality objectives were satisfied.	All laboratory internal quality control samples were within acceptable ranges.	
Data Usability	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.	Data is acceptable for use.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample ID	**R1911944**	
Matrix	**Soils**	
Analysis	**SVOCs (1,4-Dioxane)**	**PFAS**
Holding Times	Samples were extracted and analyzed within USEPA holding times.	
Calibration	In the initial and continuing calibrations were within method requirements. All quality assurance parameters were met for this analysis.	The Upper Control Limit (UCL) for PFOS in the CCV was exceeded for two (2) samples. The field samples did not contain the analyte in question. Data quality was not affected. All quality assurance parameters were met for these analyses.
Detection Limits	No issues identified.	
Method Blanks	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Matrix Spike/Matrix Spike Duplicate	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for this analysis

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Sample ID	**R1911944**	
Matrix	**Soils**	
Analysis	**SVOCs (1,4-Dioxane)**	**PFAS**
Surrogates	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Internal Standards	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Reference Sample	All quality assurance parameters were met for this analysis.	All quality assurance parameters were met for these analyses.
Data Usability	Data is acceptable for use.	Data is acceptable for use.

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

December 4 and 5, 2019 Sampling Event

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected on the Site on January 27 and 28, 2020. A total of nine (9) water samples were collected, including Quality Control sample, during the January 2020 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatile Organic Compounds ("VOCs")	USEPA Method 8260
Semi-Volatile Organics ("SVOCs")	USEPA Method 8270D
PFAS (Per- and Polyfluoroalkyl Substances)	USEPA Method 573
Pesticides/Herbicides	USEPA Method 8081/8151A
Polychlorinated Compounds	USEPA Method 8082A
Metals	USEPA Method 3050B/6010D
Mercury	USEPA Method 7471B
Cyanide	USEPA Method 9012B
Total Solids	USEPA Method 1684

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2000775	1/27/2020 1/28/2020	1/28/2020	Groundwater (9 Samples)	VOCs 8260 SVOCs 8270 PFAS Pesticides/Herbicides PCBs Metals Mercury Cyanide Total Solids	Coolers: A – 3.4°C B – 1.8°C C – 1.9°C D – 0.9°C E – 1.5°C F – 0.8°C G – 1.3°C H – 0.4°C I – 0.9°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

The following sample results are acceptable but confirmatory sampling was out of range. The lower results were reported:

- MW-4 4'4'-DDT and beta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).
- MW-4 FP: delta-BHC is qualified with a P (Concentration >40% difference between the two GC columns).

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R2000775, associated with the nine (9) groundwater samples collected on January 27 and 28, 2020 is detailed below:

1. MW-4
2. MW-4 FP
3. MW-1
4. MW-2
5. MW-2 Duplicate
6. MW-3
7. MW-5
8. Equipment Blank
9. Field Blank

Sample MW-2 was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. There were no discrepancies on the COC.

PRESERVATION AND TECHNICAL HOLDING TIMES

The laboratory noted that one (1) VOA vial of MW-1, MW-2, MW-3, and the Trip Blank contained air bubbles. The laboratory also noted that two (2) VOA vials of MW-4 contained air bubbles. The additional vials of each sample did not contain air bubbles and were used for the analytical testing.

The cooler temperatures were below the 6.0°C limit.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the groundwater samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the groundwater samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each sampling event to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was included with the shipment of the groundwater samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on January 27, 2020 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on January 27 and 28, 2020 There were no VOCs detected in the Method Blank.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the groundwater samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates with the exception of the following sample.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 8, 2020

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Data Validation Compliance Chart
Bisonite
Tonawanda, New York

January 27 and 28, 2020 Sampling Event

<table>
<tr><th>Sample Data Group (SDG)</th><th colspan="5">R2000775</th></tr>
<tr><th>Matrix</th><th colspan="5">Groundwater</th></tr>
<tr><th>Analysis</th><th>VOCs 8260</th><th>SVOCs 8270</th><th>Metals
Mercury</th><th>Herbicides/Pesticides/
PCBs</th><th>Cyanide</th></tr>
<tr><td>Holding Times</td><td colspan="5">Samples were extracted and analyzed within USEPA holding times</td></tr>
<tr><td>Sample Preservation</td><td colspan="5">The samples were collected and preserved in accordance with laboratory protocols.</td></tr>
<tr><td>Calibration</td><td>The lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.</td><td>The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.</td><td>In the calibrations, all criteria were within method requirements.</td><td>The upper and lower control limits were exceeded for one or more analytes in the CCV. There were no detections in the field samples above the MRL. The data was not significantly affected.</td><td>In the calibrations, all criteria were within method requirements.</td></tr>
<tr><td>Method Blanks</td><td colspan="5">All data quality objectives were satisfied.</td></tr>
<tr><td>Detection Limits</td><td colspan="2">No issues identified.</td><td>Samples MW-4 and MW-4 FP had elevated MRL for Selenium and were diluted. The reporting limits for the other metals were adjusted.</td><td colspan="2">No issues identified.</td></tr>
<tr><td>Matrix Spike/Matrix Spike Duplicate</td><td colspan="5">All data quality objectives were satisfied.</td></tr>
</table>

Data Validation Compliance Chart
Bisonite
Tonawanda, New York

January 27 and 28, 2020 Sampling Event

Sample Data Group (SDG)	**R2000775**				
Matrix	**Groundwater**				
Analysis	**VOCs 8260**	**SVOCs 8270**	**Metals Mercury**	**Herbicides/Pesticides/ PCBs**	**Cyanide**
Surrogates	All data quality objectives were satisfied.				
Internal Standards	All data quality objectives were satisfied.				
Laboratory Control Sample	All laboratory internal quality control samples were within acceptable ranges.				

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
MEHC Project No. 14-223

EXECUTIVE SUMMARY

This Data Usability Summary Report is for the Indoor Air Sampling Event at the Bisonite Site ("Site"). The sampling event was conducted by Leader Professional Services, Inc. ("LPSI") on January 13, 2020 which included indoor and outdoor air sampling using stainless steel canisters.

The review of the data was evaluated for the following levels of uncertainty:

- **Critical** – Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.
- **Major** – A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data have been qualified "J" estimated.
- **Minor** – The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings: None
Major Findings: None
Minor Findings: None

The data meets all quality control and quality assurance objectives.

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by LPSI. The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the Interim Remedial Measures and indoor air sampling at the Site. The Indoor Air Sampling was conducted by LPSI and submitted for analysis to Pace Analytical ("Pace") by USEPA Method TO-15.

SAMPLE SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by Pace, pertaining to samples collected for the Site Investigation on January 13, 2020. A total of five (5) air samples were collected during the January 2020 sampling event and analyzed for Volatile Organic Compounds ("VOCs") including quality control samples.

The following USEPA Methodologies were used to analyze these samples for the following analytes:

Volatiles (VOCs)	USEPA Method TO-15
Sample Delivery Group (SDG) No.	L1180201

Trip blanks, surrogates, internal standards, laboratory control samples, laboratory matrix spikes, and duplicates were included and processed.

Samples were collected and received on the following schedule:

Sample Package ID	Date Collected	Date Received by Pace	Sample Matrix	Requested Analyses	Sample (Post) Vacuum (in Hg)
L1180201	1/13/2020	1/16/2020	Air	USEPA TO-15	Not Identified

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Laboratory Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All of the reviewed data was found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data and generated in compliance with protocol requirements.

In summary, sample processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered “usable”.

The Data Validation Compliance Chart is included with this report.

SAMPLING INFORMATION AND SAMPLE CUSTODY DOCUMENTATION

Chain of Custody (“COC”) forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The complete list of sample information was provided:

a. Sample Locations: Bisonite Site
b. Sample Matrix: Air
c. Trip Blanks: No Trip Blank
d. Field Duplicate: Sample SV-1

e. QC Audit Samples: Laboratory Control Samples with Duplicate and Matrix Spikes
f. Sampling Date: January 13, 2020
g. Shipping Date: January 15, 2020
h. Laboratory: Pace Analytical
i. Initial/Final Canister Pressure: Not Identified
j. Initial/Final Canister Temperature: In Compliance

The Chain of Custody ("COC") accurately documents the sample collection. However, Sample SV-2 was listed on the COC but not checked for analysis. This sample was pulled from the Sample Data Group.

Accuracy, Precision, and Sensitivity of Analyses

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy is assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Indoor Air Sampling are considered "usable".

Completeness, Representativeness, and Comparability of Data

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by Pace indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the indoor air samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. A

Field Duplicate was collected.

All of the indoor air samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

Quality Control Checks

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for VOCs. Analysis of trip blanks determines whether sample canister was contaminated during shipment from the laboratory, while in storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of clean canister prepared by the analytical laboratory prior to transportation the sample canisters.

A Trip blank was not included with the shipment of the air samples. However, a canister certification evaluation was completed on Pace pre-cleaned containers. There were no detectable levels of VOCs in these sampled containers.

Field (Equipment) Blanks

Given that dedicated sampling pre-cleaned stainless steel air sampling equipment was utilized for the collection of each sample, a field (equipment) blank not collected.

Method Blanks

A method blank is a sample of air, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background contamination.

For this investigation, a laboratory method blank was analyzed alongside the air samples collected on January 13, 2020. Methyl Ethyl Ketone (MEK) was found below the Method Reporting Limit; no other VOC compounds were detected in the method blank analyzed during this investigation.

Canister Suitability

Canisters used for the sampling of ambient air must be demonstrated clean and leak free prior to sample collection. This cleanliness is demonstrated by analysis of an individual canister or analysis of a representative canister, if only batch cleaning was required. Leak proof testing is performed on individual canisters. Canisters are used in conjunction with gauges, valves and flow controllers. Therefore, the canister should be demonstrated clean and leak free inclusive of these components.

Leak Proof Test: Canister are tested by their ability to hold vacuum/pressure within +/-2 psi for a period of 24 hours preceding sampling.

Cleanliness: Integrity of the canister used for sampling of air for analysis should be maintained at all times including the time of shipment to the field, sampling, shipment back to the laboratory and time of analysis. Analytical results of the canister cleanliness verification are taken into account in the validation of sample results.

Matrix Spike/Matrix Spike Duplicate Samples

For this project, there was MS/MSD analysis performed.

The results were within the control limits.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits for the surrogates.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and laboratory control sample, with the exceptions (if any) noted in the above narrative.

PREPARED BY: ME Holvey, Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 2, 2020

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

<table>
<tr><th>Sample ID</th><th colspan="3">L1180201</th></tr>
<tr><th>Matrix</th><th colspan="3">Air</th></tr>
<tr><td>Analysis</td><td colspan="3">USEPA TO-15 – Whole Air Samples</td></tr>
<tr><td>Holding Times</td><td colspan="3">Samples were analyzed within USEPA holding times.</td></tr>
<tr><td rowspan="2">Field Parameters</td><td>Sample ID</td><td>Vacuum Initial (in Hg)</td><td>Vacuum Final (in Hg)</td></tr>
<tr><td>L1180201</td><td>Not Identified</td><td>Not Identified</td></tr>
<tr><td>Calibration</td><td colspan="3">In the continuing calibration for all compounds are within of method control limits.

All data quality objectives were satisfied.</td></tr>
<tr><td>Method Blanks</td><td colspan="3">All quality assurance parameters were met for these analyses.</td></tr>
<tr><td>Canister Leak Check</td><td colspan="3">The canisters passed the leak check. All quality assurance parameters were met.</td></tr>
<tr><td>Canister Cleanliness</td><td colspan="3">No detectable compounds found in the Canister Certification Evaluation. All quality assurance parameters were met for these analyses.</td></tr>
<tr><td>Matrix Spike/Matrix Spike Duplicate</td><td colspan="3">Matrix spike recovery and/or matrix spike duplicate recovery were within control limits.</td></tr>
</table>

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

Sample ID	**L1180201**
Matrix	**Air**
Analysis	**USEPA TO-15 – Whole Air Samples**
Surrogates	All data quality objectives were satisfied.
Internal Standards	All data quality objectives were satisfied.
Laboratory Control Samples	All laboratory internal quality control samples were within acceptable ranges.
Data Usability	Data is acceptable.

Data Validation Compliance Chart
Bisonite Site

January 13, 2020 Sampling Event

Data Usability Summary Report
January 2020 Sampling Event
Bisonite Site
Tonawanda, New York
MEHC Project No. 14-223

DATA USABILITY

The Quality Assurance Project Plan ("QAPP") was prepared for this project by Leader Professional Services, Inc. ("LPSI"). The QAPP presents the policies, organization, objectives, functional activities, and specific Quality Assurance ("QA") and Quality Control ("QC") measures designed to achieve the data quality goals associated with this investigation. The QAPP identifies procedures for sample preparation and handling, sample chain-of-custody, laboratory analyses, and reporting that were implemented during this investigation to ensure the accuracy and integrity of the data generated during the investigation.

LPSI conducted the sampling event as part of the Remedial Investigation and Supplemental Investigation activities of the Bisonite Property ("Site") in Tonawanda, New York.

DATA SUMMARY

The Data Usability Review and Data Validation Compliance Chart has been completed for the laboratory deliverable packages generated by ALS Laboratories ("ALS"), pertaining to samples collected at the Site on January 27, 2020. A total of five (5) water samples were collected, including Quality Control samples, during the January 2020 sampling event as part of 6 NYCRR Part 375, Environmental Remediation Programs. The following USEPA Methodologies were used to analyze these samples for the following analytes:

PFAS (Per- and Polyfluoroalkyl Substances)   USEPA Method 573M

Trip blank, field duplicate, surrogates, internal standards, reference samples, field (equipment) blank, matrix spikes, and matrix spike duplicates were included in the sample set and processed.

Samples were collected and received on the following schedule:

Sample Data Group ("SDG")	Date Collected	Date Received by ALS	Sample Matrix	Requested Analyses	Sample Temperature (°C)
R2000776	1/27/2020	1/28/2020	Water	PFAS	A – 3.4°C B – 1.8°C C – 1.4°C D – 5.3°C E – 0.9°C F – 1.5°C G – 2.8°C H – 1.3°C J – 0.4°C K – 0.9°C
R2000776	1/27/2020	1/31/2020 ALS Kelso	Water	PFAS	Cooler: 0.3°C

Data usability and validation was performed with guidance from the most current editions of the USEPA CLP National Functional Guidelines for Inorganic and Organic Data Review. The following items were reviewed:

- Data Completeness;
- Custody Documentation;
- Holding Times;
- Sample Blanks Review;
- Field Duplicate Samples;
- Matrix Spike Samples and Duplicates; and
- Control Spike/Laboratory Control Samples.

Those items showing deficiencies, if any, are discussed in the attached Data Validation Compliance Chart. All others were found to be acceptable as outlined in the above-mentioned usability procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the reported data, and generated in compliance with protocol requirements.

In summary, sample preservation, handling, and processing was conducted with compliance to protocol requirements and with adherence to quality criteria and the reported results are considered "usable".

The Data Validation Compliance Chart is included with this report.

CUSTODY DOCUMENTATION

Chain of Custody ("COC") forms are used to document the history of sample possession from the time the sample containers leave their point of origin (usually the laboratory performing the analyses) to the time the samples are received by the laboratory. COCs are considered legal documents.

The laboratory report, R2000776, associated with the three (3) groundwater samples plus collected on January 27, 2020 is detailed below:

1. MW-3
2. MW-2
3. MW-2 Duplicate
4. Field Blank
5. Equipment Blank

Sample MW-2 was collected in duplicate as well as the Matrix Spike (MS) and Matrix Spike Duplicate (MSD).

The Chain of Custody ("COC") documents the sample collection efforts. The Equipment Blanks were not listed on the COC. The samples were added by the ALS after confirmation with LPSI.

PRESERVATION AND TECHNICAL HOLDING TIMES

The laboratory noted that one (1) VOA vial, MW-2, contained air bubbles. The second vial collected from MW-2 did not contain air bubbles and were used for the analytical testing.

The cooler temperatures were below the 6.0°C limit.

All sample holding times were met.

ACCURACY, PRECISION, AND SENSITIVITY OF ANALYSES

The fundamental QA objective with respect to the accuracy, precision, and sensitivity of analytical data is to achieve the QC acceptance of each analytical protocol. Accuracy and precision are determined using matrix spike ("MS") and matrix spike duplicate ("MSD") samples.

Accuracy is a measure of the difference of a set of analytical results to the accepted or expected values. Accuracy was assessed by using the MS/MSD and surrogate spike recovery data.

Recovery values were reported within the QC limits for each analytical parameter group.

Precision is a measure of the mutual agreement between measurements of the same parameter.

The sample results for the Site are considered "usable".

COMPLETENESS, REPRESENTATIVENESS, AND COMPARABILITY OF DATA

Completeness is the measure of the amount of valid data obtained from a measurement system compared with the amount expected to be obtained under normal conditions. Review of the analytical data packages provided by ALS indicates that the requested parameters were analyzed for and reported by the laboratory for each sample submitted under proper chain-of-custody procedures. Based upon MEHC's review of the laboratory data, a usable data level was achieved.

Representativeness of the data is obtained through the design of the sampling program and the adherence to established sample collection procedures, sample-handling SOPs, and analytical procedures. The sampling program outlined in the Work Plan was designed to provide for data representative of site conditions taking into consideration past disposal practices, existing data from past studies, and the physical site setting. Collection of the groundwater samples were conducted in accordance with established industry and regulatory protocols.

The laboratory maintained all holding times for the specific analytical protocols.

Comparability of the data is derived from the evaluation of field duplicate samples and the adherence to established sampling and analytical procedures. A field duplicate is an independent sample collected as close as possible to the original location from the same sampling point. All of the groundwater samples were analyzed utilizing standardized USEPA methodologies performed in accordance with the latest version of the NYSDEC ASP protocols.

QUALITY CONTROL CHECKS

Trip Blanks

A trip blank is provided with each shipping container of samples to be analyzed for volatile organic compounds (VOCs). Analysis of trip blanks determines whether a sample bottle was contaminated during shipment from the manufacturer, while in bottle storage, in shipment to the laboratory, or during analysis at a laboratory. Trip blanks consist of an aliquot of distilled water sealed in a sample bottle, prepared by the analytical laboratory prior to shipping the sample bottles.

A Trip blank was not included with the shipment of the groundwater samples.

Field (Equipment) Blanks

A field (equipment) blank was collected on January 27, 2020 as part of this project.

Method Blanks

A method blank is a sample of reagent water, which is carried through the analytical procedure alongside the project samples to determine the level of laboratory background and reagent contamination.

For this investigation, a method blank was analyzed alongside the water samples collected on January 27, 2020. There were no PFASs found in the Method Blank.

Matrix Spike/Matrix Spike Duplicate Samples

For the Site, one (1) MS/MSD was collected and analyzed for the groundwater samples. The sample results are considered acceptable and were within the control limits.

These results are detailed in the Data Validation Compliance Chart.

Surrogate Analyses

Surrogates are compounds added directly to every standard, blank, MS/MSD, and sample at a known concentration, prior to extraction or analysis; and used to evaluate the analytical efficiency by measuring percent recovery of those compounds upon analysis. The laboratory reported surrogate recoveries were within established QC limits or noted Data Validation Chart.

OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the surrogate, laboratory control sample/laboratory control samples (LCS), and MS/MSD, % Recovery values, with the exceptions noted in the above narrative.

The sample results for the Site, as qualified, are considered acceptable for use.

PREPARED BY: ME Holvey, Consulting, LLC

ME Holvey

Mary Ellen Holvey, CIH
Senior Industrial Hygienist

April 2, 2020

Data Validation Compliance Chart
Bisonite Site

January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Holding Times	Samples were extracted and analyzed within USEPA holding times.
Sample Preservation	The samples were collected and preserved in accordance with laboratory protocols.
Calibration	In the initial and continuing calibrations were within method requirements. All quality assurance parameters were met for these analyses.
Detection Limits	No issues identified.
Method Blanks	All quality assurance parameters were met for these analyses.

Data Validation Compliance Chart
Bisonite Site

January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Matrix Spike/Matrix Spike Duplicate	All quality assurance parameters were met for these analyses.
Surrogates	MW-3: One or more surrogate recoveries were significantly low (less than 10%) in sample MW3 due to matrix interferences. The samples contained significant amounts of solids that interfered with the efficiency of the extraction. A reanalysis of the sample was performed but produced similar results. The low recoveries for the labeled analogs suggested increased variability for the quantitation of the associated native compounds in this matrix. The analyte results in question were flagged with an "X" qualifier to indicate the issue. No further corrective action was required. MW-3 The upper control criterion was exceeded for one or more surrogates. The associated native analytes were not detected above the Method Reporting Limit (MRL) in this sample. The error associated with an elevated recovery equated to a high bias. A re-analysis of the sample was performed but produced similar results. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate. All other quality assurance parameters were met for these analyses.
Internal Standards	All quality assurance parameters were met for these analyses.

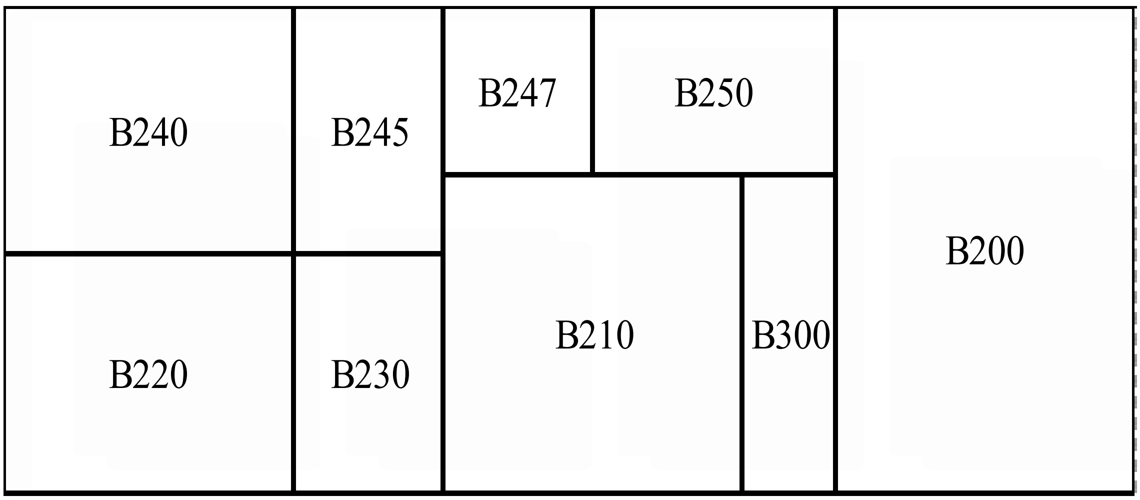
January 27, 2020 Sampling Event

Sample ID	**R2000776**
Matrix	**Groundwater**
Analysis	**PFAS**
Laboratory Control Sample	MW-3: The lower control criterion was exceeded for 13C4-PFHpA due to matrix interferences. Due to the presence of non-target background components that affected resolution of the surrogate, accurate quantitation was not optimal. Assuming the associated native analyte (Perfluoroheptanoic acid (PFHpA)) performed similar to the labeled analog, the effect on the reported results was minimal. A re-analysis of the sample was performed but produced similar results. The results from the original analysis were reported. No further corrective action was appropriate. All other quality assurance parameters were met for these analyses.
Data Usability	Data is acceptable for use.

APPENDIX E

ON-SITE BUILDING INTERIOR LAYOUT AND CURRENT TENANT LIST

Appendix E
2250 Military Road Interior Layout and Tenant List



Tenants

B220 Kelly Suckow building catamaran – rented through 6/30/2024
B240 Elmwood Co. Furniture Refurbishing – Notice given moveout by 3/31/2023
B245 Peggy Burke – Joseph Todaro – Estate Sale company storage
B230 Crist Construction – Storage
B237 Buffalo All Services – Moving company storage
B250 Insight Floor
B210 Toronto Press – warehouse
BB300 Shared loading dock for Insight Flooring and Roeonto Press

Title: On-Site Building Interior Layout and Tenant Listing
2266 and 2268 Military Road
Tonawanda, New York

Prepared For: ACM Northfield CR3, LLC
3144 South Winton Road
Rochester, New York

Leader

Leader Professional Services, Inc
271 Marsh Road-Suite 2
Pittsford, New York 14534
(585) 248-2413
Fax (585) 248-2834

APPENDIX F

FIELD NOTES – JANUARY 2020 GROUNDWATER SAMPLING

Bisonite

1-27-20 Snow 32°

Arrive @ 8:00

Rm taking water level

~~MW~~ 4 Unknown product level
≤ 21"

MW1 Pump dry start @ 9:30

T 5.7°C

Do 7.8 mg/L

Spc. 1.09 mS/s

pH 7.3

ORP 218.9

NTU 10.8

MW 3	1045	1050
T	4.6C	4.7°
Do	4.4	2.6
Spc mS	0.47	0.56
pH	8.9	8.5
ORP	111.5	-87.5
NTU	102.8	59

MW 3

	1110	1115	1120
T	4.9C	5°	5
DO	1.47	1.27	1.2
SpC	0.65	0.73	.74
pH	9.0	8.8	8.8
ORP	-30.5	-32.0	-51
NTU	47	47	50

MW4

Geophy cood 50 E
20 S

1235 MW 5		1245		1250
T	6.3		7.0	5.3
Do	5.12		4.5	4.4
pH	7.5		7.3	7.29
SpC mS/cm		1.3	1.3	1.4
ORP	141		165.6	177.6
NTU	6.1		1.0	0

1300

T 5.6C

DO 4.4

Spc 1.39

pH 7.2

ORP 182.6

NTU 0

1-28-20

820 Onsite

@ well MW 5

Cold 30° Cloudy snow light

835 MW5 completed

8:40 MW1 only 6" water from over night

called DEC regarding MW1 and they are OK with stopping the sampling w/ VOC, PCB, Mt