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August 19, 2019

Program Assistant
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 North Dr. Luther Martin King Jr Drive
Milwaukee, Wisconsin 53212

Reference: Site Investigation Report & Remedial Action Plan

1681-1683 N Van Buren Property

Milwaukee, Wisconsin FID No. 341143220

BRRTS No. 02-41-562442

KEY ENGINEERING GROUP, LTD. File No. 1604-1011-0002

# Dear Program Assistant:

On behalf of Endeavour Corp Inc., please find enclosed the *Site Investigation Report and Remedial Action Plan* (SIR and RAP) for the property located at 1681 North Van Buren Street, in Milwaukee, Wisconsin.

Sincerely,

KEY ENGINEERING GROUP, LTD.

Toni L. Schoen

Senior Project Manager

D'Arcy J. Gravelle, PG, CPG

Principal Hydrogeologist

Enclosure: Site Investigation Report/Remedial Action Plan



# SITE INVESTIGATION REPORT & REMEDIAL ACTION PLAN

1681-1683 N Van Buren Property Milwaukee, Wisconsin FID No. 341143220 BRRTS No. 02-41-562442

August 19, 2019

#### PREPARED FOR

Endeavour Corp Inc.
330 East Kilbourn Avenue, Suite 1160
Milwaukee, Wisconsin 53202

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Principal Hydrogeologist

# NR 700 SUBMITTAL CERTIFICATIONS

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

D'Arcy J. Gravelle, PG, CPG

D'ARCY J.

GRAVELLE
PG-1217-013
WEST BEND.
WI

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

Kurt McClung, PE

Date

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# **ACRONYMS**

bgs Below Ground Surface

BRRTS Bureau of Remediation and Redevelopment Tracking System

cis-1,2-DCE cis-1,2-Dichloroethene ES Enforcement Standard

ERP Environmental Repair Program KEY Key Engineering Group, Ltd.

LUST Leaking Underground Storage Tank

mg/kg Milligrams Per Kilogram

PAH Polycyclic Aromatic Hydrocarbon

PAL Preventive Action Limit

PCE Tetrachloroethene

PID Photoionization Detector RAP Remedial Action Plan

RCL Residual Contaminant Level

TCE Trichloroethene

μg/l Micrograms Per Liter

μg/m³
 Wicrograms Per Cubic Meter
 USGS
 United States Geological Survey
 UST
 Underground Storage Tank
 VOC
 Volatile Organic Compounds
 Wis. Admin. Code
 Wisconsin Administrative Code

WDNR Wisconsin Department of Natural Resources

# 1.0 Introduction

Key Engineering Group, Ltd (KEY) completed a site investigation and developed a remedial action plan (RAP) for the property located at 1681 North Van Buren Street, in the City Milwaukee, Milwaukee County, Wisconsin (Site) as related to chlorinated volatile organic compounds (VOCs).

On August 11, 2014, the Wisconsin Department of Natural Resources (WDNR) reported a release on behalf of the property owner for chlorinated VOCs detected in soil at the Site based on information provided in a *Supplemental Information & Proposed Work Plan for Additional Site Investigation* for Comedy Club, the contaminated neighboring property located at 615 East Brady Street. This report stated that the Site was previously operated a dry-cleaning business from 1963 to 1966. Soil samples collected between 2005 to 2006 during the investigation of petroleum contamination (leaking underground storage tank (LUST) case BRRTS No. 03-41-548862) identified solvent contamination. "The solvent contamination appears to be from a source originating on your property which is distinct from the chlorinated solvents identified on the Comedy Club site. The leaking underground storage tank case at this site (BRRTS No. 03-41-548862) which was closed on January 31, 2008 did not address the non-petroleum contamination." BRRTS No. 02-41-562442 was assigned as an Environmental Repair Program case to manage the chlorinated VOC impacts.

The LUST case file is not available from the WDNR. The boring and well sample location maps and soil and groundwater tables from the LUST case were saved in KEY's electronic files. This report presents a detailed summary of available site history, a description of investigation activities completed during the investigation of the LUST case (2005 through 2008) and the more recent investigation activities completed between 2014 and 2019, a summary of findings, observations, and analytical results as related to the chlorinated VOCs, and a remedial strategy to address the residual chlorinated VOC impacts.

# 2.0 BACKGROUND

#### 2.1 Site Location and Contacts

The Site is comprised of one parcel of land located at 1681 North Van Buren Street, in the City of Milwaukee, Milwaukee County, Wisconsin with parcel number is 3600006100. Site is located at 43°05'27.02" North latitude, 87°90'36.69" West longitude. Wisconsin Traverse Mercator (WTM91) coordinates are x 690725, y 288800. The Site is located in the northwest quarter, southwest quarter of Section 21, Township 7 North, Range 22 East. The Site location is presented on Figure 1 (USGS, 1971). A copy of the deed is included in Appendix 1.

The following contact information is provided for the Site and environmental consultant:

**Responsible Party (RP):** Mr. Randy Roth, Agent

Endeavour Corp Inc.

330 East Kilbourn Avenue, Suite 1160

Milwaukee, Wisconsin 53202

**Site Owner:** Mr. Randy Roth, Agent

TR Partners LLC

330 East Kilbourn Avenue, Suite 1160

Milwaukee, Wisconsin 53202

**Environmental Consultant:** Kenneth W. Wein, CHMM

Key Engineering Group Ltd. 735 North Water Street, Suite 510 Milwaukee, Wisconsin 53202

**Driller:** Horizon Construction and Exploration

766 Tower Drive

Fredonia, Wisconsin 53021

**Laboratories:** Pace Analytical Services, Inc.

1241 Bellevue Street, Suite 9 (soil and groundwater)

Green Bay, Wisconsin 54302

1700 Elm Street, Suite 200 (vapor and air)

Minneapolis, Minnesota 55414

Eurofins TestAmerica 2417 Bond Street

University Park, Illinois 60484

# 2.1 Site Description

The Site consists of a rectangular shaped parcel of land located in a commercial and residential area on the southwest corner of North Van Buren and East Brady Street. The Site is approximately 0.43 acres in an area zoned as LB-2 Commercial local business. The building is currently operated by two tenants, including Polished Nail Bar and DigiCOPY. Polished Nail Bar is a nail salon and DigiCOPY offers printing and copying services. A copy of the deed is presented in Appendix 1.

The Site is developed with an approximately 5,395 square building located on the east side of the property. The building is slab on grade construction. A site layout map is presented as Figure 2.

The site is accessible from North Van Buren Street and East Brady Street. An asphalt parking lot exists on the east and north sides of the building. A grass area exists at the southeast corner of the Site. The Site is serviced with municipal water and sewer, and natural gas and electricity by WE Energies.

The Site is located in an area of commercial and residential land-use activity. Surrounding land-use is described as follows:

North: East Brady Street and a City of Milwaukee park.

South: Residential properties

East: North Van Buren Street

Residential properties

Libby's Fine Food/Good Spirits – bar and restaurant

Angelo's Piano Lounge - bar

Hybrid - bar

West: Residential properties

Up Down – bar and restaurant

# 2.2 Site History

KEY reviewed historical aerial photographs, Sanborn maps, and City of Milwaukee records to determine the past land use. The 1910 Sanborn map shows several residential houses, a stable, and two stores were presented onsite. The 1951 Sanborn maps shows the 1910 residences and stores have been razed and replaced with a gasoline station with three gasoline underground storage tanks (USTs), two residences, a store, and two apartment buildings. The same configuration of buildings is presented in the 1937 aerial photograph. A dry cleaner was reported present onsite between 1963 to 1966. The 1967 aerial photograph and 1968 Sanborn maps show a filling station. The filling station is not present on the 1963 aerial photograph. In September 1978, the property was purchased by Giovanni Safina, who operated a restaurant called "Giovanni's." The property was sold to RR 101, LLC in October 2012 and sold to TR Partners LLC in April 2015.

# 2.3 Site Regulatory History

On March 27, 2007, the WDNR was notified of a petroleum release at 1683 North Van Buren Street. Bureau of Remediation and Redevelopment Tracking System (BRRTS) number 03-41-548862 was assigned to this LUST case. An investigation was completed between 2005 and 2008. The case was closed on January 31, 2008 with continuing obligations including maintenance of a barrier cap due to the presence of residual soil contamination and a NR140 preventive action limit (PAL) exemption for benzo(b)fluoranthene was granted. The building was identified as a structural impediment. The Geographic Information System (GIS) Registry with continuing obligations is included in Appendix 2.

On August 11, 2014, the WDNR reported a release on behalf of the property owner for chlorinated VOCs detected in soil at the Site based on information provided in a *Supplemental Information & Proposed Work Plan for Additional Site Investigation* for Comedy Club, the contaminated neighboring property located at 615 East Brady Street. This report stated that the Site was previously operated a dry-cleaning business from 1963-66. Soil samples collected between 2005 to 2006 during the investigation of petroleum contamination (BRRTS No. 03-41-548862) also identified solvent contamination. "The solvent contamination appears to be from a source originating on your property which is distinct from the chlorinated solvents identified on the Comedy Club site. The leaking underground storage tank case at this site (BRRTS#03-41-548862) which was closed on January 31, 2008 did not address the non-petroleum contamination." BRRTS No. 02-41-562442 was assigned as an Environmental Repair Program case to manage the chlorinated VOC impacts.

# 3.0 SITE INVESTIGATION ACTIVITIES

Investigation activities were completed between November 2005 through July 2019 to complete the investigation phase. The objective of the investigation activities was to determine the extent and degree of soil, groundwater, and vapor impacts. Sample locations are presented on Figure 2. Investigation activities included the following:

- Advanced 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32).
- Collected and analyzed 72 VOC soil samples.
- Collected and analyzed three groundwater samples for VOCs from TW-1 and MW-1.
- Collected and analyzed seven sub-slab vapor points (VS-1 through VS-3 and VP-1 through VP-4) and two indoor air samples (AS-1 and IA-1) for VOCs.

Below is a summary of the investigation activity procedures.

## 3.1 Soil Boring Drilling and Soil Sample Collection

Forty-three (43) direct-push soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32) were advanced using a Geoprobe Large Bore Soil Sampler. Soil samples were collected by driving a steel sampling rod (sampler) with acetate liners to the desired sampling depth using the hydraulic ram and hammer on the Geoprobe rig. Once the sampler reaches the desired depth, the sampler was opened by removing a stop pin in the sampler. The sampler was driven an additional 4 to 5 feet to push a soil sample into the sampler, preserving the sample in a 1-inch by 4 or 5-foot acetate liner inside the sampler. The acetate sleeves will allow continuous collection of soil samples from each boring.

Soil samples were field screened for the presence of total ionizable VOC vapors using a calibrated photoionization detector (PID). The screening samples were warmed and the headspace PID reading of the soil was taken by inserting the probe end of the PID into the plastic bag through the seal.

After field screening, selected retained soil samples were submitted to a WDNR certified laboratory for analysis. Soil samples were selected based on soil screening data, presence of fill material or native soil, olfactory evidence, staining, or a depth above the soil/water interface. Soil samples for laboratory analysis were placed in laboratory supplied containers and transported to the laboratory under chain of custody protocol. Soil samples were analyzed for VOCs using Method 8260B.

A KEY scientist monitored the drilling activities and visually screened and described the texture and engineering properties of the soil. Soil descriptions and field screening PID results were recorded on soil boring logs. Soil Boring Logs (WDNR Form 4400-122) and Borehole Filling and Sealing Forms (WDNR Form 3300-005) not previously submitted are included in Appendix 3.

#### 3.2 Groundwater Elevations and Sampling

Static groundwater measurements were collected from the monitoring well MW-1 on June 22, 2006 and November 1, 2006. The monitoring well was opened and allowed to equilibrate prior to measuring depth to groundwater. Measurements were collected from the north side of the casing using an electronic water

level capable of measuring to an accuracy of plus or minus 0.01 feet. Groundwater elevations are summarized in Table 1. The water level meter was decontaminated between well locations using non-phosphate laboratory grade detergent water and rinsed with distilled water.

Groundwater samples were collected from the monitoring well MW-1 on June 22, 2006 and November 1, 2006 and TW-1 on May 10, 2006 after collecting static groundwater depths. Groundwater samples were collected and submitted from each monitoring well for laboratory analysis of VOCs using Method 8260 Groundwater samples were collected from monitoring wells using dedicated disposable bailers. Three well volumes were purged from each well and allowed to fully recharge prior to sampling. The groundwater samples were transferred to laboratory supplied containers, stored on ice and submitted to a WDNR certified laboratory for analysis. Purge water was containerized in steel 55-gallon drums.

#### 3.3 In-Situ Hydraulic Conductivity Testing

Hydraulic conductivity testing was not conducted at the site. However, based on geology and low yield from monitoring well MW-1, the hydraulic conductivity for the Site is estimated between 10<sup>-4</sup> to 10<sup>-5</sup> centimeters per second.

#### 3.4 Sub-Slab Vapor and Indoor Air Sampling

Three sub-slab vapor samples (VS-1 through VS-3) and indoor air sample AS-1 were collected in the heating season between October 20, 2014 and November 17, 2015 from under the building floor in the nail salon, which is located near the chlorinated VOC impacts. The sample locations are presented on Figure 2.

Below is a summary of the sampling procedures:

At the sampling location, a 5/8-inch-diameter hole was drilled through the slab foundation using a hammer drill to reach the sub-slab soil. Concrete dust was removed from the hole. The sub-slab probe was inserted into the hole and sealed with a bentonite putty mixture. The probe is a brass fitting, tapered on one end to fit the 5/8-inch diameter probe hole. It is outfitted with a male 3/16-inch hose adaptor on each end.

The sampling components were connected to the sub-slab probe, and a helium shroud was used to cover the sub-slab probe. A "shut-in test" was used to check for leaks in the fittings between the probe and sampling canister. A vacuum gauge was connected to the sampling line between the sub-slab probe and the Summa canister. Valves to the probe and canister were closed and air was removed from the line using a hand pump to induce a vacuum in the line. With all external valves to the sampling line closed, the vacuum gauge remained steady for one minute.

To test the probe seal, helium was released into the shroud and a sub-slab sample was withdrawn to detect the presence/absence of helium with a hand-held meter. Initially, the meter detected helium. The probe was re-sealed and re-tested until no helium was detected. After the "shut-in test" and helium shroud were used to test for leaks, a minimum of three volumes of air were purged from the sampling line. The valve on the Summa canister was then opened to collect the sub-slab vapor sample. The 6-liter canister was allowed to draw vapor for 30 minutes. The vacuum gauge read 30 inches of mercury before the sample collection and 8 inches of mercury after 30 minutes. After collecting the vapor sample, the probe was removed, and the probe hole was abandoned by filling the hole with bentonite to a level that was flush with the floor.

On April 28, 2018, four sub-slab vapor samples (VP-1 through VP-4) and one indoor air sample (IA-1) in the cooling season from under the building floor in the nail salon, which is located near the residual chlorinated VOC soil impacts. The sample locations are presented on Figure 2. Below is a summary of the sampling procedures.

Sub-slab vapor sampling points VP-1 through VP-4 were installed using a Cox-Calvin Vapor Pins®. The vapor pins were installed using a hammer drill. A 1.5-inch hole was drilled through the concrete floor to approximately 1.5 inches deep. A smaller 5/8-inch hole was drilled through the larger hole (1.5-inch diameter) and through the concrete floor into the underlying gravel. A bottle brush and Shop Vac were used to remove the concrete dust from inside the hole. The vapor pin, which consists of a stainless-steel hose barb inserted into a silicon tube, were driven/hammered into the hole. The silicon tube created a seal between the hose barb and concrete. Tubing was connected from the summa to the top of the hose barb to collect vapor from beneath the concrete floor. A water dam was used to verify the seal was adequate and no leaks were occurring prior to collecting each sample.

#### 3.5 Quality Assurance/Quality Control

The down-hole drilling equipment was decontaminated prior to mobilization and between boring locations. Decontamination consisted of cleaning the rods and augers with pressurized hot water. Hand equipment was decontaminated between each use. Decontamination consisted of a tap water and detergent, Alconox® wash, tap water rinse, and a distilled water rinse.

Groundwater monitoring well development, sampling and testing equipment were decontaminated with an Alconox® detergent/distilled water wash and two distilled water rinses.

KEY followed chain of custody protocols from sample collection to laboratory analysis. Each sample was identified and labeled with a field sample identification number consisting of a sample location identifier and date collected.

#### 3.6 Management of Investigation Derived Wastes

Soil cuttings and wastewaters from decontamination and purge water were collected and placed in 55-gallon Wisconsin Department of Transportation approved steel drums. The drums were transported offsite for disposal or treatment. Copies of manifests were previously submitted to the WDNR.

# 4.0 SITE CHARACTERIZATION

In accordance with NR 716.07 Wis. Admin. Code and the standard risk assessment process of evaluating sources, pathways, and receptors, KEY completed a desktop survey of potential receptors. The following sections present a summary of the potential receptors identified at or near the Site.

## 4.1 Occupants and Workers

The following exposure pathways were identified.

- For soil, the potential exposure pathways include ingestion (commercial/industrial worker and construction worker), dermal contact (commercial/industrial worker and construction worker), inhalation (commercial/industrial worker and construction worker), and migration to groundwater.
- For groundwater, the potential exposure pathway is ingestion (commercial/industrial worker and construction worker).
- For vapor, the potential exposure pathway is inhalation (commercial/industrial worker and construction worker).

#### 4.2 Sensitive Habitats

KEY conducted site visits and reviewed documents such as topographic maps and WDNR water resources maps to evaluate whether the following sensitive receptors are on the site or at nearby properties located within 1,200 feet of the Sites:

- Wetlands
- Species, habitat or ecosystems sensitive to the contamination
- Outstanding water resources and exceptional water resources
- Sites or facilities of historical or archeological significance

No sensitive wetlands or outstanding resource waters were identified on or adjacent to the Site. Confirmation of a wetland was reported by OTIE in a Wetland Delineation Report located at 1701 North Water Street, in Milwaukee. A letter from the WDNR recognizing the wetland confirmation was received. The wetland was identified approximately 370 feet from the Site along the Milwaukee River. The surface water data viewer and confirmation letter from the WDNR are included in Appendix 4

#### 4.3 Utilities

The Site water, gas, and sewer lines are located near the south side of the property where there are no known soil impacts. The communication and power lines are overhead except for an underground electric line that provides power to the sign in the northeast corner of the property. This electric line is likely located within the upper three feet from ground surface and not surrounded by permeable backfill. There is an underground electric line along the curb for the streetlights that is likely installed within the upper three feet in clay. There is also a communication line corridor located under East Brady Street between approximately 7.75 and 10 feet north of the curb and located between 3 and 4 feet bgs. According to the City of Milwaukee, the communication lines are "fiber and/or clay tile ducts encased in protective concrete." The utility locations are presented in Figure 2.

There are low levels of chlorinated VOCs along the north property line in the upper four feet of soil and under the sidewalk along East Brady Street. The estimated extent of soil impacts is presented on Figures 6 through 8. Due to the dense clay soils at the Site, no free product is present, groundwater is located at approximately 40 feet bgs, and the shallow utilities are not surrounded by a permeable material or are cased in concrete, the right of way utilities are likely not a conduit for migration of impacts.

#### 4.4 Water Wells

A search for the location of potential water supply wells located within 1,200 feet of the Site was completed using the Wisconsin Department of Agriculture, Trading, and Consumer Protection (DATCP) Well Constructor's Report database (DATCP, 2015). Two private water supply wells were identified approximately 550 feet northeast and 450 feet northwest of the Site. The approximate water supply well locations are presented in Figure 1. Since the are no groundwater impacts onsite, the water supply wells are not considered at risk. Well Constructor Reports are included in Appendix 4.

# 4.5 Surface Water and Site Topography

The nearest surface water body is the Milwaukee River, which is located approximately 400 feet northwest the Site and is located at an elevation of approximately 580 feet amsl. The topography of the site is relatively flat, with an elevation ranging from approximately 628 feet above mean sea level. The topography slopes to the northwest towards the Milwaukee River. The location of the Site and the Milwaukee River are presented on Figure 1.

## 4.6 Site Geology

The site geology was obtained through the advancement of investigation borings. A thin layer of sand and gravel (subbase) is present under the asphalt and concrete, underlying by native stiff clay with trace sand and gravel to a maximum depth of 45 feet bgs. Intermittent sand and gravel lenses were observed in two borings. Bedrock was not encountered during drilling, however based on water supply well constructor's reports, limestone bedrock may be encountered as shallow as 58 feet bgs (DATCP, 2019). The location of and geologic cross section A-A' is presented on Figures 4 and 5, respectively.

## 4.7 Site Hydrogeology

In June 2006, boring GP-9R was advanced to a depth of 45 feet bgs as part of the LUST investigation. Monitoring well (MW-1) was installed in this borehole. Depth to groundwater was measured on June 22, and November 11, 2006 at 39.69 feet and 39.65 feet below top of casing. A summary of groundwater measurements is presented in Table 1. This well was abandoned as part of the LUST investigation. Based on the area topography, the groundwater flow direction is expected to be to the northwest towards the Milwaukee River.

#### 5.0 SITE INVESTIGATION RESULTS

Below is a summary of the soil, groundwater, and vapor analytical results from the investigation completed between 2005 and 2019.

#### 5.1 Soil Regulatory Criteria

The WDNR Remediation & Redevelopment Program has prepared a spreadsheet (updated in December 2018) with direct contact residual contaminant levels (RCLs) for non-industrial land use and protection of groundwater pathway RCLs for each analyte. The Site is currently zoned LB2 – commercial local business.

#### 5.2 Soil Analytical Results

The soil investigation included the advancement of 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32) and installation of one monitoring well (MW-1) and one temporary well (TW-1). The borings and wells were advanced to depths ranging from 4 to 45 feet bgs. A total of 72 soil samples were collected and submitted for laboratory analysis including VOCs. Soil analytical results from onsite and offsite at the former Comedy Club property to the west of the site are summarized in Tables 2 and 3, respectively. The soil boring locations are presented on Figure 2. The soil laboratory analytical reports not previously submitted are included in Appendix 5.

A total of 53 soil samples were collected and submitted for laboratory analysis of VOCs. The petroleum VOCs were addressed in the LUST case (BRRTS No. 03-41-548862), which was closed by the WDNR on January 31, 2008. Below is a summary of the chlorinated VOC soil analytical exceedances.

#### **Non-Industrial Direct Contact RCL Exceedances**

Chlorinated VOCs were detected below their respective non-industrial direct contact RCLs.

#### **Protection of Groundwater RCL Exceedances**

Chlorinated VOCs were detected above their respective protection of groundwater RCLs between 0 and 4 feet bgs for PCE (compared to 0.0045 milligrams per kilogram [mg/kg]), TCE (compared to 0.0036 mg/kg), and cis-1,2-DCE (compared to 0.0412 mg/kg) at the following locations and concentrations.

- SP-2 for PCE (9.4 mg/kg), TCE (0.40 mg/kg), and cis-1,2-DCE (0.043J mg/kg)
- SP-4 for PCE (0.66 mg/kg), TCE (0.308 mg/kg), and cis-1,2-DCE (0.087 mg/kg)
- GP-9 for TCE (0.11 mg/kg) and cis-1,2-DCE (0.46 mg/kg)
- GP-12 for PCE (0.258 mg/kg) and TCE (0.0478J mg/kg)
- GP-13 for PCE (0.584 mg/kg) and TCE (0.0342 mg/kg)
- GP-28 for PCE (0.205)
- GP-29 for PCE (0.377 mg/kg) and TCE (0.0439J mg/kg)
- KB-31 for PCE (0.067 mg/kg)
- SP-15 for PCE (6.4 mg/kg) and TCE (0.28 mg/kg)
- SP-16 for PCE (3.5 mg/kg)
- SP-27 for PCE (0.64 mg/kg)

Chlorinated VOCs were detected above their respective protection of groundwater RCLs greater than 4 feet bgs at the following locations and concentrations.

- SP-1 from 8 to 10 feet for PCE (2.96 mg/kg), TCE (1.09 mg/kg), and cis-1,2-DCE (0.283 mg/kg)
- SP-2 from 8 to 10 feet for PCE (0.097 mg/kg)
- SP-4 from 8 to 10 feet for TCE (0.087 mg/kg) and cis-1,2-DCE (0.058J mg/kg)
- SP-5 from 8 to 10 feet for PCE (2.96 mg/kg), TCE (1.09 mg/kg), and cis-1,2-DCE (0.283 mg/kg)
- GP-9 from 8 to 10 feet for TCE (0.49 mg/kg) and cis-1,2-DCE (0.3 mg/kg)
- GP-12 from 7 to 9 feet for PCE (7.83 mg/kg), TCE (0.479 mg/kg) and cis-1,2-DCE (0.417 mg/kg)
- GP-13 from 7.5 to 10 feet for PCE (2.35 mg/kg) and TCE (0.229 mg/kg)
- SP-15 from 8 to 10 feet for PCE (1.3 mg/kg) and from 16 to 18 feet for PCE (2.5 mg/kg) and TCE (0.083 mg/kg)

#### **Source and Delineation**

The source of chlorinated VOCs is likely attributed to the former dry cleaner that was located onsite. There was also a former dry cleaner on the property to the west. A release of chlorinated VOCs occurred on both properties.

PCE isoconcentration maps for 0 to 4 feet, 5 to 10 feet, and 11 to 32 feet are presented as Figures 6 through 8, respectively. Soil concentrations are posted on each figure for all available PCE concentrations located onsite and on the property to the west. The isoconcentration contours presented on the figures represent the location of the impacts present onsite and commingling in the shared public alley located between the properties.

Below is a summary of key findings and observations from the PCE isoconcentration map for 0 to 4 feet bgs.

- The highest onsite PCE concentrations are present from 2 to 4 feet bgs at the north property line at SP-2 at 9.4 mg/kg. There appears to migration north of this location under the sidewalk at SP-15 at 6.4 mg/kg and SP16 at 3.5 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg.
- Based on the soil samples collected near the perimeter of the building, there are likely low concentrations of PCE located under the building. Vapor sampling was completed under the building to evaluate the risk of vapor intrusion.
- A significant source of PCE was identified near the former dry-cleaning machines offsite at boring GP-45 at 77.7 mg/kg from 3 to 4 feet bgs.

Below is a summary of key findings and observations from the PCE isoconcentration map for 5 to 10 feet bgs.

- The areal extent of the PCE impacts along the north property line are slightly larger with impacts present at SP-1 from 8 to 10 feet at 2.96 mg/kg. However, the areal extent of the impacts under the sidewalk at SP-15 have reduced from 9.4 mg/kg from 2 to 4 feet to 1.3 mg/kg from 8 to 10 feet.
- The vertical extent of PCE in the public alley along the western side of the building and near the northeast corner of the building has been delineated by PCE reported below laboratory detection limits each boring sampled between 7 and 10 feet bgs.

Below is a summary of key findings and observations from the PCE isoconcentration map for 11 to 32 feet bgs.

- Most soil samples were collected from 11 to 18 feet bgs. One soil sample was collected from monitoring well MW-1 from 30 to 32 feet bgs.
- The vertical extent of PCE has been delineated onsite by PCE concentrations reported below laboratory detection limits in borings SP-20 and SP-21 along the north property line from samples from 16 to 18 feet bgs.
- The vertical extent of PCE is not delineated under the sidewalk at boring SP-15. The deepest soil sample from this boring was 16 to 18 feet with PCE detected at 2.5 mg/kg. Although the impacts at this boring have not been horizontally or vertically delineated, the impacts are below the non-industrial RCL, are present under the right of way, not expected to impact groundwater which is presented at approximately 40 feet bgs (based on the depth to water at MW-1), and likely do not intersect the communication lines in the right of way. Further delineation to the north would require drilling in the right of way of Brady Street within a traffic lane, where the City of Milwaukee will not easily permit access.

Overall, the soil investigation for chlorinated VOCs is considered complete. Groundwater samples were collected to evaluate the potential for groundwater impacts at MW-1.

The remedial strategy for soil at the Site will be a barrier cap consisting of the building and north parking lot to limit infiltration of precipitation to groundwater. The soil exceedances will also be listed on the WDNR's Geographic Information System (GIS) Registry at the time of case closure and the City of Milwaukee will be notified of the soil impacts in the right of way of Brady Street and alley west of the Site.

#### 5.3 Soil Excavation as Part of LUST Case

Two soil excavations were completed in 2006. Details of these excavations were included in the LUST case. This file is no longer available through KEY or the WDNR. Based on the map included in Appendix 2, one excavation was completed at November 20, 2006 north of the building. This excavation measured approximately 16 feet by 19 feet by 5 feet. Approximately 87 tons of soil was excavated and disposed of at a landfill. A second excavation was completed north and northeast of the building between December 11 and 12, 2006. This excavation was approximately 45 feet by 45 feet and 0.5 feet. This excavation was for preparation of placing new asphalt in the area. Approximately 87 tons of soil was excavated and disposed of at a landfill.

# 5.4 Groundwater Analytical Results

The groundwater investigation included the installation and sampling of two wells (TW-1 and MW-1) as part of the LUST case. Groundwater samples were collected and submitted for laboratory analysis of VOCs each well. Groundwater VOC analytical results are presented in Table 3. The well locations are presented on Figure 2. The groundwater laboratory reports were previously submitted to the WDNR with the LUST case.

Groundwater analytical results were compared to the NR 140 Wis. Admin. Code ESs and PALs.

VOCs were reported below laboratory detection limits in TW-1 in May 2006.

• VOCs were detected in June 2006 for benzene at 0.20 J micrograms per liter (μg/L) and VOCs were reported below laboratory detection limits in November 2006 in MW-1. The benzene concentration was "J" flagged as "estimated" by the laboratory.

Based on the above groundwater analytical results, there are no chlorinated VOCs detected in the groundwater.

# 5.5 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab vapor samples were collected from the Site to evaluate the risk of vapor intrusion. Indoor air samples were also collected to confirm indoor air quality and determine if there was a potential source of chlorinated VOCs.

Sub-slab vapor analytical results were compared to the small commercial vapor risk screening levels (VRSLs) and indoor air analytical results were compared to the small commercial vapor action levels (VALs). The building is slab on grade and less than 25,000 square feet. Sample locations are presented on Figure 2. Sub-slab vapor and indoor air analytical results are summarized in Table 5. Vapor laboratory reports not previously submitted are presented in Appendix 6.

# 5.6 Sub-Slab Vapor and Indoor Air Samples

On October 20, 2014, one sub-slab vapor sample (VS-1) was collected from the northeast corner of the building where chlorinated VOCs were detected in soil. An indoor air sample (AS-1) was collected from inside the nail salon and submitted for VOCs.

On November 17, 2015, two sub-slab vapor samples (VS-2 and VS-3) were also collected from under the northeast corner of the building. The vapor sample was submitted for laboratory analysis of select VOCs including PCE, TCE, cis-1,2-DCE and trans-1,2-DCE.

On April 28, 2018, four sub-slab vapor samples (VP-1 through VP-4) were collected from under the northeast corner of the building where chlorinated VOCs were detected in soil. An indoor air sample (IA-1) was also collected from inside the nail salon and submitted for VOCs.

- VOCs were detected below the small commercial VRSL in sub-slab vapor samples VS-1 through VS-3 and VP-1 through VP-4 collected during heating and cooling seasons.
- Ethyl acetate was detected above the small commercial VAL of 310 micrograms per cubic meter (μg/m³) in AS-1 at 1,980 μg/m³ and IA-1 at 2,880 μg/m³, respectively. Ethyl acetate is analyte found in nail polish remover. This portion of the building is operated by Polished Nail Bar, a nail salon. Therefore, since this analyte is expected to be found in the indoor air at a nail salon and not associated with the off gassing from the residual soil impacts at the Site, no vapor mitigation efforts are not warranted to address this exceedance.

# 6.0 SITE INVESTIGATION FINDINGS AND CONCLUSIONS

Below is a summary of the key findings and conclusions from the site investigation.

- Site investigation activities included the advancement of 43 soil borings (GP-1, GP-2, GP-6A/6B, GP-10, GP-11 through GP14, GP-28 through GP-30, SP-1 through SP-14, SP-15 through SP-28, KB-12A, KB-31, and KB-32), installation, development, and groundwater sampling of one monitoring well (MW-1) and one temporary well (TW-1), and completion of a vapor intrusion assessment.
- The Site soils consist of a thin layer of sand and gravel (subbase) under the asphalt and concrete, underlying by stiff clay with trace sand and gravel grading from brown to gray to a maximum depth of 45 feet bgs. Two intermittent sand and gravel lenses were observed in two borings.
- Groundwater measured in wells at approximately 40 feet bgs.
- No sensitive wetlands or outstanding resource waters were identified on or adjacent to the Site.
- The site utilities are located outside the footprint of residual soil impacts and the utilities located under Brady Street are shallow and are likely not installed in a permeable material that would serve as pathway for migration.
- The source of chlorinated VOCs is likely attributed to the former dry cleaner that was located onsite. There was also a former dry cleaner on the property to the west. A release of chlorinated VOCs occurred on both properties.
- Soil samples were collected and submitted for laboratory analysis of VOCs. The Site is currently zoned commercial.
  - Chlorinated VOCs were detected below their respective non-industrial and industrial direct contact RCLs.
  - There are PCE, TCE, and cis-1,2-DCE soil concentrations above their respective protection of groundwater RCLs.
  - O The highest onsite PCE concentrations are present from 2 to 4 feet bgs along the north property line at SP-2 and in the sidewalk at SP-15 and SP-16. PCE concentrations in the upper 4 feet ranges from 0.051 mg/kg to 9.4 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg.
  - O PCE has been vertically delineated onsite between 2 and 16 feet bgs.
  - O Residual soil impacts are still present from 16 to 18 feet at one offsite boring (SP-15) in the sidewalk. This soil impact is below the non-industrial RCL, not expected to impact groundwater which is presented at approximately 40 feet bgs (based on the depth to water at MW-1), and likely does not intersect the communication lines in the right of way. Further delineation to the north would require drilling in the right of way of Brady Street within a traffic line, which the City of Milwaukee is not amendable to allowing. Therefore, further soil sampling is not proposed.

- Groundwater samples were collected and submitted for laboratory analysis of VOCs.
  - VOCs were not detected above laboratory detection limits or their respective preventive action limits in TW-1 or MW-1.
- A vapor intrusion assessment was completed at the site.
  - Seven sub-slab vapor samples were collected in heating and cooling seasons between
     October 2014 and April 2019 for VOC analysis. VOCs were detected below small commercial VRSLs in each vapor sample.
  - Two indoor air samples (AS-1 and IA-1) were collected between November 2014 and April 2018 for VOC analysis. Ethyl acetate, a common analyte in nail polish, was detected above its VAL in the nail salon. This analyte is not associated with the chlorinated VOCs detected in the soil at the Site.
  - No vapor mitigation efforts are warranted for the Site.
- The investigation for soil, groundwater, and vapor is considered complete.

# 7.0 REMEDIAL ACTION PLAN

Environmental investigation activities were conducted between 2005 and 2019. Investigation activities have been focused on chlorinated VOCs related to the former presence of a dry cleaner onsite. Based on the analytical results, the extent and degree of soil have been delineated onsite, there are no groundwater PAL or ES exceedances, and the risk of vapor intrusion has been evaluated. This RAP was prepared to provide a remedial strategy to address the residual soil impacts present on and offsite.

# 7.1 Soil Remedy

The non-industrial direct contact and protection of groundwater RCLs were compared to the soil VOC analytical results. Chlorinated VOCs were detected below their respective non-industrial and industrial direct contact RCLs. There are PCE, TCE, and cis-1,2-DCE soil concentrations above their respective protection of groundwater RCLs. The highest onsite PCE concentrations are present from 2 to 4 feet bgs along the north property line at SP-2 and in the sidewalk at SP-15 and SP-16. PCE concentrations in the upper 4 feet ranges from 0.051 mg/kg to 9.4 mg/kg. There are lower PCE concentrations in the public alley and along the western side of the site building ranging from 0.067 mg/kg to 0.377 mg/kg. PCE has been vertically delineated onsite between 2 and 16 feet bgs.

The soil remedy for the Site will include a barrier cap. The barrier cap will include a portion of the building and a portion of the asphalt parking lot. The location of the proposed barrier cap is presented on Figure 11. The purpose of the barrier cap will be to limit the potential for infiltration of precipitation. The Site will also be placed on the WDNR GIS Registry for residual soil impacts and a notification of continuing obligations for residual soil contamination will be submitted to the City of Milwaukee for soil impacts in the right of way of East Brady Street and in the alley west of the site.

# 7.2 Groundwater Remedy

Groundwater was encountered at approximately 40 feet bgs. Two groundwater samples were collected from MW-1 and one groundwater sample was collected from TW-1 and laboratory analyzed for VOCs. VOCs were not detected above laboratory detection limits or their respective PALs in the wells. Since there are no groundwater impacts, a groundwater remedy is not proposed.

# 7.3 Vapor Remedy

Seven sub-slab vapors were collected beneath the north portion of the building where residual soil impacts are present and laboratory analyzed for VOCs. The sub-slab vapor samples were collected in heating and cooling seasons. VOCs were detected below their respective VRSLs in each sample.

Two indoor air samples were collected from the nail salon in a heating and a cooling season. Ethyl acetate, a common analyte in nail polish remover, was detected above its VAL. Since ethyl acetate is associated with nail salon products and not a constituent of concern, no vapor mitigation efforts are not warranted to address this exceedance. The Occupational Safety and Health Administration permissible exposure limit (PEL) for ethyl acetate is  $1,400,000 \,\mu\text{g/m}^3$ . The ethyl acetate concentrations are below the PEL.

# 8.0 GENERAL QUALIFICATIONS

Our study was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report.

The findings of this report, to the best of knowledge, are valid as of the date of this study. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information produced by entities other than Key Engineering Group, Ltd. Although care has been taken by Key Engineering Group, Ltd., in compiling this information, Key Engineering Group, Ltd., disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such in disclaims formation and data.

This report was prepared for Endeavour Corp. The report is the property of Endeavour Corp. and Key Engineering Group, Ltd. and cannot be used without written consent from both parties.

# 9.0 REFERENCES

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# <u>Tables</u>

Table 1. Groundwater Elevations 1681 North Van Buren Street, Milwaukee, Wisconsin

	TOP OF WELL	DEPTH TO	GROUNDWATER
WELL IDENTIFICATION	CASING ELEVATION	GROUNDWATER	<b>ELEVATION</b>
(DATE MEASURED)	(FEET MSL)	(FEET BTOC)	(FEET)
MW-1			
6/22/2006	100.00	39.69	60.31
11/01/2006	100.00	39.65	60.35

Notes:

BTOC - below top of casing MSL - mean sea level

Table 2. Soil Analytical Results 1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	SI	P-1	SI	P-2	s	P-3	SI	P-4	SI	P-5	SF	P-6	SF	P-7	SI	P-9	GP-1
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	2'-4'	8'-10'	2'-4'	8'-10'	2'-4'	10'-12'	2'-4'	8'-10'	2'-4'*	8'-10'	2'-4'*	8'-10'	2'-4'	10'-12'	2'-4'	10'-12'	10'-11'
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant	11/	2/06	11/	2/06	11/	2/06	11/	2/06	11/	2/06	11/2	2/06	11/2	2/06	11/3	2/06	11/7/05
Detected VOCs (mg/kg)	Level	Level	Level			•						•		·						
Benzene	1.6	7.07	0.0051	0.55	0.107	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	0.221	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	0.283	0.043 J	<0.025	<0.025	<0.025	0.087	0.058 J	<0.125	<0.025	0.035 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	8.02	35.4	1.57	1.27	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	5.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene				0.050 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	0.73	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	0.60	<0.025	0.047 J	<0.025	<0.025	0.063	<0.025	<0.025	<0.125	0.58	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	264	264		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.125	1.63	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162		0.196	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	0.0256 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	<0.025	2.96	9.4	0.097	<0.025	<0.025	0.66	<0.025	16.9	<0.025	4.0	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	0.0268 J	<0.025	<0.025	0.088	<0.025	<0.025	<0.025	<0.025	<0.125	0.168	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	1.3	8.41	0.0036	<0.025	1.09	0.40	<0.025	<0.025	<0.025	0.308	0.087	<0.125	<0.025	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219		0.156	<0.025	<0.0259	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182		0.0255 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.125	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes			0.689	0.1815	<0.050	0.0259	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	3.68	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	548 J	<0.075	<0.075	0.057 J	<0.075	<0.075	<0.075	<0.075	<0.125	2.59	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075

**BOLD** concentrations exceeded the protection of groundwater residual contaminant level.

 ${\tt BOXED}\ concentrations\ exceeded\ the\ non-industrial\ direct\ contact\ residual\ contaminant\ level.$ 

 $\underline{\textbf{Underlined}} \ \textbf{concentrations} \ \textbf{exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

<sup>\*</sup> Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

Table 2. Soil Analytical Results 1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	GI	P-2	GP-6B	GP-7*	GP-8	GI	P-9	GP-9R	GP	-10	GP	-11	GP	-12	GF	·-13	GP	P-14
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	3'-4'	9'-10'	3'-4'	3'-4'	3'-4'	2'-4'	8'-10'	30'-32'	2'-4'	8'-10'	2'-4'	14'-16'	1'-2.5'	7'-9'	1'-2.5'	7.5'-10'	1'-2.5'	7.5'-10'
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant	11/	7/05	11/7/05	11/7/05	5/10/06	5/10	0/06	6/15/06	5/1	0/06	5/10	0/06	3/30	0/09	3/3	0/09	3/30	0/09
Detected VOCs (mg/kg)	Level	Level	Level									•								•	
Benzene	1.6	7.07	0.0051	0.039	<0.025	<0.025	<0.025	<0.028	<0.028	0.18	<0.025	<0.029	<0.029	< 0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.025	<0.025	<0.025	<0.028	0.46	0.3	<0.025	<0.029	<0.029	<0.030	<0.029	0.0341 J	0.417	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	0.0415 J	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	2.55	<0.025	<0.025	<0.025	<0.028	<0.028	0.31	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene				0.284	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	< 0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	1.1	<0.025	<0.025	<0.025	<0.028	<0.056	<0.054	<0.025	<0.058	0.23	<0.059	<0.059	<0.025	<0.025	<0.040	<0.040	<0.025	<0.025
n-Butylbenzene	108	108		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404
n-Propylbenzene	264	264		1.09	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162		0.057	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	< 0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183		0.117	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145		0.43	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	< 0.030	<0.029	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	<0.025	0.051 J	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	0.258	7.83	0.584	2.35	<0.025	<0.025
Toluene	818	818	1.1072	0.17	<0.025	<0.025	<0.025	<0.028	<0.028	0.14	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.028	0.47	<0.027	<0.025	<0.029	<0.029	<0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.025	0.0381	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.028	0.11	0.49	<0.025	<0.029	<0.029	<0.030	<0.029	0.0478 J	0.479	0.0342	0.229	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219		5.2	0.029 J	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	< 0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182		1.12	<0.025	<0.025	<0.025	<0.028	<0.028	<0.027	<0.025	<0.029	<0.029	< 0.030	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes			0.689	6.32	<0.054	<0.050	<0.050	<0.056	<0.056	<0.054	<0.050	<0.058	<0.058	<0.060	<0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	5.3	<0.075	<0.075	<0.075	<0.094	<0.096	0.15	<0.075	<41	<41	<41	<0.029	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

**BOLD** concentrations exceeded the protection of groundwater residual contaminant level.

 ${\tt BOXED}\ concentrations\ exceeded\ the\ non-industrial\ direct\ contact\ residual\ contaminant\ level.$ 

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

<sup>\*</sup> Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

Table 2. Soil Analytical Results 1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	GP	-28	GP	-29	KB-12A	KB	3-30	KB-31	KB-32	SP	·-11	SP-12	SP-13		SP-15	
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	1'-3'	9'-11'	1'-3'	7'-9'	11'-13'	1'-3'	13'-15'	1'-3'	1'-3'	1-3	7'-9'	8'-10'	7-9	2-4	8'-10'	16-18
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant	11/3	0/09	11/3	0/09	8/23/16	8/2	3/16	8/23/16	8/23/16	7/1	7/19	7/17/19	7/17/19		7/17/19	
Detected VOCs (mg/kg)	Level	Level	Level			•		•			•	•	•		•				
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0084	<0.0084	<0.0085	<0.0086	<0.0083	<0.0083	<0.0087
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.021	<0.021	<0.022	<0.022	<0.021	<0.021	<0.022
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.025	0.0364 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.024	<0.024	<0.023	<0.023	<0.024
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.023	<0.023	<0.024
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.011	<0.011	<0.011	<0.011	<0.010	<0.010	<0.011
Isopropylbenzene				<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.023	<0.022	<0.022	<0.023
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.025	<0.019	<0.019	0.10 B	0.033 J,B	0.021 J,B	<0.019	<0.020
n-Butylbenzene	108	108		<0.404	<0.404	<0.404	<0.404	<0.025	<0.404	<0.404	<0.404	<0.404	<0.022	<0.022	<0.023	<0.023	<0.022	<0.022	<0.023
n-Propylbenzene	264	264		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024	<0.023	<0.023	<0.025
p-Isopropyltoluene	162	162		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021	<0.021	<0.020	<0.022
sec-Butylbenzene	183	183		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.024
tert-Butylbenzene	145	145		NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.024
Tetrachloroethene	33	145	0.0045	0.205	<0.025	0.377	<0.025	<0.025	<0.025	<0.025	0.067	<0.025	<0.021	<0.021	<0.022	<0.022	6.4	1.3	2.5
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0085	<0.0084	<0.0086	<0.0086	<0.0083	<0.0083	<0.0088
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.020	<0.020	<0.020	<0.021	<0.020	<0.020	<0.021
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.020	<0.020	0.045 J	<0.020	<0.019	<0.019	<0.020
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.023
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	0.0439 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0094	<0.0094	<0.0096	<0.0096	0.28	<0.0093	0.083
1,2,4 -Trimethylbenzene	219	219		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021	<0.020	<0.020	<0.021
1,3,5 -Trimethylbenzene	182	182		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.023
Total Trimethylbenzenes			0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.043	<0.043	<0.043	<0.045	<0.042	<0.042	<0.044
Total Xylenes	260	260	3.96	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.013	<0.013	<0.013	<0.013	<0.012	<0.012	<0.013

 ${\tt BOXED}\ concentrations\ exceeded\ the\ non-industrial\ direct\ contact\ residual\ contaminant\ level.$ 

 $\underline{\textbf{Underlined}} \ \textbf{concentrations} \ \textbf{exceed the industrial direct contact residual contaminant level}.$ 

\* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

Table 2. Soil Analytical Results 1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of		SP-16			SP-17			SP-18			SP-19		SP-20	SP-21	SP-22	SP-23	SP	P-24
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	2-4	8-10	16-18	2-4	8-10	16-18	2-4	8-10	16-18	2-4	8-10	16-18	16'-18'	16-18	8-10	16-18	2-4	8-10
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant		7/17/19	!		7/17/19	!		7/17/19		•	7/17/19		7/17/19	7/17/19	7/17/19	7/17/19	7/1	7/19
Detected VOCs (mg/kg)	Level	Level	Level							•											
Benzene	1.6	7.07	0.0051	<0.0089	<0.0085	<0.0081	<0.0099	<0.0078	<0.0085	<0.010	<0.0082	<0.0099	<0.0098	<0.010	<0.0084	<0.0087	<0.0094	<0.0087	<0.0099	<0.0097	<0.010
Chloroform	0.454	1.98	0.0033	<0.023	<0.022	<0.021	<0.025	<0.020	<0.022	<0.026	<0.021	<0.025	<0.025	<0.026	<0.021	<0.022	<0.024	<0.022	<0.025	<0.025	<0.025
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.027	<0.029	<0.024	<0.024	<0.026	<0.024	<0.028	<0.027	<0.028
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.028	<0.029	<0.024	<0.025	<0.026	<0.024	<0.028	<0.027	<0.028
Ethylbenzene	8.02	35.4	1.57	<0.011	<0.011	<0.010	<0.012	<0.0098	<0.011	<0.013	<0.010	<0.012	<0.012	<0.013	<0.011	<0.011	0.29	<0.011	<0.012	<0.012	<0.012
Isopropylbenzene				<0.023	<0.022	<0.021	<0.026	<0.021	<0.022	<0.027	<0.022	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Naphthalene	5.52	24.1	0.6582	0.024 J,B	<0.020	<0.019	<0.023	<0.018	<0.019	0.029 J,B	<0.019	0.031 J,B	<0.022	<0.023	<0.019	<0.020	0.036 J	<0.020	<0.023	<0.022	<0.023
n-Butylbenzene	108	108		<0.024	<0.023	<0.022	<0.026	<0.021	<0.023	<0.027	<0.022	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.026	<0.026
n-Propylbenzene	264	264		<0.025	<0.024	<0.023	<0.028	<0.022	<0.024	<0.029	<0.023	<0.028	<0.028	<0.029	<0.024	<0.025	0.10	<0.025	<0.028	<0.027	<0.028
p-Isopropyltoluene	162	162		<0.022	<0.021	<0.020	<0.025	<0.019	<0.021	<0.025	<0.020	<0.024	<0.024	<0.025	<0.021	<0.022	<0.023	<0.021	<0.025	<0.024	<0.025
sec-Butylbenzene	183	183		<0.024	<0.023	<0.022	<0.027	<0.021	<0.023	<0.028	<0.022	<0.027	<0.027	<0.028	<0.023	<0.024	<0.026	<0.024	<0.027	<0.026	<0.027
tert-Butylbenzene	145	145		<0.024	<0.023	<0.022	<0.027	<0.021	<0.023	<0.028	<0.022	<0.027	<0.027	<0.028	<0.023	<0.024	<0.026	<0.024	<0.027	<0.026	<0.027
Tetrachloroethene	33	145	0.0045	3.5	<0.022	<0.021	<0.025	<0.020	<0.022	<0.026	<0.021	<0.025	<0.025	<0.026	<0.021	<0.022	<0.024	<0.022	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.0090	<0.0086	<0.0082	<0.010	<0.0079	<0.0085	<0.010	<0.0082	<0.0099	<0.0099	<0.010	<0.0085	<0.0088	<0.0095	<0.0087	<0.010	<0.0097	<0.010
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.021	<0.020	<0.019	<0.024	<0.019	<0.020	<0.024	<0.020	<0.024	<0.024	<0.025	<0.020	<0.021	<0.023	<0.021	<0.024	<0.023	<0.024
1,2,4-Trichlorobenzene	24	113	0.408	<0.021	<0.020	<0.019	<0.023	<0.018	<0.020	<0.024	<0.019	<0.023	<0.023	<0.024	<0.020	<0.020	<0.022	<0.020	<0.023	<0.023	<0.023
1,1,1-Trichloroethane	640	640	0.1402	<0.023	<0.022	<0.021	<0.026	<0.020	<0.022	<0.027	<0.021	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Trichloroethene	1.3	8.41	0.0036	<0.010	<0.0096	<0.0091	<0.011	<0.0088	<0.0095	<0.011	<0.0092	<0.011	<0.011	<0.011	<0.0094	<0.0098	<0.011	<0.0097	<0.011	<0.011	<0.011
1,2,4 -Trimethylbenzene	219	219		<0.022	<0.021	<0.020	<0.024	<0.019	<0.021	<0.025	<0.020	<0.024	<0.024	<0.025	<0.021	<0.021	<0.023	<0.021	<0.024	<0.024	<0.024
1,3,5 -Trimethylbenzene	182	182		<0.023	<0.022	<0.021	<0.026	<0.020	<0.022	<0.027	<0.021	<0.026	<0.026	<0.027	<0.022	<0.023	<0.025	<0.023	<0.026	<0.025	<0.026
Total Trimethylbenzenes			0.689	<0.045	<0.043	<0.041	<0.050	<0.039	<0.043	<0.052	<0.041	<0.050	<0.050	<0.052	<0.043	<0.044	<0.048	<0.044	<0.050	<0.049	<0.050
Total Xylenes	260	260	3.96	<0.013	<0.013	<0.012	<0.015	<0.012	<0.013	<0.015	<0.012	<0.015	<0.015	<0.015	<0.013	<0.013	<0.014	<0.013	<0.015	<0.015	<0.015

**BOLD** concentrations exceeded the protection of groundwater residual contaminant level.

 ${\tt BOXED}\ concentrations\ exceeded\ the\ non-industrial\ direct\ contact\ residual\ contaminant\ level.$ 

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

<sup>\*</sup> Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.

<sup>--- -</sup> no standard established

Table 2. Soil Analytical Results 1681-1683 North Van Buren Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial	Industrial Divest	Protection of	SP-25	SP-26	SP-27
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	8-10	2-4	2-4
Sample Date	Contaminant Level         Level           cted VOCs (mg/kg)         1.6         7.07           oform         0.454         1.98	Contaminant	Residual Contaminant	7/17/19	7/17/19	7/17/19
Detected VOCs (mg/kg)	Level       1.6     7.07       0.454     1.98	Levei	Level		•	•
Benzene	1.6	7.07	0.0051	<0.010	<0.0099	<0.0078
Chloroform	0.454	1.98	0.0033	<0.025	<0.025	<0.020
cis-1,2-Dichloroethene	156	2,340	0.0412	<0.028	<0.028	<0.022
1,1-Dichloroethane	5.06	22.2	0.4834	<0.028	<0.028	<0.022
Ethylbenzene	8.02	35.4	1.57	<0.013	<0.012	<0.0098
Isopropylbenzene				<0.026	<0.026	<0.021
Naphthalene	5.52	24.1	0.6582	<0.023	<0.023	<0.018
n-Butylbenzene	108	108		<0.027	<0.026	<0.021
n-Propylbenzene	264	264		<0.028	<0.028	<0.022
p-Isopropyltoluene	162	162		<0.025	<0.025	<0.019
sec-Butylbenzene	183	183		<0.027	<0.027	<0.021
tert-Butylbenzene	145	145		<0.027	<0.027	<0.021
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	0.064
Toluene	818	818	1.1072	<0.010	<0.010	<0.0079
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.024	<0.024	<0.019
1,2,4-Trichlorobenzene	24	113	0.408	<0.023	<0.023	<0.018
1,1,1-Trichloroethane	640	640	0.1402	<0.026	<0.026	<0.020
Trichloroethene	1.3	8.41	0.0036	<0.011	<0.011	<0.0088
1,2,4 -Trimethylbenzene	219	219		<0.025	<0.024	<0.019
1,3,5 -Trimethylbenzene	182	182		<0.026	<0.026	<0.020
Total Trimethylbenzenes			0.689	<0.051	<0.050	<0.039
Total Xylenes	260	260	3.96	<0.015	<0.015	<0.012

 ${\tt BOXED}\ concentrations\ exceeded\ the\ non-industrial\ direct\ contact\ residual\ contaminant\ level.$ 

 $\underline{\textbf{Underlined}} \ \textbf{concentrations} \ \textbf{exceed the industrial direct contact residual contaminant level}.$ 

- \* Sample not evaluated since a soil sample was collected from an adjacent boring from the same depth at a later date that is more representative.
- --- no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

age	5 of	5	

Table 3. Offsite Soil Analytical Results
Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	GP-3	GP-3	GI	P-4	GP-4R	GP-5	GP-5R	GF	P-12	GP	-13	GP	P-14	GP	-15	GP-15R	GI	P-16
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	7'-8'	11'-12'	1'-2'	7'-8'	11'-13'	3'-4'	6'-8'	1'-2.5'	7'-9'	1'-2.5'	7.5'-10'	1'-2.5'	7.5'-10'	2.5'-5'	9'-11'	11'-12'	1'-2.5'	10.5'-12
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant	11/7/05	11/7/05	11/	7/05	3/30/09	11/7/05	3/30/09	3/3	0/09	3/30	0/09	3/3	0/09	3/3	0/09	11/30/09	3/3	30/09
Detected VOCs (mg/kg)	Level	Level	Level		•												•		•		
Benzene	1.6	7.07	0.0051	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.684	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2340	0.0412	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0341 J	0.417	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0415 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	<u>53</u>	0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene				7.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	13.6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040	<0.040	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108		21.8	<0.025	<0.025	<0.025	<0.0404	<0.025	<0.0404	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404
n-Propylbenzene	264	264		40	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162		0.98	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183		4.4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.5	<0.025	10	0.034 J	<0.025	0.087	<0.025	0.258	7.83	0.584	2.35	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0318 J	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0381	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.5	<0.025	0.041 J	<0.025	<0.025	0.06	<0.025	0.0478 J	0.479	0.0342	0.229	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219		4.6	0.041	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182		17	0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes			0.689	21.6	0.075	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	46.78	0.078	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level.

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

Table 3. Offsite Soil Analytical Results
Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Depth (feet bgs)  Direct Res	Non-Industrial	Industrial Direct	Protection of	GP-17		GF	P-18	GP-19		GP-20		GP-21		GP-22		GP-23	GP-24		GP	P-25
	Direct Contact		Groundwater	2.5'-5'	10.5'-12'	1'-2.5'	10'-12'	1'-2.5'	13.5'-15'	7'-9'	12'-13'	7'-9'	13'-15'	7'-9'	13'-15'	7'-9'	7'-9'	13'-15'	5'-7'	10'-12'
	Residual Contaminant	Contaminant	Residual Contaminant	3/3	0/09	3/3	3/30/09		3/30/09		3/30/09		80/09	11/3	30/09	11/30/09	11/30/09		11/30/09	
Detected VOCs (mg/kg)	Level	Level	Level					l						l			I.		l	
Benzene	1.6	7.07	0.0051	<0.025	<0.025	0.362 J	<0.025	<0.5	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	3.13	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	8.02	35.4	1.57	0.0868	<0.025	30	<0.025	8.65	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene				<0.025	<0.025	3.55	<0.025	2.39	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	22.6	<0.025	14	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Butylbenzene	108	108		<0.0404	<0.0404	<0.404	<0.0404	<0.808	<0.0404	<505	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.0404	<0.025	<0.0404	<0.0404
n-Propylbenzene	264	264		0.239	<0.025	13.6	<0.025	8.19	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
p-Isopropyltoluene	162	162		<0.025	<0.025	2.22	<0.025	9.87	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	183	183		0.149	<0.025	1.52	<0.025	3.85	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
tert-Butylbenzene	145	145		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	98.8	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027 J	<0.025	<0.025	<0.025
Toluene	818	818	1.1072	<0.025	<0.025	0.381 J	<0.025	<0.5	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	0.346 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.25	<0.025	<0.5	<0.025	<u>15.3</u>	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,2,4 -Trimethylbenzene	219	219		0.0354 J	<0.025	45.9	<0.025	<0.5	<0.025	< 0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182		<0.025	<0.025	0.595 J	<0.025	1.83 J	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes			0.689	0.0354 J	<0.050	46.495	<0.050	1.83 J	<0.050	>0.624	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	<0.025	<0.025	14.16	<0.025	<0.5	<0.025	<0.312	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

Table 3. Offsite Soil Analytical Results
Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	GP	-26	GI	P-27	GF	P-28	GP	-29	GP-35		GP-36		GP-37	GP	-38	GP	-39
Sample Depth (feet bgs)	Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual	Groundwater	3'-5'	9'-11'	7'-9'	13'-15'	1'-3'	9'-11'	1'-3'	7'-9'	19'-20'	1'-2'	9'-10'	14'-15'	3'-4'	3'-4'	7'-8'	3'-4'	6'-7'
Sample Date		Contaminant	Residual Contaminant	11/3	0/09	11/3	30/09	11/3	30/09	11/3	0/09	9/12/17		9/12/17	-	10/19/17	10/1	9/17	10/1	9/17
Detected VOCs (mg/kg)		Level	Level					I									I			
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.06	0.045 J
Chloroform	0.454	1.98	0.0033	NA	NA	NA	NA	NA	NA	NA	NA	<0.035	< 0.035	< 0.035	<0.035	<0.035	< 0.035	<0.035	<0.07	<0.035
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0364 J	<0.025	<0.032	0.227	< 0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
1,1-Dichloroethane	5.06	22.2	0.4834	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.034	< 0.034	< 0.034	<0.034	<0.034	< 0.034	<0.034	<0.068	< 0.034
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.035	< 0.035	< 0.035	<0.035	<0.035	<0.035	<0.035	<0.07	<0.035
Isopropylbenzene				<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.034	<0.034	<0.034	<0.034	<0.034	0.112	<0.034	<0.068	<0.034
Naphthalene	5.52	24.1	0.6582	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.188	<0.094
n-Butylbenzene	108	108		<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404	<0.04	<0.04	<0.04	<0.04	<0.04	<0.211	<0.04	<0.08	<0.04
n-Propylbenzene	264	264		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.033	<0.033	<0.033	<0.033	<0.033	0.50	<0.033	<0.066	<0.033
p-Isopropyltoluene	162	162		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	<0.058	<0.029
sec-Butylbenzene	183	183		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.033	<0.033	<0.033	<0.033	<0.033	0.10 J	<0.033	<0.066	<0.033
tert-Butylbenzene	145	145		NA	NA	NA	NA	NA	NA	NA	NA	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	<0.052	<0.026
Tetrachloroethene	33	145	0.0045	0.113	<0.025	<0.025	<0.025	0.205	<0.025	0.377	<0.025	<0.032	0.36	<0.032	<0.032	<0.032	0.202	0.169	27.3	<0.032
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.056	<0.028
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.06	<0.03
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0439 J	<0.025	<0.041	1.71	<0.041	<0.041	<0.041	<0.041	<0.041	0.199 J	<0.041
1,2,4 -Trimethylbenzene	219	219		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05	<0.025
1,3,5 -Trimethylbenzene	182	182		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.064	<0.032
Total Trimethylbenzenes			0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.114	<0.057
Total Xylenes	260	260	3.96	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.116	<0.116	<0.116	<0.116	<0.116	<0.116	<0.116	<0.232	<0.116

**BOLD** concentrations exceeded the protection of groundwater residual contaminant level.

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

Table 3. Offsite Soil Analytical Results
Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial	Industrial Direct	Protection of	rotection of GP-40		GP-41 GP-42		-42	GP-43		GP-44		GP	-45	GP-46		GP-47		GP-48	GF	P-49
ample Depth (feet bgs)	Direct Contact		Groundwater	3'-4'	5'-6'	3'-4'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	3'-4'	7'-8'	7'-8'	3'-4'	7'-8'
Sample Date	Residual Contaminant Level	Contaminant	Residual Contaminant	10/1	9/17	10/19/17	10/1	9/17	4/18	8/18	4/1	8/18	4/1	8/18	4/1	8/18	4/18/18		4/18/18	4/18/18	
Detected VOCs (mg/kg)		Level	Level			1	•		•		•		•		1		1		•		
Benzene	1.6	7.07	0.0051	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025
Chloroform	0.454	1.98	0.0033	<0.035	<0.035	<0.035	<0.035	<0.035	<0.025	<0.025	<0.025	<0.026	0.092B	0.0704B	0.0362B	0.0786B	<0.025	<0.025	<0.025	<0.025	<0.0257
cis-1,2-Dichloroethene	156	2340	0.0412	<0.032	< 0.032	<0.032	<0.032	<0.032	<0.025	<0.0259	0.0505	0.0573	0.953	0.055	<0.025	0.0727	1.61	0.0722	0.319	<0.025	0.0645
1,1-Dichloroethane	5.06	22.2	0.4834	<0.034	<0.034	<0.034	<0.034	<0.034	<0.0256	< 0.0377	<0.025	<0.0419	<0.0293	<u>25.7</u>	<0.025	<0.0272	<0.027	< 0.0304	<0.0289	<0.0266	<0.0413
Ethylbenzene	8.02	35.4	1.57	0.309	<0.035	<0.035	<0.035	<0.035	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene				0.253	<0.034	<0.034	<0.034	<0.034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5.52	24.1	0.6582	<0.094	<0.094	<0.094	<0.094	<0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	108	108		1.1	<0.04	<0.04	<0.04	<0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	264	264		1.31	<0.033	<0.033	<0.033	<0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	162	162		0.104	<0.029	<0.029	<0.029	<0.029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	183	183		0.291	<0.033	<0.033	<0.033	<0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	145	145		<0.026	<0.026	<0.026	<0.026	<0.026	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	33	145	0.0045	0.054 J	0.164	0.048 J	0.034 J	0.132	<0.025	<0.025	3.64	0.934	77.7	60.3	14	0.971	0.312	1.37	5.84	1.06	1.09
Toluene	818	818	1.1072	<0.032	<0.032	<0.032	<0.032	<0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.028	<0.028	<0.028	<0.028	<0.028	<0.025	<0.0356	<0.025	<0.0395	<0.0276	<0.025	<0.025	<0.0256	<0.0255	<0.0287	<0.0272	<0.0251	<0.039
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	640	640	0.1402	<0.03	<0.03	<0.03	<0.03	<0.03	<0.025	<0.0251	<0.025	<0.0279	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0275
Trichloroethene	1.3	8.41	0.0036	<0.041	<0.041	<0.041	<0.041	<0.041	<0.025	<0.025	0.774	0.188	4.57	1.49	0.0322	0.20	0.882	0.265	4.78	0.0411	0.210
1,2,4 -Trimethylbenzene	219	219		0.048 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0454	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5 -Trimethylbenzene	182	182		<0.032	<0.032	<0.032	<0.032	<0.032	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Total Trimethylbenzenes			0.689	0.048	<0.057	<0.057	<0.057	<0.057	<0.050	<0.050	<0.050	<0.050	0.0454	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	260	260	3.96	<0.116	<0.116	<0.116	<0.116	<0.116	<0.0619	<0.0914	<0.0323	<0.101	<0.0708	<0.0564	<0.0288	<0.0658	<0.0655	<0.0736	<0.0699	<0.0644	<0.1

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

--- - no standard established

B - analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

Table 3. Offsite Soil Analytical Results
Former Comedy Club, 612 East Brady Street, Milwaukee, Wisconsin

Sample Identification	Non-Industrial		Protection of	GF	P-50	KB-12A	KE	3-30	KB-31	KB-32	SP	·-11	SP-12	SP-13
Sample Depth (feet bgs)	Direct Contact	Industrial Direct Contact Residual	Groundwater	3'-4'	7'-8'	11'-13'	1'-3'	13'-15'	1'-3'	1'-3'	1-3	7'-9'	8'-10'	7-9
Sample Date	Residual Contaminant	Contaminant	Residual Contaminant	4/1	4/18/18		8/2	3/16	8/23/16	8/23/16	7/17/19		7/17/19	7/17/19
Detected VOCs (mg/kg)	Level	Level	Level				l .							
Benzene	1.6	7.07	0.0051	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0084	<0.0084	<0.0085	<0.0086
Chloroform	0.454	1.98	0.0033	<0.025	<0.0284						<0.021	<0.021	<0.022	<0.022
cis-1,2-Dichloroethene	156	2340	0.0412	<0.025	< 0.0313	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.024	<0.024
1,1-Dichloroethane	5.06	22.2	0.4834	<0.0283	<0.0457	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024
Ethylbenzene	8.02	35.4	1.57	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.011	<0.011	<0.011	<0.011
Isopropylbenzene				NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.023
Naphthalene	5.52	24.1	0.6582	NA	NA	<0.040	<0.025	<0.025	<0.025	<0.025	<0.019	<0.019	0.10B	0.033 J,B
n-Butylbenzene	108	108		NA	NA	<0.025	<0.404	<0.404	<0.404	<0.404	<0.022	<0.022	<0.023	<0.023
n-Propylbenzene	264	264		NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.024
p-Isopropyltoluene	162	162		NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021
sec-Butylbenzene	183	183		NA	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.023	<0.023	<0.023	<0.023
tert-Butylbenzene	145	145		NA	NA	NA	NA	NA	NA	NA	<0.023	<0.023	<0.023	<0.023
Tetrachloroethene	33	145	0.0045	0.228	<0.025	<0.025	<0.025	<0.025	0.067	<0.025	<0.021	<0.021	<0.022	<0.022
Toluene	818	818	1.1072	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0085	<0.0084	<0.0086	<0.0086
trans-1,2-Dichloroethene	1560	1850	0.0626	<0.0267	<0.0431	<0.025	<0.025	<0.025	<0.025	<0.025	<0.020	<0.020	<0.020	<0.021
1,2,4-Trichlorobenzene	24	113	0.408	NA	NA	NA	NA	NA	NA	NA	<0.020	<0.020	0.045 J	<0.020
1,1,1-Trichloroethane	640	640	0.1402	<0.025	<0.0304	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022
Trichloroethene	1.3	8.41	0.0036	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0094	<0.0094	<0.0096	<0.0096
1,2,4 -Trimethylbenzene	219	219		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.021	<0.021	<0.021	<0.021
1,3,5 -Trimethylbenzene	182	182		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.022	<0.022	<0.022	<0.022
Total Trimethylbenzenes			0.689	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.043	<0.043	<0.043	<0.045
Total Xylenes	260	260	3.96	<0.0686	<0.111	<0.025	<0.025	<0.025	<0.025	<0.025	<0.013	<0.013	<0.013	<0.013

 $\textbf{BOLD} \ concentrations \ exceeded \ the \ protection \ of \ groundwater \ residual \ contaminant \ level.$ 

BOXED concentrations exceeded the non-industrial direct contact residual contaminant level

 $\underline{\text{Underlined}} \ \text{concentrations exceed the industrial direct contact residual contaminant level}.$ 

- --- no standard established
- B analyte detected in laboratory method blank

bgs - below ground surface

J - estimated concentration

mg/kg - milligrams per kilogram

NA - not analyted or not available

VOCs - volatile organic compounds

Table 4. Groundwater Analytical Results
1681 North Van Buren Street, Milwaukee, Wisconsin

PARAMETERS	Preventive Action Limits	Enforcement Standards	GP-11/TW-1	MW-1			
Date Collected			5/10/06	6/22/06	11/1/06		
Detected VOCs (μg/l)							
Benzene	0.5	5	<0.20	0.20 J	<0.47		

### Notes:

J - analyte detected between limit of detection and limit of quantitation

 $\mu g/I$  - micrograms per liter

VOCs - volatile organic compounds

Table 5. Sub-slab Vapor and Indoor Air Analytical Results 1681 North Van Buren Street, Milwaukee, Wisconsin

Sample I.D.	0		VS-1	VS-2	VS-3	AS-1	VP-1	VP-2	VP-3	VP-4	IA-1
Sample Type - Sub-Slab (SS)/Near-Slab (NS)	Small Commerical Sub-Slab Vapor	Small Commerical	SS	SS	SS	IA	SS	SS	SS	SS	IA
Duration of Sample Collection (hrs)	Risk Screening	Indoor Air Vapor Action Levels	0.5	0.5	0.5	24	0.5	0.5	0.5	0.5	8
Date Collected	Level	Action Edvoid	10/20/2014	11/17/2015	11/17/2015	11/19/2014	4/28/2019	4/28/2019	4/28/2019	4/28/2019	4/28/2019
Detected VOCs (ug/m³)								•			
Acetone	4,620,000	140,000	NA	NA	NA	23,100	1,340	1,780	971	1,440	40,200
Benzene	528	16	NA	NA	NA	< 0.43	3.0	2.8	2.7	2.3	<0.21
2-Butanone (MEK)	726,000	22,000	NA	NA	NA	<1.0	20.3	65.2	16.0	22.0	802
Carbon disulfide	102,300	3,100	NA	NA	NA	<0.26	< 0.39	2.3	<0.38	2.3	< 0.30
Chloroform	175	5.3	NA	NA	NA	<0.66	3.8	2.4	< 0.34	< 0.35	4.1
Chloromethane	12,870	390	NA	NA	NA	< 0.70	<0.28	<0.28	<0.27	3.7	<0.21
Cyclohexane	858,000	26,000	NA	NA	NA	< 0.46	< 0.63	7.6	6.9	< 0.63	<0.48
Dichlorodifluoromethane	14,520	440	NA	NA	NA	3.2 J	2.5	2.4	< 0.51	2.9	3.0
cis-1,2-Dichloroethene			17	4.3	< 0.43	< 0.72	< 0.39	< 0.39	<0.38	< 0.39	< 0.30
trans-1,2-Dichloroethene			9.0	1.9	< 0.67	<0.60	< 0.51	<0.51	< 0.50	< 0.51	< 0.39
Ethanol			NA	NA	NA	1,510	326	97.2	156	233	1,240
Ethyl acetate	10,230	310	NA	NA	NA	1,980	27.0	28.4	24.6	15.8	2,880
Ethylbenzene	1,617	49	NA	NA	NA	<0.66	7.1	5.7	6.8	5.1	1.8
4-Ethyltoluene			NA	NA	NA	<0.64	2.9 J	4.0 J	4.6	2.1 J	<0.78
n-Heptane			NA	NA	NA	6.5 J	6.0	6.8	6.6	5.1	<0.52
n-Hexane	102,300	3,100	NA	NA	NA	8.1	7.8	10.5	10.8	24.3	119
2-Hexanone	4,290	130	NA	NA	NA	<0.78	<1.3	1.5 J	1.4 J	1.6 J	1.1 J
Methylene Chloride	85,800	2,600	NA	NA	NA	23.2	8.2	11.5	5.6 J	202	13.4
4-Methyl-2-pentanone (MIBK)	429,000	13,000	NA	NA	NA	75.4	5.7 J	2.0 J	6.8 J	1.2 J	11.0
Naphthalene	119	3.6	NA	NA	NA	< 0.95	<2.4	<2.4	2.8 J	<2.4	<1.8
2-Propanol			NA	NA	NA	< 0.34	388	239	205	391	9,490
Styrene	145,200	4,400	NA	NA	NA	<0.50	< 0.62	< 0.62	0.97 J	< 0.62	3.5
Tetrachloroethene	5,940	180	322	347	147	15.8	287	221	49.4	146	72.9
Tetrahydrofuran			NA	NA	NA	<0.51	6.3	266	10.5	69.0	< 0.35
Toluene	726,000	22,000	NA	NA	NA	7.9	11.3	10.2	10.7	10.2	18.0
1,1,1-Trichloroethane	726,000	22,000	NA	NA	NA	<0.51	1.8 J	4.7	<0.54	1.4 J	< 0.42
Trichloroethene	290	8.8	117	44	1.4	< 0.65	23.6	12.9	4.6	8.1	< 0.35
Trichlorofluoromethane	102,300	3,100	NA	NA	NA	<0.51	1.4 J	1.5 J	< 0.64	1.8 J	< 0.50
1,2,4-Trimethylbenzene	1,023	31	NA	NA	NA	< 0.45	11.0	11.7	13.4	7.9	4.6
1,3,5-Trimethylbenzene			NA	NA	NA	<0.76	3.6	< 0.71	3.5	2.4	1.7
m&p-Xylene	14,520	440	NA	NA	NA	<0.51	17.4	14.7	15.8	12.5	4.1
o-Xylene	14,520	440	NA	NA	NA	<1.6	7.1	5.8	6.2	5.1	1.7
		I .	1	1				L			

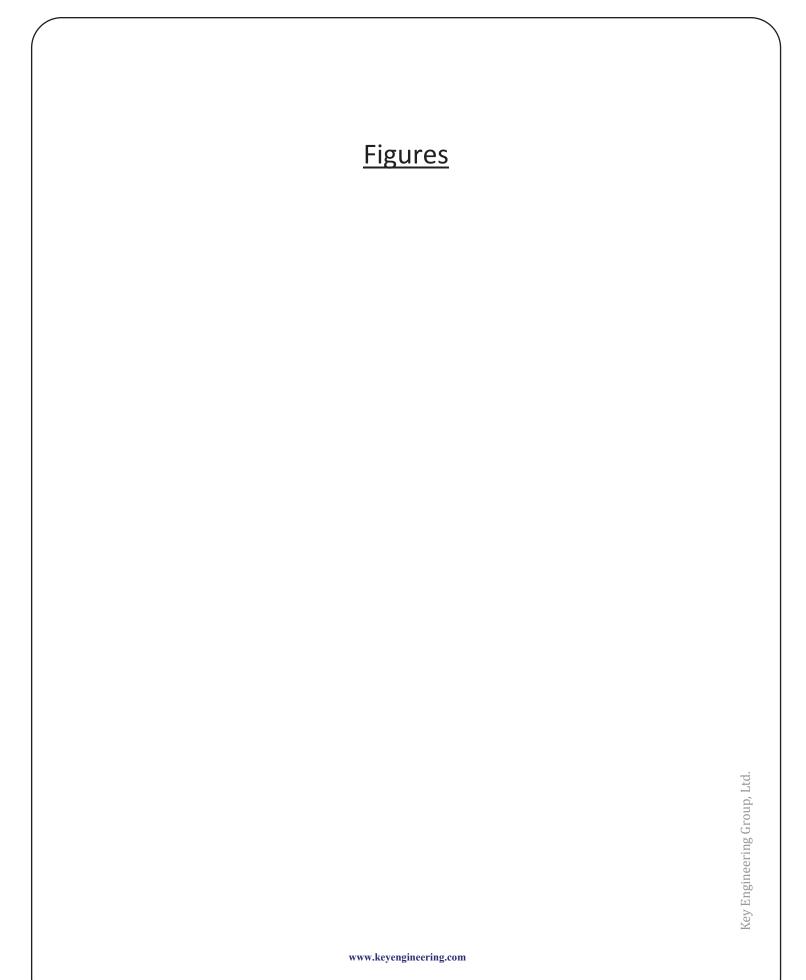
Boxed values exceed indoor air vapor action levels
Bold values exceed sub-slab or near slab vapor risk screening levels
J - Concentration estimated
ug/m3 = Micrograms per cubic meter

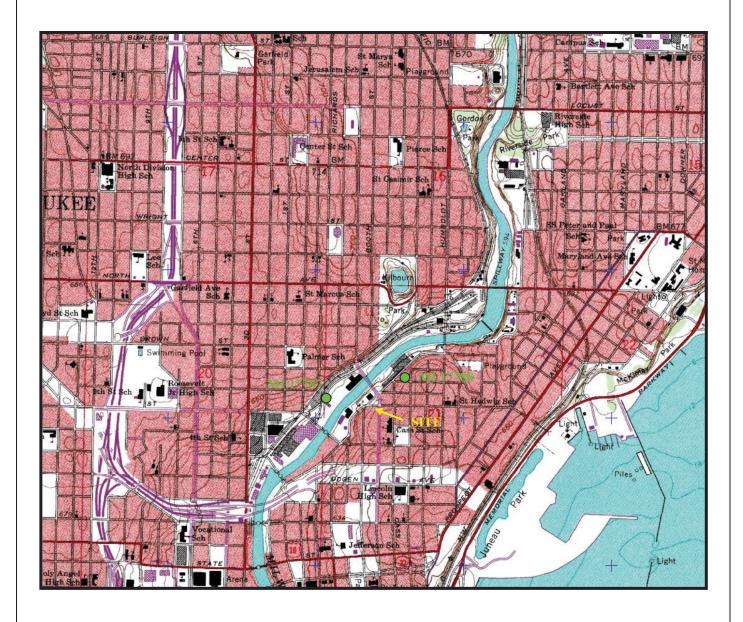
All vapor samples collected into 6 liter Summa canisters

Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), November 2014

Occupational Safety and Health Administration permissible exposure limit for ethyl actetate is 1,400,000 micrograms per cubic meter and found in nail polish remover.

<sup>- -</sup> no target subslab vapor standard established





POTENTIAL WATER SUPPLY WELL



Project: 1604-1011-0002

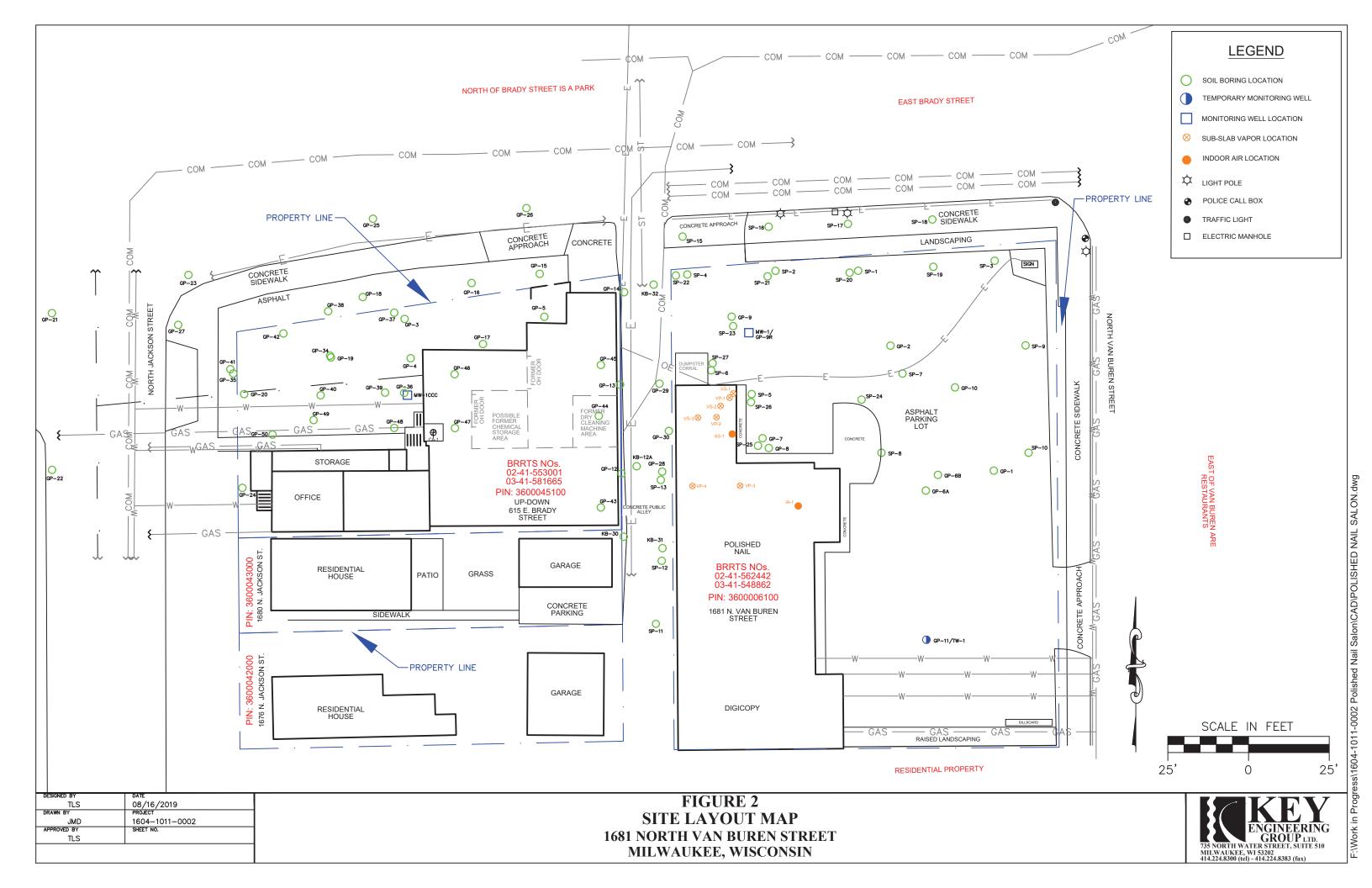
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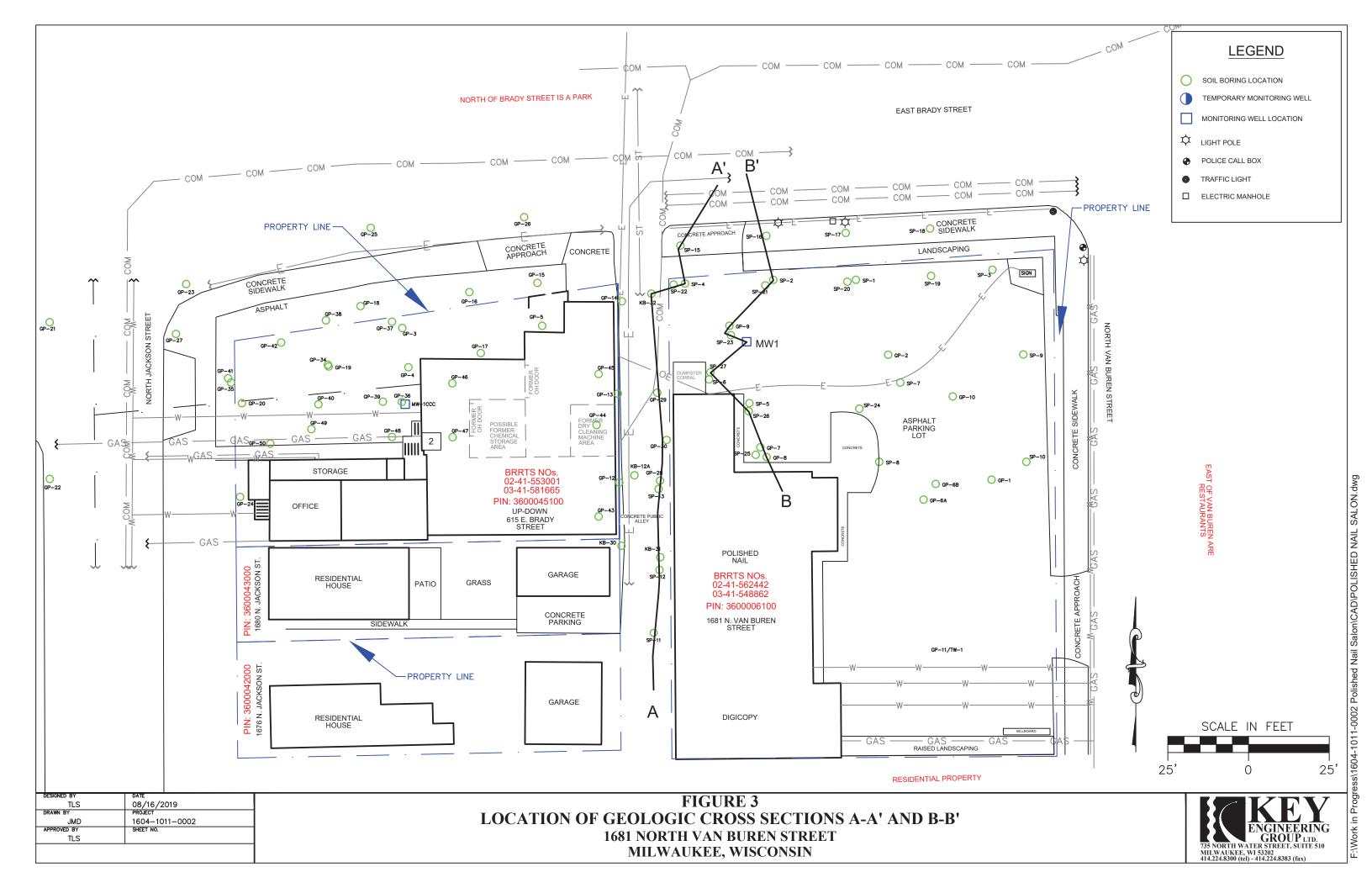
United States Geologic Survey

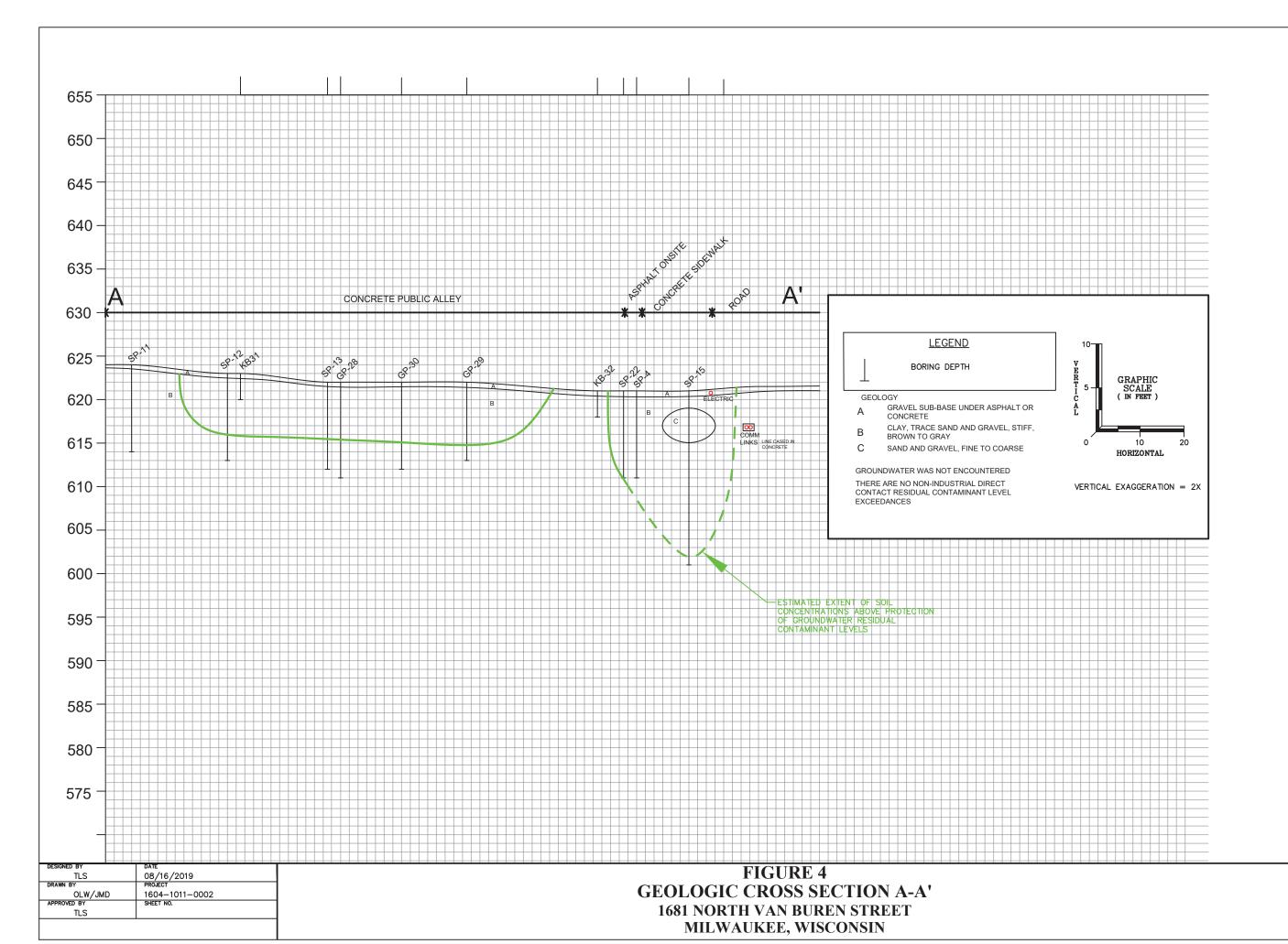
Map Date: 1971

Quadrangle Map: Milwaukee, Wisconsin 7.5 Minute Series FIGURE 1 SITE LOCATION MAP 1681 NORTH VAN BUREN STREET MILWAUKEE, WISCONSIN

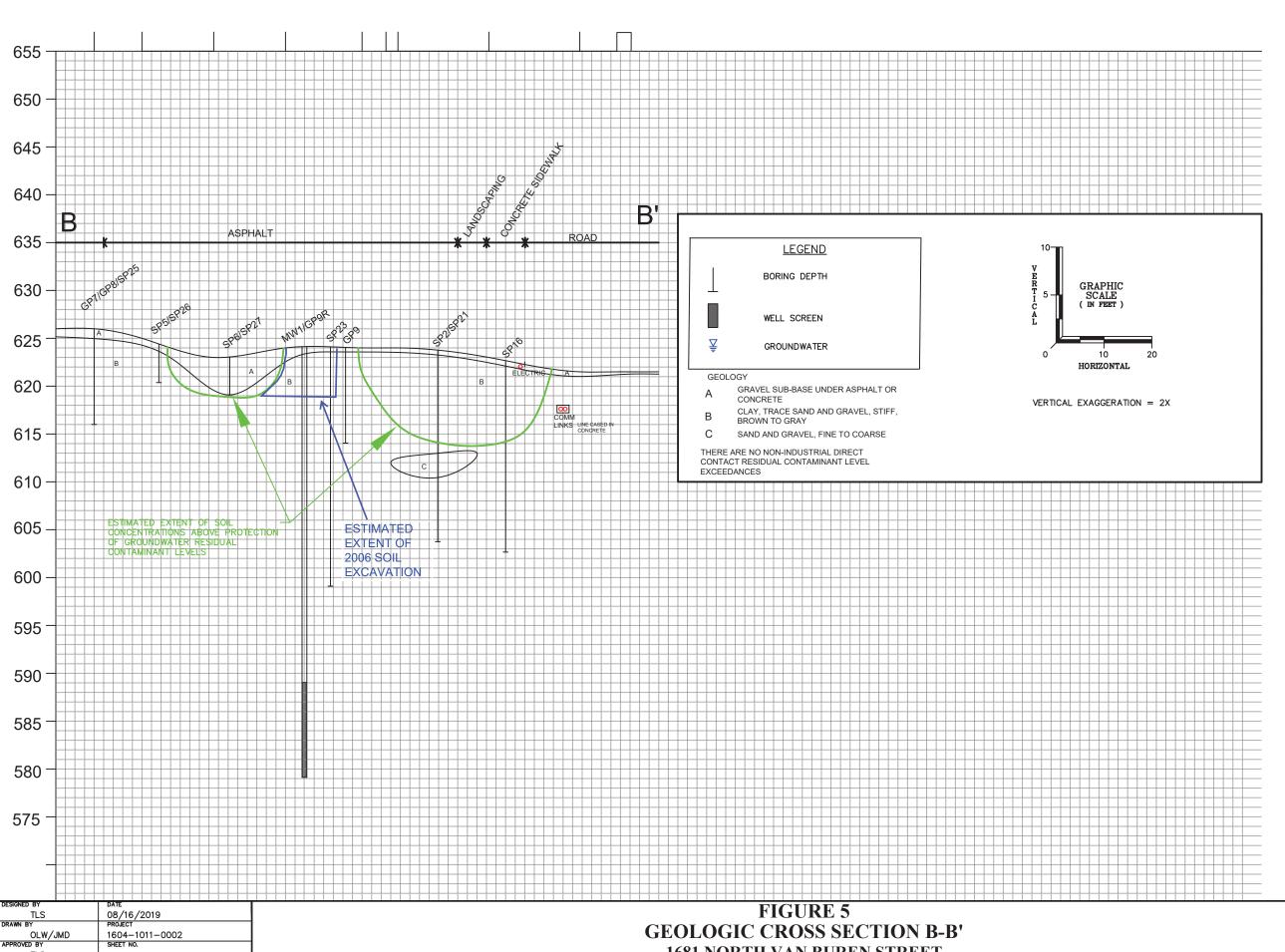






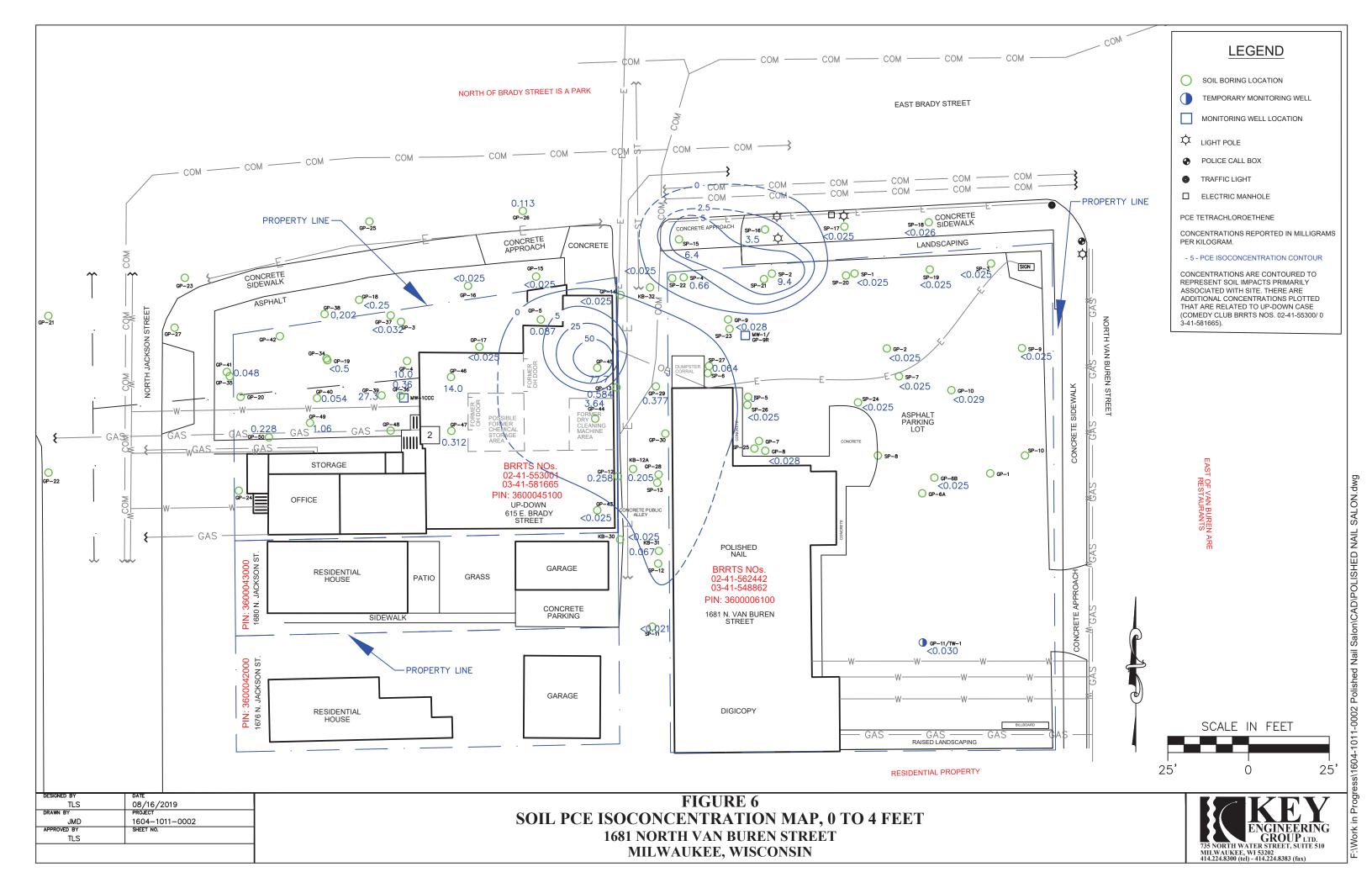


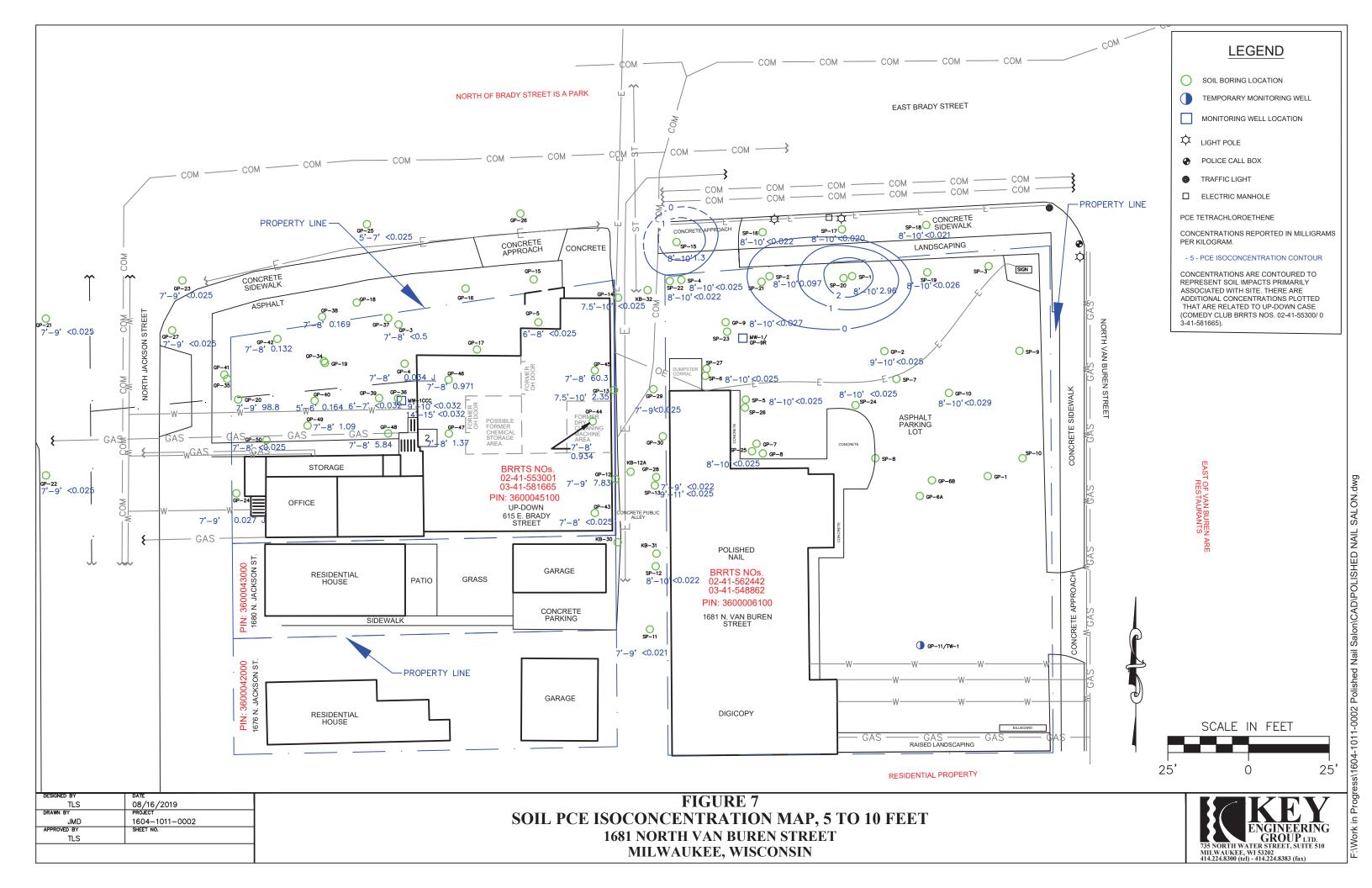


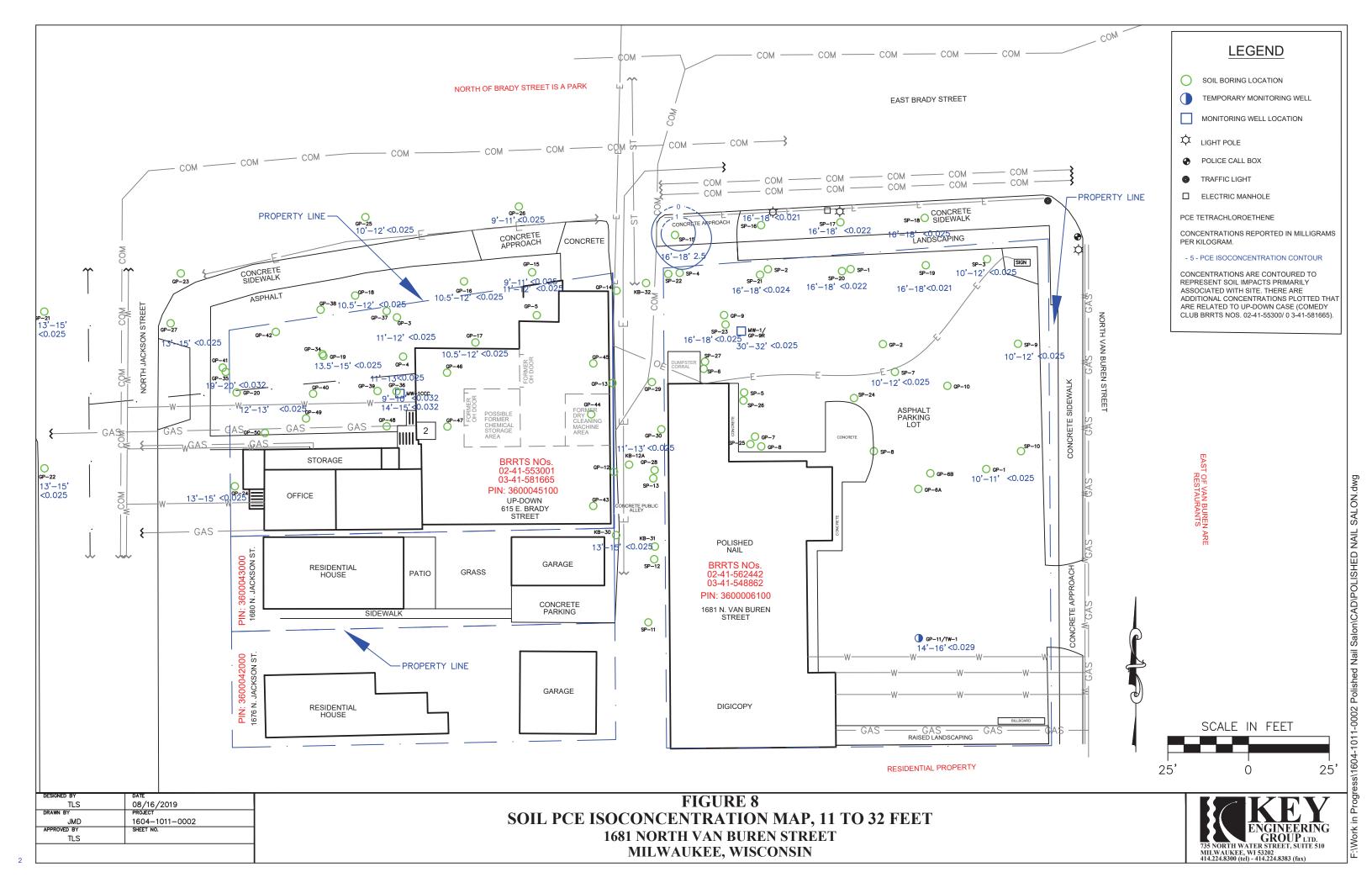


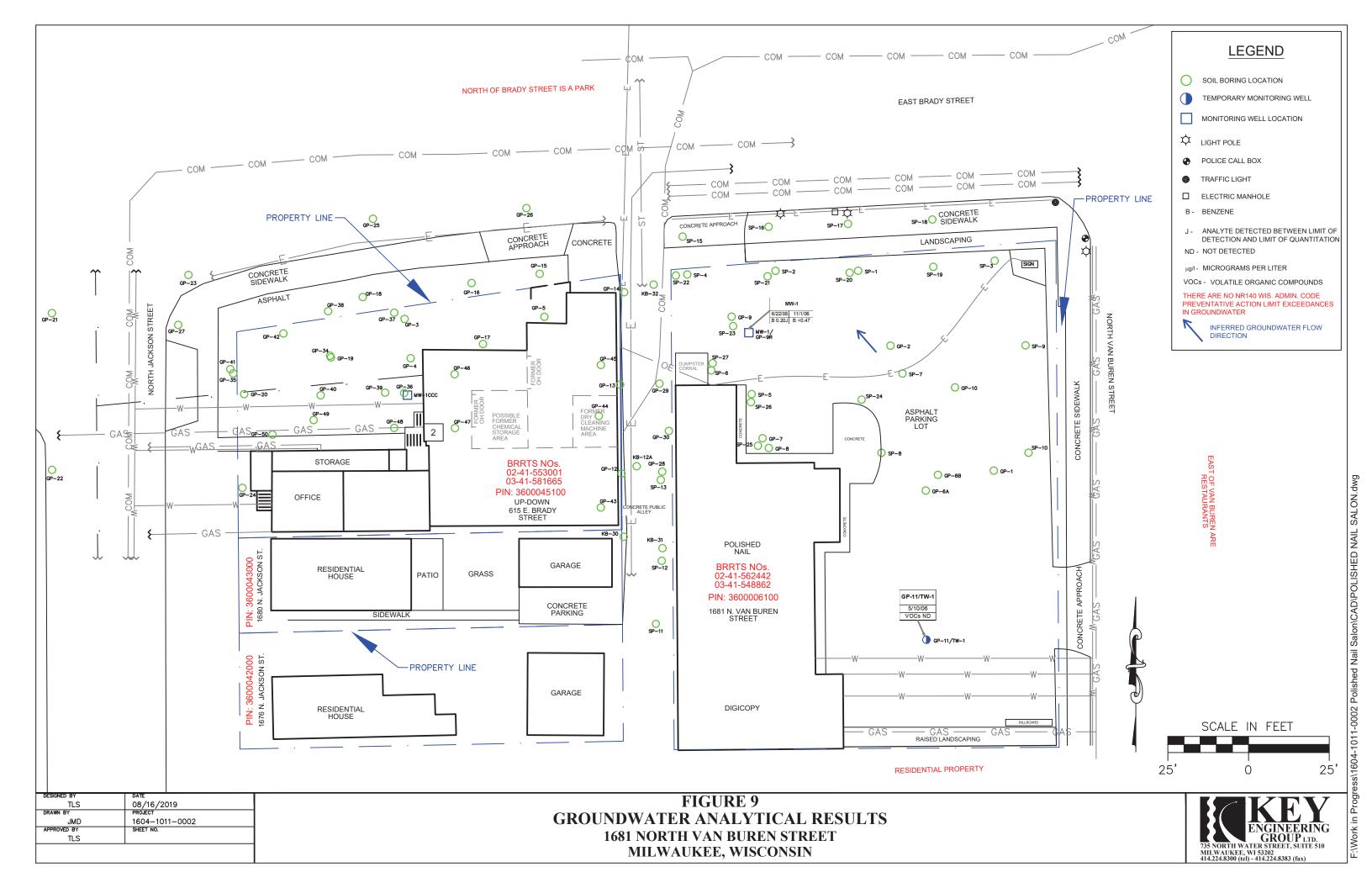


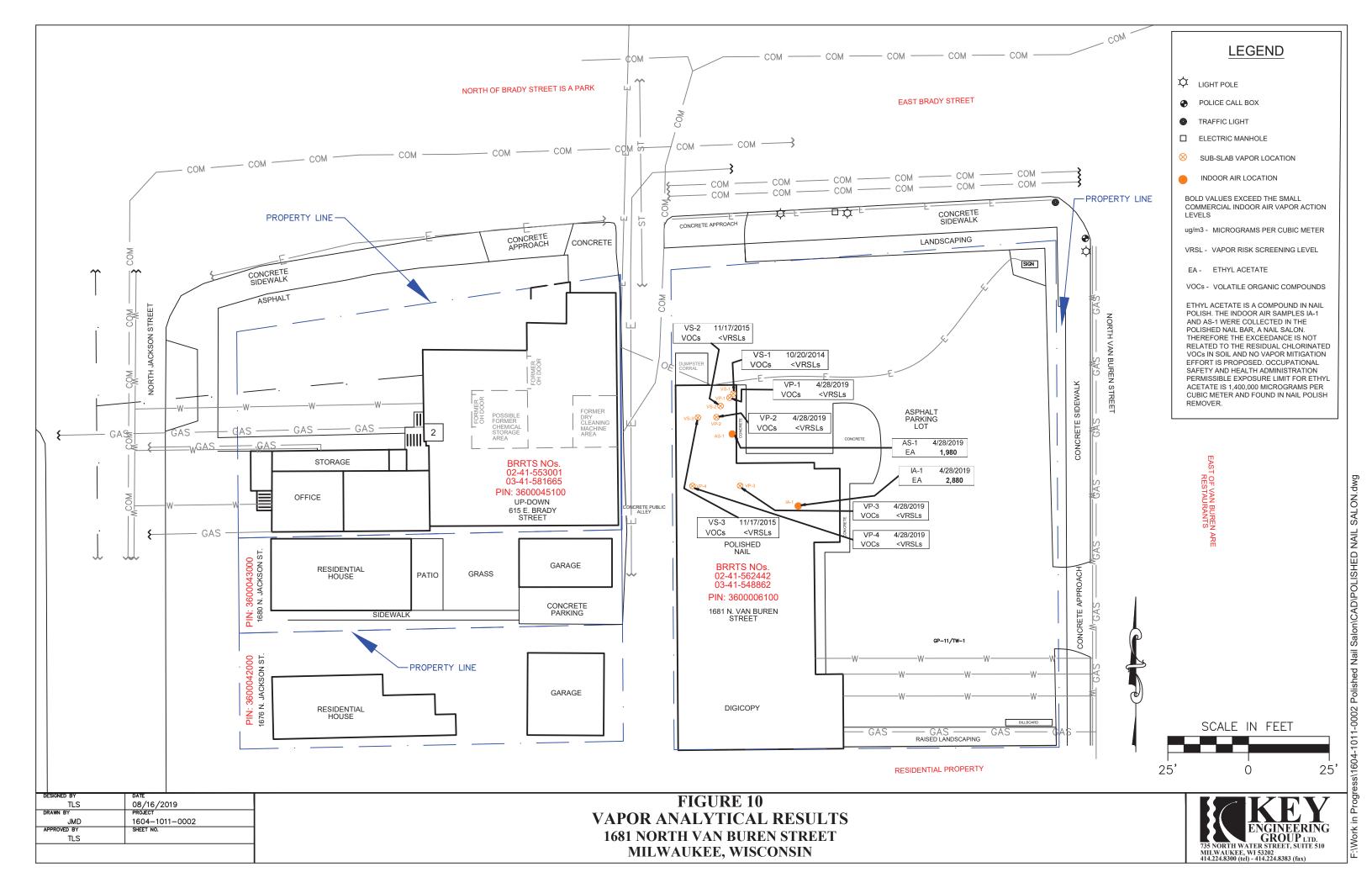


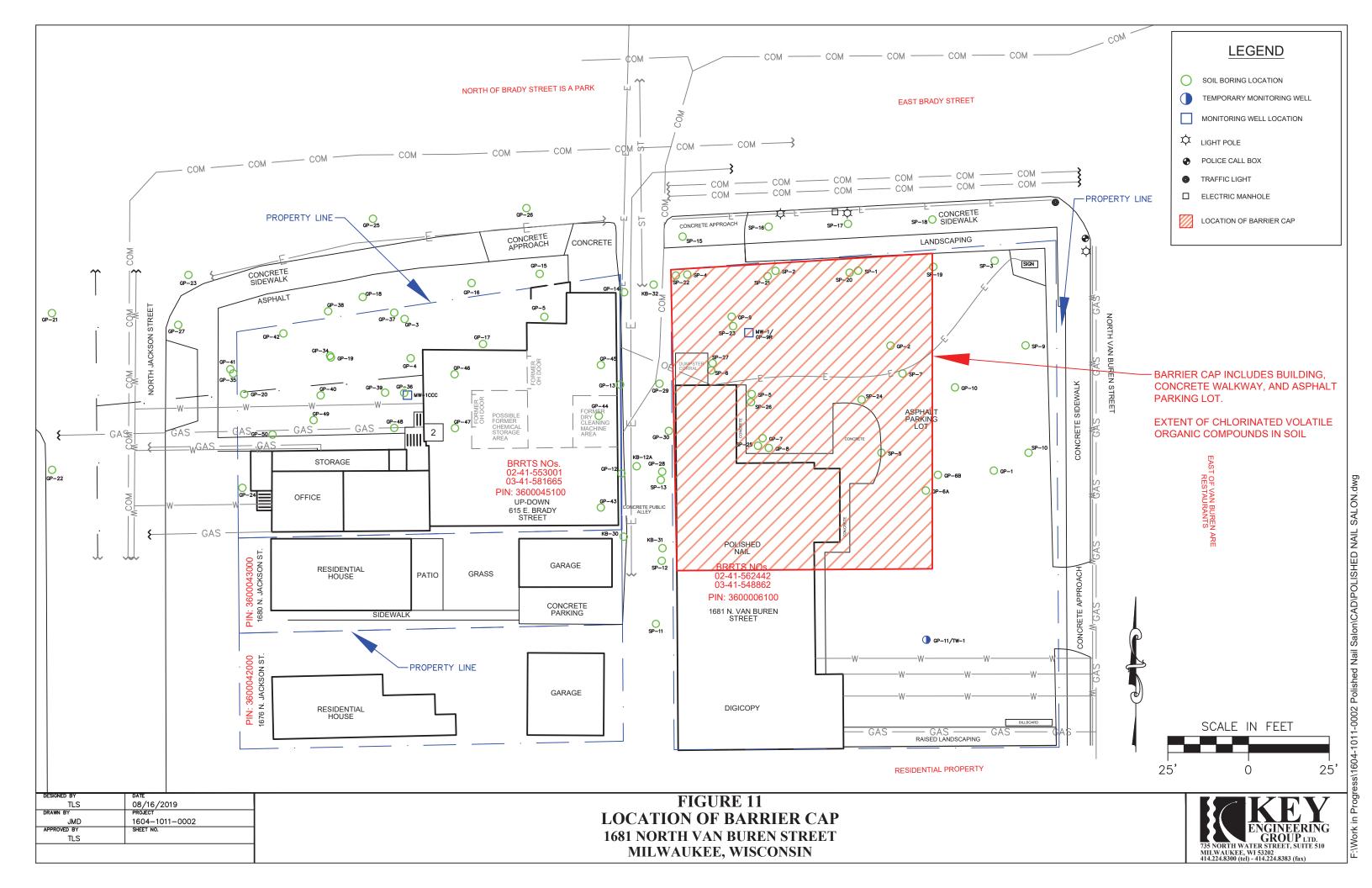












# Appendix 1 Key Engineering Group, Ltd.

### STATE BAR OF WISCONSIN FORM 3 - 2000 QUIT CLAIM DEED

Document Number

This Deed, made between RR 101, LLC, a Wisconsin limited liability Grantor,

company and TR Partners LLC, a Wisconsin limited liability company Grantee.

Grantor quit claims to Grantee the following described real estate in Milwaukee County, State of Wisconsin (if more space is needed, please attach addendum):

All of Lots Three (3), Four (4) and Five (5) and that part of Lot Two (2) in Blook Lettered "B" in HATHAWAY'S SUBDIVISION, in the Southwest One-quarter (1/4) of Section Twenty-one (21), in Township Seven (7) North, Range Twentytwo (22) East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, bounded and described as follows: Commencing at a point in the East line and 2.58 feet South of the Northeast corner of Lot 2; thence South on and along the East line of said Lot 2, 37.42 feet to the Southeast corner of said Lot 2; thence West on and along the South line of said Lot 2, 120 feet to the Southwest corner of said Lot 2; thence North on and along the West line of said Lot 2, 31.15 feet to a point; thence Northeasterly on a line 120.16 feet, more or less, to the point of commencement.

DOC.# 10455800 RECORDED

04/28/2015 02:16PM

JOHN LA FAVE REGISTER OF DEEDS Milwaukee County, WI AMOUNT: \$30.00 TRANSFER FEE: \$3,780.00 FEE EXEMPT #: 0 V
\*\*\*This document has been
electronically recorded and
returned to the submitter. \*\*

Recording Area

Name and Return Address TR Partners LLC. Attn: Randall Roth 770 N. Milwaukee Street Milwaukee, WI 53202

360-0006-100-4 Parcel Identification Number (PIN) This is not homestead property.

Together with all appurtenant rights, title and interests. RR 101, L/I Dated this 24th day of April , 2015. \*By Randall Roth, Sole Member ACKNOWLEDGMENT AUTHENTICATION STATE OF Wisconsin Signature(s) authenticated this 2015 Personally came before me this 24 day of April the above named Randall Roth to me known to be the person who executed the foregoing instrument and TITLE: MEMBER STATE BAR OF WISCONSIN acknowledged the same. (If not, \_\_\_\_ authorized by § 706.06, Wis. Stats.) THIS INSTRUMENT WAS DRAFTED BY Ryan H. Wolter, Esq. Notary Public, State of Wisconsin (Signatures may be authenticated or acknowledged, Both are not necessary.) My Commission is permanent. (If not, state expiration date: April 26, 2019.)

\*Names of persons signing in any capacity must be typed or printed below their signature.

# Appendix 2 Key Engineering Group, Ltd.

				MINI & 2 PASA	17
SITE NAME:	Former G	10 va	-กกว้ ร	,	V
BRRTS #:				341143220	
COMMERCE # (if appropriate):			017 - 83A	21119220	
CLOSURE DATE:	5000		2008		_
STREET ADDRESS:	1683 Van		en st		
CITY:	Milwauk				
		-ELL_	53702		
SOURCE PROPERTY GPS COOF WTM91 projection):	RDINATES (meters in	X= _	690720	Y= <u>288795</u>	_
CONTAMINATED MEDIA:	Groundwater		Soil	Both	
OFF-SOURCE GW CONTAMINAT	ΓΙΟΝ >ES:	Y	'es	No	
IF YES, STREET ADDRESS 1:					
GPS COORDINATES (meters in W	/TM91 projection):	X= _		Y=	_
OFF-SOURCE SOIL CONTAMINA	TION >Generic or Site-				
Specific RCL (SSRCL):		Υ	'es	No	
IF YES, STREET ADDRESS 1:				<del></del>	
GPS COORDINATES (meters in W	/TM91 projection):	X=		Y=	
CONTARINATION IN DIGHT OF	N/ A X/-			No	_
CONTAMINATION IN RIGHT OF \	WAY:	Y	es	INO	
DOCUMENTS NEEDED:	alacura lattar ar danial latta	r igguad			
Closure Letter, and any conditional of Copy of any maintenance plan refere					ĺΣ.
Copy of (soil or land use) deed notic			neura		NA
Copy of most recent deed, including					×
_		-	•		
Certified survey map or relevant port County Parcel ID number, if used for	tion of the recorded plat ma county, for all affected pro	perties	nced in the legal descripti ろんの ーのの に ー	ion) for all affected properties しのの~4	
Location Map which outlines all properties	s within contaminated site bounds	aries on US	GS topographic map or plat	map in sufficient detail to permit the	
parcels to be located easily (8.5x14" if paper wells within 1200' of the site.	copy). If groundwater standards	are exceed	ded, the map must also inclu	ude the location of all municipal and potable	; X
Detailed Site Map(s) for all affected p potable wells. (8.5x14", if paper copy) This the source property and in relation to the bougeneric or SSRCLs.	map shall also show the location	of all contai	minated public streets, high	way and railroad rights-of-way in relation to	4 8
Tables of Latest Groundwater Analyt	ical Results (no shading or	cross-hat	tching)		N/A
Tables of Latest Soil Analytical Resu	`	٠,			B B
Isoconcentration map(s), if required a extent of groundwater contamination defined				•	VX
GW: Table of water level elevations, GW: Latest groundwater flow directing greater than 20 degrees)	• -	-	-	num variation in flow direction is	NA
SOIL: Latest horizontal extent of co	ntamination exceeding gene	eric or SS	RCLs, with one contou	ır	X
Geologic cross-sections, if required to	,				1/1/2
RP certified statement that legal desc	riptions are complete and a	accurate			1 × 1

Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)

Copies of off-source notification letters (if applicable)



# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Matthew J. Frank, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Headquarters 2300 N. Dr. Martin Luther King, Jr. Drive Milwaukee, Wisconsin 53212-3128 FAX 414-263-8606 Telephone 414-263-8500 TTY Access via relay - 711

January 31, 2008

Mr. Randy Roth Endeavour Project Development 770 North Milwaukee Street Milwaukee, WI 53244

Subject: Final Case Closure and NR 140 Exemption for the Former Giovanni's Property, 1683 North Van Buren Street, Milwaukee, WI

FID: 341143220

BRRTS: 03-41-548862 PECFA: 53202-2017-83

Dear Mr. Roth:

On January 25, 2008, the Department of Natural Resources ("the Department") reviewed your request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On September 19, 2007, Key Engineering submitted a request for case closure for the above named site.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

### **GIS** Registry

The conditions of case closure set out below in this letter require that your site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- If a structural impediment that obstructs a complete site investigation or cleanup is removed or modified, additional environmental work must be completed
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the state must approve any changes to this barrier

Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at: http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry because of



remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

## Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you or the current property owner and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

## Remaining Residual Soil Contamination

Residual soil contamination remains at the locations indicated on the enclosed Figure 4, and associated data from Tables 1 and Table 1 (continued) as information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

### Structural Impediments

Structural impediments existing at the time of cleanup, the onsite building, made complete investigation and remediation of the soil contamination on this property impracticable. Pursuant to s. 292.12(2)(b), Wis. Stats., if the structural impediments on this property that are described above are removed, the property owner shall conduct an investigation of the degree and extent of petroleum contamination. If contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly remediated in accordance with applicable statutes and rules. If soil in the specific locations described above is excavated, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

### Cover or Barrier

Pursuant to s. 292.12(2)(a), Wis. Stats., the asphaltic concrete pavement and Portland cement concrete sidewalk areas that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

The attached maintenance plan and inspection log are to be kept up-to-date and on-site, and the inspection log need only be submitted to the Department upon request.

### Prohibited Activities

The following activities are prohibited on any portion of the property where [pavement, a building foundation, soil cover, engineered cap or other barrier] is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources:

1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

### Vapor Migration

In addition, depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

### Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates exceedances of the ch. NR 140, Wis. Adm. Code, preventative action limit, for benzo(b)flouranthene at groundwater monitoring well MW-1 (see Figure 4). The Department may grant an exemption for a substance of public welfare concern, or nitrate, pursuant to s. NR 140.28(3)(a), Wis. Adm. Code, if actions have been taken to achieve the lowest possible concentration for that substance which is technically and economically feasible and the existing or anticipated increase in the concentration of that substance does not present a threat to public health or welfare.

Based on the information you provided, the Department believes that the above criteria have been or will be met because of the soil excavation and depth of the groundwater at this location (40 feet bgs). Therefore, pursuant to s. NR 140.28(3)(a), Wis. Adm. Code, an exemption to the preventative action limit for benzo(b)flouranthene at MW-1, This letter serves as your exemption.

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment Program Assistant Vicky Stovall (414-263-8688) at the above address.

Sincerely,

James A. Schmidt

Remediation and Redevelopment Team Supervisor

Southeast Region

Enclosures:

Figure 4, Soil Excavation Areas, Key Environmental

Table 1, Summary of Soil Sample Analytical Results

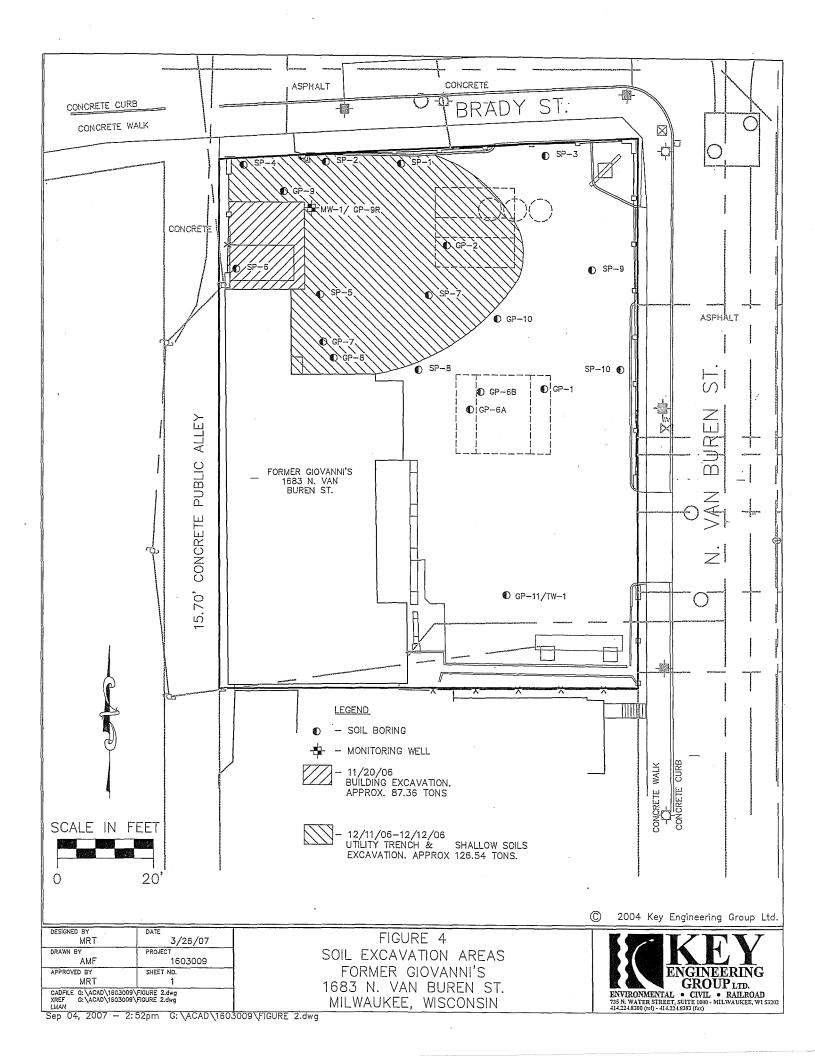
Table 1 (continued), Summary of Soil Sample Analytical Results

Cap Maintenance Plan, 7 pages

C:

Michael Treazise, Key Engineering

WDNR SER Files



### TABLE 1

### SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

### FORMER GIOVANNI'S

1683 North Van Buren Street Milwaukee, Wisconsin

	7				<del></del>	SA	AMPLE IDE	NTIFICATI	ON						GENE	RIC RCLs
															PROTECTION OF	DIRECT CONTACT
PARAMETERS	GP-1	GI	2-2	GP-6B	GP-7	GP-8	GF	9-9	GP-9R	GP	-10	GP	-11	Pile (3)	GROUNDWATER	(NON-INDUSTRIAL)
Date Collected .	11/7/05	11/7/05	11/7/05	11/7/05	11/7/05	5/10/06	5/10/06	5/10/06	6/15/06	5/10/06	5/10/06	5/10/06	5/10/06	11/9/06		
Depth (feet bgs)	10-11	3-4	9-10	3-4	3-4	3-4	2-4	8-10	30-32	2-4	8-10	2-4	14-16			
Bulk Dry Density (lbs/ft3)			-													
GRO														9.0		
TPH DRO														410		
Detected VOCs (μg/kg)																
Benzene	<25	39	<25	<25	<25	<28	<28	180	<25	<29	<29	<30	<29	<150	5.5 (1)	
sec-Butylbenzene	<25	117	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
tert-Butylbenzene	<25	430	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	460	300	<25	<29	<29	<30	<29	320		
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	470	<27	<25	<29	<29	<30	<29	<150		
Ethylbenzene	<25	2,550	<25	<25	<25	<28	<28	310	<25	<29	<29	<30	<29	<150	2,900 (1)	
Isopropylbenzene	<25	284	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
p-Isopropyltoluene	<25	57	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Naphthalene	<25	1,100	<25	<25	<25	<55	<56_	<54	<25	<58	230	<59	<59	<300		
n-Propylbenzene	<25	1,090	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Tetrachloroethene	<25	<25	<25	<25	51 J	<28	<28	<27	<25	<29	<29	<30	<29	13,000		
Toluene	<25	170	<25	<25	<25	<28	<28	140	<25	<29	<29	<30	<29	<150	1,500 (1)	
Trichloroethene	<25	<25	<25	<25	<25	<28	110	490	<25	<29	<29	<30	<29	1,500		
1,2,4-Trimethylbenzene	<25	5,200	29 J	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
1,3,5-Trimethylbenzene	<25	1,120	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Vinyl Chloride	<25	<25	<25	<25	<25	<39	<39	82	<25	<29	<29	<30	<29	<210		
Xylenes	<75	5,300	<75	<75	<75	<94	<96	150	<25	<41	<41	<41	<29	<510	4,100 (1)	
Detected PAHs (µg/kg)																
Acenaphthene	<17	357 J	<17	<17	441		<56	<54	<17	<58	<59	<59	<59		38,000 (2)	900,000 (2)
Anthracene	<11	678	<11	<11	1,830		87	<5.4	<11	12	<5.9	<5.9	9.9		3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	<12	920	<12	<12	3,650		410	<5.4	22 J	36	16	<5.9	15		17,000 (2)	88 (2)
Benzo(a)pyrene	<8.1	539	<8.1	<8.1	3,160		430	<5.4	13 J	37	15	<5.9	8.2		48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	<7.5	1,170	<7.5	<7.5	4,230		310	<5.4	15 J	35	15	<5.9	8.5		360,000 (2)	88 (2)
Benzo(g,h,i)perylene	<8,5	433	<8.5	<8.5	1,780		250	<5.4	14 J	18	17	<5.9	6.6		6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	<14	513	<14	<14	1,180		220	<5,4	<14	21	10	<5.9	<5.9		870,000 (2)	880 (2)
Chrysene	<20	1,140	<20	<20	2,450		370	<5.4	<20	37	16	<5.9	12	Ī.	37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	<11	<110	<11	<11	245		60	<8.1	<11	<8.8	<8.8>	<8.9	<8.8>		38,000 (2)	8.8 (2)
Fluoranthene	<7.4	3,020	<7.4	<7.4	7,780		650	30	24	130	50	16	68		500,000 (2)	600,000 (2)
Fluorene	<9.5	408	<9.5	<9.5	386		19	<11	<9.5	<12	<12	<12	<12		100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	<9.5	300	<9.5	<9.5	1,250		290	<5.4	<9.5	31	14	<5.9	<5.9		680,000 (2)	88 (2)
1-methyl naphthalene	<11	4,850	<11	<11	<55		<34	<32	<11	<35	<35	<35	<35		23,000 (2)	1,100,000 (2)
2-methyl naphthalene	<12	10,500	<12	<12	<60		120	<27	<12	43	<19	<30	<29		20,000 (2)	600,000 (2)
Naphthalene	<17	15,300	<17	<17	<85		<34	<32	<17	<35	<35	<35	<35		400 (2)	20,000 (2)
Phenanthrene	<8.9	1,890	<8.9	<8.9	4,110		230	23	23 J	110	37	12	86		1,800 (2)	18,000 (2)
Pyrene	<11	2,470	<11	<11	6,080		490	<5,4	24 J	85	32	10	28		8,700,000 (2)	500,000 (2)

### Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact Boxed concentrations exceed generic RCL for protection of groundwater

- --- not analyzed or no standard established

- --- not analyzed or no standard established

  (1) NR 720 generic RCLS

  (2) Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).

  (3) A sample was collected from soil excavated from the northwest corner of the parking lot.

  (4) This boring was discontinued after 1.5 feet, due to contact with a solid surface. The boring was subsequently abandoned. bgs below ground surface
- J analyte detected between limit of detection and limit of quantitation
- lbs/ft3 pounds per cubic foot
- PAHs polynuclear aromatic hydrocarbons RCL residual contaminant level

- μg/kg micrograms per kilogram VOCs volatile organic compounds

### TABLE 1 (CONTINUED)

### SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

FORMER GIOVANNI'S 1683 North Van Buren Street Milwaukee, Wisconsin

<u> </u>																					GENE	RIC RCLs
1															I						PROTECTION OF	DIRECT CONTACT
PARAMETERS	SP	ч	SF	2-2	SF	-3	SF	2-4	SF	2-5	SF	P-6	SP	-7	SI	2-8	SF	P-9	SP	-10	GROUNDWATER	(NON-INDUSTRIAL)
Date Collected	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06		
Depth (feet bgs)	2-4	8-10	2-4	8-10_	2-4	10-12	2-4	8-10	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	10-12	2-4	8-10		
Bulk Dry Density (lbs/ft3)																						
Detected VOCs (µg/kg)																						
Benzene	550	107	<25	<25	<25	<25	<25	<25	<125	221	<25	<25	<25	<25	<u> </u>		<25	<25			5.5 (1)	
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	25.6 J	<25	<25	<25	<25			<25	<25				
tert-Butylbenzene	<25	<25	<25	<25	<25	<25	<26	<25	<125	<25	<25	<25	<25	<25			<25	<25				
cis-1,2-Dichloroethene	<25	283	43 J	<25	<25	<25	87	58 J	<125	<25	35 J	<25	<25	<25			<25	<25		1		***
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25			<25	<25		-		
Ethylbenzene	1,270	<25	<25	<25_	<25	<25	<25	<25	<125	5,900	<25	<25	<25	<25			<25	<25			2,900 (1)	
Isopropylbenzene	50 J	<25	<25	<25	<25	<25	<25	<25	<125	730	<25	<25	<25	<25			<25	<25		1		
p-Isopropyltoluene	196	<25	<25	<25_	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25			<25	<25				
Naphthalene	600	<25	47 J	<25	<25	63	<25	<25	<125	580	<25	<25	<25	<25			<25	<25				
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	1,630	<25	<25	<25	<25			<25	<25				
Tetrachloroethene	<25	2,960	9,400	97	<25	<25	660	<25	16,900	<25	4,000	<25	<25	<25			<25	<25				
Toluene	26.8 J	<25	<25	88	<25	<25	<25	<25	<125	168	<25	<25	<25	<25			<25	<25			1,500 (1)	
Trichloroethene	<25	1,090	400	<25	<25	<25	308	87	<125	<25	110	<25	<25	<25			<25	<25				
1,2,4-Trimethylbenzene	156	<25	25.9 J	<25	<25	<25	<25	<25	<125	3,300	<25	<25	<25	<25			<25	<25	_=_			
1.3,5-Trimethylbenzene	25.5 J	<25	<25	<25	<25	<25	<25	<25	<125	380	<25	<25	<25	<25			<25	<25				
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25	_=_		<25	<25			<del></del>	
Xylenes	548 J	<75	<75	57 J	<75	<75	<75	<75	<375	2,590	<75	<75	<75	<75			<75	<75			4,100 (1)	
Detected PAHs (μg/kg)					<u> </u>	00.1					<17	447	<17	<17		29 J	<17	<17	<17	-47	50,000 (0)	000 000 (0)
Acenaphthene	499	<17	<17	<17	<17	30 J <19	<17 <19	<17 <19	44 J 82	<17 <19	<19	<17 <19	<19	<19	<17	<19 <19	<19	<19	<19	<17 <19	38,000 (2)	900,000 (2)
Acenaphthylene	<19	<19	<19	<19	<19 <11	100	<11	<11	116	<11	16 J	<11	<11	<11	<11	46	17 J	<11	<11	35	3.000.000 (2)	5 000 000 (0)
Anthracene	441	11 J	11 J	<11 <12	40	291	34 J	20 J	598	<12	62	<12	<12	<12	<12	63	74	<12	<12	65	17,000 (2)	5,000,000 (2)
Benzo(a)anthracene	532 690	18 J 10 J	52	<8.1	47	325	31	15 J	935	<8.1	87	<8.1	<8.1	<8.1	<8.1	60	97	<8.1	<8.1	83	48.000 (2)	8.8 (2)
Benzo(a)pyrene	920	14 J	72	<7.5	64	518	49	31	1,530	18 J	158	8.5 J	<7.5	<7.5	7.9 J	128	150	<7.5	15 J	172	360,000 (2)	88 (2)
Benzo(b)fluoranthene Renzo(g.h.i)perviene	560	20 J	110	<8.5	29	288	30	20 J	1,090	18 J	98	<8.5	<8.5	<8.5	<8.5	58	80	<8.5	<8.5	76	6.800,000 (2)	1.800 (2)
	303	<14	26 J	<14	24.1	176	21 J	<14	554	<14	51	<14	<14	<14	<14	32 J	47	<14	<14	59	870,000 (2)	880 (2)
Benzo(k)fluoranthene Chrysene	739	21 J	55 J	<20	50 J	401	43 J	34.1	907	21 J	107	<20	<20	<20	<20	152	123	<20	<20	158	37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	119	<11	21 J	<11	<11	60	<11	<11	181	<11	<11	<11	<11	<11	<11	<11	12 J	<11	<11	19 J	38,000 (2)	8.8 (2)
Fluoranthene	1.700	49	103	<7.4	98	877	79	84	1,450	26	167	17.1	8.1 J	<7.4	17 J	469	244	8.3 J	18 J	377	500,000 (2)	600,000 (2)
Fluorene	358	<9.5	<9.5	<9.5	<9.5	30 J	<9.5	<9.5	30 J	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	34	<9.5	<9.5	<9.5	18 J	100,000 (2)	600,000 (2)
Indeno(1.2.3-cd)pyrene	389	13 J	52	<9.5	20 J	245	20 J	13 J	606	<9.5	63	<9.5	<9.5	<9.5	<9.5	35	46	<9.5	<9.5	53	680,000 (2)	88 (2)
1-methyl naphthalene	669	<11	<11	<11	<11	12 J	<11	<11	14 J	<11	<11	<11	<11	<11	<11	43	<11	<11	<11	<11	23,000 (2)	1,100,000 (2)
2-methyl naphthalene	703	<12	<12	<12	<12	<12	<12	<12	14 J	<12	<12	<12	<12	<12	<12	68	<12	<12	<12	<12	20,000 (2)	600,000 (2)
Naphthalene	2.960	<17	<17	<17	<17	<17	<17	<17	<17	372	<17	<17	<17	<17	<17	24 J	<17	<17	<17	<17	400 (2)	20,000 (2)
Phenanthrene	1,680	60	52	22 J	43	470	43	66	232	31	72	22 J	9.0 J	11 J	18 J	430	139	9.1 J	11 J	252	1,800 (2)	18,000 (2)
Prenanthrene	1,590	41	87	<11	92	684	68	61	1,140	20 J	131	14 J	<11	<11	12 J	303	214	<11	14 J	259	8,700,000 (2)	500.000 (2)
Litetie	1,000				<u> </u>	<del>/</del>	<u> </u>								-				-			

### Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact Boxed concentrations exceed generic RCL for protection of groundwater

--- not analyzed or no standard established

(1) - NR 720 generic RCLS

(1) - NK /2U generic RCLS

(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected). bgs - below ground surface

J - analyte detected between limit of detection and limit of quantitation lbs/fi<sup>3</sup> - pounds per cubic foot

PAHs - polynuclear aromalic hydrocarbons RCL - residual contaminant level

μg/kg - micrograms per kilogram VOCs - volatile organic compounds

### CAP MAINTENANCE PLAN

Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin
BRRTS #: 03-41-548862
FID #: 341143220

This Cap Maintenance Plan shall be applicable to the parcel of Property depicted on the site location map included as Figure 1, and depicted on the site layout map included as Figure 2, and a copy of this Cap Maintenance Plan shall be maintained on file in the offices of the owner of the Property, RR 101 LLC & EK 101 LLC or its successor(s) in interest (the "Owner"), and any company that is retained to manage the Property on behalf of the Owner (the "Property Manager").

The Cap on the Property includes the following: Asphaltic concrete pavement and Portland cement concrete sidewalk areas.

### INSPECTION

Inspect paved and unpaved areas of the Property to ensure that the integrity of the cover in the unpaved areas is maintained and that no significant fissures or cracks develop in the paved areas. Inspections shall be semi-annual for the first two years, then annual thereafter.

Prepare a brief inspection report that documents the date of the inspection, the individual(s) conducting the inspection, any observed disturbance of the cover in the unpaved areas, and any significant cracking observed in the paved areas. A cap inspection form is included as Attachment I. Maintain a copy of the inspection report, with a copy of this Cap Maintenance Plan, to be made available to representatives of the Wisconsin Department of Natural Resources (WDNR), upon reasonable request.

### REPAIR CAPPED AREAS

If, during the annual inspection, the soil cover in unpaved areas is observed to have been disturbed or significant cracking is observed in paved areas, the Owner shall arrange to have repairs made to such areas, in a manner consistent with this Cap Maintenance Plan. Such repairs shall be carried out within six months. A cap maintenance log is included as Attachment 2 to document any maintenance or repairs of the paved and capped areas.

### MODIFICATION TO CAPPED AREAS

The following steps shall be taken if Owner plans to remove, replace or repair pavement or perform activities that would penetrate below the Cap into the contaminated soils below the Cap (i.e., install or replace trees, shrubs, fencing, retaining walls or buildings):

- The contractor performing the work shall be provided with a copy of this Cap Maintenance Plan and shall prepare a *Health and Safety Plan (HASP)*, to protect workers from exposure to contaminated soils.
- Separate excavated material (or granular layer materials where they exist) so that they may be replaced upon completion of the work. Excavation into the contaminated soils beneath the Cap shall be conducted in accordance with the *HASP*, and any excavated contaminated soils shall be segregated and kept on site, in conformance with the requirements of Chapter NR 718, Wisconsin Administrative Code, until completion of the work.

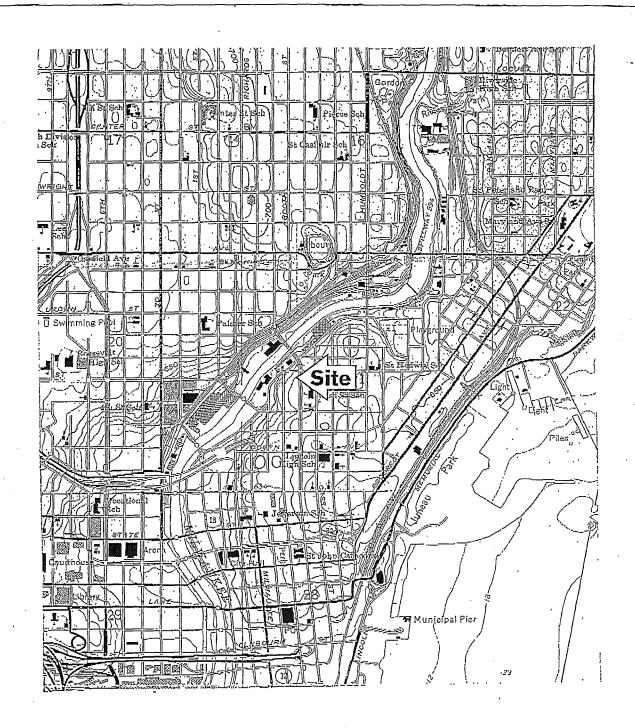
- Upon completion of the work, place previously excavated contaminated soils back into the excavation, but only to the extent such replacement does not interfere with the replacement and maintenance of the Cap, and does not constitute a violation of Wisconsin hazardous waste management law (Chapter 291, Wisconsin Statutes).
- Any remaining contaminated soils that cannot be replaced in the excavation shall be properly characterized and disposed of at an appropriately licensed facility.
- Prepare a brief report documenting the work performed, identifying the person(s) performing the work, and verifying that this Cap Maintenance Plan was adhered to. Maintain report on file (to be made available to WDNR, upon reasonable request).

### UTILITY REPAIRS

No underground utility repairs or installation of new or replacement utilities shall be conducted on the Property until after the utility and any contractor(s) for the utility have acknowledged receipt of a copy of this Cap Maintenance Plan.

- The underground utility repairs or installation(s) shall be conducted in accordance with the methods above with respect to excavations into unpaved and paved areas.
- If the underground utility repairs or installation(s) involve any disturbance of the material used to scal the soils on the property, such Material shall be replaced with new seals of like or superior quality.
- Prepare a brief report documenting the work performed, identifying the person(s) performing the work, and verifying that this *Cap Maintenance Plan* was adhered to. Maintain report on file (to be made available to WDNR, upon reasonable request).

\\Keydc01\vol1\MRT\ENVIRO PROJECT\$\\\603009 - Gtovannts\\1603009 cap maintenance plan.rtf



SOURCE:

USGS

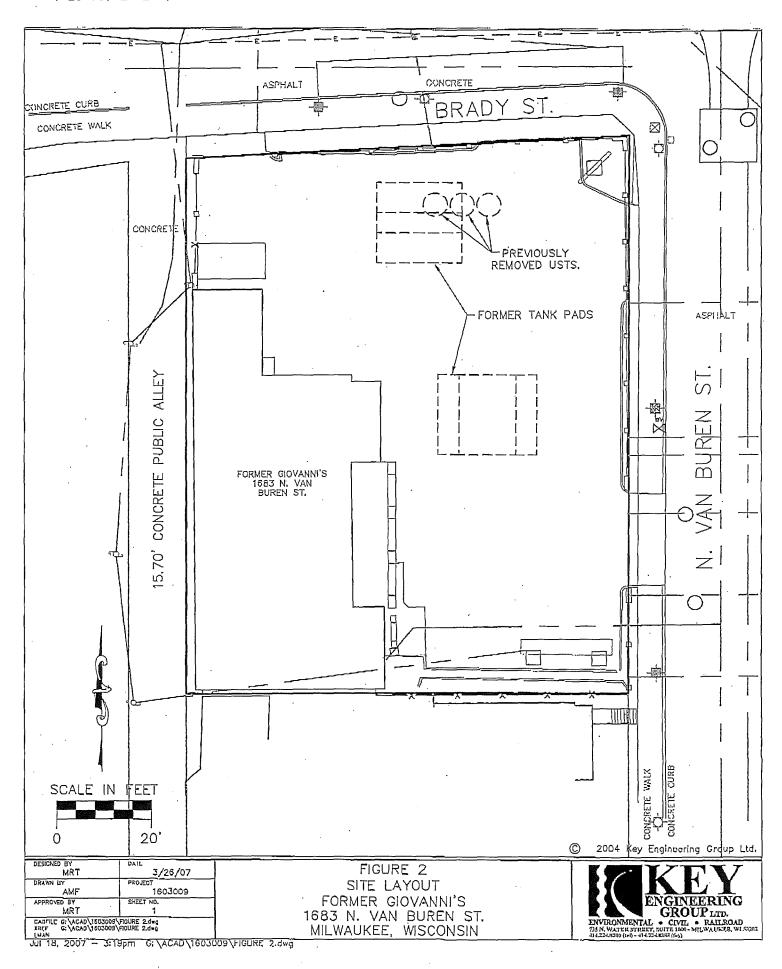
Milwaukee, Wisconsin 7.5 Minute Series Quadrangle Map 1958, Photorevised 1971

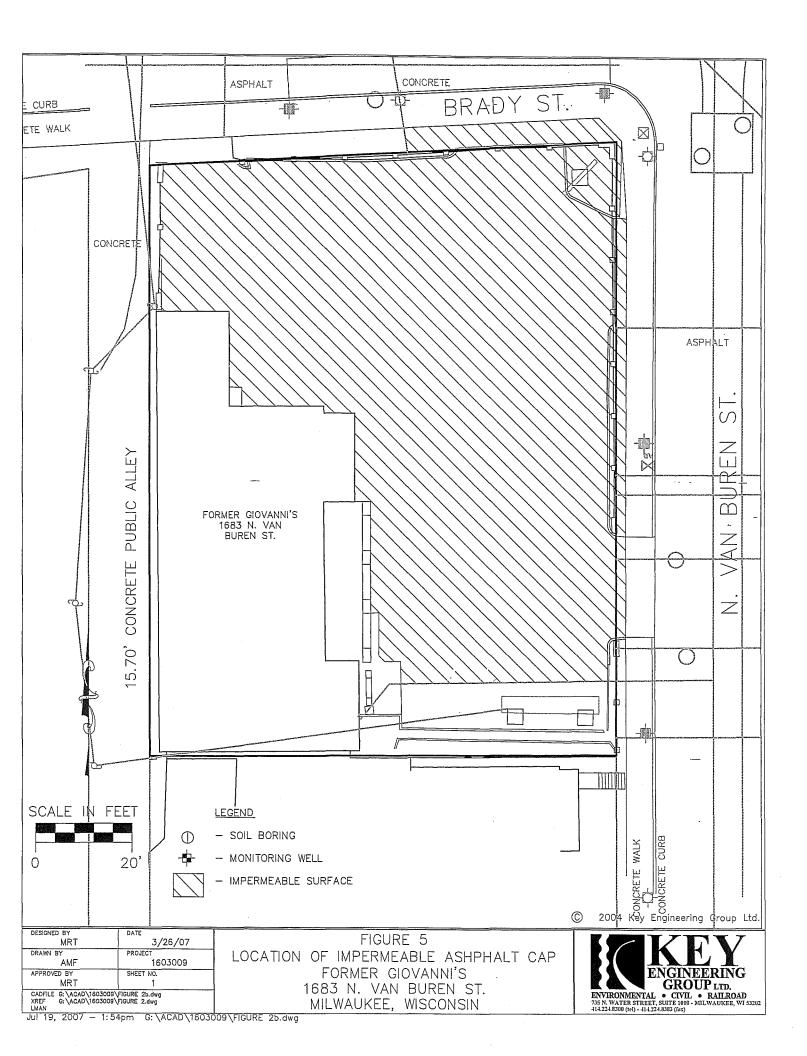


UBSIGNED UY MRT	DATU 01/04/09
DRAWN DY	PROJECT
	1603009
APPROVED BY MRT	SHEET NO.
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FIGURE I SITE LOCATION MAP FORMER GIOVANNI'S 1683 NORTH VAN BUREN STREET MILWAUKEE, WISCONSIN







# Attachment I CAP INSPECTION FORM

Former Giovanni's
1683 North Van Buren Street
Milwaukee, Wisconsin
BRRTS #: 03-41-548862
FID #: 341143220

### ASPHALT COVER:

INSPECTION CRITERIA	COMMENTS	MAINTENANCE ACTION REQUIRED
Significant Cracking		
Evidence of Ponding (standing water, discoloration, sedimentation)		
Stonn Water Drainage		·

### LANDSCAPED AREA COVER:

INSPECTION CRITERIA	COMMENTS	MAINTENANCE ACTION REQUIRED
Evidence of Erosion		
Evidence of Ponding		
Vegetation Loss		
Limitations to Observation:		

# Attachment 2 CAP MAINTENANCE LOG

Former Giovanni's 1683 North Van Buren Street Milwaukee, Wisconsin BRRTS #: 03-41-548862 FID #: 341143220

Repair / Maintenance Description:		Date of Discovery:
·		
		,
Contractor / Individual Performing F	Repairs:	Date of Repair:
Inspector Name (Print)	Inspector Signature	Date of Inspection:
Donald (Maintanana Dumini	· .	Data of Digaryany
Repair / Maintenance Description:	•	Date of Discovery:
Contractor / Individual Performing F	Panalya	Date of Repair:
Contractor / marviatian renoming r	cepans.	Date of Repair.
		•
Inspector Name (Print)	Inspector Signature	Date of Inspection:
		<u></u>
Repair / Maintenance Description:		Date of Discovery:
	•	
	•	
Contractor / Individual Performing I	Repairs:	Date of Repair:
1		
Inspector Name (Print)	Inspector Signature	Date of Inspection:
200.10.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		

### State Bar of Wisconsin Form 1 - 2003 WARRANTY DEED

Document Number

Document Name

THIS DEED, made between GIOVANNI SAFINA	AND ROSA SAFINA	
("Granto	"," whether one or more),	
and RR 101, LLC, an undivided 50% int		
101, LLC, an undivided 50% interest,		
	e," whether one or more).	
Grantor, for a valuable consideration, conveys to described real estate, together with the rents, pro appurtenant interests, in MILWAUKEE  Wisconsin ("Property") (if more space is needed, pleated and that part Block "B", in Hathaway's Subdivision Southwest 1/4 of Section 21, Town 7  East, in the City of Milwaukee, Counstate of Wisconsin, bounded and describulows: Commencing at a point in the 2.58 feet South of the Northeast conthence South on and along the East 12, 37.42 feet to the Southeast corner thence West on and along the South 12, 120 feet to the Southwest corner thence North on and along the West 12, 31.15 feet to a point; thence North commencement.  Grantor warrants that the title to the Property is good, municipal and zoning ordinances and for the distribution of utility and restrictions and covenants; general Data September 1, 2006	Grantee the following offis, fixtures and other County, State of ase attach addendum): of Lot 2, in the North, Range 22 ty of Milwaukee, wibed as a East line and the fixed Lot 2; ine of said Lot of said Lot of said Lot 2; ine of said Lot of said Lot theasterly on a the point of indefeasible in fee simp agreements entered municipal services taxes levied in the county of the extends of the exten	Recording Area  Name and Return Address Attorney Victor A. Kronis Mawicke & Goisman, S.C. 1509 North Prospect Avenue Milwaukee, WI 53202  360-006-100-4  Parcel Identification Number (PIN) This is not homestead property. (is) (is not)  de and free and clear of encumbrances except: ed under them; recorded easements es; recorded building and use the year of closing; encroachment etent of 0.6 inches upon the
Francis Alachy Mat	A emises	on the South by a fence located ncipally on the subject premises
*Giovanni Safina	*	
Brown Shine	(SEAL)	(SEAL)
*Rosa Safina AUTHENTICATION	*	ACKNOWLEDGMENT
Signature(s)	STATE	OF WISCONSIN )
		) ss. -WAUKEECOUNTY)
authenticated on		
	Personal	ly came before me on <u>SPT 1, 2006</u> , e-named GYONANNI SAFWA AND
*		
		OSA SAFINA
TITLE: MEMBER STATE BAR OF WISCONSIN (If not,	to me foregoin	known to be the person(s) who executed the g instrument and acknowledged the same.
authorized by Wis. Stat. § 706.06)		
THIS INSTRUMENT DRAFTED BY:	_ <i>Th</i> _	- J. Dehmal Bit
Attorney Martin J. Greenberg	My Com	Public, State of Wisconsin M. J. (2718)
(Signatures may be automated form. ANY BWARRANTY DEED S	thenticated or acknowledged. MODIFICATIONS TO THIS TATE BAR OF WISCONSIN	Both are not necessary. FORM SHOULD BE CLEARLY IDENTIFIED.

Type name below signatures.

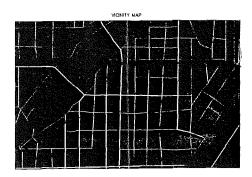
Greenberg & Hoeschen 3127 W Wisconsin Ave, Milwaukee WI 53208-3957

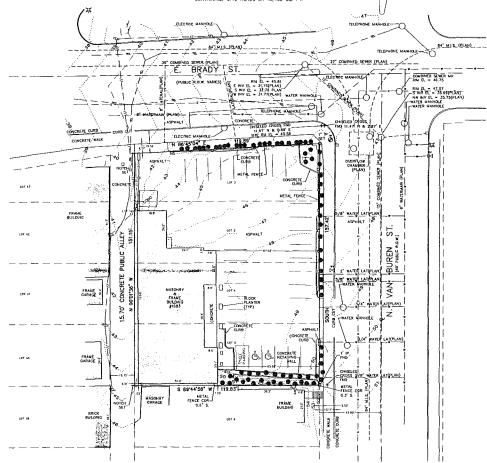
Greenberg & Hoeschen, LLC

Produced with ZipForm™ by RE FormsNet, LLC 18025 Filteen Mila Road, Clinton Township, Michigan 48035

www.zipform.com

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- I. SUBJECT PROPERTY ZONED: LB2\_LOCAL BUSINESS INSTRICT DISTRICT.
- 2. SETBACK BUSSED ON COTY OF ULFAUNCE ZONING COOR AND ARE AS FOLLOWS, FRONT SETBACK. UNIT NORMACE SECONDARY, UNIT NORM

LEGAL DESCRIPTION OF SUBJECT PROPERTY IS BASED ON CHICAGO TITLE INSURANCE COMPANY COMMITMENT NO. 12123210 EFFECTIVE DATE OF MARCH 8, 2006.

4. THE UNDERGROUND UPLITY REGRUATION AS SHOWN HEREON IS BASED, IN PART, ON REFORMATION FURNISHED BY THE UTILITY COMPANIES, DISCRIS HOTHINE AND THE LOCAL MUNICIPALITY, WHILE THIS WERGHATION IS BELIEVED TO BE RELIBEL ITS ACCURACY AND COMPLETENESS CANNOT BE CHARANTEED FOR CERTIFIED TO.

5. SUBJECT PROPERTY LIES IN ZONE C AND IS NOT IN THE 100 YEAR FLOCO PLAIN PER FLOCO INSURANCE RATE WAP ~ COMMUNITY PANEL (\$50278 0004 8, EFFECTIVE DATE MARCH 1, 1982. 9. BUILDING CONTAINS 18,482 SQUARE FEET.

- B. PROJECT BENCHWARK CITY OF WILWAUKEE STANDARD BENCHWARK NO. 46, EL = 46,564

THERE ARE NO PLOTTABLE EXCEPTIONS LISTED IN THE SUPPLIED TITLE COMMITMENT.

Tol Free (800) 242-8511 Mitwaukee Area (414) 259-1181 Hearing Impaired TOD (800) 542-2289 www.Diggerel-foline.com

LEGEND

EBSING MATER VAN

C UIDERGROUND GAS SEPWEL

NI UIDERGROUND TELPHONE SEWGE

CIV UIDERGROUND CABLE TY STAVEF

UTLITY POLE

| IN ELECTRIC METER
| CABLE TV PEDESTAL
| TELEPHONE PEDESTAL
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UNDERGROUND ELECTRIC SERVICE OVERHEAD UTILITY UNES

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4-6 DATE





NO.	DESCRIPTION	DATE	BY	DHS	DATE 4	-6-06
		├		DRAWN BY	DATE	
				DHS APPROVED BY	DATE 4	-6-06
			-	MJB		-6-06
				CADFLE XREF		
				INAN		i

### ALTA/ACSM LAND TITLE SURVEY ENDEAVOUR PROJECT DEVELOPMENT, LLC MILWAUKEE, WI

ENGINEERING GROUP LID. ( 2005 Key Engineering Group Ltd.

C-1

1603009 PROJECT SCALE

1" = 20' SUCCT NINUSCO

Reference:

Geographic Information System Registry

Former Giovanni's

1683 North Van Buren Street Milwaukee, Wisconsin 53202

To Whom it May Concern:

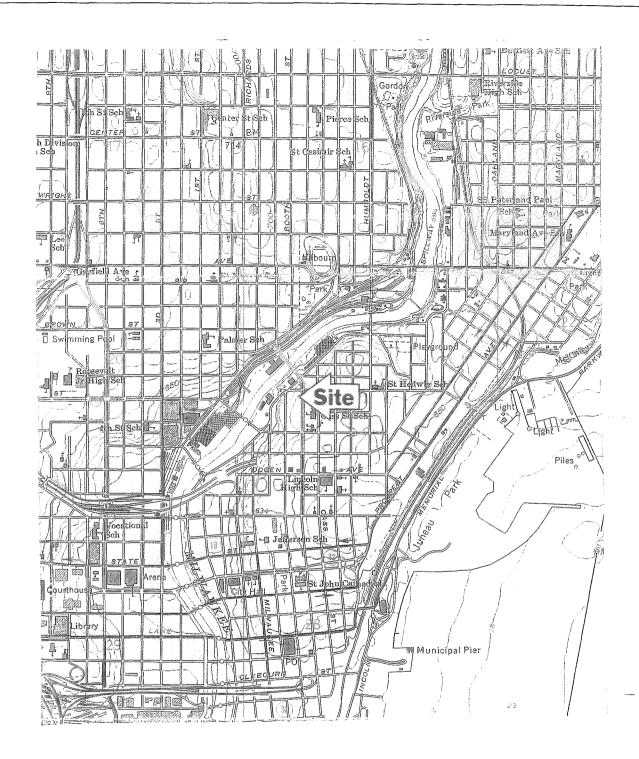
I, Randy Roth of RR 101 LLC & EK 101 LLC, representative of the responsible party do hereby declare to the best of my knowledge that the attached legal property description represents completely and accurately the above reference property for which I am requesting listing on the Wisconsin Department of Natural Resources Geographic Information System Registry of Closed Remediation Sites.

Please find a copy of the legal description as stated in the property deed for the above

reference property.

Signed:

Randy Roth, RR 101 LLC & EK 101 LLC.



SOURCE: USGS

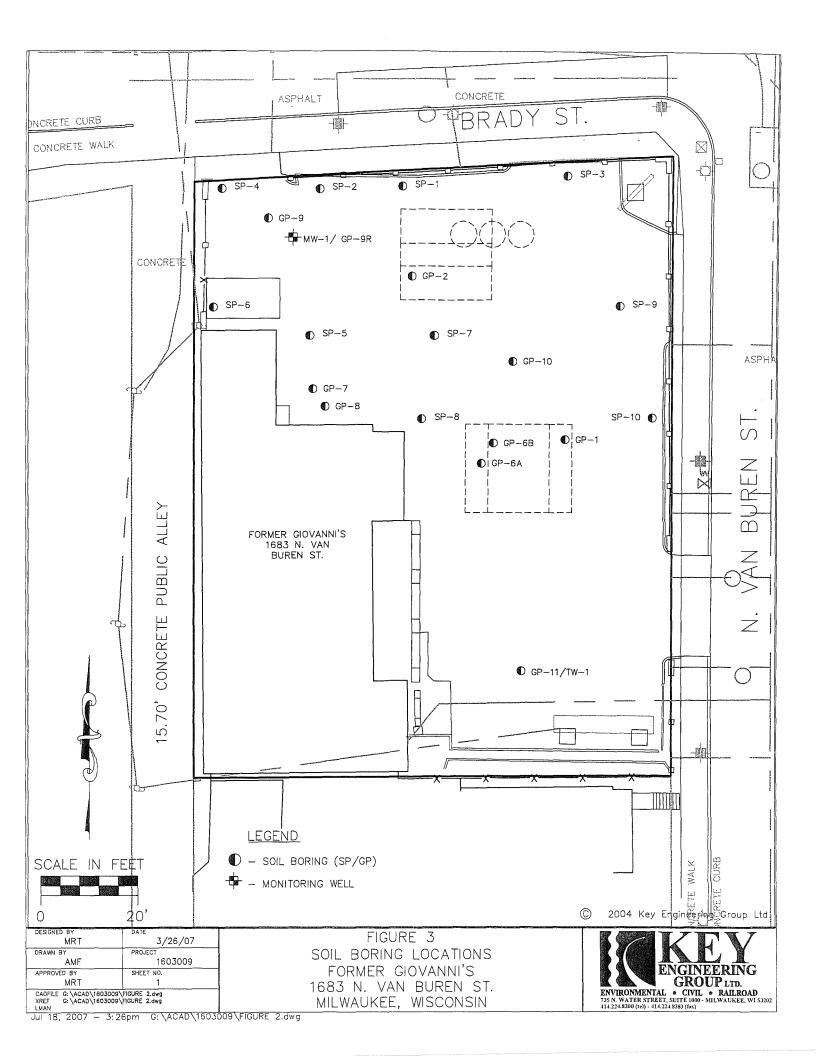
Milwaukee, Wisconsin 7.5 Minute Series Quadrangle Map 1958, Photorevised 1971

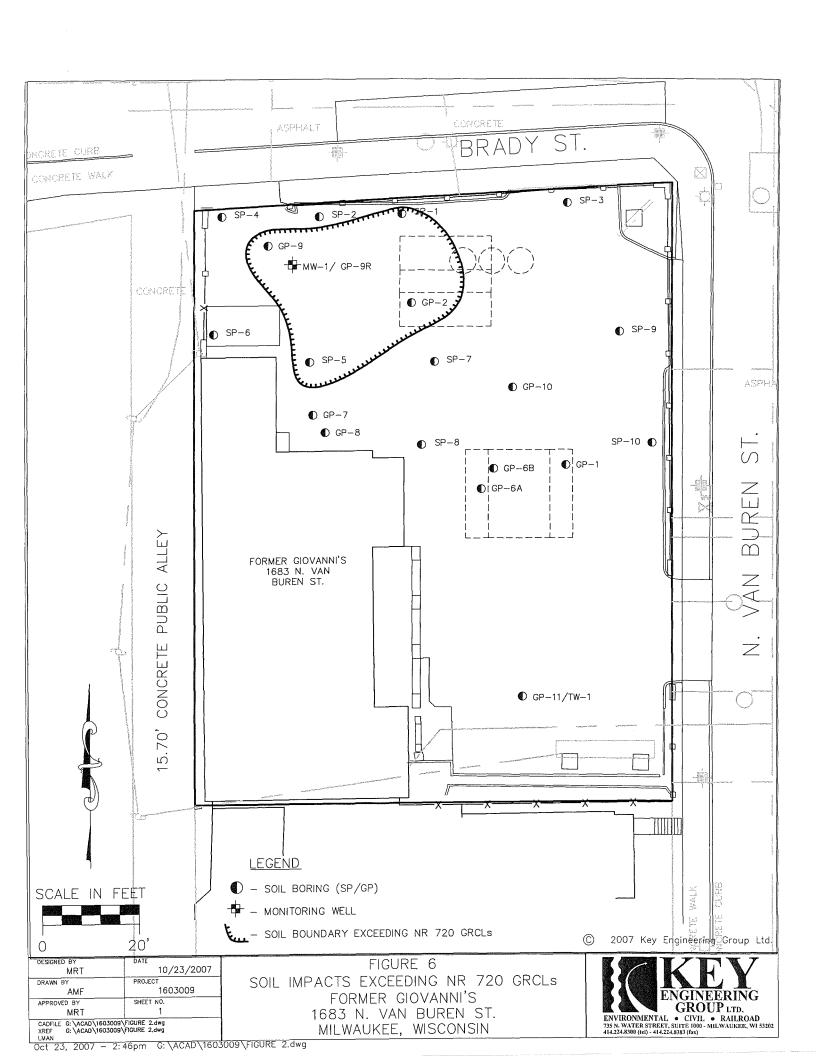


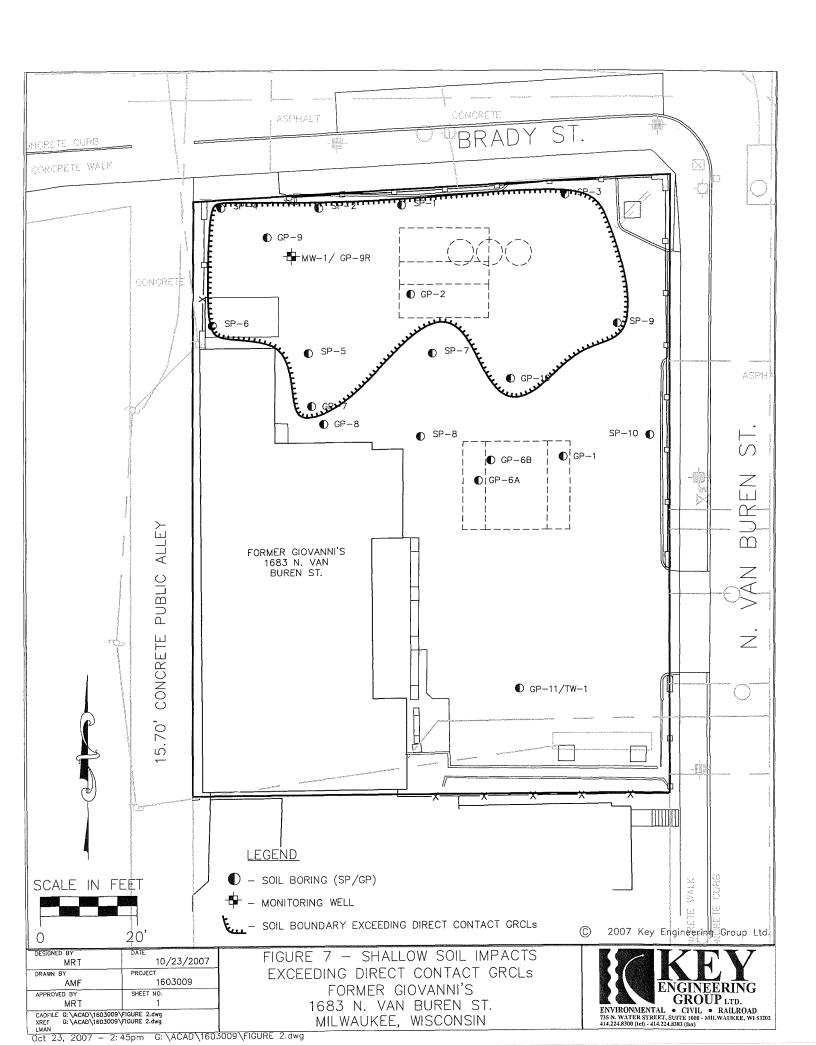
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	1603009
APPROVED BY MRT	SHEET NO.
	1 1

FIGURE 1 SITE LOCATION MAP FORMER GIOVANNI'S 1683 NORTH VAN BUREN STREET MILWAUKEE, WISCONSIN









### TABLE 1

### SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

### FORMER GIOVANNI'S

1683 North Van Buren Street Milwaukee, Wisconsin

	SAMPLE IDENTIFICATION GENERIC														RIC RCI s	
															PROTECTION OF	DIRECT CONTACT
PARAMETERS	GP-1	GF.	2-2	GP-6B	GP-7	GP-8	GI	<b>-</b> -9	GP-9R	GP	-10	GP	-11	Pile (3)	GROUNDWATER	(NON-INDUSTRIAL)
Date Collected	11/7/05	11/7/05	11/7/05	11/7/05	11/7/05	5/10/06	5/10/06	5/10/06	6/15/06	5/10/06	5/10/06	5/10/06	5/10/06	11/9/06		
Depth (feet bgs)	10-11	3-4	9-10	3-4	3-4	3-4	2-4	8-10	30-32	2-4	8-10	2-4	14-16		***	
Bulk Dry Density (lbs/ft3)																
GRO														9.0		
TPH DRO														410		
Detected VOCs (µg/kg)																
Benzene	<25	39	<25	<25	<25	<28	<28	180	<25	<29	<29	<30	<29	<150	5.5 (1)	
sec-Butylbenzene	<25	117	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
tert-Butylbenzene	<25	430	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
cis-1.2-Dichloroethene	<25	<25	<25	<25	<25	<28	460	300	<25	<29	<29	<30	<29	320		
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<28	470	<27	<25	<29	<29	<30	<29	<150		
Ethylbenzene	<25	2.550	<25	<25	<25	<28	<28	310	<25	<29	<29	<30	<29	<150	2.900 (1)	
Isopropylbenzene	<25	284	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
p-isopropyltoluene	<25	57	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Naphthalene	<25	1,100	<25	<25	<25	<55	<56	<54	<25	<58	230	<59	<59	<300		
n-Propylbenzene	<25	1.090	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Tetrachloroethene	<25	<25	<25	<25	51 J	<28	<28	<27	<25	<29	<29	<30 <29		13,000		
Toluene	<25	170	<25	<25	<25	<28	<28	140	<25	<29	<29	<30 <29		<150	1,500 (1)	
Trichloroethene	<25	<25	<25	<25	<25	<28	110	490	<25	<29	<29	<30	<29	1.500		
1,2,4-Trimethylbenzene	<25	5,200	29 J	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
1,3,5-Trimethylbenzene	<25	1,120	<25	<25	<25	<28	<28	<27	<25	<29	<29	<30	<29	<150		
Vinyl Chloride	<25	<25	<25	<25	<25	<39	<39	82	<25	<29	<29	<30	<29	<210		
Xvlenes	<75	5,300	<75	<75	<75	<94	<96	150	<25	<41	<41	<41	<29	<510	4,100 (1)	
Detected PAHs (µg/kg)		A STATE OF THE PARTY OF THE PAR	1			<b>——</b> —	<b> </b>					<b> </b>	<del>                                     </del>		1	
Acenaphthene	<17	357 J	<17	<17	441		<56	<54	<17	<58	<59	<59	<59	<b> </b>	38.000 (2)	900,000 (2)
Anthracene	<11	678	<11	<11	1.830		87	<5.4	<11	12	<5.9	<5.9	9.9	l	3,000,000 (2)	5,000,000 (2)
Benzo(a)anthracene	<12	920	<12	<12	3,650		410	<5.4	22 J	36	16	<5.9	15	ļ	17,000 (2)	88 (2)
Benzo(a)pyrene	<8.1	539	<8.1	<8.1	3.160		430	<5.4	13 J	37	15	<5.9	8.2		48,000 (2)	8.8 (2)
Benzo(b)fluoranthene	<7.5	1,170	<7.5	<7.5	4,230		310	<5.4	15 J	35	15	<5.9	8.5		360,000 (2)	88 (2)
Benzo(g,h,i)perylene	<8.5	433	<8.5	<8.5	1,780		250	<5.4	14 J	18	17	<5.9	6,6		6,800,000 (2)	1,800 (2)
Benzo(k)fluoranthene	<14	513	<14	<14	1,180		220	<5.4	<14	21	10	<5.9	<5.9	<u> </u>	870,000 (2)	880 (2)
Chrysene	<20	1,140	<20	<20	2,450		370	<5.4	<20	37	16	<5.9	12		37,000 (2)	8,800 (2)
Dibenzo(a,h)anthracene	<11	<110	<11	<11	245		60	<8.1	<11	<8.8	<8.8	<8.9	<8.8		38,000 (2)	8.8 (2)
Fluoranthene	<7.4	3,020	<7.4	<7.4	7,780		650	30	24	130	50	16	68		500,000 (2)	600,000 (2)
Fluorene	<9.5	408	<9.5	<9.5	386		19	<11	<9.5	<12	<12	<12	<12		100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	<9.5	300	<9.5	<9.5	1,250		290	<5.4	<9.5	31	14	<5.9	<5.9		680,000 (2)	88 (2)
1-methyl naphthalene	<11	4,850	<11	<11	<55		<34	<32	<11	<35	<35	<35	<35		23,000 (2)	1,100,000 (2)
2-methyl naphthalene	<12	10,500	<12	<12	<60		120	<27	<12	43	<19	<30	<29		20,000 (2)	600,000 (2)
Naphthalene	<17	15,300	<17	<17	<85		<34	<32	<17	<35	<35	<35	<35		400 (2)	20,000 (2)
Phenanthrene	<8.9	1,890	<8.9	<8.9	4,110		230	23	23 J	110	37	12	86		1,800 (2)	18,000 (2)
Pyrene	<11	2,470	<11	<11	6,080		490	<5.4	24 J	85	32	10	28		8,700,000 (2)	500,000 (2)

### Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact Boxed concentrations exceed generic RCL for protection of groundwater
--- - not analyzed or no standard established

- (1) NR 720 generic RCLS
- (2) Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
  (3) A sample was collected from soil excavated from the northwest corner of the parking lot.
- (4) This boring was discontinued after 1.5 feet, due to contact with a solid surface. The boring was subsequently abandoned.

bgs - below ground surface

J - analyte detected between limit of detection and limit of quantitation

lbs/ft3 - pounds per cubic foot

PAHs - polynuclear aromatic hydrocarbons

RCL - residual contaminant level

μg/kg - micrograms per kilogram VOCs - volatile organic compounds

### TABLE 1 (CONTINUED)

### SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

### FORMER GIOVANNI'S 1683 North Van Buren Street Milwaukee, Wisconsin

											¥										GENE	RIC RCLs
PARAMETERS	SP	2-1	SE	2-7	SF	-3	SF	2-4	SI	P-5	SP	-6	SF	·-7	SF	·-8	sı	<b>-</b> -9	SP	-10	PROTECTION OF GROUNDWATER	DIRECT CONTACT (NON-INDUSTRIAL)
Date Collected	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06	11/2/06		
Denth (feet bas)	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	8-10	2-4	8-10	2-4	10-12	2-4	8-10	2-4	10-12	2-4	8-10		
Bulk Dry Density (lbs/ft3)	2-7					797			_				_	_								
Detected VOCs (µg/kg)										<del>                                     </del>												
Benzene	550	107	<25	<25	<25	<25	<25	<25	<125	221	<25	<25	<25	<25	_		<25	<25			5.5 (1)	
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	25.6 J	<25	<25	<25	<25			<25	<25				
tert-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25			<25	<25				
cis-1.2-Dichloroethene	<25	283	43 J	<25	<25	<25	87	58 J	<125	<25	35 J	<25	<25	<25			<25	<25	_			
trans-1.2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25			<25	<25				
Ethylbenzene	1.270	<25	<25	<25	<25	<25	<25	<25	<125	5,900	<25	<25	<25	<25	-	_	<25	<25			2,900 (1)	
Isopropylbenzene	50 J	<25	<25	<25	<25	<25	<25	<25	<125	730	<25	<25	<25	<25			<25	<25	_			
p-Isopropyltoluene	196	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25		~	<25	<25				
Naphthalene	600	<25	47 J	<25	<25	63	<25	<25	<125	580	<25	<25	<25	<25			<25	<25				
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<125	1,630	<25	<25	<25	<25	***	***	<25	<25				
Tetrachloroethene	<25	2,960	9,400	97	<25	<25	660	<25	16,900	<25	4,000	<25	<25	<25			<25	<25				
Toluene	26.8 J	<25	<25	88	<25	<25	<25	<25	<125	168	<25	<25	<25	<25			<25	<25	<u></u>		1,500 (1)	
Trichloroethene	<25	1,090	400	<25	<25	<25	308	87	<125	<25	110	<25	<25	<25			<25	<25	<u> </u>			
1,2,4-Trimethylbenzene	156	<25	25,9 J	<25.	<25	<25	<25	<25	<125	3,300	<25	<25	<25	<25			<25	<25				
1,3,5-Trimethylbenzene	25.5 J	<25	<25	<25	<25	<25	<25	<25	<125	380	<25	<25	<25	<25			<25	<25				I
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<125	<25	<25	<25	<25	<25			<25	<25	<b></b>			***
Xylenes	548 J	<75	<75	57 J	<75	<75	<75	<75	<375	2,590	<75	<75	<75	<75			<75	<75			4,100 (1)	
Detected PAHs (μg/kg)							ļ		<u> </u>						ļ				<del> </del>			
Acenaphthene	499	<17	<17	<17	<17	30 J	<17	<17	44 J	<17	<17	<17	<17	<17	<17	29 J	<17	<17	<17	<17	38,000 (2)	900,000 (2)
Acenaphthylene	<19	<19	<19	<19	<19	<19	<19	<19	82 116	<19 <11	<19 16 J	<19	<19	<19 <11	<19 <11	<19 46	<19 17 J	<19	<19	<19 35	0.000.000.00	5 000 000 101
Anthracene	441	11 J	11 J 44	<11 <12	<11 40	100 291	<11 34 J	<11 20 J	598	<12	62	<11	<11 <12	<12	<12	63	74	<11 <12	<11 <12	65	3,000,000 (2) 17,000 (2)	5,000,000 (2) 88 (2)
Benzo(a)anthracene	532 690	18 J	52	<8.1	40	325	34 J	15 J	935	<8.1	87	<8.1	<8.1	<8.1	<8.1	60	97	<8.1	<8.1	83	48,000 (2)	8.8 (2)
Benzo(a)pyrene Benzo(b)fluoranthene	920	14 J	72	<7.5	64	518	49	31	1,530	18 J	158	8.5 J	<7.5	<7.5	7.9 J	128	150	<7.5	15 J	172	360,000 (2)	88 (2)
Benzo(b)iluorantnene Benzo(a.h.i)perylene	560	20 J	110	<8.5	29	288	30	20 J	1.090	18 J	98	<8.5	<8.5	<8.5	<8.5	58	80	<8.5	<8.5	76	6.800,000 (2)	1,800 (2)
Benzo(g,n,n)perylene Benzo(k)fluoranthene	303	<14	26 J	<14	24 J	176	21 J	<14	554	<14	51	<14	<14	<14	<14	32 J	47	<14	<14	59	870.000 (2)	880 (2)
Chrysene	739	21 J	55 J	<20	50 J	401	43 J	34 J	907	21 J	107	<20	<20	<20	<20	152	123	<20	<20	158	37,000 (2)	8.800 (2)
Dibenzo(a.h)anthracene	119	<11	21 J	<11	<11	60	<11	<11	181	<11	<11	<11	<11	<11	<11	<11	12 J	<11	<11	19 J	38,000 (2)	8.8 (2)
Fluoranthene	1,700	49	103	<7.4	98	877	79	84	1,450	26	167	17 J	8.1 J	<7.4	17 J	469	244	8.3 J	18 J	377	500,000 (2)	600,000 (2)
Fluorene	358	<9.5	<9.5	<9.5	<9.5	30 J	<9.5	<9.5	30 J	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	34	<9.5	<9.5	<9.5	18 J	100,000 (2)	600,000 (2)
Indeno(1,2,3-cd)pyrene	389	13 J	52	<9.5	20 J	245	20 J	13 J	606	<9.5	63	<9.5	<9.5	<9.5	<9.5	35	46	<9.5	<9.5	53	680,000 (2)	88 (2)
1-methyl naphthalene	669	<11	<11	<11	<11	12 J	<11	<11	14 J	<11	<11	<11	<11	<11	<11	43	<11	<11	<11	<11	23,000 (2)	1,100,000 (2)
2-methyl naphthalene	703	<12	<12	<12	<12	<12	<12	<12	14 J	<12	<12	<12	<12	<12	<12	68	<12	<12	<12	<12	20,000 (2)	600,000 (2)
Naphthalene	2,960	<17	<17	<17	<17	<17	<17	<17	<17	372	<17	<17	<17	<17	<17	24 J	<17	<17	<17	<17	400 (2)	20,000 (2)
Phenanthrene	1,680	60	52	22 J	43	470	43	66	232	31	72	22 J	9.0 J	11 J	18 J	430	139	9.1 J	11 J	252	1,800 (2)	18,000 (2)
Pyrene	1,590	41	87	<11	92	684	68	61	1,140	20 J	131	14 J	<11	<11	12 J	303	214	<11	14 J	259	8,700,000 (2)	500,000 (2)

### Notes:

Bold concentrations exceed NR 746 Table 1 values or generic RCL for non-industrial direct contact Boxed concentrations exceed generic RCL for protection of groundwater
--- not analyzed or no standard established
(1) - NR 720 generic RCLS
(2) - Suggested generic RCLs PAHs Interim Guidance (WDNR), Publication RR-519-97, April 1997 corrected).
bgs - below ground surface
J - analyte detected between limit of detection and limit of quantitation
lbs/fi<sup>3</sup> - pounds per cubic foot

PAHs - polynuclear aromatic hydrocarbons

RCL - residual contaminant level µg/kg - micrograms per kilogram VOCs - volatile organic compounds

### TABLE 2

# SPLP ANALYTICAL SUMMARY

# FORMER GIOVANNI'S

1683 North Van Buren Street Milwaukee, Wisconsin

	SAMPLE IDENTIFICATION	NR	140
PARAMETERS	GP-9R/MW-1	ES (ug/l)	PAL (ug/l)
Date Collected	6/15/06		
Total Organic Carbon (mg/kg)	1,500		
SPLP (ug/l)			
1,1-Dichloroethane	1.6	850	85
cis-1,2-Dichloroethene	3.0	70	7

# Notes:

Bold concentrations exceed NR 140 PAL

--- - not analyzed, not applicable or no standard established

ES - enforcement standard

mg/kg - milligrams per kilogram

μg/l - micrograms per liter

PAL - preventive action limit

SPLP - synthetic precipitate leachate procedure

# Appendix 3 Key Engineering Group, Ltd.

State of Wisconsin	
Department of Natural	Resources

Fac	ility/Pr	oject .	Nan	ne		Para		Licer	ise/Per	mit/Mo	mitoria	ıg Nun	nber	Borin	Page g Num		of	<del></del>	-
Bor	ing Dr	lled I	y:	Name	of crew	Chief (first,	ast) and Firm	Date	Drillin	g Start	ed	Date I	Drilling	Com	pleted	>√ Drillir	ng Met	( / hod	- )
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State of Wisconsin Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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State of Wisconsin Department of Natural Resources

## SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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# SOIL BORING LOG INFORMATION

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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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Facil	ity/Proj	ect Na	me ĵ	lan Buren		Lice	nse/Per	mit/Mo	onitorii	ng Nun	nber	Borin	g Num	ber	- J .	7	•	
Borin Finst	g Drille Name:	ed By:	Nam	e of crew chief (first,	last) and Firm	Date	Drillin	g Start	ed 19	Date I	Drilling	Com	pleted > ( )	Drillir	ig Mei	hod	- i	
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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	And Geo Each	ck Description logic Origin For Major Unit		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments		
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State of Wisconsin	
Department of Natural	Resources

				Rou	watershed/Wastewater Waste !  Remediation/Revelopment Oth	Mana <sub>j</sub> cr	gemen										
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	Facili	ty/Proj	ect Na	me ,	Van Buren	Licen	sc/Per	mit/Mo	onitorii	ng Nun	nber	Borin	g Num	per Z	Pro	33	
	Borin First 1	g Drille	ed By:	Nam	e of crew chief (first, last) and Firm Last Name: Last Name:	Date (		g Start		Date I				Drillin	ng Ma	hod Rush	
	Pirm:	nique V	11	4	DNR Well ID No.   Well Name	m m Final	d d	y y Water	ýУ	mm	d d	у у	у у			ameter	
	Local	Grid C	)rigin	(es	stimated:   ) or Boring Location			Feet N		Local	Grid L	_Feet			<u>i</u>	nches	ı
	State I	Plane _ 1/4 of			f Section . T N. R	Lo	_at ng	۰ '			F	eet 🗖	IN IS _			□ E □ W	
	Facili	y ID			county, have co	unty C	ode	Civil	Town	City/o	r Villa کسک		æ	-			
	Sam	ple 생 급		(gog)								Soil	Prope	rties			
	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P.200	RQD/ Comments	
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シーゝ		<b>5</b> '	<b>.</b>		2" crished asphalt. Stiff boun day					2-4 9.0 4-6		*				for	VOCs,
ini population beautic iidd	Carrie Managemen		******	K						Ø. 7		warene in the same		*****			
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Page 2 of 3

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Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Each Major Unit	uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
6p-4 15-20			andmidi.	wet. Slight odor.		3 Jacob - 1000	********	16-18 18-2 18-2 18-2		3>				
67-5, 20-25	2/2	7	dumlumlumb	broy fine to coarse sand. wet. slight oder. Dest bray stiff chy. het.	oom_sejonmovalid	wycznikowo umo		20-23 12 21-24 12 21-		4			oppose still deligible 10, identification 10, ident	
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State of Wisconsin Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

	Facili	ty/Proj	ect Na	me	Van Buren	Licer	ise/Per	mit/M	onitori	ng Nun	nber	Borin	Page g Num	her	_ of _ >	<u> </u>	
		g Drille Name: V		Nam	e of crew chief (first, last) and Firm  Last Name: WCStu-	07	-17	g Start	ed 19	Date I		Com	pleted		g Mei	pod Prsh	
	WI U	nique V	Vell N	0.	DNR Well ID No. Well Name			Water Feet M	Level					Borch	`	ameter nches	•
	Local State I	Grid C Plane _ 1/4 of			stimated: D) or Boring Location D N, E Section , T N, R	Lo	Lat	0		Local			N			□ E □ W	,
	Facili			.,,		County C		Civil	Town(	City/o	r Villa	ge	<u> </u>				
,	Sarr	ple අ (ij	ts	XCE Sturface)	Soil/Rock Description						0	Soil I	Prope	ties			
	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	And Geologic Origin For Each Major Unit		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
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5P-J -1€	5	15(F)	Υ×	4	A-11 Brownish clay.	arrico y agent mga maga mga mga mga mga mga mga mga mg				6-8 \$.\$ 6-(\$ \$.\$		J.					
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State of Wisconsin	
Department of Natural	Resources

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	Facili	ty/Proj	ect Na	me	Van Buren		Licen	se/Peri	nit/Mo	nitorir	g Num	ber	Boring				10	-
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		nique \			DNR Well ID No. Well	Name	Final :		Water I Feet M		Surfac					)	ameter	
	Local State I	Grid C	rigin		stimated:   ) or Boring Le	ocation □ E			0 1		Local	Grid L			L		nches	
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	Facili	ty ID	************	****	County	Con	inty C	ode			City/61			•••••				<del></del>
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	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Des And Geologic O Each Major	Origin For Unit		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
6P-1		3	Υ χ	Y	d"Crushed aspl 6"Sand and go to coarse, & Aest	ratt. ravele fine	2				2-4 9-4 9-4 4-6		D				Samp	hed 8-10 VOCs.
					Aest Gray soft clay fine to medium	w/ Silt a	nd		•		e.Ø							í
P-15	7	4/6	Å X	10	All Brown clay, st ribson	tî-ff, no					6 -8 6,0 8-19 8-0		M					
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			ify th	at the	information on this form is			e best	of my	knov	vledge	•						
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State of Wisconsin	
Department of Natural	Resources

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F	acilit	y/Proj	ect Na	me	Van	Bure	1	Lic	ense/Per	mit/Mo	onitori	ng Nur	nber	Borin	g Num	iber S	P-	26	
	First N	Drille lame: (	my		e of crew Last Nam	chief (first, • West		Dat <u>O</u> m	e Drillin	g Start	ed 219 y y	Date   O 7	Drilling	Com	pleted 219 y y	Drillin	ng Me		4
V	VI Un	ique V	Vell N	ю.	DNR We	11 ID No.	Well Name	Fin	al Static	Water _Feet N		Surfa	ce Elev	ation Feet	MSL	Boreh		ameter inches	_
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F	acilit					unity /	warter			Civil	Town,	CIVIO	t Villa	oe.					-
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Vimbor	and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		And Geo	ck Description logic Origin For Major Unit		USCS	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
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Depar	rtmer	it of	Natural	Resources

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		nique \			DNR W	/ell ID No.	Well N	lame	Fin	al Static	Water	Level	•		ation			;	ameter	. ,
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	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet Below ground surface)		And Ge Eac	ock Descr ologic Ori ch Major U	igin For Jnit		USCS	Graphic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
5P- 5-4	(	2 4	Ą	W	d"	Stiff.	boun I cla	cley,	nd.			1	047		70				Saup	bd 2-1
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# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau:		_		_			
Verification Only of Fill and Seal	Drinking Water		] Watershed/∖\	/astewater	Remediation	n/Redevelopment		
	Waste Manageme	ent	Other:					
1. Well Location Information		2. Facility	/ Owner Inf	ormation				
County MI Unique Well # of Removed Well	licap #	Facility Nar						
Latitude / Longitude (see instructions) Format C	Code Method Code	Facility ID (	FID or PWS)					
N □ DI	D GPS008	Liconso/Do	mit/Monitoring	# - 1				
w Di	DM SCR002	License/Fe	minimonitoring	" SP-1	1			
7/1/4  %  Section  Town		Original We	ll Owner					
or Gov't Lot#	$N = \overline{W}$							
Well Street Address North Van Bu	in St.	Present We	Il Owner					
Well(City) Village or Town	Well ZIP Code	Mailing Add	ress of Presen	t Owner				
Subdivision Name	Lot #	City of Pres	ent Owner		State ZIF	P Code		
Reason for Removal from Service   WI Unique Well #	of Replacement Well			n, Casing & Se				
		3	d piping remove	ed?	Yes			
3. Filled & Sealed Well / Drillhole / Borehole I		Liner(s) re			Yes			
Monitoring Well Original Construction	Date (mm/dd/yyyy)	Screen re	erforated?		Yes Yes	No XINA		
Water Well	201	1	ft in place?		Yes	No NA		
	n Report is available,	Was casing cut off below surface? Yes No X N/A						
Construction Type:	4/0	Did sealing material rise to surface? Yes No N/A						
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?						
Other (specify): Direct Push	_1 - +9	If yes, was hole retopped?						
Formation Type:		If bentonite chips were used, were they hydrated with water from a known safe source?						
Unconsolidated Formation Bedrock				Sealing Material	<u> </u>			
	ameter (in.)	l	-	ty Conductor	Pipe-Pumped			
10		Screen	ed & Poured	Other (Ex	l	ti		
Lower Drillhole Diameter (in.) Casing De	pth (ft.)	Sealing Mate	nite Chips) erials					
$\mathcal{L}$	-	Neat C	ement Grout		Concrete	•		
		Sand-0	Cement (Concre	ete) Grout	] Велtonite Chip	)S		
Was well annular space grouted?	No Unknown	For Monitorii	ng Wells and M	onitoring Well Bor	eholes Only:			
If yes, to what depth (feet)? Depth to Water	(feet)	Benton	ite Chips	Bento	onite - Cement G	rout		
_	_	Granul	ar Bentonite	Bento	onite - Sand Slum	ry		
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Volume (circle	Sealant or	Mix Ratio or Mud Weight		
3/p" Benjorite Chips		Surface	10	Ø 22 <del>(</del>		- Widd Weight		
6. Comments			<u> </u>					
7. Supervision of Work					DNR Use Only			
Name of Rersen or Firm Doing Filling & Sealing Licens	(mm/dd/yyy	y) 07/1	or Verification イルの¶	Date Received	Noted	Ву		
735 N Wate St. Svito	510 14		4-8300					
Milway Cee State	ZIP Code 53200	Signature of	erson Doing V	Vork	Date Sign			
111111111111111111111111111111111111111	1 3 3av Q 1	(	<u>~~~</u>		107	-/30/20\		

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau							
Verification Only of Fill and Seal	Drinking Water	Watershed/Wastewa	ter Remediation/Redevelopment					
•	Waste Manageme	Other:						
1. Well Location Information		2. Facility / Owner Informat	ion					
County  MI Unique Well # of Removed Well	Hicap #	Facility Name						
	~	acility ID (FID or PWS)	A CONTRACTOR OF THE CONTRACTOR					
Latitude / Longitude (see instructions) Format	I Cocoo							
	DDM SCR002	License/Permit/Monitoring # 5 P- 1 2						
	nship Range E	Original Well Owner						
or Gov't Lot #	N W							
Well Street Address 181 N Van Bu	nes St.	Present Well Owner						
Well City Village or Town Wil Lacker	Well ZIP Code 5 3 202	failing Address of Present Owner	ſ					
Subdivision Name	Lot#	ity of Present Owner	State ZIP Code					
Subdivision Name	LOT#	.,						
Reason for Removal from Service   WI Unique Well	# of Replacement Well	. Pump, Liner, Screen, Cas	ing & Sealing Material					
	, o	Pump and piping removed?	Yes No W N/A					
3. Filled & Sealed Well / Drillhole / Borehole	Information	Liner(s) removed?	Yes No NANA					
	n Date (mm/dd/yyyy)	Liner(s) perforated?	Yes No No NA					
日 10 + / 1 ス /	2019	Screen removed?	Yes No No N/A					
Water Well If a Well Construction	on Report is available,	Casing left in place?	Yes No NA N/A					
Borehole / Drillhole please attach.	on responsible aranapie,	Was casing cut off below surface? Yes No N/A						
Construction Type:		Did sealing material rise to surface? Yes No N/A						
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?						
Other (specify): Direct Push		If yes, was hole retopped?						
Formation Type:	2	If bentonite chips were used, were they hydrated with water from a known safe source?						
Unconsolidated Formation Bedroo	ck .	equired Method of Placing Sealin						
	iameter (in.)		Conductor Pipe-Pumped					
0	chorage constitution of th	Screened & Poured (Bentonite Chips)	Other (Explain): Uravity					
Lower Drillhole Diameter (in.) Casing D	epth (ft.)	ealing Materials						
2	-	Neat Cement Grout	Concrete -					
	7	Sand-Cement (Concrete) Gro	out X Bentonite Chips					
Was well annular space grouted? Yes	No Unknown	or Monitoring Wells and Monitorin						
If yes, to what depth (feet)? Depth to Water	(feet)	Bentonite Chips	Bentonite - Cement Grout					
		Granular Bentonite	Bentonite - Sand Slurry					
5. Material Used to Fill Well / Drillhole		T. (6) No. Yai	ds, Sacks Sealant or Mix Ratio or					
		Tom (it.) 10 (it.) Vo	ume (circle one) Mud Weight					
3/0" Bentonite Chips		Surface (6 0	7.22 #3					
6. Comments								
		and the second s						
7. Supervision of Work Name of Rersph or Firm Doing Filling & Sealing Licer	nse # Date of Filli	& Sealing or Verification Date i	DNR Use Only Received Noted By					
LE Engineering		07/17/2019	teceived invited by					
735 Wate St. Svita		hone Number Comm りみりイーを300	nents					
City State	ZIP Code	nature of Person Doing Work	Date Signed					
Milliance wil	53202	( * T	07/30/201					

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau:							
Verification Only of Fill and Seal	Drinking Water		Watershed/V	<i>Nastewater</i>	Remedi	iation/Redevelopment		
-	Waste Manageme	ent [	Other:	<del></del>				
1. Well Location Information		2. Facility	y / Owner In	formation				
County  Mi Unique Well # of Removed Well	licap #	Facility Na						
Latitude / Longitude (see instructions) Format C	Code Method Code	Facility ID (	(FID or PWS)					
N □ □ DI	GPS008	License/Po	rmit/Monitoring	- #				
w 🔲 🖂	OM SCR002	Licerisen e	THIS WOULD IN E	5 P-	13			
74174 Y4 Section Town	ship Range E	Original We	ell Owner					
or Gov't Lot #	N	Drogont 10/a	-II Ourana					
Well Street Address [L. 81 N. Van Br	inco St.	Present We	JII Owner					
Well (tity Village or Town  N) Wakee	Well ZIP Code 53202	Mailing Add	dress of Preser	nt Owner				
Subdivision Name	Lot #	City of Pres	ent Owner	A CONTRACTOR OF THE STATE OF TH	State	ZIP Code		
Reason for Removal from Service   WI Unique Well #	of Replacement Well	4. Pump,	Liner, Scree	en, Casing & Se	aling Mate	rial		
The state of the s	or respondent real	Pump an	d piping remov	ved?		Yes No N/A		
3. Filled & Sealed Well / Drillhole / Borehole I	nformation		removed?		إسما	Yes No NA N/A		
Monitoring Well Original Construction	Date (mm/dd/yyyy)	1	perforated?	•		Yes No No N/A		
Water Well 0 +/1 7/	2017	Screen re				Yes No X N/A		
If a Well Construction	Report is available,							
Construction Type:		Was casing cut off below surface?						
Driven (Sandpoint)	l .	rial settle after			res No NA			
Other (specify): Direct Push	Dug	If yes, was hole retopped?						
Formation Type:		If bentonite chips were used, were they hydrated with water from a known safe source?						
Unconsolidated Formation Bedrock				n sate source? ng Sealing Material				
	ameter (in.)		ethod of Flacin ictor Pipe-Grav		r Pipe-Pumpe	ań		
Casing Die	ameter (m.)	Screer	ned & Poured	Other (Ex		1		
Lower Drillhole Diameter (in.) Casing De	ath (ft.)	Sealing Mate	nite Chips)	[M oniei (rx	Jianij. O G			
Lower Drillhole Diameter (in.) Casing De	pur (it.)		Cement Grout	Г	Concrete			
<u>a</u>			Cement (Conc	rete) Grout	Bentonite C	Chins		
Was well annular space grouted?	No Unknown	<b>1</b>	•	Monitoring Well Boi	-74	•		
If yes, to what depth (feet)? Depth to Water	(feet)		nite Chips	<u> </u>	onite - Cemer			
-	_	_	lar Bentonite	Bente	onite - Sand S	Slurry		
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks	Sealant or	Mix Ratio or		
3/0" Bentonite Chips		Surface	10	Volume (circle		Mud Weight		
- 18 Berrant to Chips		Darraco		Plagt	7			
6. Comments								
7. Supervision of Work					DNR Use C			
Name of Rerson or Firm Doing Filling & Sealing Licens			or Verification		No	oted By		
Fireet or Route V Water St. Svito	Tel	ephone Num	1000 1-8300	Comments				
City State	ZIP Code		Person Roing			Signed		
Myllvarkee WI	53202		Ly-			7/30/20		

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

☐ Verification Only of Fill and Seal	Drinking Water		] Watershed/Wa	stewater [	Remediation/Redevelopme	ent		
	Waste Manageme	L	Other:					
1. Well Location Information			/ Owner Info	rmation				
County   Wi Unique Well # of Removed Well   Removed Well	licap#	Facility Nar						
Latitude / Longitude (see instructions) Format (	Code Method Code	Facility ID (	FID or PWS)					
N D	D GPS008							
w 🗆	∐SCR002	License/Pe	rmit/Monitoring #	SP-15	<u> </u>			
74 / 74 Section Town or Gov't Lot #		Original We	II Owner					
Well Street Address		Present We	Il Owner					
1681 N. Van Bu	ing 8t.		(D) 12		and the same of th			
Well offy, Village or Town  M. Way Cas	Well ZIP Code	Mailing Add	ress of Present (	owner				
Subdivision Name	Lot#	City of Pres	ent Owner		State ZIP Code			
Reason for Removal from Service   WI Unique Well	# of Replacement Well	4. Pump,	Liner, Screen,	Casing & Seal	ling Material			
TO COUNTY OF THE PROPERTY OF T	or replacement ven		d piping removed		Yes No X	√\A		
3. Filled & Sealed Well / Drillhole / Borehole I	nformation	Liner(s) re	emoved?		Yes No No	۱/A		
	Date (mm/dd/yyyy)	Liner(s) p	erforated?	•	Yes No XIN			
日 10十/17/	2019	Screen re			∐Yes ∐No XIN			
Water Well If a Well Construction	n Report is available,	Casing le	ft in place?		Yes No 🔊 N	4/A		
Borehole / Drillhole please attach.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Was casing cut off below surface?						
Construction Type:		Did sealing material rise to surface?						
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?  Yes No N/A						
M Other (specify): Direct Push			, was hole retopp		Yes No No	I/A		
Formation Type:		If bentonite chips were used, were they hydrated with water from a known safe source?						
Unconsolidated Formation Bedroc	k	Required Me	thod of Placing S	Sealing Material				
Total Well Depth From Ground Surface (ft.) Casing Di	ameter (in.)	Condu	ctor Pipe-Gravity	Conductor F	Pipe-Pumped			
20	-		ed & Poured	Other (Expla	ain): <u>bravity</u>			
Lower Drillhole Diameter (in.) Casing De	epth (ft.)	Sealing Mate	nite Chips) erials					
			ement Grout		Concrete ·			
		Sand-C	Cement (Concrete	e) Grout	Bentonite Chips			
Was well annular space grouted?	No Unknown			nitoring Well Borel	**			
If yes, to what depth (feet)? Depth to Water	(feet)		ite Chips	-	ite - Cement Grout			
,		L	ar Bentonite		ite - Sand Slurry			
5. Material Used to Fill Well / Drillhole		A	NI.	o. Yards, Sacks Se	ealant or Mix Ratio or			
		From (ft.)	To (ft.)	Volume (circle (	one) Mud Weight			
3/8" Bentonite Chips		Surface	20	giratt,		—		
						—		
6. Comments								
7. Supervision of Work		- V - S - 1 - 1 - 2		. D1	NR Use Only	7		
Name of Rerson or Firm Doing Filling & Sealing Licen				Date Received	Noted By	7		
LE Engineering			7/20191					
Freet or Route V Water St. Svita		ephone Num りりみる	ber 4-8300	Comments				
City State State	ZIP Code		Person Roing Wo	ork	Date Signed			
Milliance WI	53200		4		- 07/30/3	K)		

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau	:	<b>-1</b>		<del></del>		
Verification Only of Fill and Seal	Drinking Water	. <u>L</u>	<del></del>	Wastewater	Remediation/R	edevelopment	
	Waste Manageme		Other:				
1. Well Location Information  County WI Unique Well # of	Hicap #	2. Facility Na	y / Owner Ir	formation			
M'i Wavee Removed Well	TROUP #				**************************************		
Latitude / Longitude (see instructions) Format	l	1	(FID or PWS)				
N 🔲	OD GPS008	License/Pe	rmit/Monitorin	n#C - v	•	··· <del>··································</del>	
w 🔲	License/Permit/Monitoring # 5 P - 16						
14/14 14 Section Tow	nship Range E	Original We					
or Gov't Lot #	N W						
Well Street Address N. Van Burke	, St.	Present We	eli Owner				
Well City, Village or Town Milwalcee	Well ZIP Code	Mailing Add	ress of Prese	nt Owner		<del></del>	
Subdivision Name	Lot#	City of Pres	ent Owner		State ZIP Co	ode	
Reason for Removal from Service   WI Unique Well	# of Replacement Well				ealing Material	1 To	
			id piping remo emoved?	ved?	Yes   Yes	No MNA	
3. Filled & Sealed Well / Drillhole / Borehole		' '	perforated?	•	Yes	No MNA	
Monitoring Well	n Date (mm/dd/yyyy)	Screen re			Yes	No X N/A	
Water Well	aui	Casing le	eft in place?		Yes	No N/A	
Borehole / Drillhole   If a Well Construction   Please attach.	on Report is available,	Was casing cut off below surface? Yes No N/A					
Construction Type:	<del>ad miner som - kolonistalistassiste od 1900-mil 1900-al sistematies - , - sammes 1904-bis sis</del>	Did sealing material rise to surface?					
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?					
Other (specify): Direct Push		If yes, was hole retopped? Yes No N/A  If bentonite chips were used, were they hydrated					
Formation Type:		with water from a known safe source?					
☐ Unconsolidated Formation ☐ Bedro				ng Sealing Materia			
Total Well Depth From Ground Surface (ft.) Casing D	iameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped  Screened & Poured Charles (Symbol) (2014)					
. 30		니 (Bento	nite Chips)	Other (E	explain): <u>Urqvity</u>		
Lower Drillhole Diameter (in.) Casing D	epth (ft.)	Sealing Mat		ı	٦٠		
<u> </u>			Cement Grout	] ] 	Concrete		
Was well annular space grouted?	No Unknown		Cement (Conc	rete) Grout Monitoring Well B	XI Bentonite Chips		
If yes, to what depth (feet)? Depth to Water	(feet)		nite Chips		ntonite - Cement Grout		
<del></del>			ar Bentonite	<del></del>	ntonite - Sand Slurry		
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sack	s Sealant or Mix	Ratio or	
3/8" Bentonite Chips		Surface	20	Volume (circ	cle one) Mu 	d Weight	
-11 Servent to Ongs		Bullace	ac	W 1-1 (	4		
6. Comments							
7. Supervision of Work					DNR Use Only		
Name of Reison or Firm Doing Filling & Sealing Licer		ng & Sealing y) <i>ら</i> て/	or Verification		Noted By	1	
Fireet or Roule Wate St. Svita	50 Tel	ephone Num	ber 4-8300	Comments	<u>and de service de la mental de la mental de la medit de la mental de la mental de la mental de la mental de la</u>		
City State	ZIP Code		Person Poing		Date Signed		
Milliance wil	53202	(_	J-1-		107/	30/JO	

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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· · · · · · · · · · · · · · · · · · ·	Route to DNR Bureau:		, m					
☐ Verification Only of Fill and Seal	Drinking Water	<u> </u>	tershed/Wastewater	Remediation/Redevelopment				
	Waste Manageme	nt Oth	ner:	-				
1. Well Location Information			wner Information					
County  Wi Unique Well # of Removed Well	Hicap #	Facility Name						
Latitude / Longitude (see instructions) Format	Code Method Code	Facility ID (FID o	or PWS)					
N 🔲	DD GPS008	License/Permit/N	/onitoring # 🗢 🐃	b				
w 🖂	ODM OTHOU		Monitoring # $SP$ —	· ) +				
1/4 1/4 Section Tow	nship Range E	Original Well Ow	mer					
or Gov't Lot #	N _ W		A STATE OF THE STA					
Well Street Address   1/2 Van B	una St.	Present Well Ow	ner					
Well City Village or Town	Well ZIP Code	Mailing Address	of Present Owner					
Subdivision Name	53202	City of Present C	wner	State ZIP Code				
	2011							
Reason for Removal from Service   WI Unique Wel	# of Replacement Well	4. Pump, Line Pump and pipi	r, Screen, Casing &	Sealing Material				
		Liner(s) remov	•	Yes No No NA				
3. Filled & Sealed Well / Drillhole / Borehole	Information on Date (mm/dd/yyyy)	Liner(s) perfor		Yes No WNA				
Monitoring Well    OF / 17		Screen remove		☐Yes ☐No XÎN/A				
Water Well	aui	Casing left in p	place?	Yes No N/A				
Borehole / Drillhole   If a Well Construction   Drillhole   Drillh	on Report is available,	Was casing cu	t off below surface?	Yes No No N/A				
Construction Type:		Did sealing ma	iterial rise to surface?	Yes No N/A				
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?  Yes No N/A						
Other (specify): Direct Push		• .	hole retopped? ps were used, were they	YesNo _y N/A				
Formation Type:			ns were used, were tries na known safe source?	Y Nyurateu Y Yes No N/A				
Unconsolidated Formation Bedro	ck	Required Method	of Placing Sealing Mate	erial				
Total Well Depth From Ground Surface (ft.) Casing D	Diameter (in.)	<del> </del>	·	uctor Pipe-Pumped				
$\mathcal{L}$		Screened & (Bentonite C		(Explain): Uravity				
Lower Drillhole Diameter (in.) Casing D	Pepth (ft.)	Sealing Materials						
$\mathcal{Z}$	1	Neat Cemer		Concrete				
Was well annular space grouted? Yes	No Unknown		ent (Concrete) Grout	Bentonite Chips				
If yes, to what depth (feet)? Depth to Wate		Bentonite C	ells and Monitoring Well	Borenoles Omy. Bentonite - Cement Grout				
		Granular Be	•	entonite - Sand Slurry				
5. Material Used to Fill Well / Drillhole			No. Yards, Sa	cks Sealant or Mix Ratio or				
3/0" Bentonite Chips		Surface 2	y oranie (c					
1) Servent to Ongs		Surface SQ	V (17)					
6. Comments								
7. Supervision of Work				DNR Use Only				
Name of Rerson or Firm Doing Filling & Sealing Lice	nse #   Date of Fillio (mm/dd/yyy	ng & Sealing or Ve y) のマルナ		ed Noted By				
Street or Route Vate St. Svita		phone Number	Comments					
City State	ZIP Code	Signature of Perso		Date Signed				
Milliance WI	53202		H	- 07/30/201				

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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Verification Only of Fill and Seal	Drinking Water		] Watershed/Wa	stewater	Remediation	on/Redevelopment
	Waste Manageme		Other:			
1. Well Location Information  County WI Unique Well # of	Hicap #	2. Facility Facility Nar	/ Owner Info	rmation		
M'I Way Ce Removed Well	пісар #					
Latitude / Longitude (see instructions)   Format	Code Method Code	Facility ID (	FID or PWS)			
N D	DD GPS008	11:	401			
	DDM SCR002 DDM DTH001	-	rmit/Monitoring #	SP-18	>	
74 1/4 Section Tow or Gov't Lot #	nship Range E E	Original We	ell Owner			
Well Street Address		Present We	Il Owner	· · · · · · · · · · · · · · · · · · ·		
1681 N. Van Bure	<u> </u>	Mailing Add	ress of Present (	)wner		
Well City Village or Town Will Leave Coo	Well ZIP Code			owner.		
Subdivision Name	Lot#	City of Pres	ent Owner		State ZI	P Code
Reason for Removal from Service   WI Unique Well	# of Replacement Well			Casing & Seal	ing Materia	
			d piping removed	l?	Yes	
3. Filled & Sealed Well / Drillhole / Borehole	Information	Liner(s) re			Yes	
Monitoring Well Original Construction	Date (mm/dd/yyyy)	1	erforated?		Yes	
Water Well 0 + / 1 7 /	2019	Screen re			∐ Yes	
	on Report is available,		ft in place? ng cut off below s	surface?	Yes ☐ Yes	
Construction Type:		]	ng material rise to		Yes	
Drilled Driven (Sandpoint)	Dug	Did mater	ial settle after 24	hours?	Yes	No NA
Other (specify): Direct Push		If yes	, was hole retopp	ed?	Yes	□No □ N/A
Formation Type:			te chips were use r from a known s	ed, were they hydra afe source?	ated 📉 Yes	□No □N/A
Unconsolidated Formation Bedroo	k	Required Me	thod of Placing S	Sealing Material		
Total Well Depth From Ground Surface (ft.) Casing D	iameter (in.)		ctor Pipe-Gravity ned & Poured	Conductor P		: <del>1.</del>
av I		L (Bento	nite Chips)	Other (Expla	in): U'qV	114
Lower Drillhole Diameter (in.) Casing D	epth (ft.)	Sealing Mate			_	
$\mathcal{A}$			ement Grout		Concrete	•
Was well annular space grouted?	No Unknown		Cement (Concrete	, 124	Bentonite Chip	)S
		<del></del>	•	nitoring Well Boreh	-	
If yes, to what depth (feet)? Depth to Water	(leet)	<u></u>	ite Chips		te - Cement G	
		Granula	ar Bentonite		te - Sand Slur	
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	o. Yards, Sacks Se Volume (circle o	ealant or ne)	Mix Ratio or Mud Weight
3/e" Bentonite Chips		Surface	<i>a0</i>	B. 44+H3		,
6. Comments			). ' v			
7. Supervision of Work					VR Use Onl	
Name of Rerson or Firm Doing Filling & Sealing Licer			or Verification	Date Received	Note	i By
Freet or Route Water St. Svito	Tel	ephone Num		Comments		
City State	ZIP Code		Person Poing Wo	ork	Date Sig	ned
Milliance wil	53202		4		07	<u>4/30/20</u>

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau	:	7		<del>-</del>	
Verification Only of Fill and Seal	Drinking Water		_   Watershed/W	astewater	Remedia	ation/Redevelopment
	Waste Manageme		Other:			
1. Well Location Information  County   WI Unique Well # of	Hicap #	2. Facility Na	y / Owner Info	ormation		
Mi Waytee Removed Well	поар т					
Latitude / Longitude (see instructions) Format (	Code Method Code	Facility ID	(FID or PWS)			
N 🔲 D		l icense/Pe	rmit/Monitoring	# ^ -		
w D	DM SCR002	Liociison	annu wontoning	* 2P-1	9	
74/74 1/4 Section Town	nship Range E	Original We	ell Owner			
or Gov't Lot #	N LW	Present We	II Owner		**************************************	
Well Street Address 1681 N. Van Burch	284.					description of the second of t
Well Offy, Village or Town	Well ZIP Code	Mailing Add	fress of Present	Owner		
Subdivision Name	Lot#	City of Pres	ent Owner		State	ZIP Code
				, N. C. <u>22</u> , 1984 (g. 178 - 17 <u>2</u> 007) <u>11</u> 4 5 5		
Reason for Removal from Service   WI Unique Well	# of Replacement Well		Liner, Screet d piping remove	n, Casing & Sea		es No W N/A
		1 '	emoved?	su :	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
3. Filled & Sealed Well / Drillhole / Borehole I	nformation Date (mm/dd/yyyy)		perforated?	•	H۲	
Monitoring Well 07/17/	2019	Screen re			Π̈́Ύє	
Water Well	avi j	Casing le	eft in place?		☐ Ye	es No 🐧 N/A
Borehole / Drillhole   If a Well Construction   n Report is available,	Was casi	ing cut off below	surface?	Ye	es No NA	
Construction Type:		Did sealir	ng material rise	to surface?	<b>₩</b> Ye	es No N/A
Drilled Driven (Sandpoint)	Dug	1 .	rial settle after 2		Ye	
Other (specify): Direct Push		1	s, was hole retop	•	Y€	بم س
Formation Type:	A Company of the Comp		r from a known	sed, were they hyd safe source?	Ye Vialed	es No N/A
Unconsolidated Formation Bedroc	k	Required M	ethod of Placing	Sealing Material	40	energy programming highly apply and a street and a street and a street and a street and a street and a street a
Total Well Depth From Ground Surface (ft.) Casing Di	ameter (in.)		ctor Pipe-Gravi	- 🗀	Pipe-Pumped	ماہ
<u> </u>			ned & Poured onite Chips)	Other (Exp	olain): Urq	vily
Lower Drillhole Diameter (in.) Casing De	pth (ft.)	Sealing Mat				
$\mathcal{Q}$			Cement Grout		Concrete	•
Was well annular space grouted?	No Unknown	<b>1</b>	Cement (Concre		Bentonite Ch	nips
If yes, to what depth (feet)? Depth to Water		l —	-	onitoring Well Bore	-	Crout
Sopar to Make	(100.)		nite Chips lar Bentonite		nite - Cement	
	\$4950 HTTD 54150	277		No. Yards, Sacks	nite - Sand Sl	Mix Ratio or
5. Material Used to Fill Well / Drillhole		From (ft.)	10 (11.)	Volume (circle	one)	Mud Weight
3/8" Bentonite Chips		Surface	20	9,446	73	
6. Comments						
	<u></u>		·			<u></u>
7. Supervision of Work				<u> </u>	ONR Use Or	alv.
Name of Rerson or Firm Doing Filling & Sealing Licen	se# Date of Fill	ing & Sealing	or Verification	Date Received		ted By
Lt traineering	(mm/dd/yyy		17/2019			-
735 Wate St. Svito		ephone Num	ber 4-8300	Comments		
City	ZIP Code		Person Poing W		Date S	igned
Milliankee WI	53202	(	4		一   O .	7/30/201

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

☐ Verification Only of Fill and Seal	Drinking Water	·.	Watershed/Wastewater	Remediation/Redevelopment
vermeation only of the und ocur	Waste Managem	ent	Other:	
1. Well Location Information			/ Owner Information	
County  Willingue Well # of Removed Well	Hicap #	Facility Nan	ne	
	t Code   Method Code	Facility ID (	FID or PWS)	
	DD GPS008		112.5	
	DDM SCR002	License/Per	mit/Monitoring # $QP-$	-JØ
	wnship Range E	Original We	ll Owner	W. W. Carlotte, and the control of t
or Gov't Lot#	N L W	Present We	II Owner	
Well Street Address 1681 N. Van Be	uner St.			
Well Street Address  Well City, Village or Town  Subdivision Name	Well ZIP Code	Mailing Add	ress of Present Owner	
Subdivision Name	Lot#	City of Presi	ent Owner	State ZIP Code
Reason for Removal from Service   WI Unique We	II # of Replacement Well		₋iner, Screen, Casing &	
		'	l piping removed?	Yes No NA
3. Filled & Sealed Well / Drillhole / Borehole		Liner(s) re		Yes No NA N/A
Monitoring Well	on Date (mm/dd/yyyy)	Liner(s) p Screen re		Yes No No NA
Water Well 0 +/17	12017		t in place?	Yes No NANA
	tion Report is available,		ng cut off below surface?	Yes No N/A
Construction Type:			g material rise to surface?	Yes No N/A
Drilled Driven (Sandpoint)	Dug	Did mater	ial settle after 24 hours?	Yes No N/A
Other (specify): Direct Push	homed	If yes,	was hole retopped?	Yes No No N/A
Formation Type:			e chips were used, were the from a known safe source?	
Unconsolidated Formation Bedre	ock	Required Me	thod of Placing Sealing Mat	erial
Total Well Depth From Ground Surface (ft.) Casing	Diameter (in.)		ctor Pipe-Gravity Cond	
40	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	☐ (Bentor	iile Oliips) ——	(Explain): Uravity
Lower Drillhole Diameter (in.) Casing	Depth (ft.)	Sealing Mate		personal .
$\mathcal{Q}$			ement Grout	Concrete
Was well annular space grouted? Yes	No Unknown	<del></del>	ement (Concrete) Grout	X Bentonite Chips
- Limit		1	g Wells and Monitoring Wel	•
If yes, to what depth (feet)? Depth to Water	er (leet)	i	·	Bentonite - Cement Grout
		Granula		Bentonite - Sand Slurry
5. Material Used to Fill Well / Drillhole		From (ft.)	Volume (	acks Sealant or Mix Ratio or circle one) Mud Weight
3/8" Bentonite Chips		Surface	20 9,44	101
	- The should be seen to the should be seen to the should be seen to the seen t			
		Jan and Company of Company		
6. Comments				Annual Control of the
7. Supervision of Work Name of Rersen or Firm Doing Filling & Sealing Lice	Doto of Fill	ing & Coolin-	or Verification Date Receiv	DNR Use Only
Name of Reson of Arm Dolph Filling & Sealing Lice			or Verification Date Receive	ved Noted By
Fireet or Route Water St. Svit	Te	lephone Numb		
City State_	ZIP Code		Person Doing Work	Date Signed
Milliance mi	1 5 3202	(		07/30/20

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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	Drinking Water		Watershed/W	actowater	Remediation/Redevelopment
Verification Only of Fill and Seal	Waste Manageme	ent [	Other:	asicwaici	Tremediation//tedevelopment
1. Well Location Information	vasc manageme		/ / Owner Inf	ormation	
	licap #	Facility Nar	ne		
Latitude / Longitude (see instructions) Format C	Code Method Code	Facility ID (	FID or PWS)		
N 🔲 🖂 DI	GPS008	License/Per	rmit/Monitoring	# 0 -	1
w 🔲 DI	DM SCR002		impunomonig	# SP-2	
74/74 74 Section Town or Gov't Lot #		Original We	ell Owner		
Well Street Address  Wel City, Village or Town  Well Law Coe  Subdivision Name	2 8+	Present We	ell Owner	<del>(10. 11. 11. 11. 11. 11. 11. 11. 11. 11. </del>	
Well City, Village or Town	Well ZIP Code	Mailing Add	ress of Present	Owner	Vernote 1, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 199
Wilwarker	53200				
Subdivision Name	Lot#	City of Pres			State ZIP Code
Reason for Removal from Service   WI Unique Well #	of Replacement Well		Liner, Scree d piping remove	n, Casing & Sea	Iling Material Yes No No N/A
		Liner(s)		su :	Yes No No NA
3. Filled & Sealed Well / Drillhole / Borehole II Original Construction			erforated?	•	Yes No N/A
Monitoring Well 07/17/	2019	Screen re	emoved?		Yes No NA
Water Well	Poport is supilable	Casing le	ft in place?		☐ Yes 🔀 No ☐ N/A
Borehole / Drillhole please attach.	n Report is available,	Was casi	ng cut off below	surface?	Yes No N/A
Construction Type:		Did sealir	ng material rise	to surface?	Yes No N/A
Drilled Driven (Sandpoint)	Dug		rial settle after 2		Yes No N/A
M Other (specify): Direct Push	# Commence of the Commence of		, was hole retor	•	Yes No No NA
Formation Type:			r from a known	sed, were they hyd safe source?	Yes No N/A
Unconsolidated Formation Bedrock	•	Required Me	ethod of Placing	Sealing Material	The year had a seal of the block of the year year open to such the initial section when the report of the termination of the section when the
Total Well Depth From Ground Surface (ft.) Casing Dia	ameter (in.)	harried	ctor Pipe-Gravi	ty Conductor	Pipe-Pumped
30 I	1		ned & Poured nite Chips)	Other (Expl	lain): Uravity
Lower Drillhole Diameter (in.) Casing De	pth (ft.)	Sealing Mate	erials		
J A	0	Neat C	ement Grout		Concrete -
Was well annular space grouted?	No Unknown	Sand-C	Cement (Concre	ete) Grout 🔀	Bentonite Chips
<del></del>			•	onitoring Well Bore	•
If yes, to what depth (feet)?	(Teet)	L1	ite Chips		nite - Cement Grout
A CONTRACTOR OF THE CONTRACTOR		10 A 10 A 10 A	ar Bentonite	Bentor No. Yards, Sacks S	nite - Sand Slurry Sealant or Mix Ratio or
5. Material Used to Fill Well / Drillhole		From (ft.)	10 (11.)	Volume (circle	one) Mud Weight
3/0" Benforite Chips		Surface	<i>ao</i>	Ø, 44 H	3 -
6. Comments					
7. Supervision of Work		<u> </u>		ggggassen gan gan gan k	NR Use Only
Name of Rerson or Firm Doing Filling & Sealing Licens	se # Date of Fill	ng & Şealing	or Verification	Date Received	Noted By
Lt Engineering	(mm/dd/yy	1/70 (v	8/2019	and the state of t	
Street or Route	T-Ich Tel	ephone Num	ber	Comments	
735 N Wate St. USVito			4-8300	e i filosofi Signatura	
City State WI	ZIP Code 53200	Signature of	Person Doing V	vork	Date Signed (2012)
2 (1-5)01	1 3 3000				10 1/30/ 00

### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

☐ Verification Only of Fill and Seal	Drinking Water		Watershed/W	/astewater	Remediat	ion/Redevelopme	∍nt
	Waste Managem		Other:			*****	
1. Well Location Information  County WI Unique Well # of	licap #	2. Facility Facility Nar	<i>y I</i> Owner Inf	ormation			
Mr. Wavee Removed Well	псар т						
Latitude / Longitude (see instructions) Format (	Code Method Code	Facility ID (	(FID or PWS)				
N □ □	D GPS008	11	*************	.71			
w 🔲 D	DM SCR002	License/Pe	rmit/Monitoring	* SP-2	7		
7/1/4 // Section Town	·   `     :	Original We	ell Owner				
or Gov't Lot#	<u>N</u>	Present We	II Owner				
Well Street Address 1681 N. Van Bu	m St.		····				<del></del>
Well Street Address 1681 N. Van Bu Well (ATV) Village or Town Milwakee	Well ZIP Code 53202	Mailing Add	lress of Presen	t Owner			
Subdivision Name	Lot#	City of Pres	ent Owner		State Z	IP Code	
Reason for Removal from Service   WI Unique Well	# of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Se	aling Materia		
		· ·	d piping remov	ed?	Ye		
3. Filled & Sealed Well / Drillhole / Borehole I	nformation	Liner(s) r			∐ Ye.	<u></u>	
Monitoring Well Original Construction	Date (mm/dd/yyyy)	1	perforated?		∐ Ye.		
Water Well 0 +/ ] 7	2017	Screen re	ft in place?		Ye.	一. 器	
	n Report is available,		ng cut off belov	v surface?	Ye:		
Construction Type:		Did sealir	ng material rise	to surface?	Ye:	s No No	/A
Drilled Driven (Sandpoint)	Dug	Did mater	rial settle after 2	24 hours?	Yes	s 😡 No 🔲 N/	/A
Other (specify): Direct Push	<b>_</b>	I -	, was hole reto	•	Yes	s 🗌 No 🏹 N/	/A
Formation Type:			te chips were u r from a known	sed, were they hyd safe source?	Irated Yes	s No N	/A
Unconsolidated Formation Bedroc	k	Required Me	ethod of Placing	Sealing Material			
Total Well Depth From Ground Surface (ft.) Casing Di	ameter (in.)		=	ity 🔲 Conductor		-1-	
. 10	-		ned & Poured mite Chips)	Other (Exp	olain): Urqv	ity	
Lower Drillhole Diameter (in.) Casing De	epth (ft.)	Sealing Mate		<del></del>	<del></del>		
$\mathcal{Z}$		Neat C	ement Grout		Concrete	-	
	<b>—</b>	Sand-0	Cement (Concre	ete) Grout 🛛 🔀	Bentonite Ch	ips	
Was well annular space grouted?	No Unknown	For Monitori	ng Wells and M	onitoring Well Bore	eholes Only:		
If yes, to what depth (feet)? Depth to Water	(feet)	Bentor	nite Chips	Bento	nite - Cement	Grout	
	_	Granul	ar Bentonite	Bento	nite - Sand Slu	ırry	
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks	Sealant or	Mix Ratio or Mud Weight	
3/8" Bentonite Chips		Surface	10	Volume (circle	13	widd weight.	
- 18 Berreit & Chips		Buixage		y . 90 L	f		
							_
6. Comments							
7. Supervision of Work			ZPOLISH TO LINE SOLIT		ONR Use On	lv	7
Name of Reison or Firm Doing Filling & Sealing Licen				Date Received		ed By	1
LE Engineering			17/2019				
Fireet or Route Vate St. Svito	5 Ø	lephone Num イパ) みる	ber 4-8300	Comments			
City State	ZIP Code		Person Roing V		Date Si		<u> </u>
Milliance wi	53202		4		0:	t/30/2	0

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau	:			
☐ Verification Only of Fill and Seal	Drinking Water		] Watershed/	Wastewater	Remediation/Redevelopment
	Waste Manageme	ent	Other:		
1. Well Location Information		2. Facilit	y / Owner Ir	formation	
County WI Unique Well # of Removed Well #	Hicap #	Facility Na	me		
Latitude / Longitude (see instructions) Format	Code Method Code	Facility ID	(FID or PWS)		
N □	DD GPS008	Lieonno/Da			
w D	DDM SCR002	License/Pe	rmit/Monitorin	9* SP-6	) \( \rangle \)
	nship Range E	Original We	ell Owner	/ 0	<del>х</del> Э
or Gov't Lot #		Jong	J. J. J. J. J. J. J. J. J. J. J. J. J. J		
W. 10. 10.11	:\	Present We	ell Owner	TO THE REST OF THE PARTY OF THE	
(68) N. Van Bu	iren St.				
WellCity Village or Town	Well ZIP Code	Mailing Add	dress of Prese	nt Owner	
Subdivision Name	Lot #	City of Pres	sent Owner		State ZIP Code
Reason for Removal from Service   WI Unique Well	I # of Replacement Well	4. Pump,	Liner, Scre	en, Casing & S	ealing Material
		Pump an	ıd piping remo	ved?	Yes No XNA
3. Filled & Sealed Well / Drillhole / Borehole	Information	Liner(s)	removed?		Yes No No N/A
	n Date (mm/dd/yyyy)	1 '''	perforated?	`	Yes No No N/A
Water Well 07/17/	2019	Screen re			Yes No No NA
If a Well Constructi	on Report is available,	<del></del>	eft in place?		Yes No No NA
Borehole / Drillhole please attach.		j	ing cut off belo		☐ Yes ☐ No 🕍 N/A
Construction Type:	——————————————————————————————————————	i	ng material ris rial settle after		Yes ∐No ∐N/A ☐Yes ☑No ☐N/A
Drilled Driven (Sandpoint)  Other (specify): Direct Push	Dug	l .	, was hole ret		∐ Yes ∭ No ∭ N/A ∭ Yes ∭ No ∭ N/A
M and (about);		1 '	-	used, were they hy	drated
Formation Type:				n safe source?	Yes No N/A
Unconsolidated Formation Bedro				ng Sealing Material	
Total Well Depth From Ground Surface (ft.) Casing D	Diameter (in.)	Ld	ictor Pipe-Gra ned & Poured	• =	or Pipe-Pumped mlain): Uavitu
. 47		니 (Bento	onite Chips)	Other (Ex	(plain): O'C(V()Y
Lower Drillhole Diameter (in.)	Depth (ft.)	Sealing Mat		_	7.0
$\sim$			Cement Grout	L.	Concrete
Was well annular space grouted? Yes	No Unknown	<u></u>	Cement (Cond	• •	Bentonite Chips
If yes, to what depth (feet)? Depth to Wate			=	Monitoring Well Bo	
r joo, to mad dopin (loos).	- (1001)	=	nite Chips	= = = = = = = = = = = = = = = = = = =	onite - Cement Grout
			lar Bentonite	No. Yards, Sacks	onite - Sand Slurry Sealant or Mix Ratio or
5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	Volume (circ	le one) Mud Weight
3/0" Bentonite Chips		Surface	25	P.55-6	78
·		·			
6. Comments		1.00			
o, comments		· · · · · · · · · · · · · · · · · · ·			
7. Supervision of Work					DNR Use Only
Name of Rerson or Firm Doing Filling & Sealing Lice			or Verification		Noted By
LE Engineering		M 67/	17/201		
735 N Wate St. Svite	5 5 10 1ch	ephone Num イパ)るる	19-8300 4-8300	Comments	
State WI Way Cee WI	ZIP Code 5 3200	Signature of	Person Doing	Work	Date Signed 0 7/30/20
2 11 - 210 1 1 Wanter	ココラベント	<b>.</b>			10.77

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

·	Route to DNR Bureau		
Verification Only of Fill and Seal	Drinking Water	Watershed/Wastewater	Remediation/Redevelopment
<b>L</b> orent V	Waste Manageme	ent Other:	
1. Well Location Information		2. Facility / Owner Information	
County   WI Unique Well # o	f Hicap#	Facility Name	
	ormat Code Method Code	Facility ID (FID or PWS)	
N	□DD □GPS008	License/Permit/Monitoring # C > ~	
w	DDM SCR002	31-9	H
7/11/4 1/4 Section or Gov't Lot #	Township Range E	Original Well Owner	
Well Street Address		Present Well Owner	
Wolffish Village or Town	Well ZIP Code	Mailing Address of Present Owner	
Well Street Address 1681 N Van Bur Well City Village or Town Mr. Wal Coe	7_3509		Totale TID Code
Subdivision, Name	Lot #	City of Present Owner	State ZIP Code
Reason for Removal from Service WI Uniqu	e Well # of Replacement Well	4. Pump, Liner, Screen, Casing & Sea	
		Pump and piping removed?	Yes No NA
3. Filled & Sealed Well / Drillhole / Bore		Liner(s) removed? Liner(s) perforated?	∐Yes ∐No MANA ∏Yes ∏No MANA
Monitoring Well   / /	struction Date (mm/dd/yyyy)	Screen removed?	Yes No No N/A
Water Well	+12011·	Casing left in place?	Yes No N N/A
Borehole / Drillhole If a Well Complease attact	struction Report is available, n.	Was casing cut off below surface?	Yes No No N/A
Construction Type:		Did sealing material rise to surface?	🔯 Yes 🔲 No 🔲 N/A
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?	Yes 🕍 No 🔛 N/A
Other (specify): Direct Pu	sh	If yes, was hole retopped?	Yes No No N/A
Formation Type:	•	If bentonite chips were used, were they hydrowith water from a known safe source?	ated Yes No N/A
Unconsolidated Formation	Bedrock	Required Method of Placing Sealing Material	
Total Well Depth From Ground Surface (ft.)   Ca	sing Diameter (in.)	Conductor Pipe-Gravity Conductor F	Pipe-Pumped
10		Screened & Poured (Bentonite Chips) Other (Expla	ain): bravity
Lower Drillhole Diameter (in.)	using Depth (ft.)	Sealing Materials	
$\mathcal{Q}$			Concrete
Was well annular space grouted?	es 🛛 No 🔲 Unknown	Sand-Cement (Concrete) Grout  For Monitoring Wells and Monitoring Well Borel	Bentonite Chips noles Only:
If yes, to what depth (feet)? Depth to	Water (feet)		ite - Cement Grout
		Granular Bentonite Benton	ite - Sand Slurry
5. Material Used to Fill Well / Drillhole		From (ft.) To (ft.) No. Yards, Sacks So Volume (circle of	ealant or Mix Ratio or
3/0" Bentonite Chips		Surface 10 0. 23 f	.3
6. Comments			
7. Supervision of Work Name of Reisen or Firm Doing Filling & Sealing	License # Date of Filli	ng & Sealing or Verification Date Received	NR Use Only Noted By
Lt Engineering	(mm/dd/yyy	y) 67/17/2019	110000 07
Street or Route V Water Stars		Phone Number Comments	
City		Signature of Person Doing Work	Date Signed 0 7/30/2019
			10 1/20/ 901

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

☐ Verification Only of Fill and Seal	Drinking Water		] Watershed/Wast	ewater 💆	Remedia	ation/Redeve	elopment
	Waste Manageme		Other:		·		
1. Well Location Information	21 11		/ / Owner Inforn	nation			
County   WI Unique Well # of   Removed Well   Removed Well	licap #	Facility Nan					
Latitude / Longitude (see instructions) Format C	Code   Method Code	Facility ID (	FID or PWS)				
N D	Coccos				************	·	
w	SCR002	License/Per	rmit/Monitoring #	S 12-01	5		
7/4 1/4 Section Town or Gov't Lot #	·	Original We	ell Owner				
Well Street Address 1681 N. Van Bu		Present We	II Owner		Mary property and the second s		
		Mailing Add	ress of Present Ow	mer			
Well City Village or Town MI Laukee	Well ZIP Code						
Subdivision Name	Lot#	City of Pres	ent Owner	ĺ	State	ZIP Code	
Reason for Removal from Service   WI Unique Well #	of Replacement Well		Liner, Screen, C	asing & Seal	ing Mater	ial	
		, .	d piping removed?		Y	es No	N/A
3. Filled & Sealed Well / Drillhole / Borehole I	nformation	Liner(s) re	emoved?	_	∐Ү	es   No	N/A
Monitoring Well Original Construction	Date (mm/dd/yyyy)	1	erforated?	`	ĽΥ	es   No	X N/A
日 10 + / 1 ユ / .	2019	Screen re				es No	N/A
Water Well If a Well Construction	n Report is available,	Gasing let	ft in place?		Y	es No	X N/A
Borehole / Drillhole please attach.	·	Was casir	ng cut off below su	face?	Y(	es No	<b>⋈</b> N/A
Construction Type:		l	ng material rise to s		<b>₩</b>	es   No	∐ N/A
Drilled Driven (Sandpoint)	Dug		ial settle after 24 h		∐ Y∙	es 🔽 No	∐ N/A
Other (specify): Direct Push			, was hole retopped		L	es No	[X] N/A
Formation Type:			le chips were used, r from a known safe		ited 🛛 Ye	es No	□ N/A
Unconsolidated Formation Bedrock	ζ		ethod of Placing Se		· · · · · · · · · · · · · · · · · · ·	×	
V-3	ameter (in.)	Condu	ctor Pipe-Gravity	Conductor P	ipe-Pumped	d	
			ed & Poured	Other (Expla	in): Ura	viti	
Lower Drillhole Diameter (in.) Casing De	nth /ft \	Sealing Mate	inte Criips)	73 - 111-1 (-111-11			
Lower Drinking Diameter (iii.)	pur (it.)		ement Grout		Concrete	· ·	
		<u> </u>	Cement (Concrete)		Bentonite C	hina	
Was well annular space grouted?	No Unknown			14_33		ilips	
f yes, to what depth (feet)? Depth to Water			ng Wells and Monit		o <i>ies Only:</i> te - Cement	Crouk	
			ite Chips ar Bentonite	<u></u>			
		garantan da	NIA"	Yards, Sacks Se	te - Sand Sl	Mix Ratio	Nor control
5. Material Used to Fill Well / Drillhole		From (ft.)	10 (11.)	Volume (circle o	ne)	Mud Wei	ght
3/0" Bentonit Chips		Surface	10	Vid2 to	3		
				•			
3. Comments		8. V N N			-		
7. Supervision of Work					IR Use O		
Name of Reison or Firm Doing Filling & Sealing Licens	se # Date of Filli (mm/dd/yyy		or Verification Da	te Received	No	ted By	
Fireet or Route V Water St. Svito		ephone Numb	ber Co 4-8300	mments	- Ly		
Dity State		· ·	Person Roing Work		Date S	Signed	
Milliance WI	53202				_ O		<u> </u>

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

	Route to DNR Bureau:	:
Verification Only of Fill and Seal	Drinking Water	☐ Watershed/Wastewater ☐ Remediation/Redevelopment
	Waste Manageme	ent Other:
1. Well Location Information	<b>有是不要性。因此这一种实现</b>	2. Facility / Owner Information
County WI Unique Well # of	Hicap #	Facility Name
MI Wavece Removed Well		
		Facility ID (FID or PWS)
,	nat Code   Method Code   GPS008	
N   L	DD GPS006	License/Permit/Monitoring # O D A
w [	DDM DTH001	SP-26
1/4 1/4 Section 7	ownship Range E	Original Well Owner
or Gov't Lot #	N  w	
Well Street Address		Present Well Owner
Well Street Address  1681 V. Van Bu Well City Village or Town  W( Laxae	ner St.	
Well City Village or Town	Well ZIP Code	Mailing Address of Present Owner
Milwadee	53200	
Subdivision Name	Lot#	City of Present Owner State ZIP Code
Reason for Removal from Service   WI Unique V	Vell # of Replacement Well	4. Pump, Liner, Screen, Casing & Sealing Material
		Pump and piping removed?
3. Filled & Sealed Well / Drillhole / Boreho	le Information	Liner(s) removed?
Monitoring Well Original Constru	ction Date (mm/dd/yyyy)	Liner(s) perforated?
H 10 + / 17	-/2019	Screen removed?
Water Well If a Well Constru	uction Report is available,	Casing left in place? Yes No X N/A
Borehole / Drillhole please attach.		Was casing cut off below surface? Yes No No N/A
Construction Type:		Did sealing material rise to surface? Yes No N/A
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours?
Other (specify): Direct Push		If yes, was hole retopped?
Formation Type:		If bentonite chips were used, were they hydrated with water from a known safe source?
Unconsolidated Formation	drock	Required Method of Placing Sealing Material
4	g Diameter (in.)	Conductor Pipe-Gravity Conductor Pipe-Pumped
Hotal Vall Bepart of the Grand Sariass (i.i.)	g Diameter (m.)	Screened & Poured Stother (Explain): 2007
D III 1 Di 1 ( )	D # (0)	(Bentonite Chips)
Lower Drillhole Diameter (in.)	g Depth (ft.)	Sealing Materials
$\sim$		Neat Cement Grout Concrete
Was well annular space grouted? Yes	No Unknown	Sand-Cement (Concrete) Grout
		For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)?	ater (feet)	Bentonite Chips Bentonite - Cement Grout
,		Granular Bentonite Bentonite - Sand Slurry
5. Material Used to Fill Well / Drillhole		From (ft.) To (ft.) No. Yards, Sacks Sealant or Wolume (circle one) Mix Ratio or Mud Weight
3/8" Bentonite Chips		Surface 9 0,088 H3
18 Serient to original		1 47430 (7
6. Comments	an Proceedings with	是不是一个人,但是一个人的人,但是一个人的人们的人们的人们的人们的人们的人们的人们们的人们们们的人们们们们们们们们们
- 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		DND II O. I.
7. Supervision of Work Name/of Rerson or Firm Doing Filling & Sealing	icense # Date of Fill	DNR Use Only
Engineering	(mm/dd/yy	
Street or Route		elephone Number Comments
735 N Wat Stusin		414) 224-8300
City State		Signature of Person Quing Work Date Signed
Milliar Cee in		07/30/201

#### Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

age 1 of

	Route to DNR Bureau	:		,	
☐ Verification Only of Fill and Seal	Drinking Water	nt [	Watershed/Wastewat	ter 🔀 F	Remediation/Redevelopment
	Waste Manageme		Other:	Disease The Control of the Control o	
1. Well Location Information	l liane #		<i>y I</i> Owner Informati	on	
County  WI Unique Well # of Removed Well	Hicap #	Facility Nar			
	I Method Code	Facility ID (	(FID or PWS)		
, , , , , , , , , , , , , , , , , , , ,	DD GPS008				
	DDM SCR002	License/Pe	rmit/Monitoring # 5	P-27	
1/4 1 1/4   Section   To	wnship Range E	Original We			
or Gov't Lot #	N W				
Well Street Address (8) N. Van	Ruser St.	Present We	ell Owner		
Well City Village or Town	Well ZIP Code	Mailing Add	dress of Present Owner		
Milwarter	123900	011(D	10	lou	1710 0 1
Subdivision Name	Lot #	City of Pres	sent Owner	Sta	ate ZIP Code
Reason for Removal from Service   WI Unique We	ell # of Replacement Well	4. Pump,	Liner, Screen, Cas	ing & Sealing	Material
The state of the s	m m of replacement from	Pump an	d piping removed?		Yes No No N/A
3. Filled & Sealed Well / Drillhole / Borehol	Information	Liner(s) r	removed?		Yes No No N/A
Original Construct	ion Date (mm/dd/yyyy)	Liner(s) p	perforated?		Yes No No NA
Monitoring Well	12019	Screen re	emoved?		Yes No No N/A
Water Well	12011	Casing le	eft in place?		Yes No N/A
Borehole / Drillhole  If a Well Construct please attach.	tion Report is available,		ing cut off below surface	e?	Yes No N/A
Construction Type:	(	Did sealir	ng material rise to surfa	ice?	Yes No N/A
Drilled Driven (Sandpoint)	Dug	Did mate	rial settle after 24 hours	s?	Yes No N/A
=		If yes	s, was hole retopped?		Yes No No NA
Other (specify).		If bentoni	ite chips were used, we	ere they hydrated	/ Mar
Formation Type:		with wate	er from a known safe so	urce?	Yes No N/A
Unconsolidated Formation Bed	rock	Required M	ethod of Placing Sealin	g Material	
Total Well Depth From Ground Surface (ft.) Casing	Diameter (in.)	Condu	uctor Pipe-Gravity	Conductor Pipe	-Pumped
H			ned & Poured onite Chips)	Other (Explain):	bravity
Lower Drillhole Diameter (in.) Casing	Depth (ft.)	Sealing Mat	terials		
$\sim$		Neat 0	Cement Grout	Cor	ncrete
		☐ Sand-	Cement (Concrete) Gro	out X Ber	ntonite Chips
Was well annular space grouted? Yes	No Unknown		ing Wells and Monitorin	-	
If yes, to what depth (feet)? Depth to Wa	ter (feet)	1 —	nite Chips		Cement Grout
			lar Bentonite		
			No Vor	rds, Sacks Seala	Sand Slurry ant or Mix Ratio or
5. Material Used to Fill Well / Drillhole		From (ft.)		lume (circle one)	
3/8" Bentonite Chips	CSS PROCESSES SEARCHES AND AND AND AND AND AND AND AND AND AND	Surface	4 0	1.088	3 -
7. 70			7	· · · · · · · · · · · · · · · · · · ·	
6. Comments			<b>国外发生更多的</b> 为	<b>建工业性</b>	
7. Supervision of Work Name/of Rerson or Firm Doing Filling & Sealing Lie	cense # Date of Fil	ling & Scalle	g or Verification Date I	DNR Received	Use Only Noted By
Trailed respiratory of the Congression of the Congr		$(yy) \bigcirc 7$	17/2019	Received	Noted by
Street or Route V Wat St. SUIT		elephone Num	nber Comn	nents	
			Person Poing Work		Date Signed
City / Warkee State	D 53202	Signature of	John Work		0 7/30/20V

# Appendix 4 Key Engineering Group, Ltd.

www. key engineering. com

4	J II	JY~~
County milwauka Twp. Milwaukee Sec. Cute	<del>{</del>	,,,
(Office Record—Do not fill in) $SW/SW/NW, Sec 21/T7N R22E$	<b>ブ</b> ノ	-39-G
[SW/ 5W, 5W, 7W, JEE 27.		39.55

# TO THE WISCONSIN STATE BOARD OF HEALTH, WELL DRILLING DIVISION, MADISON, WIS.

# WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board (TO BE USED FOR THAT PURPOSE ONLY) Tanning Co. Driller Layne Northwest Milwaukee Wisconsin Date of Report October No. Commerce ..... Registration No. Give below the location of the property on which well is drilled.

If incorporated village or city:

Name

Lot If unincorporated hamlet .. Highway If Lake Shore Plat ..... Lake Lot If Farm Highway County District

Twn

If other public building ......
Miscellaneous .....

	WELL LOG and R	FPORT
Kind of casing and liner in feet. Kind of shoe. Indicate grout, screen, seal, etc.	WELL DIAGRAM Give dent	h of formations in feet. dry or water bearing.  Record of FINAL Pumping Test
58° of 16" O.D. Steel Drive Pipe		Cinders Duration of test.  Boards Hours
vith forged steel hive shoe	25 Quic L	Sand & grave/ G. P. M. //OO
	35 Hard 39 Hard 50 Hard 58 58	Pan  Depth of pump in well.  Ft. 62-4  Standing water-level (from surface.)
	75 75 75 75 21me	Ft
	180 Shale	Was well sterilized before test? Yes No
	200 Lim	To which Laboratory was sample sent?  Date
196'-10" of 10". D. steel Liner from 23'-2" to 720'	400 400 400 400 523 0° 590 Fige 620 Line	Yes No How high did you leave casing above grade?  Shale  Yes No No No No No No No No No No No No No
?3-2" <i>To 720</i>	720 720 Sha	
	1200 1300 Jands	(Be sure to complete the report on the reverse side

# WELL CONSTRUCTION REPORT WISCONSIN STATE BOARD OF HEALTH WELL DRILLING DIVISION

ml -138-G-JUN 24 1942

Note: Section 32 of the Wisconsin Well Drilling Sanitary Code, having the force and effect of law, provides that within thirty days after completion of every well the driller shall submit a report covering all essential details of construction to the State Board of Health on a form provided by the Board.

Owner	AF_	Gallun Sons	Corp.		——————————————————————————————————————	
		8 N Water St.				Milwaukee, Wis
Post Offic	ceMilw	aukee, Wis.	eri ing one data and the sad test and an an an	Date6	/1/42 Pe	ermit No21
				OF PREMISES		~
~~~~	County	N Water St.	Vilwauk	Gee, Wis.		resents a section of land racts. Mark the position section $SF, NW$ , Sec. 2
		est principal highway,				Twp. 7 N Range 22 { ©
~~~~			DIAGRAM (	OF PREMISES	NE,NW,NE	,sw,se,nw, Sec.21
See discuss distance be	sion and illustr etween lines.	ration in Part III Well Be sure to indicate NO			gram in the space below	consider 10 ft. as the well # 54808
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				,		

may be obtained in lots of 12 for 25¢. Send remittance with order to State Board of Health, Well

# WISCONSIN DEPT OF NATURAL RESOURCES

# Surface Water Data Viewer Map



0.1 Miles

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

#### Legend

 Wetland Identifications and Confirmations

Wetland Class Points

Dammed pond

Excavated pond

Filled excavated pond

Filled/drained wetland

Wetland too small to delineate

Filled Points

Wetland Class Areas

Wetland

Upland

Filled Areas

Wetland Class Points

Dammed pond

Excavated pond

Filled excavated pond

Filled/drained wetland

Wetland too small to delineate

// Filled Points

Wetland Class Areas

::: Wetland

Upland

Filled Areas

NRCS Wetspots

Maximum Extent Wetland Indicators

Intermittent Streams

 24K Hydrography Streams and Rivers

24K Hydrography Lakes and Open Water

Municipality

State Boundaries

County Boundaries

Notes

NAD\_1983\_HARN\_Wisconsin\_TM

0.1

1: 3,960

0.06

# State of Wisconsin DEPARTMENT OF NATURAL RESOURCES Waukesha Service Center 141 NW Barstow, Room 180 Waukesha, WI 53188

Scott Walker, Governor Cathy Stepp, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



December 16, 2015

WIC-SE-2015-41-03818

The Sigma Group James Leedom 1300 West Canal Street Milwaukee, WI 53233

RE:

Wetland Delineation Report for an approximately 3 acre project area (1701 N. Water Street) located in the SW1/4 of the NW1/4 of Section 21, Township 7 North, Range 22 East, City of Milwaukee, Milwaukee County

#### Dear Mr. Leedom:

We have received and reviewed the wetland delineation report prepared for the above mentioned site by OTIE. This letter will serve as confirmation that the wetland boundaries as shown on the attached wetland delineation map are acceptable. This finding is based upon a 10/23/2015 field visit. Any filling or grading within these areas will require DNR approvals. Our wetland confirmation is valid for five years unless altered site conditions warrant a new wetland delineation be conducted. Be sure to send a copy of the report, as well as any approved revisions, to the U.S. Army Corps of Engineers.

In order to comply with Chapter 23.321, State Statutes, please supply the department with an electronic file, in CAD or GIS format, of all wetland boundaries delineated within the project area. The electronic file should utilize a State Plane Projection, and be overlain onto recent aerial photography. If a different projection system is used, please indicate what system the data are projected to. Please send these data to Calvin Lawrence (608-266-0756, or calvin.lawrence@wisconsin.gov).

There is a navigable stream (Milwaukee River) identified adjacent to the property. DNR Chapter 30 permits may be needed if earthwork (filling, dredging, etc.) or structures (culverts, bridges, erosion control, etc.) are proposed in or adjacent to the waterway.

If you are planning development on the property, you are required to avoid take of endangered and threatened species, or obtain an incidental take authorization, to comply with the state's Endangered Species Law. To insure compliance with the law, you should submit an endangered resources review form (Form 1700-047), available at

http://dnr.wi.gov/topic/ERReview/Review.html. The Endangered Resources Program will provide a review response letter identifying any endangered and threatened species and any conditions that must be followed to address potential incidental take.

In addition to contacting WDNR, be sure to contact your local zoning office and U.S. Army Corps of Engineers to determine if any local or federal permits may be required for your project.

We are committed to service excellence.

Visit our survey at <a href="http://dnr.wi.gov/customersurvey">http://dnr.wi.gov/customersurvey</a> to evaluate how I did.



If you have any questions, please contact me at (262) 574-2115 or email Neil.Molstad@wisconsin.gov.

Sincerely,

Neil Molstad

Wetland Identification Specialist

CC:

Marie Kopka, Project Manager, U.S. Army Corps of Engineers

Thomas Mishefske, Department of Neighborhood Services, City of Milwaukee

Scott Horzen, OTIE

Wayne Wiertzema, Wangard Partners

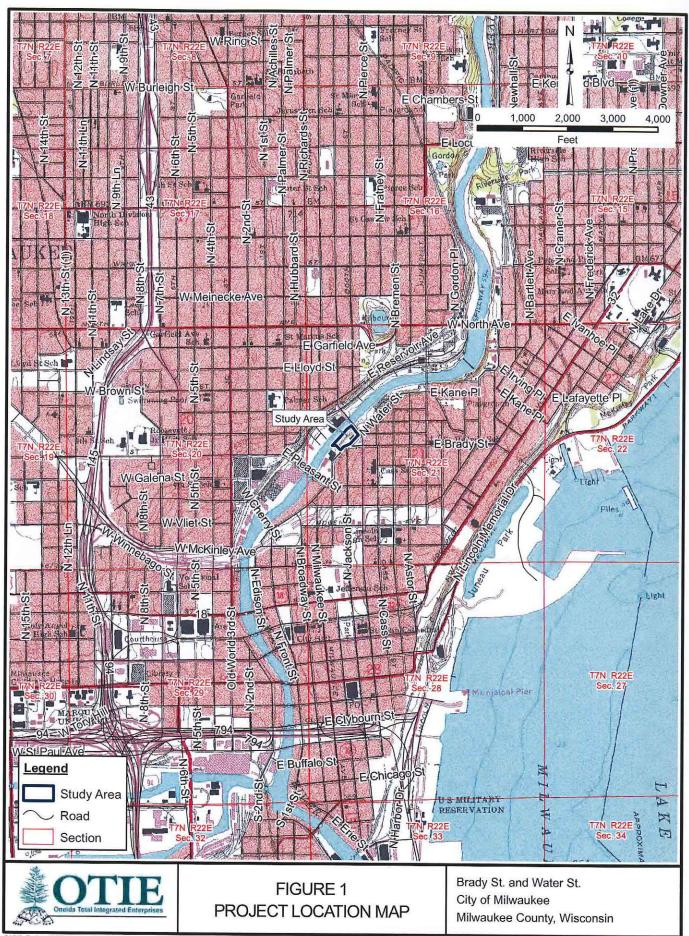
April Marcangeli, DNR Water Management Specialist

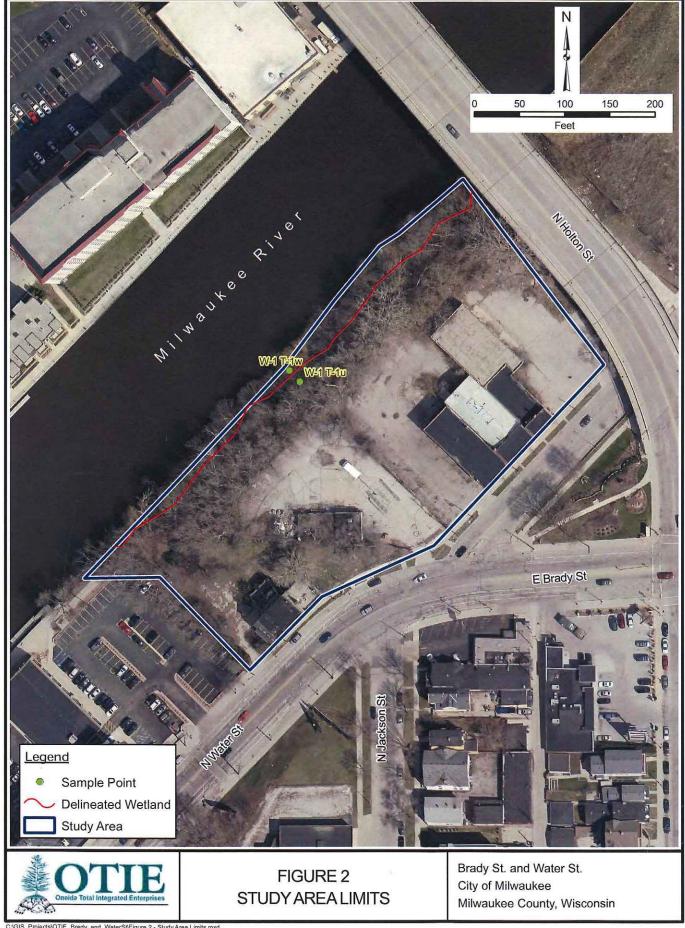
Intake, DNR Stormwater SE Region

Chris Jors, SEWRPC

#### Attachments:

Project Area Location Map Wetland Delineation Map for the Project Area





# Appendix 5 Key Engineering Group, Ltd.



# **Environment Testing TestAmerica**

# **ANALYTICAL REPORT**

Eurofins TestAmerica, Chicago 2417 Bond Street University Park, IL 60484 Tel: (708)534-5200

Laboratory Job ID: 500-166949-1

Client Project/Site: 1681 N. Van Buren - 1604-1011-00002

Key Engineering Group, Ltd. 735 North Water Street Suite 510 Milwaukee, Wisconsin 53202

Sanda Ireduik

Attn: Toni Schoen

Authorized for release by: 7/30/2019 6:22:10 PM

Sandie Fredrick, Project Manager II

(920)261-1660

sandie.fredrick@testamericainc.com

·····LINKS ······

**Review your project** results through Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# **Table of Contents**

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#### **Case Narrative**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Laboratory: Eurofins TestAmerica, Chicago

**Narrative** 

Job Narrative 500-166949-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/19/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

#### GC/MS VOA

The extraction blank for 496278 contained Naphthalene. Naphthalene was above the method detection limit (MDL) but below the reporting limit (RL). The method blank associated with analytical batch 496533 has detect for Naphthalene above the method detection limit (MDL) but below the reporting limit (RL). This target analyte concentration were detected in the associated samples; therefore, re-analysis of samples was not performed. Naphthalene results have been flagged in the associated samples with a "B" flag denote the presence in the blank and possible lab contamination.

The method blank for 496533 contained Naphthalene above the method detection limit and below the Reporting limit (RL). This target analyte concentration were detected in the associated samples; therefore, re-analysis of samples was not performed. Naphthalene results have been flagged in the associated samples with a "B" flag denote the presence in the blank and possible lab contamination.

The laboratory control sample (LCS) for 496533 recovered outside control limits for the following analytes: Dibromometane, Bromoform and 1,2-Dibromo-3-chloropropane. These analytes were biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for 496764 recovered outside control limits for the following analytes: Bromoform and 1,2-Dibromo-3-chloropropane. These analytes were biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The extraction LCS associated with preparation batch 496278 has Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane recoveries above control limits. The instrument LCS associated with analytical batch 496533 had Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane recoveries above control limits. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified. SP20 16-18 (500-166949-1), SP11 1-3 (500-166949-2), SP12 8-10 (500-166949-3), SP13 7-9 (500-166949-4), SP15 2-4 (500-166949-5), SP16 2-4 (500-166949-6), SP17 2-4 (500-166949-7), SP18 2-4 (500-166949-8), SP19 2-4 (500-166949-9), SP11 7-9 (500-166949-10), SP15 8-10 (500-166949-11), SP15 16-18 (500-166949-12), SP16 8-10 (500-166949-13), SP16 16-18 (500-166949-14) and SP17 8-10 (500-166949-15)

The extraction LCS associated with preparation batch 496279 has Bromoform and 1,2-Dibromo-3-Chloropropane recoveries above control limits. The instrument LCS associated with analytical batch 496764 had Bromoform and 1,2-Dibromo-3-Chloropropane recoveries above control limits. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified. SP17 16-18 (500-166949-16), SP18 8-10 (500-166949-17), SP18 16-18 (500-166949-18), SP19 8-10 (500-166949-19), SP19 16-18 (500-166949-20), SP22 8-10 (500-166949-21), SP23 16-18 (500-166949-22), SP24 2-4 (500-166949-23), SP24 8-10 (500-166949-24), SP25 8-10 (500-166949-25), SP26 2-4 (500-166949-26), SP27 2-4 (500-166949-27) and SP21 16-18 (500-166949-28)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 496533 were outside control limits for Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was outside acceptance limits for Bromoform, Dibromomethane and 1,2-Dibromo-3-Chloropropane. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP20 16-18

Lab Sample ID: 500-166949-1

No Detections.

Client Sample ID: SP11 1-3 Lab Sample ID: 500-166949-2

No Detections.

Client Sample ID: SP12 8-10 Lab Sample ID: 500-166949-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.10	В	0.058	0.019	mg/Kg	50	₩	8260B	Total/NA
1,2,4-Trichlorobenzene	0.045	J	0.058	0.020	mg/Kg	50	₩	8260B	Total/NA

Client Sample ID: SP13 7-9 Lab Sample ID: 500-166949-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Naphthalene	0.033 JB	0.059	0.020 mg/Kg	50	≅ 8260B	Total/NA

Client Sample ID: SP15 2-4 Lab Sample ID: 500-166949-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.021	JB	0.057	0.019	mg/Kg	50	₩	8260B	Total/NA
Tetrachloroethene	6.4		0.057	0.021	mg/Kg	50	₩	8260B	Total/NA
Trichloroethene	0.28		0.028	0.0093	mg/Kg	50	₩	8260B	Total/NA

Client Sample ID: SP16 2-4 Lab Sample ID: 500-166949-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.024	JB	0.061	0.020	mg/Kg	50	₩	8260B	 Total/NA
Tetrachloroethene	3.5		0.061	0.023	mg/Kg	50	₩	8260B	Total/NA

Client Sample ID: SP17 2-4 Lab Sample ID: 500-166949-7

No Detections.

Client Sample ID: SP18 2-4 Lab Sample ID: 500-166949-8

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Naphthalene	0.029 JB	0.070	0.023 mg/Kg	50	≅ 8260B	Total/NA

Client Sample ID: SP19 2-4 Lab Sample ID: 500-166949-9

No Detections.

Client Sample ID: SP11 7-9 Lab Sample ID: 500-166949-10

No Detections.

Client Sample ID: SP15 8-10 Lab Sample ID: 500-166949-11

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Tetrachloroethene	1.3	0.057	0.021 mg/Kg	50 🛱	8260B	Total/NA

Client Sample ID: SP15 16-18 Lab Sample ID: 500-166949-12

Analyte	Result Qualifier	RL	MDL U	Jnit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.5	0.060	0.022 m	ng/Kg	50	₩	8260B	Total/NA
Trichloroethene	0.083	0.030	0.0098 m	ng/Kg	50	₩	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

7/30/2019

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Client: Key Engineering Group, Ltd. Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 8-10

Lab Sample ID: 500-166949-13

No Detections.

Client Sample ID: SP16 16-18 Lab Sample ID: 500-166949-14

No Detections.

Client Sample ID: SP17 8-10 Lab Sample ID: 500-166949-15

No Detections.

Client Sample ID: SP17 16-18 Lab Sample ID: 500-166949-16

No Detections.

Client Sample ID: SP18 8-10 Lab Sample ID: 500-166949-17

No Detections.

AnalyteResult<br/>NaphthaleneQualifierRLMDL<br/>J BUnitDil Fac<br/>mg/KgDMethodPrep TypeTotal/NA

Client Sample ID: SP19 8-10 Lab Sample ID: 500-166949-19

No Detections.

No Detections.

Client Sample ID: SP22 8-10 Lab Sample ID: 500-166949-21

No Detections.

Client Sample ID: SP23 16-18 Lab Sample ID: 500-166949-22

No Detections.

Client Sample ID: SP24 2-4 Lab Sample ID: 500-166949-23

No Detections.

Client Sample ID: SP24 8-10 Lab Sample ID: 500-166949-24

No Detections.

Client Sample ID: SP25 8-10 Lab Sample ID: 500-166949-25

No Detections.

Client Sample ID: SP26 2-4 Lab Sample ID: 500-166949-26

No Detections.

Client Sample ID: SP27 2-4 Lab Sample ID: 500-166949-27

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Tetrachloroethene	0.064	0.053	0.020 mg/Kg	50 🌣 8260B	Total/NA

This Detection Summary does not include radiochemical test results.

7/30/2019

# **Detection Summary**

Client: Key Engineering Group, Ltd.

Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

### Client Sample ID: SP21 16-18

#### Lab Sample ID: 500-166949-28

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Ethylbenzene	0.29	0.016	0.012 mg/Kg	50 🛱	8260B	Total/NA
Naphthalene	0.036 J	0.065	0.022 mg/Kg	50 🌣	8260B	Total/NA
N-Propylbenzene	0.10	0.065	0.027 mg/Kg	50 ♡	8260B	Total/NA

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# **Method Summary**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

#### **Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Job ID: 500-166949-1

# **Sample Summary**

Client: Key Engineering Group, Ltd.

500-166949-28

SP21 16-18

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166949-1	SP20 16-18	Solid	07/17/19 18:50	07/19/19 09:20	
500-166949-2	SP11 1-3	Solid	07/17/19 17:00	07/19/19 09:20	
500-166949-3	SP12 8-10	Solid	07/17/19 17:25	07/19/19 09:20	
500-166949-4	SP13 7-9	Solid	07/17/19 17:10	07/19/19 09:20	
500-166949-5	SP15 2-4	Solid	07/17/19 18:05	07/19/19 09:20	
500-166949-6	SP16 2-4	Solid	07/17/19 18:00	07/19/19 09:20	
500-166949-7	SP17 2-4	Solid	07/17/19 18:20	07/19/19 09:20	
500-166949-8	SP18 2-4	Solid	07/17/19 18:35	07/19/19 09:20	
500-166949-9	SP19 2-4	Solid	07/17/19 18:25	07/19/19 09:20	
500-166949-10	SP11 7-9	Solid	07/17/19 17:05	07/19/19 09:20	
500-166949-11	SP15 8-10	Solid	07/17/19 17:30	07/19/19 09:20	
500-166949-12	SP15 16-18	Solid	07/17/19 17:40	07/19/19 09:20	
500-166949-13	SP16 8-10	Solid	07/17/19 17:50	07/19/19 09:20	
500-166949-14	SP16 16-18	Solid	07/17/19 17:35	07/19/19 09:20	
500-166949-15	SP17 8-10	Solid	07/17/19 17:45	07/19/19 09:20	
500-166949-16	SP17 16-18	Solid	07/17/19 17:55	07/19/19 09:20	
500-166949-17	SP18 8-10	Solid	07/17/19 18:45	07/19/19 09:20	
500-166949-18	SP18 16-18	Solid	07/17/19 18:10	07/19/19 09:20	
500-166949-19	SP19 8-10	Solid	07/17/19 18:55	07/19/19 09:20	
500-166949-20	SP19 16-18	Solid	07/17/19 18:15	07/19/19 09:20	
500-166949-21	SP22 8-10	Solid	07/17/19 17:10	07/19/19 09:20	
500-166949-22	SP23 16-18	Solid	07/17/19 18:40	07/19/19 09:20	
500-166949-23	SP24 2-4	Solid	07/17/19 19:05	07/19/19 09:20	
500-166949-24	SP24 8-10	Solid	07/17/19 19:20	07/19/19 09:20	
500-166949-25	SP25 8-10	Solid	07/17/19 19:00	07/19/19 09:20	
500-166949-26	SP26 2-4	Solid	07/17/19 19:10	07/19/19 09:20	
500-166949-27	SP27 2-4	Solid	07/17/19 19:15	07/19/19 09:20	

Solid

07/17/19 18:30 07/19/19 09:20

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Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP20 16-18 Lab Sample ID: 500-166949-1

Date Collected: 07/17/19 18:50

Matrix: Solid

Date Received: 07/19/19 09:20

Percent Solids: 91.4

Method: 8260B - Volatile Or	ganic Compounds (GC/M	S)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.10	0.60		mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Benzene	<0.0087	0.015	0.0087	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Bromobenzene	<0.021	0.060	0.021	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Bromochloromethane	<0.026	0.060	0.026	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Bromodichloromethane	<0.022	0.060	0.022	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Bromoform	<0.029 *	0.060	0.029	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Bromomethane	<0.048	0.18	0.048	mg/Kg	₽	07/17/19 18:50	07/25/19 13:10	50
2-Butanone (MEK)	<0.13	0.30	0.13	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Carbon tetrachloride	<0.023	0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chlorobenzene	<0.023	0.060	0.023	mg/Kg	φ.	07/17/19 18:50	07/25/19 13:10	50
Chloroethane	<0.030	0.060	0.030	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chloroform	<0.022	0.12	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Chloromethane	<0.019	0.060	0.019	mg/Kg	φ.	07/17/19 18:50	07/25/19 13:10	50
2-Chlorotoluene	<0.019	0.060		mg/Kg	₽	07/17/19 18:50	07/25/19 13:10	50
4-Chlorotoluene	<0.021	0.060			₩	07/17/19 18:50	07/25/19 13:10	50
cis-1,2-Dichloroethene	<0.024	0.060		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 18:50	07/25/19 13:10	50
cis-1,3-Dichloropropene	<0.025	0.060		mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Dibromochloromethane	<0.029	0.060		mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
1,2-Dibromo-3-Chloropropane	<0.12 *	0.30		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 18:50	07/25/19 13:10	50
1,2-Dibromoethane	<0.023	0.060		mg/Kg	☆		07/25/19 13:10	50
Dibromomethane	<0.016 *	0.060		mg/Kg	☆		07/25/19 13:10	50
1,2-Dichlorobenzene	<0.020	0.060		mg/Kg	· · · · · · .		07/25/19 13:10	50
1,3-Dichlorobenzene	<0.024	0.060		mg/Kg	☆		07/25/19 13:10	50
1,4-Dichlorobenzene	<0.022	0.060		mg/Kg	☆		07/25/19 13:10	50
Dichlorodifluoromethane	<0.040	0.18		mg/Kg	φ.		07/25/19 13:10	50
1,1-Dichloroethane	<0.025	0.060		mg/Kg	₽		07/25/19 13:10	50
1,2-Dichloroethane	<0.023	0.060		mg/Kg	₽		07/25/19 13:10	50
1,1-Dichloroethene	<0.023	0.060		mg/Kg			07/25/19 13:10	50
1,2-Dichloropropane	<0.026	0.060		mg/Kg	₽		07/25/19 13:10	50
1,3-Dichloropropane	<0.022	0.060		mg/Kg	₽		07/25/19 13:10	50
2,2-Dichloropropane	<0.022	0.060		mg/Kg			07/25/19 13:10	50
1,1-Dichloropropene	<0.027	0.060		mg/Kg			07/25/19 13:10	50
Ethylbenzene	<0.018	0.000		mg/Kg	T A		07/25/19 13:10	
Etriyiberizerie Hexachlorobutadiene					· · · · · · · · · · · · · · · · · · ·		07/25/19 13:10	50
	<0.027	0.060 0.060		mg/Kg	*			50
Isopropylbenzene	<0.023			mg/Kg	₩		07/25/19 13:10	50
sopropyl ether	<0.017	0.060		mg/Kg			07/25/19 13:10	50
Methylene Chloride	<0.098	0.30		mg/Kg	₩		07/25/19 13:10	50
Methyl tert-butyl ether	<0.024	0.060		mg/Kg	₽		07/25/19 13:10	50
Naphthalene	<0.020	0.060		mg/Kg			07/25/19 13:10	50
n-Butylbenzene	<0.023	0.060		mg/Kg	₩.		07/25/19 13:10	50
N-Propylbenzene	<0.025	0.060		mg/Kg	₩.		07/25/19 13:10	50
p-Isopropyltoluene	<0.022	0.060		mg/Kg	<u>.</u>		07/25/19 13:10	50
sec-Butylbenzene	<0.024	0.060		mg/Kg	.;.		07/25/19 13:10	5
Styrene	<0.023	0.060		mg/Kg	<b>*</b>		07/25/19 13:10	5
tert-Butylbenzene	<0.024	0.060		mg/Kg	, .		07/25/19 13:10	5
1,1,1,2-Tetrachloroethane	<0.028	0.060		mg/Kg	₩		07/25/19 13:10	5
1,1,2,2-Tetrachloroethane	<0.024	0.060		mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Tetrachloroethene	<0.022	0.060	0.022	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Toluene	<0.0088	0.015	0.0088	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50

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Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Lab Sample ID: 500-166949-1 Client Sample ID: SP20 16-18

Date Collected: 07/17/19 18:50 **Matrix: Solid** Percent Solids: 91.4 Date Received: 07/19/19 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	<u> </u>	07/17/19 18:50	07/25/19 13:10	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,3-Trichlorobenzene	<0.027		0.060	0.027	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
1,2,4-Trichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	₩.	07/17/19 18:50	07/25/19 13:10	50
Trichloroethene	<0.0098		0.030	0.0098	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	φ.	07/17/19 18:50	07/25/19 13:10	50
1,2,4-Trimethylbenzene	<0.021		0.060	0.021	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 18:50	07/25/19 13:10	50
Vinyl chloride	<0.016		0.060	0.016	mg/Kg	φ.	07/17/19 18:50	07/25/19 13:10	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	₩	07/17/19 18:50	07/25/19 13:10	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124				07/17/19 18:50	07/25/19 13:10	50
Dibromofluoromethane	107		75 - 120				07/17/19 18:50	07/25/19 13:10	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				07/17/19 18:50	07/25/19 13:10	50
Toluene-d8 (Surr)	97		75 - 120				07/17/19 18:50	07/25/19 13:10	50

Job ID: 500-166949-1

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

**Client Sample ID: SP11 1-3** 

Date Collected: 07/17/19 17:00 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-2

Matrix: Solid

Percent Solids: 92.4

Job ID: 500-166949-1

	Organic Compounds (GO	•				_		
Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Acetone	<0.10	0.58		mg/Kg	₩.		07/25/19 13:38	5
Benzene	<0.0084	0.014	0.0084		₽		07/25/19 13:38	5
Bromobenzene	<0.021	0.058		mg/Kg		07/17/19 17:00	07/25/19 13:38	5
Bromochloromethane	<0.025	0.058	0.025	mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Bromodichloromethane	<0.021	0.058	0.021	mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Bromoform	<0.028 *	0.058		mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Bromomethane	<0.046	0.17	0.046	mg/Kg	₽	07/17/19 17:00	07/25/19 13:38	5
2-Butanone (MEK)	<0.12	0.29	0.12	mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Carbon tetrachloride	<0.022	0.058	0.022	mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Chlorobenzene	<0.022	0.058	0.022	mg/Kg	≎	07/17/19 17:00	07/25/19 13:38	5
Chloroethane	<0.029	0.058	0.029	mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
Chloroform	<0.021	0.12	0.021	mg/Kg	≎	07/17/19 17:00	07/25/19 13:38	5
Chloromethane	<0.018	0.058	0.018	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	5
2-Chlorotoluene	<0.018	0.058	0.018	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	5
l-Chlorotoluene	<0.020	0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	5
cis-1,2-Dichloroethene	<0.023	0.058	0.023	mg/Kg		07/17/19 17:00	07/25/19 13:38	5
cis-1,3-Dichloropropene	<0.024	0.058	0.024	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	5
Dibromochloromethane	<0.028	0.058	0.028	mg/Kg	₽	07/17/19 17:00	07/25/19 13:38	Ę
,2-Dibromo-3-Chloropropane	<0.11 *	0.29		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 17:00	07/25/19 13:38	
,2-Dibromoethane	<0.022	0.058		mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	į
Dibromomethane	<0.016 *	0.058		mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	ţ
,2-Dichlorobenzene	<0.019	0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 17:00	07/25/19 13:38	
,3-Dichlorobenzene	<0.023	0.058		mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	Ę
,4-Dichlorobenzene	<0.021	0.058		mg/Kg	₩		07/25/19 13:38	5
Dichlorodifluoromethane	<0.039	0.17		mg/Kg			07/25/19 13:38	5
,1-Dichloroethane	<0.024	0.058		mg/Kg	₩	07/17/19 17:00	07/25/19 13:38	5
,2-Dichloroethane	<0.023	0.058		mg/Kg	₽		07/25/19 13:38	Ę
,1-Dichloroethene	<0.022	0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 13:38	
,2-Dichloropropane	<0.025	0.058		mg/Kg	₩		07/25/19 13:38	į
,3-Dichloropropane	<0.021	0.058		mg/Kg	₩		07/25/19 13:38	į
2,2-Dichloropropane	<0.026	0.058		mg/Kg			07/25/19 13:38	
,1-Dichloropropene	<0.017	0.058		mg/Kg	₩		07/25/19 13:38	į
Ethylbenzene	<0.017	0.014		mg/Kg	Ď.		07/25/19 13:38	į
Hexachlorobutadiene	<0.026	0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 13:38	
	<0.022	0.058		mg/Kg	₩		07/25/19 13:38	į
sopropylbenzene	<0.016	0.058		mg/Kg	Ť.		07/25/19 13:38	į
sopropyl ether	<0.016	0.038		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 13:38	
Methylene Chloride								
Methyl tert-butyl ether	<0.023	0.058		mg/Kg	:A:		07/25/19 13:38	į
Naphthalene	<0.019	0.058		mg/Kg	<del></del>		07/25/19 13:38	;
n-Butylbenzene	<0.022	0.058		mg/Kg	**		07/25/19 13:38	
N-Propylbenzene	<0.024	0.058		mg/Kg	₩ ₩		07/25/19 13:38	
o-Isopropyltoluene	<0.021	0.058		mg/Kg			07/25/19 13:38	
sec-Butylbenzene	<0.023	0.058		mg/Kg	<i>₩</i>		07/25/19 13:38	
Styrene	<0.022	0.058		mg/Kg	₽		07/25/19 13:38	
ert-Butylbenzene	<0.023	0.058		mg/Kg	<u>.</u> .		07/25/19 13:38	
,1,1,2-Tetrachloroethane	<0.027	0.058		mg/Kg	<b>☆</b>	07/17/19 17:00		ţ
,1,2,2-Tetrachloroethane	<0.023	0.058		mg/Kg	<b>*</b>		07/25/19 13:38	5
Tetrachloroethene	<0.021	0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	5

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP11 1-3 Lab Sample ID: 500-166949-2

Date Collected: 07/17/19 17:00 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 92.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	<u> </u>	07/17/19 17:00	07/25/19 13:38	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,3-Trichlorobenzene	<0.026		0.058	0.026	mg/Kg	₽	07/17/19 17:00	07/25/19 13:38	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	₽	07/17/19 17:00	07/25/19 13:38	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	φ.	07/17/19 17:00	07/25/19 13:38	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:00	07/25/19 13:38	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	φ.	07/17/19 17:00	07/25/19 13:38	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	≎	07/17/19 17:00	07/25/19 13:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124				07/17/19 17:00	07/25/19 13:38	50
Dibromofluoromethane	108		75 - 120				07/17/19 17:00	07/25/19 13:38	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				07/17/19 17:00	07/25/19 13:38	50
Toluene-d8 (Surr)	95		75 - 120				07/17/19 17:00	07/25/19 13:38	50

Job ID: 500-166949-1

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP12 8-10

Date Collected: 07/17/19 17:25 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-3

Matrix: Solid

Percent Solids: 91.7

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Qualifi		MDL	Unit	D	Prepared	Analyzed	Dil F
<u> </u>	<0.10 <b>Result</b> Qualification	0.58		mg/Kg	— <del>=</del>		07/25/19 14:32	DIIF
Acetone Benzene	<0.0085	0.015	0.0085	0 0			07/25/19 14:32	
Bromobenzene	<0.0065	0.015		mg/Kg	~ \$		07/25/19 14:32	
					······			
Bromochloromethane	<0.025	0.058		mg/Kg			07/25/19 14:32	
Bromodichloromethane	<0.022	0.058		mg/Kg	₩		07/25/19 14:32	
Bromoform	<0.028 *	0.058		mg/Kg			07/25/19 14:32	
Bromomethane	<0.046	0.18		mg/Kg			07/25/19 14:32	
2-Butanone (MEK)	<0.12	0.29		mg/Kg	φ.		07/25/19 14:32	
Carbon tetrachloride	<0.022	0.058		mg/Kg	<del>.</del>		07/25/19 14:32	
Chlorobenzene	<0.023	0.058		mg/Kg	<b>*</b>		07/25/19 14:32	
Chloroethane	<0.029	0.058		mg/Kg	₽		07/25/19 14:32	
Chloroform	<0.022	0.12		mg/Kg		07/17/19 17:25	07/25/19 14:32	
Chloromethane	<0.019	0.058	0.019	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
2-Chlorotoluene	<0.018	0.058		mg/Kg	₩		07/25/19 14:32	
1-Chlorotoluene	<0.020	0.058		mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
cis-1,2-Dichloroethene	<0.024	0.058		mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	
cis-1,3-Dichloropropene	<0.024	0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
Dibromochloromethane	<0.028	0.058	0.028	mg/Kg	₩	07/17/19 17:25	07/25/19 14:32	
1,2-Dibromo-3-Chloropropane	<0.12 *	0.29	0.12	mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	
I,2-Dibromoethane	< 0.023	0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
Dibromomethane	<0.016 *	0.058	0.016	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
I,2-Dichlorobenzene	<0.019	0.058	0.019	mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	
I,3-Dichlorobenzene	< 0.023	0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
1,4-Dichlorobenzene	<0.021	0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
Dichlorodifluoromethane	<0.039	0.18	0.039	mg/Kg	φ.	07/17/19 17:25	07/25/19 14:32	
1,1-Dichloroethane	<0.024	0.058	0.024	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
1,2-Dichloroethane	< 0.023	0.058	0.023	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
1,1-Dichloroethene	<0.023	0.058	0.023	mg/Kg	₩	07/17/19 17:25	07/25/19 14:32	
1,2-Dichloropropane	<0.025	0.058		mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
1,3-Dichloropropane	<0.021	0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	
2,2-Dichloropropane	<0.026	0.058		mg/Kg		07/17/19 17:25	07/25/19 14:32	
1,1-Dichloropropene	<0.017	0.058		mg/Kg	₩	07/17/19 17:25	07/25/19 14:32	
Ethylbenzene	<0.011	0.015		mg/Kg	☼		07/25/19 14:32	
Hexachlorobutadiene	<0.026	0.058		mg/Kg			07/25/19 14:32	
sopropylbenzene	<0.022	0.058		mg/Kg	₩		07/25/19 14:32	
sopropyl ether	<0.016	0.058		mg/Kg	☼		07/25/19 14:32	
Methylene Chloride	<0.095	0.29		mg/Kg			07/25/19 14:32	
Methyl tert-butyl ether	<0.023	0.058		mg/Kg	₽		07/25/19 14:32	
Naphthalene	0.10 B	0.058		mg/Kg	ŭ		07/25/19 14:32	
	<0.023	0.058					07/25/19 14:32	
n-Butylbenzene				mg/Kg	**			
N-Propylbenzene	<0.024	0.058		mg/Kg	φ. ×		07/25/19 14:32	
o-Isopropyltoluene	<0.021	0.058		mg/Kg	<del>.</del>		07/25/19 14:32	
sec-Butylbenzene	<0.023	0.058		mg/Kg	φ. ×		07/25/19 14:32	
Styrene	<0.023	0.058		mg/Kg			07/25/19 14:32	
ert-Butylbenzene	<0.023	0.058		mg/Kg	<del>.</del>		07/25/19 14:32	
1,1,1,2-Tetrachloroethane	<0.027	0.058		mg/Kg	∵		07/25/19 14:32	
1,1,2,2-Tetrachloroethane	<0.023	0.058		mg/Kg	<b>*</b>		07/25/19 14:32	
Tetrachloroethene	<0.022	0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	

Eurofins TestAmerica, Chicago

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP12 8-10

Date Collected: 07/17/19 17:25 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-3

Matrix: Solid

matri	ix. Colla	
Percent Soli	ids: 91.7	

Job ID: 500-166949-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	₩	07/17/19 17:25	07/25/19 14:32	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,3-Trichlorobenzene	<0.027		0.058	0.027	mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	50
1,2,4-Trichlorobenzene	0.045	J	0.058	0.020	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,1,2-Trichloroethane	<0.021		0.058	0.021	mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	₽	07/17/19 17:25	07/25/19 14:32	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 17:25	07/25/19 14:32	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg		07/17/19 17:25	07/25/19 14:32	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	₩	07/17/19 17:25	07/25/19 14:32	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 17:25	07/25/19 14:32	50
Dibromofluoromethane	112		75 - 120				07/17/19 17:25	07/25/19 14:32	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				07/17/19 17:25	07/25/19 14:32	50
Toluene-d8 (Surr)	93		75 - 120				07/17/19 17:25	07/25/19 14:32	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP13 7-9

Lab Sample ID: 500-166949-4 Date Collected: 07/17/19 17:10 **Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 92.3

Method: 8260B - Volatile Org	•	•	140	l lm!4	_	Duamana	A 11	D:: = -
Analyte	Result Qualifier	RL		Unit	— <del>—</del>	Prepared	Analyzed	Dil Fac
Acetone	<0.10	0.59	0.10	0 0	<u>₩</u>	07/17/19 17:10	07/25/19 14:58	50
Benzene	<0.0086	0.015		mg/Kg	₩.		07/25/19 14:58	50
Bromobenzene	<0.021	0.059	0.021	mg/Kg			07/25/19 14:58	50
Bromochloromethane	<0.025	0.059		mg/Kg	₩.		07/25/19 14:58	50
Bromodichloromethane	<0.022	0.059		mg/Kg	<b>☆</b>		07/25/19 14:58	50
Bromoform	<0.028 *	0.059		mg/Kg			07/25/19 14:58	50
Bromomethane	<0.047	0.18		mg/Kg	÷.		07/25/19 14:58	50
2-Butanone (MEK)	<0.12	0.29		mg/Kg	Ď.		07/25/19 14:58	50
Carbon tetrachloride	<0.023	0.059		mg/Kg			07/25/19 14:58	50
Chlorobenzene	<0.023	0.059		mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Chloroethane	<0.030	0.059	0.030	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Chloroform	<0.022	0.12	0.022	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Chloromethane	<0.019	0.059	0.019	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
2-Chlorotoluene	<0.018	0.059	0.018	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
4-Chlorotoluene	<0.021	0.059	0.021	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
cis-1,2-Dichloroethene	<0.024	0.059	0.024	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
cis-1,3-Dichloropropene	<0.024	0.059	0.024	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Dibromochloromethane	<0.029	0.059	0.029	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2-Dibromo-3-Chloropropane	<0.12 *	0.29	0.12	mg/Kg		07/17/19 17:10	07/25/19 14:58	50
1,2-Dibromoethane	<0.023	0.059	0.023	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Dibromomethane	<0.016 *	0.059	0.016	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
1,2-Dichlorobenzene	<0.020	0.059	0.020	mg/Kg		07/17/19 17:10	07/25/19 14:58	50
1,3-Dichlorobenzene	<0.023	0.059		mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,4-Dichlorobenzene	<0.021	0.059	0.021	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Dichlorodifluoromethane	<0.040	0.18		mg/Kg		07/17/19 17:10	07/25/19 14:58	50
1,1-Dichloroethane	<0.024	0.059		mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
1,2-Dichloroethane	<0.023	0.059		mg/Kg	₩		07/25/19 14:58	50
1,1-Dichloroethene	<0.023	0.059		mg/Kg			07/25/19 14:58	50
1,2-Dichloropropane	<0.025	0.059		mg/Kg	₩		07/25/19 14:58	50
1,3-Dichloropropane	<0.021	0.059	0.021	mg/Kg	₩		07/25/19 14:58	50
2,2-Dichloropropane	<0.026	0.059		mg/Kg	<sub></sub> .		07/25/19 14:58	50
1,1-Dichloropropene	<0.017	0.059		mg/Kg	₩		07/25/19 14:58	50
Ethylbenzene	<0.011	0.015	0.011	mg/Kg	₩		07/25/19 14:58	50
Hexachlorobutadiene	<0.026	0.059		mg/Kg			07/25/19 14:58	50
Isopropylbenzene	<0.020	0.059		mg/Kg	₩		07/25/19 14:58	50
Isopropyl ether	<0.023	0.059		mg/Kg	≎		07/25/19 14:58	50
	<0.096			mg/Kg	<sub>2</sub>		07/25/19 14:58	
Methylene Chloride		0.29			275			50
Methyl tert-butyl ether	<0.023	0.059		mg/Kg	₩ ₩		07/25/19 14:58	50
Naphthalene	0.033 JB	0.059		mg/Kg			07/25/19 14:58	50
n-Butylbenzene	<0.023	0.059		mg/Kg	₩		07/25/19 14:58	50
N-Propylbenzene	<0.024	0.059		mg/Kg	₩		07/25/19 14:58	50
p-Isopropyltoluene	<0.021	0.059	0.021	mg/Kg	#.		07/25/19 14:58	50
sec-Butylbenzene	<0.023	0.059		mg/Kg	Ψ.		07/25/19 14:58	50
Styrene	<0.023	0.059		mg/Kg	<b>☆</b>		07/25/19 14:58	50
tert-Butylbenzene	<0.023	0.059		mg/Kg	₩		07/25/19 14:58	50
1,1,1,2-Tetrachloroethane	<0.027	0.059		mg/Kg	☼		07/25/19 14:58	50
1,1,2,2-Tetrachloroethane	<0.023	0.059		mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Tetrachloroethene	<0.022	0.059		mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Toluene	<0.0086	0.015	0.0086	mg/Kg	₩.	07/17/19 17:10	07/25/19 14:58	50

Job ID: 500-166949-1

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP13 7-9 Lab Sample ID: 500-166949-4

Date Collected: 07/17/19 17:10

Matrix: Solid
Date Received: 07/19/19 09:20

Matrix: Solid
Percent Solids: 92.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.059	0.021	mg/Kg	<u></u>	07/17/19 17:10	07/25/19 14:58	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
1,1,1-Trichloroethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
1,3,5-Trimethylbenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:10	07/25/19 14:58	50
Vinyl chloride	<0.015		0.059	0.015	mg/Kg	₽	07/17/19 17:10	07/25/19 14:58	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	₩	07/17/19 17:10	07/25/19 14:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 17:10	07/25/19 14:58	50
Dibromofluoromethane	107		75 - 120				07/17/19 17:10	07/25/19 14:58	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				07/17/19 17:10	07/25/19 14:58	50
Toluene-d8 (Surr)	96		75 - 120				07/17/19 17:10	07/25/19 14:58	50

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 2-4

Date Collected: 07/17/19 18:05 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-5

Matrix: Solid

Percent Solids: 93.6

Job ID: 500-166949-1

	Organic Compounds (C		MDL	Linit	P	Dropered	Analyzad	Dil E
Analyte	Result Qualifier	r RL 0.57			— <del>D</del>	Prepared	Analyzed 07/25/19 15:26	Dil Fa
Acetone Benzene				mg/Kg	☆		07/25/19 15:26	5
	<0.0083	0.014	0.0083		₩			5
Bromobenzene	<0.020	0.057		mg/Kg	¥.		07/25/19 15:26	
Bromochloromethane	<0.024	0.057		mg/Kg			07/25/19 15:26	5
Bromodichloromethane	<0.021	0.057		mg/Kg	<b>☆</b>		07/25/19 15:26	5
Bromoform	<0.027 *	0.057		mg/Kg	*. .*		07/25/19 15:26	
Bromomethane	<0.045	0.17		mg/Kg			07/25/19 15:26	5
2-Butanone (MEK)	<0.12	0.28		mg/Kg	φ.		07/25/19 15:26	5
Carbon tetrachloride	<0.022	0.057		mg/Kg	14t - J J.		07/25/19 15:26	
Chlorobenzene	<0.022	0.057		mg/Kg	1.7t		07/25/19 15:26	5
Chloroethane	<0.029	0.057		mg/Kg	ά. Έ		07/25/19 15:26	5
Chloroform	<0.021	0.11		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/25/19 15:26	
Chloromethane	<0.018	0.057		mg/Kg	<del>.</del>		07/25/19 15:26	5
2-Chlorotoluene	<0.018	0.057		mg/Kg	₩.		07/25/19 15:26	ţ
I-Chlorotoluene	<0.020	0.057		mg/Kg			07/25/19 15:26	
cis-1,2-Dichloroethene	<0.023	0.057		mg/Kg	<b>*</b>		07/25/19 15:26	į
cis-1,3-Dichloropropene	<0.024	0.057	0.024	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	;
Dibromochloromethane	<0.028	0.057	0.028	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	,
,2-Dibromo-3-Chloropropane	<0.11 *	0.28		mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	,
,2-Dibromoethane	<0.022	0.057	0.022	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	;
Dibromomethane	<0.015 *	0.057	0.015	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	
,2-Dichlorobenzene	<0.019	0.057	0.019	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	
,3-Dichlorobenzene	<0.023	0.057	0.023	mg/Kg	☆	07/17/19 18:05	07/25/19 15:26	;
1,4-Dichlorobenzene	<0.021	0.057	0.021	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	ţ
Dichlorodifluoromethane	<0.038	0.17	0.038	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	į
,1-Dichloroethane	<0.023	0.057	0.023	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	į
,2-Dichloroethane	<0.022	0.057	0.022	mg/Kg	≎	07/17/19 18:05	07/25/19 15:26	į
I,1-Dichloroethene	<0.022	0.057	0.022	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	
I,2-Dichloropropane	<0.024	0.057	0.024	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	į
,3-Dichloropropane	<0.021	0.057	0.021	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	
2,2-Dichloropropane	<0.025	0.057	0.025	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	
I,1-Dichloropropene	<0.017	0.057	0.017	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	
Ethylbenzene	<0.010	0.014	0.010	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	;
Hexachlorobutadiene	<0.025	0.057		mg/Kg		07/17/19 18:05	07/25/19 15:26	
sopropylbenzene	<0.022	0.057	0.022	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	;
sopropyl ether	<0.016	0.057		mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	
Methylene Chloride	<0.092	0.28		mg/Kg			07/25/19 15:26	
Methyl tert-butyl ether	<0.022	0.057		mg/Kg	₩		07/25/19 15:26	
Naphthalene	0.021 JB	0.057		mg/Kg	₩		07/25/19 15:26	
n-Butylbenzene	<0.022	0.057		mg/Kg	 ф		07/25/19 15:26	
N-Propylbenzene	<0.023	0.057		mg/Kg	₩		07/25/19 15:26	
-Isopropyltoluene	<0.021	0.057		mg/Kg	₩		07/25/19 15:26	Ì
ec-Butylbenzene	<0.021	0.057		mg/Kg			07/25/19 15:26	
Styrene	<0.023	0.057		mg/Kg	₩		07/25/19 15:26	
ert-Butylbenzene	<0.022	0.057		mg/Kg			07/25/19 15:26	
1,1,1,2-Tetrachloroethane	<0.026	0.057		mg/Kg		07/17/19 18:05		
1,1,2,2-Tetrachloroethane	<0.026	0.057		mg/Kg	₽		07/25/19 15:26	
								į
Tetrachloroethene Toluene	<b>6.4</b> <0.0083	0.057 0.014		mg/Kg mg/Kg	<del>.</del>		07/25/19 15:26 07/25/19 15:26	

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7/30/2019

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 2-4 Lab Sample ID: 500-166949-5

Date Collected: 07/17/19 18:05 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 93.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	50
trans-1,3-Dichloropropene	<0.021		0.057	0.021	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	50
1,2,4-Trichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	50
Trichloroethene	0.28		0.028	0.0093	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Trichlorofluoromethane	<0.024		0.057	0.024	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	50
1,2,4-Trimethylbenzene	<0.020		0.057	0.020	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 18:05	07/25/19 15:26	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	₽	07/17/19 18:05	07/25/19 15:26	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	₩	07/17/19 18:05	07/25/19 15:26	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				07/17/19 18:05	07/25/19 15:26	50
Dibromofluoromethane	108		75 - 120				07/17/19 18:05	07/25/19 15:26	50
1,2-Dichloroethane-d4 (Surr)	106		75 - 126				07/17/19 18:05	07/25/19 15:26	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 18:05	07/25/19 15:26	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 2-4

Date Collected: 07/17/19 18:00 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-6

Matrix: Solid

Percent Solids: 90.5

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.11	0.61	0.11	mg/Kg	<u></u>	07/17/19 18:00	07/25/19 15:53	
Benzene	<0.0089	0.015	0.0089		☼	07/17/19 18:00	07/25/19 15:53	5
Bromobenzene	<0.022	0.061		mg/Kg	₽	07/17/19 18:00	07/25/19 15:53	5
Bromochloromethane	<0.026	0.061		mg/Kg		07/17/19 18:00	07/25/19 15:53	5
Bromodichloromethane	<0.023	0.061		mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	5
Bromoform	<0.030 *	0.061		mg/Kg	₽	07/17/19 18:00	07/25/19 15:53	5
Bromomethane	<0.049	0.18		mg/Kg	φ.	07/17/19 18:00	07/25/19 15:53	5
2-Butanone (MEK)	<0.13	0.31		mg/Kg	₽		07/25/19 15:53	5
Carbon tetrachloride	<0.023	0.061		mg/Kg	₽		07/25/19 15:53	5
Chlorobenzene	<0.024	0.061		mg/Kg	 ф		07/25/19 15:53	5
Chloroethane	<0.031	0.061		mg/Kg	☼		07/25/19 15:53	5
Chloroform	<0.023	0.12		mg/Kg	☼		07/25/19 15:53	5
Chloromethane	<0.020	0.061		mg/Kg			07/25/19 15:53	5
2-Chlorotoluene	<0.019	0.061		mg/Kg	₽		07/25/19 15:53	5
4-Chlorotoluene	<0.013	0.061		mg/Kg	₽		07/25/19 15:53	5
cis-1,2-Dichloroethene	<0.021	0.061		mg/Kg			07/25/19 15:53	5
·	<0.025	0.061		mg/Kg	т ф		07/25/19 15:53	5
cis-1,3-Dichloropropene				0 0	☆			
Dibromochloromethane	<0.030	0.061		mg/Kg	· · · · · · · .		07/25/19 15:53	
I,2-Dibromo-3-Chloropropane	<0.12 *	0.31		mg/Kg			07/25/19 15:53	5
,2-Dibromoethane	<0.024	0.061		mg/Kg	<b>☆</b>		07/25/19 15:53	5
Dibromomethane	<0.016 *	0.061		mg/Kg			07/25/19 15:53	5
I,2-Dichlorobenzene	<0.020	0.061		mg/Kg			07/25/19 15:53	5
I,3-Dichlorobenzene	<0.024	0.061		mg/Kg			07/25/19 15:53	5
1,4-Dichlorobenzene	<0.022	0.061		mg/Kg			07/25/19 15:53	5
Dichlorodifluoromethane	<0.041	0.18		mg/Kg	:D:		07/25/19 15:53	5
1,1-Dichloroethane	<0.025	0.061		mg/Kg	.;.		07/25/19 15:53	5
1,2-Dichloroethane	<0.024	0.061		mg/Kg			07/25/19 15:53	5
1,1-Dichloroethene	<0.024	0.061		mg/Kg	₽		07/25/19 15:53	5
1,2-Dichloropropane	<0.026	0.061		mg/Kg	₿		07/25/19 15:53	5
1,3-Dichloropropane	<0.022	0.061		mg/Kg	₩	07/17/19 18:00	07/25/19 15:53	5
2,2-Dichloropropane	<0.027	0.061	0.027	mg/Kg	₩	07/17/19 18:00	07/25/19 15:53	5
I,1-Dichloropropene	<0.018	0.061	0.018	mg/Kg	₩	07/17/19 18:00	07/25/19 15:53	5
Ethylbenzene	<0.011	0.015	0.011	mg/Kg	☼		07/25/19 15:53	5
Hexachlorobutadiene	<0.027	0.061	0.027	mg/Kg	₽	07/17/19 18:00	07/25/19 15:53	5
sopropylbenzene	<0.023	0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	5
sopropyl ether	<0.017	0.061	0.017	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	5
Methylene Chloride	<0.10	0.31	0.10	mg/Kg	φ.	07/17/19 18:00	07/25/19 15:53	5
Methyl tert-butyl ether	<0.024	0.061	0.024	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	5
Naphthalene	0.024 JB	0.061	0.020	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	5
n-Butylbenzene	<0.024	0.061		mg/Kg		07/17/19 18:00	07/25/19 15:53	5
N-Propylbenzene	<0.025	0.061		mg/Kg	₽	07/17/19 18:00	07/25/19 15:53	5
o-Isopropyltoluene	<0.022	0.061		mg/Kg	☼		07/25/19 15:53	5
sec-Butylbenzene	<0.024	0.061		mg/Kg			07/25/19 15:53	
Styrene	<0.024	0.061		mg/Kg	☆		07/25/19 15:53	5
ert-Butylbenzene	<0.024	0.061		mg/Kg	₽		07/25/19 15:53	
1,1,1,2-Tetrachloroethane	<0.028	0.061		mg/Kg			07/25/19 15:53	
1,1,2,2-Tetrachloroethane	<0.024	0.061		mg/Kg	₽		07/25/19 15:53	5
Tetrachloroethene	3.5	0.061		mg/Kg	₽		07/25/19 15:53	5
i eti acilioi detilelile	J.0	0.001	0.023	mg/rxg	~~	01/11/18 10:00	01123/18 10.03	÷

Eurofins TestAmerica, Chicago

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 2-4

Date Collected: 07/17/19 18:00 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-6

**Matrix: Solid** 

Percent Solids: 90.5

trans-1,2-Dichloroethene	Method: 8260B - Volatile O	•	•		•	l last	_	Duamanad	A a l a d	D:: F
trans-1,3-Dichloropropene	Analyte		Qualifier	RL			D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene       <0.028	trans-1,2-Dichloroethene	<0.021		0.061	0.021	mg/Kg	₩	07/17/19 18:00	07/25/19 15:53	50
1,2,4-Trichlorobenzene       <0.021	trans-1,3-Dichloropropene	<0.022		0.061	0.022	mg/Kg	₩	07/17/19 18:00	07/25/19 15:53	50
1,1,1-Trichloroethane       <0.023	1,2,3-Trichlorobenzene	<0.028		0.061	0.028	mg/Kg	₽	07/17/19 18:00	07/25/19 15:53	50
1,1,2-Trichloroethane       <0.022	1,2,4-Trichlorobenzene	<0.021		0.061	0.021	mg/Kg	≎	07/17/19 18:00	07/25/19 15:53	50
Trichloroethene         <0.010         0.031         0.010 mg/Kg         □ 07/17/19 18:00 07/25/19 15:53           Trichlorofluoromethane         <0.026	1,1,1-Trichloroethane	<0.023		0.061	0.023	mg/Kg	≎	07/17/19 18:00	07/25/19 15:53	50
Trichlorofluoromethane         <0.026         0.061         0.026 mg/Kg         © 07/17/19 18:00         07/25/19 15:53           1,2,3-Trichloropropane         <0.025	1,1,2-Trichloroethane	<0.022		0.061	0.022	mg/Kg	\$	07/17/19 18:00	07/25/19 15:53	50
1,2,3-Trichloropropane         <0.025	Trichloroethene	<0.010		0.031	0.010	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,2,4-Trimethylbenzene       <0.022	Trichlorofluoromethane	<0.026		0.061	0.026	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
1,3,5-Trimethylbenzene       <0.023	1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	\$	07/17/19 18:00	07/25/19 15:53	50
Vinyl chloride         <0.016         0.061         0.061 mg/Kg         © 07/17/19 18:00         07/25/19 15:53           Xylenes, Total         <0.013         0.031         0.013 mg/Kg         © 07/17/19 18:00         07/25/19 15:53           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Diagram           4-Bromofluorobenzene (Surr)         94         72 - 124         07/17/19 18:00         07/25/19 15:53           Dibromofluoromethane         110         75 - 120         07/17/19 18:00         07/25/19 15:53           1,2-Dichloroethane-d4 (Surr)         110         75 - 126         07/17/19 18:00         07/25/19 15:53	1,2,4-Trimethylbenzene	<0.022		0.061	0.022	mg/Kg	≎	07/17/19 18:00	07/25/19 15:53	50
Surrogate         %Recovery 4-Bromofluorobenzene (Surr)         94         T2 - 124         T2 - 124         T2 - 120         T5 - 120         T7 - 126         <	1,3,5-Trimethylbenzene	<0.023		0.061	0.023	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Display           4-Bromofluorobenzene (Surr)         94         72 - 124         07/17/19 18:00         07/25/19 15:53         07/25/19 15:53           Dibromofluoromethane         110         75 - 120         07/17/19 18:00         07/25/19 15:53           1,2-Dichloroethane-d4 (Surr)         110         75 - 126         07/17/19 18:00         07/25/19 15:53	Vinyl chloride	<0.016		0.061	0.016	mg/Kg	φ.	07/17/19 18:00	07/25/19 15:53	50
4-Bromofluorobenzene (Surr)     94     72 - 124     07/17/19 18:00     07/25/19 15:53       Dibromofluoromethane     110     75 - 120     07/17/19 18:00     07/25/19 15:53       1,2-Dichloroethane-d4 (Surr)     110     75 - 126     07/17/19 18:00     07/25/19 15:53	Xylenes, Total	<0.013		0.031	0.013	mg/Kg	☼	07/17/19 18:00	07/25/19 15:53	50
Dibromofluoromethane         110         75 - 120         07/17/19 18:00         07/25/19 15:53           1,2-Dichloroethane-d4 (Surr)         110         75 - 126         07/17/19 18:00         07/25/19 15:53	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr) 110 75 - 126 07/17/19 18:00 07/25/19 15:53	4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 18:00	07/25/19 15:53	50
,	Dibromofluoromethane	110		75 - 120				07/17/19 18:00	07/25/19 15:53	50
Toluene-d8 (Surr) 95 75 - 120 07/17/19 18:00 07/25/19 15:53	1,2-Dichloroethane-d4 (Surr)	110		75 - 126				07/17/19 18:00	07/25/19 15:53	50
	Toluene-d8 (Surr)	95		75 - 120				07/17/19 18:00	07/25/19 15:53	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 2-4

Date Collected: 07/17/19 18:20 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-7

Matrix: Solid

Percent Solids: 85.4

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Q		MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.12	0.68	0.12	mg/Kg	<u></u>	07/17/19 18:20	07/25/19 16:21	
Benzene	<0.0099	0.017		mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	į
Bromobenzene	<0.024	0.068		mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	į
Bromochloromethane	<0.029	0.068	0.029	mg/Kg	Φ.	07/17/19 18:20	07/25/19 16:21	
Bromodichloromethane	<0.025	0.068		mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	į
Bromoform	<0.033 *	0.068		mg/Kg	₩	07/17/19 18:20	07/25/19 16:21	į
Bromomethane	<0.054	0.20		mg/Kg	ф.	07/17/19 18:20	07/25/19 16:21	
P-Butanone (MEK)	<0.14	0.34		mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	
Carbon tetrachloride	<0.026	0.068		mg/Kg	₩	07/17/19 18:20	07/25/19 16:21	
Chlorobenzene	<0.026	0.068		mg/Kg		07/17/19 18:20	07/25/19 16:21	
Chloroethane	< 0.034	0.068		mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	
Chloroform	<0.025	0.14		mg/Kg	☼		07/25/19 16:21	
Chloromethane	<0.022	0.068		mg/Kg		07/17/19 18:20	07/25/19 16:21	
2-Chlorotoluene	<0.021	0.068		mg/Kg	₩		07/25/19 16:21	į
I-Chlorotoluene	<0.024	0.068		mg/Kg	₩		07/25/19 16:21	!
sis-1,2-Dichloroethene	<0.028	0.068		mg/Kg			07/25/19 16:21	
sis-1,3-Dichloropropene	<0.028	0.068		mg/Kg	☆		07/25/19 16:21	
Dibromochloromethane	< 0.033	0.068		mg/Kg	☼		07/25/19 16:21	
,2-Dibromo-3-Chloropropane	<0.13 *	0.34		mg/Kg			07/25/19 16:21	
,2-Dibromoethane	<0.026	0.068		mg/Kg	₽		07/25/19 16:21	
Dibromomethane	<0.018 *	0.068		mg/Kg	☼		07/25/19 16:21	
,2-Dichlorobenzene	<0.023	0.068		mg/Kg			07/25/19 16:21	
,3-Dichlorobenzene	< 0.027	0.068		mg/Kg	₽		07/25/19 16:21	
,4-Dichlorobenzene	<0.027	0.068		mg/Kg	₽		07/25/19 16:21	
Dichlorodifluoromethane	< 0.046	0.20		mg/Kg			07/25/19 16:21	
,1-Dichloroethane	<0.028	0.068		mg/Kg	₽		07/25/19 16:21	
,2-Dichloroethane	<0.027	0.068		mg/Kg	☆		07/25/19 16:21	
,1-Dichloroethene	<0.027	0.068		mg/Kg			07/25/19 16:21	
,2-Dichloropropane	<0.029	0.068		mg/Kg	₽		07/25/19 16:21	
,3-Dichloropropane	<0.029	0.068		mg/Kg	₽		07/25/19 16:21	
,2-Dichloropropane	<0.030	0.068		mg/Kg			07/25/19 16:21	
,1-Dichloropropene	<0.020	0.068		mg/Kg	т ф		07/25/19 16:21	
·	<0.020	0.008					07/25/19 16:21	
thylbenzene lexachlorobutadiene	<0.012	0.017		mg/Kg mg/Kg	····		07/25/19 16:21	
sopropylbenzene	<0.030	0.068		mg/Kg		07/17/19 18:20		
sopropyl ether	<0.019	0.068		0 0	≎			
				mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 18:20	07/25/19 16:21	
lethylene Chloride	<0.11	0.34		mg/Kg				
Methyl tert-butyl ether	<0.027	0.068		mg/Kg	Ţ.	07/17/19 18:20 07/17/19 18:20		
aphthalene	<0.023	0.068		mg/Kg	¥.			
-Butylbenzene	<0.026	0.068		mg/Kg	₩	07/17/19 18:20		
-Propylbenzene	<0.028	0.068		mg/Kg	φ. ×		07/25/19 16:21	
-Isopropyltoluene	<0.025	0.068		mg/Kg		07/17/19 18:20		
ec-Butylbenzene	<0.027	0.068		mg/Kg		07/17/19 18:20		
tyrene	<0.026	0.068		mg/Kg	₩		07/25/19 16:21	
ert-Butylbenzene	<0.027	0.068		mg/Kg			07/25/19 16:21	
,1,1,2-Tetrachloroethane	<0.031	0.068		mg/Kg			07/25/19 16:21	
,1,2,2-Tetrachloroethane	<0.027	0.068		mg/Kg	φ.		07/25/19 16:21	
Tetrachloroethene	<0.025	0.068	0.025	mg/Kg	₩	07/17/19 18:20	07/25/19 16:21	

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 2-4 Lab Sample ID: 500-166949-7

Date Collected: 07/17/19 18:20 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 85.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	₩	07/17/19 18:20	07/25/19 16:21	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	₽	07/17/19 18:20	07/25/19 16:21	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	₽	07/17/19 18:20	07/25/19 16:21	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	₽	07/17/19 18:20	07/25/19 16:21	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	₩	07/17/19 18:20	07/25/19 16:21	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:20	07/25/19 16:21	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg		07/17/19 18:20	07/25/19 16:21	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☆	07/17/19 18:20	07/25/19 16:21	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124				07/17/19 18:20	07/25/19 16:21	50
Dibromofluoromethane	110		75 - 120				07/17/19 18:20	07/25/19 16:21	50
1,2-Dichloroethane-d4 (Surr)	113		75 - 126				07/17/19 18:20	07/25/19 16:21	50
Toluene-d8 (Surr)	92		75 - 120				07/17/19 18:20	07/25/19 16:21	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 2-4

Date Collected: 07/17/19 18:35

Lab Sample ID: 500-166949-8

Matrix: Solid

Percent Solids: 83.8

Job ID: 500-166949-1

いるもれるみ・8ンドハピ - いろしったいろくい	rdanic Compounde II-I'I							
Method: 8260B - Volatile O Analyte	Result Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil F
Acetone	<0.12 <b>Quantities</b>	0.70		mg/Kg	— <del>~</del>	<u> </u>	07/25/19 16:48	
Benzene	<0.010	0.017		mg/Kg	₩		07/25/19 16:48	
Bromobenzene	<0.025	0.070		mg/Kg	₽		07/25/19 16:48	
Bromochloromethane	<0.030	0.070		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 16:48	
Bromodichloromethane	<0.026	0.070		mg/Kg	₽		07/25/19 16:48	
Bromoform	<0.034 *	0.070		mg/Kg	₽		07/25/19 16:48	
Bromomethane	<0.056	0.21		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 16:48	
2-Butanone (MEK)	<0.15	0.35		mg/Kg	₽		07/25/19 16:48	
Carbon tetrachloride	<0.027	0.070		mg/Kg	₩		07/25/19 16:48	
Chlorobenzene	<0.027	0.070		mg/Kg			07/25/19 16:48	
Chloroethane	<0.035	0.070		mg/Kg	₽		07/25/19 16:48	
Chloroform	<0.035	0.070		mg/Kg	**		07/25/19 16:48	
Chloromethane					<sub>.</sub>			
Chlorotoluene	<0.022	0.070		mg/Kg mg/Kg	*		07/25/19 16:48	
	<0.022	0.070		0 0	*		07/25/19 16:48	
I-Chlorotoluene	<0.024	0.070		mg/Kg	· · · · · ›		07/25/19 16:48	
is-1,2-Dichloroethene	<0.029	0.070		mg/Kg	*		07/25/19 16:48	
is-1,3-Dichloropropene	<0.029	0.070		mg/Kg	₩		07/25/19 16:48	
Dibromochloromethane	<0.034	0.070		mg/Kg	¾.		07/25/19 16:48	
,2-Dibromo-3-Chloropropane	<0.14 *	0.35		mg/Kg	**		07/25/19 16:48	
,2-Dibromoethane	<0.027	0.070		mg/Kg			07/25/19 16:48	
ibromomethane	<0.019 *	0.070		mg/Kg			07/25/19 16:48	
,2-Dichlorobenzene	<0.023	0.070		mg/Kg	±.		07/25/19 16:48	
3-Dichlorobenzene	<0.028	0.070		mg/Kg	φ.		07/25/19 16:48	
,4-Dichlorobenzene	<0.025	0.070		mg/Kg	<u>.</u> .		07/25/19 16:48	
ichlorodifluoromethane	<0.047	0.21		mg/Kg	<b>☆</b>		07/25/19 16:48	
,1-Dichloroethane	<0.029	0.070		mg/Kg	₩		07/25/19 16:48	
,2-Dichloroethane	<0.027	0.070		mg/Kg	<u>.</u> .		07/25/19 16:48	
,1-Dichloroethene	<0.027	0.070		mg/Kg	<b>*</b>		07/25/19 16:48	
,2-Dichloropropane	<0.030	0.070		mg/Kg	₩.		07/25/19 16:48	
,3-Dichloropropane	<0.025	0.070		mg/Kg			07/25/19 16:48	
,2-Dichloropropane	<0.031	0.070		mg/Kg	**		07/25/19 16:48	
,1-Dichloropropene	<0.021	0.070		mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
thylbenzene	<0.013	0.017		mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
exachlorobutadiene	<0.031	0.070		mg/Kg	₩		07/25/19 16:48	
sopropylbenzene	<0.027	0.070	0.027	mg/Kg	≎	07/17/19 18:35	07/25/19 16:48	
sopropyl ether	<0.019	0.070		mg/Kg	≎	07/17/19 18:35	07/25/19 16:48	
lethylene Chloride	<0.11	0.35	0.11	mg/Kg	₽	07/17/19 18:35	07/25/19 16:48	
lethyl tert-butyl ether	<0.028	0.070	0.028	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
laphthalene	0.029 JB	0.070	0.023	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
-Butylbenzene	<0.027	0.070	0.027	mg/Kg	₿	07/17/19 18:35	07/25/19 16:48	
-Propylbenzene	<0.029	0.070	0.029	mg/Kg	≎	07/17/19 18:35	07/25/19 16:48	
Isopropyltoluene	<0.025	0.070	0.025	mg/Kg	≎	07/17/19 18:35	07/25/19 16:48	
ec-Butylbenzene	<0.028	0.070	0.028	mg/Kg	₽	07/17/19 18:35	07/25/19 16:48	
tyrene	<0.027	0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	
ert-Butylbenzene	<0.028	0.070	0.028	mg/Kg	≎	07/17/19 18:35	07/25/19 16:48	
,1,1,2-Tetrachloroethane	<0.032	0.070		mg/Kg		07/17/19 18:35	07/25/19 16:48	
,1,2,2-Tetrachloroethane	<0.028	0.070		mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
etrachloroethene	<0.026	0.070		mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	
Гoluene	<0.010	0.017		mg/Kg			07/25/19 16:48	

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 2-4 Lab Sample ID: 500-166949-8

Date Collected: 07/17/19 18:35 **Matrix: Solid** Date Received: 07/19/19 09:20 **Percent Solids: 83.8** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.070	0.024	mg/Kg	<u> </u>	07/17/19 18:35	07/25/19 16:48	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
1,3,5-Trimethylbenzene	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:35	07/25/19 16:48	50
Vinyl chloride	<0.018		0.070	0.018	mg/Kg	₩	07/17/19 18:35	07/25/19 16:48	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	₽	07/17/19 18:35	07/25/19 16:48	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 18:35	07/25/19 16:48	50
Dibromofluoromethane	109		75 - 120				07/17/19 18:35	07/25/19 16:48	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126				07/17/19 18:35	07/25/19 16:48	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 18:35	07/25/19 16:48	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 2-4

Date Collected: 07/17/19 18:25 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-9

Matrix: Solid

Percent Solids: 84.9

Job ID: 500-166949-1

Method: 8260B - Volatile Org	-	•	MAD:	I Imit	_	Duamanad	A mal!	Dile
Analyte	Result Qualifier	RL -		Unit	— <del>D</del>	Prepared	Analyzed	Dil Fa
Acetone	<0.12	0.67		mg/Kg		07/17/19 18:25	07/25/19 17:15	
Benzene	<0.0098	0.017	0.0098		φ.		07/25/19 17:15	
Bromobenzene	<0.024	0.067		mg/Kg	· · · · · · · ·		07/25/19 17:15	
Bromochloromethane	<0.029	0.067		mg/Kg	₩.		07/25/19 17:15	;
Bromodichloromethane	<0.025	0.067		mg/Kg	₩.		07/25/19 17:15	
Bromoform	<0.033 *	0.067		mg/Kg	<u>.</u> .		07/25/19 17:15	
Bromomethane	<0.054	0.20		mg/Kg			07/25/19 17:15	,
2-Butanone (MEK)	<0.14	0.34		mg/Kg	₽.		07/25/19 17:15	!
Carbon tetrachloride	<0.026	0.067		mg/Kg			07/25/19 17:15	
Chlorobenzene	<0.026	0.067		mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	
Chloroethane	<0.034	0.067		mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į
Chloroform	<0.025	0.13		mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į
Chloromethane	<0.022	0.067	0.022	mg/Kg	₽	07/17/19 18:25	07/25/19 17:15	
2-Chlorotoluene	<0.021	0.067	0.021	mg/Kg	≎	07/17/19 18:25	07/25/19 17:15	į
4-Chlorotoluene	<0.024	0.067	0.024	mg/Kg	≎	07/17/19 18:25	07/25/19 17:15	
cis-1,2-Dichloroethene	<0.027	0.067	0.027	mg/Kg	₽	07/17/19 18:25	07/25/19 17:15	
cis-1,3-Dichloropropene	<0.028	0.067	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	,
Dibromochloromethane	<0.033	0.067	0.033	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	į
1,2-Dibromo-3-Chloropropane	<0.13 *	0.34	0.13	mg/Kg	₽	07/17/19 18:25	07/25/19 17:15	
1,2-Dibromoethane	<0.026	0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į
Dibromomethane	<0.018 *	0.067	0.018	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į.
1,2-Dichlorobenzene	<0.022	0.067	0.022	mg/Kg	₽	07/17/19 18:25	07/25/19 17:15	
1,3-Dichlorobenzene	<0.027	0.067	0.027	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į
1,4-Dichlorobenzene	<0.024	0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	
Dichlorodifluoromethane	<0.045	0.20	0.045	mg/Kg	φ.	07/17/19 18:25	07/25/19 17:15	
1,1-Dichloroethane	<0.028	0.067	0.028	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	
1,2-Dichloroethane	<0.026	0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	
1,1-Dichloroethene	<0.026	0.067	0.026	mg/Kg		07/17/19 18:25	07/25/19 17:15	
1,2-Dichloropropane	<0.029	0.067			☼	07/17/19 18:25	07/25/19 17:15	
1,3-Dichloropropane	<0.024	0.067		mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	į
2,2-Dichloropropane	<0.030	0.067		mg/Kg		07/17/19 18:25	07/25/19 17:15	
1,1-Dichloropropene	<0.020	0.067		mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	ţ
Ethylbenzene	<0.012	0.017		mg/Kg	₽	07/17/19 18:25	07/25/19 17:15	į
Hexachlorobutadiene	<0.030	0.067		mg/Kg	φ.		07/25/19 17:15	
Isopropylbenzene	<0.026	0.067		mg/Kg	☼		07/25/19 17:15	į
Isopropyl ether	<0.019	0.067		mg/Kg	☼	07/17/19 18:25		į
Methylene Chloride	<0.11	0.34		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 17:15	
Methyl tert-butyl ether	<0.026	0.067		mg/Kg	☆		07/25/19 17:15	
Naphthalene	<0.022	0.067		mg/Kg	≎		07/25/19 17:15	
n-Butylbenzene	<0.026	0.067		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 17:15	
N-Propylbenzene	<0.028	0.067		mg/Kg	☼		07/25/19 17:15	
p-Isopropyltoluene	<0.024	0.067		mg/Kg	☼		07/25/19 17:15	Ì
sec-Butylbenzene	<0.027	0.067		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 17:15	
Styrene	<0.027	0.067		mg/Kg	₽		07/25/19 17:15	,
tert-Butylbenzene	<0.027	0.067		mg/Kg	₩		07/25/19 17:15	
					· · · · · · · · · · · · · · · · · · ·			
1,1,1,2-Tetrachloroethane	<0.031	0.067		mg/Kg	*** **		07/25/19 17:15	;
1,1,2,2-Tetrachloroethane	<0.027	0.067		mg/Kg	34 74		07/25/19 17:15	į
Tetrachloroethene Toluene	<0.025 <0.0099	0.067 0.017	0.025	mg/Kg	 		07/25/19 17:15 07/25/19 17:15	

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Lab Sample ID: 500-166949-9 Client Sample ID: SP19 2-4

Date Collected: 07/17/19 18:25 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.067	0.024	mg/Kg	<u> </u>	07/17/19 18:25	07/25/19 17:15	50
trans-1,3-Dichloropropene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,3-Trichlorobenzene	<0.031		0.067	0.031	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	50
1,2,4-Trichlorobenzene	<0.023		0.067	0.023	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,1-Trichloroethane	<0.026		0.067	0.026	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,1,2-Trichloroethane	<0.024		0.067	0.024	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	50
Trichlorofluoromethane	<0.029		0.067	0.029	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,2,3-Trichloropropane	<0.028		0.13	0.028	mg/Kg	₩.	07/17/19 18:25	07/25/19 17:15	50
1,2,4-Trimethylbenzene	<0.024		0.067	0.024	mg/Kg	☼	07/17/19 18:25	07/25/19 17:15	50
1,3,5-Trimethylbenzene	<0.026		0.067	0.026	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	50
Vinyl chloride	<0.018		0.067	0.018	mg/Kg	φ.	07/17/19 18:25	07/25/19 17:15	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	₩	07/17/19 18:25	07/25/19 17:15	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124				07/17/19 18:25	07/25/19 17:15	50
Dibromofluoromethane	109		75 - 120				07/17/19 18:25	07/25/19 17:15	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126				07/17/19 18:25	07/25/19 17:15	50
Toluene-d8 (Surr)	92		75 - 120				07/17/19 18:25	07/25/19 17:15	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: 500-166949-10

Lab Sample ID: 500-166949-10

Date Collected: 07/17/19 17:05

Matrix: Solid
Date Received: 07/19/19 09:20

Percent Solids: 92.5

Analyte	ganic Compounds (GC/N Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.099	0.57		mg/Kg	₽	07/17/19 17:05	07/25/19 17:42	50
Benzene	<0.0084	0.014	0.0084		☼		07/25/19 17:42	50
Bromobenzene	<0.020	0.057		mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Bromochloromethane	<0.025	0.057	0.025	mg/Kg	⊅	07/17/19 17:05	07/25/19 17:42	50
Bromodichloromethane	<0.021	0.057	0.021	0 0	₩	07/17/19 17:05	07/25/19 17:42	50
Bromoform	<0.028 *	0.057		mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Bromomethane	<0.046	0.17	0.046	mg/Kg	₽	07/17/19 17:05	07/25/19 17:42	50
2-Butanone (MEK)	<0.12	0.29	0.12	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Carbon tetrachloride	<0.022	0.057	0.022	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Chlorobenzene	<0.022	0.057	0.022	mg/Kg	₽	07/17/19 17:05	07/25/19 17:42	50
Chloroethane	<0.029	0.057	0.029	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chloroform	<0.021	0.11	0.021	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Chloromethane	<0.018	0.057	0.018	mg/Kg	₽	07/17/19 17:05	07/25/19 17:42	50
2-Chlorotoluene	<0.018	0.057	0.018	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
4-Chlorotoluene	<0.020	0.057	0.020	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
cis-1,2-Dichloroethene	<0.023	0.057	0.023	mg/Kg	₽	07/17/19 17:05	07/25/19 17:42	50
cis-1,3-Dichloropropene	<0.024	0.057	0.024	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Dibromochloromethane	<0.028	0.057	0.028	mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dibromo-3-Chloropropane	<0.11 *	0.29	0.11	mg/Kg	ф.	07/17/19 17:05	07/25/19 17:42	50
1,2-Dibromoethane	<0.022	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
Dibromomethane	<0.015 *	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dichlorobenzene	<0.019	0.057		mg/Kg		07/17/19 17:05	07/25/19 17:42	50
1,3-Dichlorobenzene	<0.023	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,4-Dichlorobenzene	<0.021	0.057	0.021	0 0	☼	07/17/19 17:05	07/25/19 17:42	50
Dichlorodifluoromethane	<0.039	0.17		mg/Kg	ф.	07/17/19 17:05	07/25/19 17:42	5(
1,1-Dichloroethane	<0.024	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,2-Dichloroethane	<0.022	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
1,1-Dichloroethene	<0.022	0.057		mg/Kg		07/17/19 17:05	07/25/19 17:42	50
1,2-Dichloropropane	<0.025	0.057		mg/Kg	₩		07/25/19 17:42	50
1,3-Dichloropropane	<0.021	0.057		mg/Kg	☼	07/17/19 17:05	07/25/19 17:42	50
2,2-Dichloropropane	<0.025	0.057		mg/Kg			07/25/19 17:42	50
1,1-Dichloropropene	<0.017	0.057		mg/Kg	☼		07/25/19 17:42	50
Ethylbenzene	<0.011	0.014		mg/Kg	☼		07/25/19 17:42	50
Hexachlorobutadiene	<0.026	0.057		mg/Kg			07/25/19 17:42	50
Isopropylbenzene	<0.022	0.057		mg/Kg	☼		07/25/19 17:42	50
Isopropyl ether	<0.016	0.057		mg/Kg	₩		07/25/19 17:42	50
Methylene Chloride	<0.094	0.29		mg/Kg	ф		07/25/19 17:42	50
Methyl tert-butyl ether	<0.023	0.057		mg/Kg	☼		07/25/19 17:42	50
Naphthalene	<0.019	0.057		mg/Kg	☆		07/25/19 17:42	50
n-Butylbenzene	<0.022	0.057		mg/Kg			07/25/19 17:42	5(
N-Propylbenzene	<0.024	0.057		mg/Kg	₩		07/25/19 17:42	50
p-Isopropyltoluene	<0.021	0.057		mg/Kg	₩		07/25/19 17:42	50
sec-Butylbenzene	<0.021	0.057		mg/Kg	· · · · · · · .		07/25/19 17:42	50
Styrene	<0.023	0.057		mg/Kg	≎		07/25/19 17:42	50
tert-Butylbenzene	<0.022	0.057		mg/Kg	≎		07/25/19 17:42	50
					· · · · · · · · · · · · · · · · · · ·			
1,1,1,2-Tetrachloroethane	<0.027	0.057		mg/Kg			07/25/19 17:42	50
1,1,2,2-Tetrachloroethane	<0.023	0.057		mg/Kg	:D:		07/25/19 17:42	50
Tetrachloroethene Toluene	<0.021 <0.0084	0.057 0.014		mg/Kg mg/Kg			07/25/19 17:42 07/25/19 17:42	50 50

Eurofins TestAmerica, Chicago

7/30/2019

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP11 7-9 Lab Sample ID: 500-166949-10

Date Collected: 07/17/19 17:05 Matrix: Solid
Date Received: 07/19/19 09:20 Percent Solids: 92.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	<u> </u>	07/17/19 17:05	07/25/19 17:42	50
trans-1,3-Dichloropropene	<0.021		0.057	0.021	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,2,4-Trichlorobenzene	<0.020		0.057	0.020	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	₩.	07/17/19 17:05	07/25/19 17:42	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Trichlorofluoromethane	<0.025		0.057	0.025	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,2,3-Trichloropropane	<0.024		0.11	0.024	mg/Kg	ф	07/17/19 17:05	07/25/19 17:42	50
1,2,4-Trimethylbenzene	<0.021		0.057	0.021	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	ф	07/17/19 17:05	07/25/19 17:42	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	₩	07/17/19 17:05	07/25/19 17:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 17:05	07/25/19 17:42	50
Dibromofluoromethane	111		75 - 120				07/17/19 17:05	07/25/19 17:42	50
1,2-Dichloroethane-d4 (Surr)	110		75 - 126				07/17/19 17:05	07/25/19 17:42	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 17:05	07/25/19 17:42	50

Job ID: 500-166949-1



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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 8-10

Date Collected: 07/17/19 17:30 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-11

Matrix: Solid

Percent Solids: 93.0

Job ID: 500-166949-1

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.098	·	0.57	0.098	mg/Kg	<u></u> ∓	07/17/19 17:30	07/25/19 18:09	
Benzene	<0.0083		0.014	0.0083	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
Bromobenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
Bromochloromethane	<0.024		0.057		mg/Kg		07/17/19 17:30	07/25/19 18:09	5
Bromodichloromethane	<0.021		0.057		mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
Bromoform	<0.027 *	k	0.057		mg/Kg	₩	07/17/19 17:30	07/25/19 18:09	5
Bromomethane	<0.045		0.17		mg/Kg	φ.		07/25/19 18:09	5
2-Butanone (MEK)	<0.12		0.28		mg/Kg	₩		07/25/19 18:09	5
Carbon tetrachloride	<0.022		0.057		mg/Kg	₩		07/25/19 18:09	5
Chlorobenzene	<0.022		0.057		mg/Kg			07/25/19 18:09	5
Chloroethane	<0.029		0.057		mg/Kg	☼		07/25/19 18:09	5
Chloroform	<0.021		0.11		mg/Kg	☼		07/25/19 18:09	5
Chloromethane	<0.018		0.057		mg/Kg			07/25/19 18:09	5
2-Chlorotoluene	<0.018		0.057		mg/Kg	₽		07/25/19 18:09	5
4-Chlorotoluene	<0.020		0.057		mg/Kg	₩		07/25/19 18:09	5
cis-1,2-Dichloroethene	<0.020		0.057		mg/Kg			07/25/19 18:09	5
•	<0.023		0.057		mg/Kg	т ф		07/25/19 18:09	5
cis-1,3-Dichloropropene						☆			
Dibromochloromethane	<0.028		0.057		mg/Kg			07/25/19 18:09	
I,2-Dibromo-3-Chloropropane	<0.11 *		0.28		mg/Kg			07/25/19 18:09	5
,2-Dibromoethane	<0.022	•	0.057		mg/Kg	<b>☆</b>		07/25/19 18:09	5
Dibromomethane	<0.015 *	•	0.057		mg/Kg			07/25/19 18:09	5
I,2-Dichlorobenzene	<0.019		0.057		mg/Kg			07/25/19 18:09	5
1,3-Dichlorobenzene	<0.023		0.057		mg/Kg			07/25/19 18:09	5
1,4-Dichlorobenzene	<0.021		0.057		mg/Kg			07/25/19 18:09	5
Dichlorodifluoromethane	<0.038		0.17		mg/Kg	:D:		07/25/19 18:09	5
1,1-Dichloroethane	<0.023		0.057		mg/Kg	.;;		07/25/19 18:09	5
1,2-Dichloroethane	<0.022		0.057		mg/Kg	<u>.</u> .		07/25/19 18:09	5
1,1-Dichloroethene	<0.022		0.057		mg/Kg	₽		07/25/19 18:09	5
1,2-Dichloropropane	<0.024		0.057		mg/Kg	₽		07/25/19 18:09	5
1,3-Dichloropropane	<0.020		0.057	0.020	mg/Kg	₩	07/17/19 17:30	07/25/19 18:09	5
2,2-Dichloropropane	<0.025		0.057	0.025	mg/Kg	₩	07/17/19 17:30	07/25/19 18:09	5
1,1-Dichloropropene	<0.017		0.057	0.017	mg/Kg	₩	07/17/19 17:30	07/25/19 18:09	5
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	☼		07/25/19 18:09	5
Hexachlorobutadiene	<0.025		0.057	0.025	mg/Kg	₽	07/17/19 17:30	07/25/19 18:09	5
sopropylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
sopropyl ether	<0.016		0.057	0.016	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
Methylene Chloride	<0.092		0.28	0.092	mg/Kg	φ.	07/17/19 17:30	07/25/19 18:09	5
Methyl tert-butyl ether	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
Naphthalene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
n-Butylbenzene	<0.022		0.057		mg/Kg		07/17/19 17:30	07/25/19 18:09	5
N-Propylbenzene	<0.023		0.057	0.023	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	5
o-Isopropyltoluene	<0.020		0.057		mg/Kg	☼		07/25/19 18:09	5
sec-Butylbenzene	<0.023		0.057		mg/Kg		07/17/19 17:30	07/25/19 18:09	5
Styrene	<0.022		0.057		mg/Kg	☆		07/25/19 18:09	į
ert-Butylbenzene	<0.023		0.057		mg/Kg	₽		07/25/19 18:09	
I,1,1,2-Tetrachloroethane	<0.026		0.057		mg/Kg			07/25/19 18:09	
1,1,2,2-Tetrachloroethane	<0.020		0.057		mg/Kg	₽		07/25/19 18:09	5
Fetrachloroethene	1.3		0.057		mg/Kg	Ď.		07/25/19 18:09	5
Toluene	<0.0083		0.037	0.0083		~~		07/25/19 18:09	5

Eurofins TestAmerica, Chicago

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 8-10

Date Collected: 07/17/19 17:30 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-11

**Matrix: Solid** 

Percent Solids: 93.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.057	0.020	mg/Kg	<u></u>	07/17/19 17:30	07/25/19 18:09	50
trans-1,3-Dichloropropene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,2,3-Trichlorobenzene	<0.026		0.057	0.026	mg/Kg	₽	07/17/19 17:30	07/25/19 18:09	50
1,2,4-Trichlorobenzene	<0.019		0.057	0.019	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,1-Trichloroethane	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,1,2-Trichloroethane	<0.020		0.057	0.020	mg/Kg	₽	07/17/19 17:30	07/25/19 18:09	50
Trichloroethene	<0.0093		0.028	0.0093	mg/Kg	₽	07/17/19 17:30	07/25/19 18:09	50
Trichlorofluoromethane	<0.024		0.057	0.024	mg/Kg	₽	07/17/19 17:30	07/25/19 18:09	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	\$	07/17/19 17:30	07/25/19 18:09	50
1,2,4-Trimethylbenzene	<0.020		0.057	0.020	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
1,3,5-Trimethylbenzene	<0.022		0.057	0.022	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Vinyl chloride	<0.015		0.057	0.015	mg/Kg	φ.	07/17/19 17:30	07/25/19 18:09	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	☼	07/17/19 17:30	07/25/19 18:09	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				07/17/19 17:30	07/25/19 18:09	50
Dibromofluoromethane	110		75 - 120				07/17/19 17:30	07/25/19 18:09	50
1,2-Dichloroethane-d4 (Surr)	110		75 - 126				07/17/19 17:30	07/25/19 18:09	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 17:30	07/25/19 18:09	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 16-18

Date Collected: 07/17/19 17:40 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-12

Matrix: Solid

Percent Solids: 90.7

Job ID: 500-166949-1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Acetone	<0.10	0.60		mg/Kg	<u></u>	07/17/19 17:40	07/25/19 18:36	
Benzene	<0.0087	0.015	0.0087		☼	07/17/19 17:40	07/25/19 18:36	
Bromobenzene	<0.021	0.060	0.021		₩	07/17/19 17:40	07/25/19 18:36	
Bromochloromethane	<0.026	0.060	0.026	mg/Kg	φ.	07/17/19 17:40	07/25/19 18:36	
Bromodichloromethane	<0.022	0.060		mg/Kg	₽		07/25/19 18:36	
Bromoform	<0.029 *	0.060		mg/Kg	☼		07/25/19 18:36	
Bromomethane	<0.047	0.18		mg/Kg			07/25/19 18:36	
2-Butanone (MEK)	<0.13	0.30		mg/Kg	☼		07/25/19 18:36	
Carbon tetrachloride	<0.023	0.060		mg/Kg	☼		07/25/19 18:36	
Chlorobenzene	<0.023	0.060		mg/Kg			07/25/19 18:36	
Chloroethane	<0.030	0.060		mg/Kg	₽		07/25/19 18:36	
Chloroform	<0.022	0.12		mg/Kg	₽		07/25/19 18:36	
Chloromethane	<0.019	0.060		mg/Kg	ф.		07/25/19 18:36	
2-Chlorotoluene	<0.019	0.060		mg/Kg	т ф		07/25/19 18:36	
-Chlorotoluene	<0.021	0.060		mg/Kg	т ф		07/25/19 18:36	
is-1,2-Dichloroethene	<0.021	0.060		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/25/19 18:36	
·	<0.024	0.060		mg/Kg	т ф		07/25/19 18:36	
is-1,3-Dichloropropene				0 0	γ. γ.			
Dibromochloromethane	<0.029	0.060		mg/Kg	······		07/25/19 18:36	
,2-Dibromo-3-Chloropropane	<0.12 * <0.023	0.30		mg/Kg	₩		07/25/19 18:36	
,2-Dibromoethane		0.060		mg/Kg			07/25/19 18:36	
Dibromomethane	<0.016 *	0.060		mg/Kg			07/25/19 18:36	
,2-Dichlorobenzene	<0.020	0.060		mg/Kg	<b>☆</b>		07/25/19 18:36	
,3-Dichlorobenzene	<0.024	0.060		mg/Kg	<b>☆</b>		07/25/19 18:36	
,4-Dichlorobenzene	<0.022	0.060		mg/Kg			07/25/19 18:36	
Dichlorodifluoromethane	<0.040	0.18		mg/Kg			07/25/19 18:36	
,1-Dichloroethane	<0.024	0.060		mg/Kg	₩.		07/25/19 18:36	
1,2-Dichloroethane	<0.023	0.060		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/25/19 18:36	
1,1-Dichloroethene	<0.023	0.060		mg/Kg	<b>*</b>		07/25/19 18:36	
1,2-Dichloropropane	<0.026	0.060		mg/Kg	<b>*</b>		07/25/19 18:36	
I,3-Dichloropropane	<0.022	0.060		mg/Kg			07/25/19 18:36	
2,2-Dichloropropane	<0.026	0.060		mg/Kg	₽		07/25/19 18:36	
I,1-Dichloropropene	<0.018	0.060	0.018	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	
Ethylbenzene	<0.011	0.015	0.011	mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
Hexachlorobutadiene	<0.027	0.060		mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
sopropylbenzene	<0.023	0.060		mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
sopropyl ether	<0.016	0.060		mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
Methylene Chloride	<0.097	0.30	0.097	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	
Methyl tert-butyl ether	<0.023	0.060	0.023	mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
Naphthalene	<0.020	0.060	0.020	mg/Kg	₩	07/17/19 17:40	07/25/19 18:36	
n-Butylbenzene	<0.023	0.060	0.023	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	
N-Propylbenzene	<0.025	0.060	0.025	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	
-Isopropyltoluene	<0.022	0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	
ec-Butylbenzene	<0.024	0.060	0.024	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	
Styrene	<0.023	0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	
ert-Butylbenzene	<0.024	0.060		mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	
,1,1,2-Tetrachloroethane	<0.028	0.060		mg/Kg	ф.	07/17/19 17:40	07/25/19 18:36	
1,1,2,2-Tetrachloroethane	<0.024	0.060		mg/Kg	☼		07/25/19 18:36	
Tetrachloroethene	2.5	0.060		mg/Kg	☼		07/25/19 18:36	

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12

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP15 16-18 Lab Sample ID: 500-166949-12

Date Collected: 07/17/19 17:40 **Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 90.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	<u> </u>	07/17/19 17:40	07/25/19 18:36	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,3-Trichlorobenzene	<0.027		0.060	0.027	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	50
1,2,4-Trichlorobenzene	<0.020		0.060	0.020	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	50
Trichloroethene	0.083		0.030	0.0098	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	50
1,2,4-Trimethylbenzene	<0.021		0.060	0.021	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Vinyl chloride	<0.016		0.060	0.016	mg/Kg	₽	07/17/19 17:40	07/25/19 18:36	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	☼	07/17/19 17:40	07/25/19 18:36	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				07/17/19 17:40	07/25/19 18:36	50
Dibromofluoromethane	111		75 - 120				07/17/19 17:40	07/25/19 18:36	50
1,2-Dichloroethane-d4 (Surr)	113		75 - 126				07/17/19 17:40	07/25/19 18:36	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 17:40	07/25/19 18:36	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 8-10

Date Collected: 07/17/19 17:50 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-13

Matrix: Solid

Percent Solids: 91.4

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.10	0.59	0.10	mg/Kg	<u></u> ∓	07/17/19 17:50	07/25/19 19:03	5
Benzene	<0.0085	0.015	0.0085		☼	07/17/19 17:50	07/25/19 19:03	5
Bromobenzene	<0.021	0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	5
Bromochloromethane	<0.025	0.059	0.025	mg/Kg	ф.	07/17/19 17:50	07/25/19 19:03	5
Bromodichloromethane	<0.022	0.059		mg/Kg	₩		07/25/19 19:03	5
Bromoform	<0.028 *	0.059		mg/Kg	☼		07/25/19 19:03	5
Bromomethane	<0.047	0.18		mg/Kg	φ.	07/17/19 17:50	07/25/19 19:03	5
2-Butanone (MEK)	<0.12	0.29		mg/Kg	☼		07/25/19 19:03	5
Carbon tetrachloride	<0.022	0.059		mg/Kg	☼		07/25/19 19:03	5
Chlorobenzene	<0.023	0.059		mg/Kg			07/25/19 19:03	5
Chloroethane	<0.030	0.059		mg/Kg	☼		07/25/19 19:03	5
Chloroform	<0.022	0.12		mg/Kg	☼		07/25/19 19:03	5
Chloromethane	<0.019	0.059		mg/Kg			07/25/19 19:03	5
2-Chlorotoluene	<0.018	0.059		mg/Kg	☼		07/25/19 19:03	5
4-Chlorotoluene	<0.020	0.059		mg/Kg	☆		07/25/19 19:03	5
cis-1,2-Dichloroethene	<0.024	0.059		mg/Kg			07/25/19 19:03	5
sis-1,3-Dichloropropene	<0.024	0.059		mg/Kg	☼		07/25/19 19:03	5
Dibromochloromethane	<0.029	0.059		mg/Kg	₩		07/25/19 19:03	5
,2-Dibromo-3-Chloropropane	<0.12 *	0.29		mg/Kg			07/25/19 19:03	5
,2-Dibromoethane	<0.023	0.059		mg/Kg	₩		07/25/19 19:03	5
Dibromomethane	<0.016 *	0.059		mg/Kg	 \$		07/25/19 19:03	5
,2-Dichlorobenzene	<0.020	0.059		mg/Kg			07/25/19 19:03	
	<0.020	0.059					07/25/19 19:03	5
,3-Dichlorobenzene	<0.023	0.059		mg/Kg mg/Kg	~ ☆		07/25/19 19:03	5
,4-Dichlorobenzene					· · · · · · · · · · · · · · · · · · ·			
Dichlorodifluoromethane	<0.039	0.18		mg/Kg	₩		07/25/19 19:03	5
,1-Dichloroethane	<0.024	0.059		mg/Kg			07/25/19 19:03	5
,2-Dichloroethane	<0.023	0.059		mg/Kg	¥.		07/25/19 19:03	5
,1-Dichloroethene	<0.023	0.059		mg/Kg	₩		07/25/19 19:03	5
,2-Dichloropropane	<0.025	0.059		mg/Kg	₩		07/25/19 19:03	5
,3-Dichloropropane	<0.021	0.059	0.021	mg/Kg	<del>.</del>		07/25/19 19:03	
2,2-Dichloropropane	<0.026	0.059		mg/Kg	<b>☆</b>		07/25/19 19:03	5
,1-Dichloropropene	<0.017	0.059		mg/Kg	<b>☆</b>		07/25/19 19:03	5
Ethylbenzene	<0.011	0.015		mg/Kg			07/25/19 19:03	5
Hexachlorobutadiene 	<0.026	0.059		mg/Kg			07/25/19 19:03	5
sopropylbenzene	<0.022	0.059		mg/Kg	*		07/25/19 19:03	5
sopropyl ether	<0.016	0.059		mg/Kg			07/25/19 19:03	5
Methylene Chloride	<0.095	0.29		mg/Kg	:D:		07/25/19 19:03	5
Methyl tert-butyl ether	<0.023	0.059		mg/Kg	φ.		07/25/19 19:03	5
laphthalene	<0.020	0.059		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/25/19 19:03	5
Butylbenzene	<0.023	0.059		mg/Kg	.;;		07/25/19 19:03	5
I-Propylbenzene	<0.024	0.059		mg/Kg	:D:		07/25/19 19:03	5
-Isopropyltoluene	<0.021	0.059		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/25/19 19:03	
ec-Butylbenzene	<0.023	0.059		mg/Kg	₽		07/25/19 19:03	5
Styrene	<0.023	0.059		mg/Kg	<b>*</b>		07/25/19 19:03	5
ert-Butylbenzene	<0.023	0.059		mg/Kg			07/25/19 19:03	5
,1,1,2-Tetrachloroethane	<0.027	0.059		mg/Kg	Þ		07/25/19 19:03	5
,1,2,2-Tetrachloroethane	<0.023	0.059		mg/Kg	₩		07/25/19 19:03	5
Tetrachloroethene	<0.022	0.059	0.022	mg/Kg	₩	07/17/19 17:50	07/25/19 19:03	5

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 8-10 Lab Sample ID: 500-166949-13

Date Collected: 07/17/19 17:50 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 91.4

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS) (Contini	ued)					
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.059	0.020	mg/Kg	<u> </u>	07/17/19 17:50	07/25/19 19:03	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	₽	07/17/19 17:50	07/25/19 19:03	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,1-Trichloroethane	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	₽	07/17/19 17:50	07/25/19 19:03	50
Trichloroethene	<0.0096		0.029	0.0096	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	₽	07/17/19 17:50	07/25/19 19:03	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
1,3,5-Trimethylbenzene	<0.022		0.059	0.022	mg/Kg	☼	07/17/19 17:50	07/25/19 19:03	50
Vinyl chloride	<0.015		0.059	0.015	mg/Kg	₽	07/17/19 17:50	07/25/19 19:03	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	₩	07/17/19 17:50	07/25/19 19:03	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				07/17/19 17:50	07/25/19 19:03	50
Dibromofluoromethane	111		75 - 120				07/17/19 17:50	07/25/19 19:03	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				07/17/19 17:50	07/25/19 19:03	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 17:50	07/25/19 19:03	50

7/30/2019

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 16-18

Date Collected: 07/17/19 17:35 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-14

Matrix: Solid

Percent Solids: 93.1

Job ID: 500-166949-1

Analyte	anic Compour Result C		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.096	<del></del>	0.55	0.096	mg/Kg	— <del>ÿ</del>	07/17/19 17:35	07/25/19 19:30	
Benzene	<0.0081		0.014	0.0081	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Bromobenzene	<0.020		0.055	0.020	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Bromochloromethane	<0.024		0.055		mg/Kg		07/17/19 17:35	07/25/19 19:30	5
Bromodichloromethane	<0.021		0.055		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Bromoform	<0.027 *		0.055		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Bromomethane	<0.044		0.17		mg/Kg			07/25/19 19:30	5
2-Butanone (MEK)	<0.12		0.28		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Carbon tetrachloride	<0.021		0.055		mg/Kg	₩		07/25/19 19:30	5
Chlorobenzene	<0.021		0.055		mg/Kg	 \$		07/25/19 19:30	5
Chloroethane	<0.028		0.055		mg/Kg	₩		07/25/19 19:30	5
Chloroform	<0.021		0.11		mg/Kg	₩		07/25/19 19:30	5
Chloromethane	<0.018		0.055		mg/Kg			07/25/19 19:30	5
2-Chlorotoluene	<0.017		0.055		mg/Kg	₩		07/25/19 19:30	5
4-Chlorotoluene	<0.017		0.055		mg/Kg			07/25/19 19:30	5
cis-1,2-Dichloroethene	<0.013		0.055		mg/Kg			07/25/19 19:30	5
·	<0.023		0.055		mg/Kg			07/25/19 19:30	5
cis-1,3-Dichloropropene						≎			
Dibromochloromethane	<0.027		0.055		mg/Kg	<del>.</del>		07/25/19 19:30	
I,2-Dibromo-3-Chloropropane	<0.11 *		0.28		mg/Kg			07/25/19 19:30	5
1,2-Dibromoethane	<0.021		0.055	0.021		*		07/25/19 19:30	ţ
Dibromomethane	<0.015 *		0.055		mg/Kg			07/25/19 19:30	
I,2-Dichlorobenzene	<0.019		0.055		mg/Kg			07/25/19 19:30	5
1,3-Dichlorobenzene	<0.022		0.055		mg/Kg	₩.		07/25/19 19:30	5
1,4-Dichlorobenzene	<0.020		0.055		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/25/19 19:30	5
Dichlorodifluoromethane	<0.037		0.17		mg/Kg	:D		07/25/19 19:30	5
1,1-Dichloroethane	<0.023		0.055		mg/Kg	<del>\</del>		07/25/19 19:30	Ę
1,2-Dichloroethane	<0.022		0.055		mg/Kg			07/25/19 19:30	5
1,1-Dichloroethene	<0.022		0.055		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	Ę
1,2-Dichloropropane	<0.024		0.055		mg/Kg	₩		07/25/19 19:30	Ę
1,3-Dichloropropane	<0.020		0.055	0.020	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	Ę
2,2-Dichloropropane	<0.025		0.055	0.025	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
1,1-Dichloropropene	<0.017		0.055	0.017	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Ethylbenzene	<0.010		0.014	0.010	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Hexachlorobutadiene	<0.025		0.055	0.025	mg/Kg		07/17/19 17:35	07/25/19 19:30	
sopropylbenzene	<0.021		0.055	0.021	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
sopropyl ether	<0.015		0.055	0.015	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
Methylene Chloride	<0.090		0.28	0.090	mg/Kg	ф.	07/17/19 17:35	07/25/19 19:30	5
Methyl tert-butyl ether	<0.022		0.055	0.022	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	Ę
Naphthalene	<0.019		0.055	0.019	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	5
n-Butylbenzene	<0.022		0.055		mg/Kg		07/17/19 17:35	07/25/19 19:30	
N-Propylbenzene	<0.023		0.055		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	Ę
o-Isopropyltoluene	<0.020		0.055		mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	Ę
sec-Butylbenzene	<0.022		0.055		mg/Kg			07/25/19 19:30	
Styrene	<0.021		0.055		mg/Kg	₩		07/25/19 19:30	į
ert-Butylbenzene	<0.022		0.055		mg/Kg	₩		07/25/19 19:30	
I,1,1,2-Tetrachloroethane	<0.026		0.055		mg/Kg			07/25/19 19:30	
1,1,2,2-Tetrachloroethane	<0.020		0.055		mg/Kg	₩		07/25/19 19:30	5
Fetrachloroethene	<0.022		0.055		mg/Kg	₩.		07/25/19 19:30	5
I CHACHIUI UCH ICHC	~U.U∠ I		0.000	0.0∠ I	mg/rvg	~	011111110 11.00	01120118 18.00	

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7/30/2019

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP16 16-18

Lab Sample ID: 500-166949-14 Date Collected: 07/17/19 17:35

**Matrix: Solid Percent Solids: 93.1** Date Received: 07/19/19 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.019		0.055	0.019	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	50
trans-1,3-Dichloropropene	<0.020		0.055	0.020	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	50
1,2,3-Trichlorobenzene	<0.025		0.055	0.025	mg/Kg	₽	07/17/19 17:35	07/25/19 19:30	50
1,2,4-Trichlorobenzene	<0.019		0.055	0.019	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,1-Trichloroethane	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,1,2-Trichloroethane	<0.020		0.055	0.020	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	50
Trichloroethene	<0.0091		0.028	0.0091	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	50
Trichlorofluoromethane	<0.024		0.055	0.024	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg		07/17/19 17:35	07/25/19 19:30	50
1,2,4-Trimethylbenzene	<0.020		0.055	0.020	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
1,3,5-Trimethylbenzene	<0.021		0.055	0.021	mg/Kg	☼	07/17/19 17:35	07/25/19 19:30	50
Vinyl chloride	<0.015		0.055	0.015	mg/Kg	φ.	07/17/19 17:35	07/25/19 19:30	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	₩	07/17/19 17:35	07/25/19 19:30	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 17:35	07/25/19 19:30	50
Dibromofluoromethane	113		75 - 120				07/17/19 17:35	07/25/19 19:30	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				07/17/19 17:35	07/25/19 19:30	50
Toluene-d8 (Surr)	93		75 - 120				07/17/19 17:35	07/25/19 19:30	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 8-10

Date Collected: 07/17/19 17:45 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-15

Matrix: Solid

Percent Solids: 95.1

Job ID: 500-166949-1

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.093		0.54		mg/Kg	— <del>-</del>		07/25/19 19:58	
Benzene	<0.0078		0.013	0.0078		₩		07/25/19 19:58	
Bromobenzene	<0.019		0.054		mg/Kg	₩		07/25/19 19:58	į
Bromochloromethane	<0.023		0.054		mg/Kg			07/25/19 19:58	
Bromodichloromethane	<0.020		0.054		mg/Kg	₩		07/25/19 19:58	į
Bromoform	<0.026	F1 *	0.054		mg/Kg	₩		07/25/19 19:58	į
Bromomethane	<0.043		0.16		mg/Kg			07/25/19 19:58	
2-Butanone (MEK)	<0.11		0.27		mg/Kg	₩		07/25/19 19:58	
Carbon tetrachloride	<0.021		0.054		mg/Kg	₩		07/25/19 19:58	ì
Chlorobenzene	<0.021		0.054		mg/Kg	<u>.</u> .		07/25/19 19:58	;
Chloroethane	< 0.027		0.054		mg/Kg	₩		07/25/19 19:58	
Chloroform	<0.027		0.11		mg/Kg	₩		07/25/19 19:58	ì
Chloromethane	< 0.017		0.054		mg/Kg			07/25/19 19:58	
2-Chlorotoluene	< 0.017		0.054		mg/Kg	₩		07/25/19 19:58	ì
4-Chlorotoluene	<0.017		0.054		mg/Kg			07/25/19 19:58	į
cis-1,2-Dichloroethene	<0.019		0.054		mg/Kg			07/25/19 19:58	
cis-1,3-Dichloropropene	<0.022		0.054		mg/Kg			07/25/19 19:58	
Dibromochloromethane	< 0.022		0.054		mg/Kg	ť.		07/25/19 19:58	
1,2-Dibromo-3-Chloropropane	<0.020		0.034		mg/Kg			07/25/19 19:58	
1,2-Dibromoethane	<0.021	F 1	0.27		mg/Kg			07/25/19 19:58	
Dibromomethane	<0.021	<b>⊏1</b> *	0.054		mg/Kg			07/25/19 19:58	
1,2-Dichlorobenzene	<0.014		0.054		mg/Kg			07/25/19 19:58	
1,3-Dichlorobenzene	<0.018		0.054		mg/Kg	**		07/25/19 19:58	
	<0.021		0.054		mg/Kg	**		07/25/19 19:58	
1,4-Dichlorobenzene Dichlorodifluoromethane	<0.020		0.054		mg/Kg	<sub>1</sub>		07/25/19 19:58	
						**			
1,1-Dichloroethane	<0.022		0.054		mg/Kg	₩		07/25/19 19:58	
1,2-Dichloroethane	<0.021		0.054	0.021	mg/Kg	<sub>1</sub>		07/25/19 19:58	
1,1-Dichloroethene	<0.021		0.054		0 0	₩		07/25/19 19:58	
1,2-Dichloropropane	<0.023		0.054		mg/Kg	₩		07/25/19 19:58	
1,3-Dichloropropane	<0.019		0.054		mg/Kg	<sub>.</sub>		07/25/19 19:58	
2,2-Dichloropropane	<0.024		0.054		mg/Kg	*		07/25/19 19:58	
1,1-Dichloropropene	<0.016		0.054		mg/Kg	₩		07/25/19 19:58	
Ethylbenzene	<0.0098		0.013	0.0098	0 0			07/25/19 19:58	
Hexachlorobutadiene	<0.024		0.054		mg/Kg	₩		07/25/19 19:58	
Isopropylbenzene	<0.021		0.054		mg/Kg	<b>☆</b>		07/25/19 19:58	
Isopropyl ether	<0.015		0.054		mg/Kg		07/17/19 17:45		
Methylene Chloride	<0.087		0.27		mg/Kg	1,2		07/25/19 19:58	
Methyl tert-butyl ether	<0.021		0.054		mg/Kg	φ.		07/25/19 19:58	
Naphthalene	<0.018		0.054		mg/Kg	T.		07/25/19 19:58	
n-Butylbenzene	<0.021		0.054		mg/Kg	:D		07/25/19 19:58	
N-Propylbenzene	<0.022		0.054		mg/Kg	<del>\</del>		07/25/19 19:58	
o-Isopropyltoluene	<0.019		0.054		mg/Kg	<del>Ω</del>		07/25/19 19:58	
sec-Butylbenzene	<0.021		0.054		mg/Kg	₩		07/25/19 19:58	
Styrene	<0.021		0.054		mg/Kg	₩.		07/25/19 19:58	
tert-Butylbenzene	<0.021		0.054		mg/Kg	<b>*</b>		07/25/19 19:58	
1,1,1,2-Tetrachloroethane	<0.025		0.054		mg/Kg	₩		07/25/19 19:58	
1,1,2,2-Tetrachloroethane	<0.021		0.054		mg/Kg	₩		07/25/19 19:58	
Tetrachloroethene	<0.020		0.054	0.020	mg/Kg	₩	07/17/19 17:45	07/25/19 19:58	;

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4.0

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 8-10 Lab Sample ID: 500-166949-15

Date Collected: 07/17/19 17:45 **Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 95.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.019		0.054	0.019	mg/Kg	<u></u>	07/17/19 17:45	07/25/19 19:58	50
trans-1,3-Dichloropropene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,3-Trichlorobenzene	<0.025		0.054	0.025	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
1,2,4-Trichlorobenzene	<0.018		0.054	0.018	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,1,1-Trichloroethane	<0.020		0.054	0.020	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
1,1,2-Trichloroethane	<0.019		0.054	0.019	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
Trichloroethene	<0.0088		0.027	0.0088	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
Trichlorofluoromethane	<0.023		0.054	0.023	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,2,3-Trichloropropane	<0.022		0.11	0.022	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
1,2,4-Trimethylbenzene	<0.019		0.054	0.019	mg/Kg	☼	07/17/19 17:45	07/25/19 19:58	50
1,3,5-Trimethylbenzene	<0.020		0.054	0.020	mg/Kg	₽	07/17/19 17:45	07/25/19 19:58	50
Vinyl chloride	<0.014		0.054	0.014	mg/Kg	φ.	07/17/19 17:45	07/25/19 19:58	50
Xylenes, Total	<0.012		0.027	0.012	mg/Kg	≎	07/17/19 17:45	07/25/19 19:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 17:45	07/25/19 19:58	50
Dibromofluoromethane	111		75 - 120				07/17/19 17:45	07/25/19 19:58	50
1,2-Dichloroethane-d4 (Surr)	114		75 - 126				07/17/19 17:45	07/25/19 19:58	50
Toluene-d8 (Surr)	94		75 - 120				07/17/19 17:45	07/25/19 19:58	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 16-18

Date Collected: 07/17/19 17:55 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-16

Matrix: Solid

Percent Solids: 93.0

Job ID: 500-166949-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Acetone	<0.10		0.58		mg/Kg	— <del>¯</del>	<u> </u>	07/26/19 11:27	
Benzene	<0.0085		0.015	0.0085		☆		07/26/19 11:27	
Bromobenzene	<0.021		0.058		mg/Kg	₩		07/26/19 11:27	
Bromochloromethane	<0.025		0.058		mg/Kg	 \$		07/26/19 11:27	
Bromodichloromethane	<0.022		0.058		mg/Kg	₩		07/26/19 11:27	
Bromoform	<0.028	*	0.058		mg/Kg	☆		07/26/19 11:27	
Bromomethane	<0.046		0.17		mg/Kg			07/26/19 11:27	
2-Butanone (MEK)	<0.12		0.29		mg/Kg	☆		07/26/19 11:27	
Carbon tetrachloride	<0.022		0.058		mg/Kg	₽		07/26/19 11:27	
Chlorobenzene	<0.022		0.058		mg/Kg	 ☆		07/26/19 11:27	
Chloroethane	<0.029		0.058		mg/Kg	₩		07/26/19 11:27	
Chloroform	<0.029		0.030		mg/Kg	₽		07/26/19 11:27	·
			0.058		mg/Kg			07/26/19 11:27	
Chloromethane 2-Chlorotoluene	<0.019 <0.018		0.058		mg/Kg	≎		07/26/19 11:27	;
2-Chlorotoluene 4-Chlorotoluene	<0.018		0.058			≎		07/26/19 11:27	;
			0.058		mg/Kg mg/Kg	<del>*</del> .		07/26/19 11:27	
cis-1,2-Dichloroethene	<0.024					≎			
cis-1,3-Dichloropropene	<0.024		0.058		mg/Kg	y⊀ 		07/26/19 11:27	;
Dibromochloromethane	<0.028	<u>.</u>	0.058		mg/Kg	¾.		07/26/19 11:27	
1,2-Dibromo-3-Chloropropane	<0.12	*	0.29		mg/Kg	ψ.		07/26/19 11:27	
1,2-Dibromoethane	<0.022		0.058		mg/Kg	ψ.		07/26/19 11:27	
Dibromomethane	<0.016	*	0.058		mg/Kg	<u>.</u> .		07/26/19 11:27	
1,2-Dichlorobenzene	<0.019		0.058		mg/Kg	<b>☆</b>		07/26/19 11:27	,
1,3-Dichlorobenzene	<0.023		0.058		mg/Kg	<b>*</b>		07/26/19 11:27	,
1,4-Dichlorobenzene	<0.021		0.058		mg/Kg			07/26/19 11:27	
Dichlorodifluoromethane	<0.039		0.17		mg/Kg	*	07/17/19 17:55	07/26/19 11:27	,
1,1-Dichloroethane	<0.024		0.058		mg/Kg	*		07/26/19 11:27	
1,2-Dichloroethane	<0.023		0.058		mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
1,1-Dichloroethene	<0.023		0.058	0.023	mg/Kg	☆	07/17/19 17:55	07/26/19 11:27	,
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	☼	07/17/19 17:55	07/26/19 11:27	
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	☆	07/17/19 17:55	07/26/19 11:27	;
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	≎	07/17/19 17:55	07/26/19 11:27	
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	☆	07/17/19 17:55	07/26/19 11:27	
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	☆	07/17/19 17:55	07/26/19 11:27	;
Methylene Chloride	<0.095		0.29	0.095	mg/Kg		07/17/19 17:55	07/26/19 11:27	
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
Naphthalene	<0.019		0.058		mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	:
n-Butylbenzene	<0.023		0.058		mg/Kg			07/26/19 11:27	;
N-Propylbenzene	<0.024		0.058		mg/Kg	₩	07/17/19 17:55	07/26/19 11:27	
p-Isopropyltoluene	<0.021		0.058		mg/Kg	☆		07/26/19 11:27	
sec-Butylbenzene	<0.023		0.058		mg/Kg			07/26/19 11:27	
Styrene	<0.022		0.058		mg/Kg	≎		07/26/19 11:27	
tert-Butylbenzene	<0.023		0.058		mg/Kg	₩		07/26/19 11:27	Ì
1,1,1,2-Tetrachloroethane	<0.027		0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 11:27	
1,1,2,2-Tetrachloroethane	<0.027		0.058		mg/Kg	≎		07/26/19 11:27	·
Tetrachloroethene	<0.023		0.058		mg/Kg	≎		07/26/19 11:27	,
Toluene	<0.0025		0.056	0.022				07/26/19 11:27	

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 16-18 Lab Sample ID: 500-166949-16

Date Collected: 07/17/19 17:55

Matrix: Solid
Date Received: 07/19/19 09:20

Percent Solids: 93.0

Method: 8260B - Volatile C Analyte	•	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020	- Guanner	0.058	0.020	mg/Kg	— <del>=</del>	<u> </u>	07/26/19 11:27	50
trans-1,3-Dichloropropene	<0.020		0.058	0.020	mg/Kg	-₩		07/26/19 11:27	50
1,2,3-Trichlorobenzene	<0.021		0.058	0.021	mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 11:27	50
1,2,4-Trichlorobenzene	<0.027		0.058		mg/Kg	₩.		07/26/19 11:27	50
1,1,1-Trichloroethane	<0.020		0.058		mg/Kg	₩		07/26/19 11:27	50
1,1,2-Trichloroethane	<0.020		0.058	0.020		 ☆		07/26/19 11:27	50
Trichloroethene	<0.0095		0.030		mg/Kg	₩		07/26/19 11:27	50
Trichlorofluoromethane	<0.025		0.058		mg/Kg	₩		07/26/19 11:27	50
1,2,3-Trichloropropane	<0.024		0.12		mg/Kg			07/26/19 11:27	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	₽		07/26/19 11:27	50
1,3,5-Trimethylbenzene	<0.022		0.058		mg/Kg	☼		07/26/19 11:27	50
Vinyl chloride	<0.015		0.058		mg/Kg	· · · · · · · .		07/26/19 11:27	50
Xylenes, Total	<0.013		0.029		mg/Kg	₩		07/26/19 11:27	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 17:55	07/26/19 11:27	50
Dibromofluoromethane	104		75 - 120				07/17/19 17:55	07/26/19 11:27	50
1,2-Dichloroethane-d4 (Surr)	101		75 - 126				07/17/19 17:55	07/26/19 11:27	50
Toluene-d8 (Surr)	96		75 - 120				07/17/19 17:55	07/26/19 11:27	50

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 8-10

Date Collected: 07/17/19 18:45 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-17

Matrix: Solid

Percent Solids: 94.3

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.097	0.56	0.097	mg/Kg	<u></u>	07/17/19 18:45	07/26/19 11:55	
Benzene	<0.0082	0.014	0.0082	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Bromobenzene	<0.020	0.056		mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Bromochloromethane	<0.024	0.056		mg/Kg		07/17/19 18:45	07/26/19 11:55	5
Bromodichloromethane	<0.021	0.056		mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Bromoform	<0.027 *	0.056		mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Bromomethane	<0.045	0.17		mg/Kg			07/26/19 11:55	5
2-Butanone (MEK)	<0.12	0.28		mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Carbon tetrachloride	<0.022	0.056		mg/Kg	₩		07/26/19 11:55	5
Chlorobenzene	<0.022	0.056		mg/Kg			07/26/19 11:55	5
Chloroethane	<0.028	0.056		mg/Kg	₩		07/26/19 11:55	5
Chloroform	<0.021	0.11		mg/Kg	₩		07/26/19 11:55	5
Chloromethane	<0.018	0.056		mg/Kg			07/26/19 11:55	5
2-Chlorotoluene	<0.018	0.056		mg/Kg	₩		07/26/19 11:55	5
4-Chlorotoluene	<0.020	0.056		mg/Kg	₩		07/26/19 11:55	5
cis-1,2-Dichloroethene	<0.023	0.056		mg/Kg			07/26/19 11:55	5
cis-1,3-Dichloropropene	<0.023	0.056		mg/Kg	₩		07/26/19 11:55	5
Dibromochloromethane	<0.023	0.056		mg/Kg			07/26/19 11:55	5
1,2-Dibromo-3-Chloropropane	<0.027	0.28		mg/Kg			07/26/19 11:55	
1,2-Dibromoethane	<0.022	0.056		mg/Kg	~ ☆		07/26/19 11:55	5
	<0.022	0.056			₩		07/26/19 11:55	
Dibromomethane				mg/Kg	· · · · · · · · · · · · · · · · · · ·			
1,2-Dichlorobenzene	<0.019	0.056		mg/Kg			07/26/19 11:55	5
1,3-Dichlorobenzene	<0.022	0.056		mg/Kg	<b>₽</b>		07/26/19 11:55	5
1,4-Dichlorobenzene	<0.020	0.056		mg/Kg	147		07/26/19 11:55	
Dichlorodifluoromethane	<0.038	0.17		mg/Kg	1.t		07/26/19 11:55	5
1,1-Dichloroethane	<0.023	0.056		mg/Kg	₩.		07/26/19 11:55	5
1,2-Dichloroethane	<0.022	0.056		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/26/19 11:55	5
1,1-Dichloroethene	<0.022	0.056		mg/Kg	<b>:</b>		07/26/19 11:55	Ę
1,2-Dichloropropane	<0.024	0.056		mg/Kg	<del>.</del>		07/26/19 11:55	Ę
1,3-Dichloropropane	<0.020	0.056		mg/Kg			07/26/19 11:55	
2,2-Dichloropropane	<0.025	0.056	0.025	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	5
1,1-Dichloropropene	<0.017	0.056	0.017	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	5
Ethylbenzene	<0.010	0.014	0.010	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Hexachlorobutadiene	<0.025	0.056		mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	
sopropylbenzene	<0.022	0.056	0.022	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
sopropyl ether	<0.015	0.056	0.015	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Methylene Chloride	<0.091	0.28	0.091	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Methyl tert-butyl ether	<0.022	0.056	0.022	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
Naphthalene	<0.019	0.056	0.019	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	5
n-Butylbenzene	<0.022	0.056	0.022	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	
N-Propylbenzene	< 0.023	0.056	0.023	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	Ę
o-Isopropyltoluene	<0.020	0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	ţ
sec-Butylbenzene	<0.022	0.056	0.022	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	
Styrene	<0.022	0.056		mg/Kg	₩		07/26/19 11:55	Ę
tert-Butylbenzene	<0.022	0.056		mg/Kg	☼		07/26/19 11:55	Ę
1,1,1,2-Tetrachloroethane	<0.026	0.056		mg/Kg			07/26/19 11:55	
1,1,2,2-Tetrachloroethane	<0.022	0.056		mg/Kg	₩		07/26/19 11:55	5
Tetrachloroethene	<0.021	0.056		mg/Kg	₩		07/26/19 11:55	5
Toluene	<0.0082	0.014	3.021	σછ			07/26/19 11:55	5

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Client: Key Engineering Group, Ltd.

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 8-10 Lab Sample ID: 500-166949-17

Date Collected: 07/17/19 18:45

Matrix: Solid
Date Received: 07/19/19 09:20

Percent Solids: 94.3

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS) (Continu	red)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.056	0.020	mg/Kg	<u> </u>	07/17/19 18:45	07/26/19 11:55	50
trans-1,3-Dichloropropene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,2,3-Trichlorobenzene	<0.026		0.056	0.026	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	50
1,2,4-Trichlorobenzene	<0.019		0.056	0.019	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,1,1-Trichloroethane	<0.021		0.056	0.021	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	50
1,1,2-Trichloroethane	<0.020		0.056	0.020	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	50
Trichloroethene	<0.0092		0.028	0.0092	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
Trichlorofluoromethane	<0.024		0.056	0.024	mg/Kg	≎	07/17/19 18:45	07/26/19 11:55	50
1,2,3-Trichloropropane	<0.023		0.11	0.023	mg/Kg	₽	07/17/19 18:45	07/26/19 11:55	50
1,2,4-Trimethylbenzene	<0.020		0.056	0.020	mg/Kg	☼	07/17/19 18:45	07/26/19 11:55	50
1,3,5-Trimethylbenzene	<0.021		0.056	0.021	mg/Kg	≎	07/17/19 18:45	07/26/19 11:55	50
Vinyl chloride	<0.015		0.056	0.015	mg/Kg		07/17/19 18:45	07/26/19 11:55	50
Xylenes, Total	<0.012		0.028	0.012	mg/Kg	₩	07/17/19 18:45	07/26/19 11:55	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				07/17/19 18:45	07/26/19 11:55	50
Dibromofluoromethane	102		75 - 120				07/17/19 18:45	07/26/19 11:55	50

75 - 126

75 - 120

101

Job ID: 500-166949-1

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07/17/19 18:45 07/26/19 11:55

07/17/19 18:45 07/26/19 11:55

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 16-18

Date Collected: 07/17/19 18:10 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-18

Matrix: Solid

Percent Solids: 84.4

Job ID: 500-166949-1

Method: 8260B - Volatile Orç Analyte	Result Qualifier	, RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	- <del>(0.12</del>	0.68		mg/Kg	— <del>ğ</del>	07/17/19 18:10	-	5
Benzene	<0.0099	0.00	0.0099		₽		07/26/19 12:22	5
Bromobenzene	<0.024	0.068		mg/Kg	₩		07/26/19 12:22	5
Bromochloromethane	<0.029	0.068		mg/Kg	<u>T</u>		07/26/19 12:22	5
Bromodichloromethane	<0.025	0.068		mg/Kg			07/26/19 12:22	5
Bromoform	<0.023	0.068		mg/Kg	₩		07/26/19 12:22	5
Bromomethane		0.008		mg/Kg			07/26/19 12:22	5
	<0.054 <0.14	0.20			~ ☆		07/26/19 12:22	
2-Butanone (MEK)		0.34		mg/Kg	₩			5
Carbon tetrachloride	<0.026			mg/Kg			07/26/19 12:22	5
Chlorobenzene	<0.026	0.068		mg/Kg	₩		07/26/19 12:22	5
Chloroethane	<0.034	0.068		mg/Kg	₩		07/26/19 12:22	5
Chloroform	<0.025	0.14		mg/Kg	1		07/26/19 12:22	5
Chloromethane	<0.022	0.068		mg/Kg	₩.		07/26/19 12:22	5
2-Chlorotoluene	<0.021	0.068		mg/Kg	₩		07/26/19 12:22	5
4-Chlorotoluene	<0.024	0.068		mg/Kg			07/26/19 12:22	5
cis-1,2-Dichloroethene	<0.028	0.068		mg/Kg	<b>*</b>		07/26/19 12:22	5
cis-1,3-Dichloropropene	<0.028	0.068		mg/Kg	÷.		07/26/19 12:22	5
Dibromochloromethane	<0.033	0.068		mg/Kg			07/26/19 12:22	5
1,2-Dibromo-3-Chloropropane	<0.13 *	0.34		mg/Kg	₽		07/26/19 12:22	5
1,2-Dibromoethane	<0.026	0.068		mg/Kg	☼		07/26/19 12:22	5
Dibromomethane	<0.018 *	0.068	0.018	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,2-Dichlorobenzene	<0.023	0.068	0.023	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,3-Dichlorobenzene	<0.027	0.068	0.027	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,4-Dichlorobenzene	<0.025	0.068	0.025	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
Dichlorodifluoromethane	<0.046	0.20		mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,1-Dichloroethane	<0.028	0.068		mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,2-Dichloroethane	<0.027	0.068	0.027	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
1,1-Dichloroethene	<0.026	0.068	0.026	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	5
1,2-Dichloropropane	<0.029	0.068	0.029	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	Ę
1,3-Dichloropropane	<0.024	0.068	0.024	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
2,2-Dichloropropane	<0.030	0.068	0.030	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	5
1,1-Dichloropropene	<0.020	0.068	0.020	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
Ethylbenzene	<0.012	0.017	0.012	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	5
Hexachlorobutadiene	<0.030	0.068	0.030	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
sopropylbenzene	<0.026	0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	5
sopropyl ether	<0.019	0.068	0.019	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	5
Methylene Chloride	<0.11	0.34	0.11	mg/Kg	<del>.</del>	07/17/19 18:10	07/26/19 12:22	5
Methyl tert-butyl ether	<0.027	0.068	0.027	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
Naphthalene	0.031 JB	0.068		mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	5
n-Butylbenzene	<0.026	0.068		mg/Kg	 ф		07/26/19 12:22	5
N-Propylbenzene	<0.028	0.068		mg/Kg	☼		07/26/19 12:22	5
o-Isopropyltoluene	<0.024	0.068		mg/Kg	₩		07/26/19 12:22	5
sec-Butylbenzene	<0.027	0.068		mg/Kg	 \$		07/26/19 12:22	
Styrene	<0.026	0.068		mg/Kg	☼		07/26/19 12:22	5
ert-Butylbenzene	<0.027	0.068		mg/Kg	₩		07/26/19 12:22	
1,1,1,2-Tetrachloroethane	<0.031	0.068		mg/Kg			07/26/19 12:22	
1,1,2,2-Tetrachloroethane	<0.027	0.068		mg/Kg	₽		07/26/19 12:22	5
Tetrachloroethene	<0.027	0.068		mg/Kg	☼		07/26/19 12:22	5
Toluene	<0.0099	0.008	0.025				07/26/19 12:22	5

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP18 16-18 Lab Sample ID: 500-166949-18

Date Collected: 07/17/19 18:10 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 84.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	<u> </u>	07/17/19 18:10	07/26/19 12:22	50
trans-1,3-Dichloropropene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 18:10	07/26/19 12:22	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	₽	07/17/19 18:10	07/26/19 12:22	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	₩	07/17/19 18:10	07/26/19 12:22	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				07/17/19 18:10	07/26/19 12:22	50
Dibromofluoromethane	105		75 - 120				07/17/19 18:10	07/26/19 12:22	50
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				07/17/19 18:10	07/26/19 12:22	50
Toluene-d8 (Surr)	97		75 - 120				07/17/19 18:10	07/26/19 12:22	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 8-10

Date Collected: 07/17/19 18:55 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-19

Matrix: Solid

Percent Solids: 82.9

Job ID: 500-166949-1

janic Compounds (GC/M	<del>-</del> /						
Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
<0.12				<u></u>			
<0.010	0.018			☼	07/17/19 18:55	07/26/19 12:50	
<0.025				☼	07/17/19 18:55	07/26/19 12:50	
<0.030	0.070			φ.	07/17/19 18:55	07/26/19 12:50	;
				₽			
			0 0	₽			
			0 0	φ.	07/17/19 18:55	07/26/19 12:50	;
				☼			
			0 0	₽	07/17/19 18:55	07/26/19 12:50	
							;
				☼			
				☼			
				₽			
				☼			
			0 0	₩			
			0 0				
			0 0				
			0 0				
			0 0				
				±.			
				:D:			
				: <del>.</del>			
				₽.			
				: <del>*</del>			
<0.028	0.070			₽			
<0.027	0.070			☼	07/17/19 18:55	07/26/19 12:50	
<0.028	0.070	0.028	mg/Kg	₩	07/17/19 18:55	07/26/19 12:50	
<0.032	0.070	0.032	mg/Kg	₽	07/17/19 18:55	07/26/19 12:50	
<0.028	0.070	0.028	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	
<0.026	0.070	0.026	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	
	<0.12 <0.010 <0.025 <0.030 <0.026 <0.034 * <0.056 <0.15 <0.027 <0.027 <0.035 <0.026 <0.022 <0.022 <0.022 <0.029 <0.034 <0.14 * <0.027 <0.019 * <0.028 <0.026 <0.027 <0.031 <0.027 <0.031 <0.027 <0.031 <0.027 <0.031 <0.021 <0.031 <0.021 <0.013 <0.021 <0.013 <0.021 <0.013 <0.027 <0.019 <0.11 <0.028 <0.027 <0.019 <0.011 <0.028 <0.027 <0.009 <0.011 <0.028 <0.027 <0.029 <0.027 <0.009 <0.027 <0.009 <0.011 <0.028 <0.027 <0.029 <0.027 <0.028 <0.028 <0.027 <0.028 <0.027 <0.028 <0.028 <0.027 <0.028 <0.028 <0.028 <0.027 <0.028 <0.028 <0.028	<0.12	<0.12	<0.12	Colling	<0.12	Control

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 8-10 Lab Sample ID: 500-166949-19

Date Collected: 07/17/19 18:55 **Matrix: Solid** Date Received: 07/19/19 09:20

Percent Solids: 82.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.025		0.070	0.025	mg/Kg	₩	07/17/19 18:55	07/26/19 12:50	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	₽	07/17/19 18:55	07/26/19 12:50	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	₽	07/17/19 18:55	07/26/19 12:50	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	≎	07/17/19 18:55	07/26/19 12:50	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	₽	07/17/19 18:55	07/26/19 12:50	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
1,3,5-Trimethylbenzene	< 0.027		0.070	0.027	mg/Kg	☼	07/17/19 18:55	07/26/19 12:50	50
Vinyl chloride	<0.018		0.070	0.018	mg/Kg		07/17/19 18:55	07/26/19 12:50	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	₩	07/17/19 18:55	07/26/19 12:50	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 18:55	07/26/19 12:50	50
Dibromofluoromethane	106		75 - 120				07/17/19 18:55	07/26/19 12:50	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				07/17/19 18:55	07/26/19 12:50	50
Toluene-d8 (Surr)	97		75 - 120				07/17/19 18:55	07/26/19 12:50	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 16-18

Date Collected: 07/17/19 18:15 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-20

Matrix: Solid

Percent Solids: 93.7

Job ID: 500-166949-1

Method: 8260B - Volatile Org Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.10	0.58		mg/Kg	<del>\</del>	07/17/19 18:15		5
Benzene	<0.0084	0.014	0.0084		☼		07/26/19 13:17	5
Bromobenzene	<0.021	0.058	0.021	0 0	☼		07/26/19 13:17	5
Bromochloromethane	<0.025	0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 13:17	5
Bromodichloromethane	<0.021	0.058		mg/Kg	☼		07/26/19 13:17	5
Bromoform	<0.028 *	0.058		mg/Kg	☼		07/26/19 13:17	5
Bromomethane	<0.046	0.17		mg/Kg			07/26/19 13:17	5
2-Butanone (MEK)	<0.12	0.29		mg/Kg	₽		07/26/19 13:17	5
Carbon tetrachloride	<0.022	0.058		mg/Kg	₽		07/26/19 13:17	5
Chlorobenzene	<0.022	0.058		mg/Kg			07/26/19 13:17	5
Chloroethane	<0.029	0.058		mg/Kg	₽		07/26/19 13:17	5
Chloroform	<0.021	0.030		mg/Kg	₽		07/26/19 13:17	5
Chloromethane	<0.018	0.058		mg/Kg			07/26/19 13:17	5
2-Chlorotoluene	<0.018	0.058		mg/Kg	₽		07/26/19 13:17	5
-Chlorotoluene	<0.020	0.058		mg/Kg	~ ☆		07/26/19 13:17	5
cis-1,2-Dichloroethene	<0.024	0.058		mg/Kg			07/26/19 13:17	5
cis-1,3-Dichloropropene	<0.024	0.058		mg/Kg	~ ☆		07/26/19 13:17	5
, , , , , , , , , , , , , , , , , , ,					×			
Dibromochloromethane	<0.028	0.058		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 13:17	
,2-Dibromo-3-Chloropropane	<0.11 *	0.29		mg/Kg			07/26/19 13:17	5
,2-Dibromoethane	<0.022	0.058		mg/Kg	₩		07/26/19 13:17	5
Dibromomethane	<0.016 *	0.058		mg/Kg			07/26/19 13:17	5
,2-Dichlorobenzene	<0.019	0.058		mg/Kg			07/26/19 13:17	5
,3-Dichlorobenzene	<0.023	0.058		mg/Kg	φ. 		07/26/19 13:17	5
,4-Dichlorobenzene	<0.021	0.058		mg/Kg			07/26/19 13:17	5
Dichlorodifluoromethane	<0.039	0.17		mg/Kg			07/26/19 13:17	5
,1-Dichloroethane	<0.024	0.058		mg/Kg	.;.		07/26/19 13:17	5
,2-Dichloroethane	<0.023	0.058		mg/Kg	<u>.</u> .		07/26/19 13:17	5
,1-Dichloroethene	<0.022	0.058		mg/Kg	₽.		07/26/19 13:17	5
,2-Dichloropropane	<0.025	0.058		mg/Kg	₽		07/26/19 13:17	5
,3-Dichloropropane	<0.021	0.058	0.021	0 0	<b></b>		07/26/19 13:17	5
2,2-Dichloropropane	<0.026	0.058		mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	Ę
,1-Dichloropropene	<0.017	0.058	0.017	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	
thylbenzene	<0.011	0.014	0.011	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	Ę
lexachlorobutadiene	<0.026	0.058		mg/Kg	₽	07/17/19 18:15	07/26/19 13:17	
sopropylbenzene	<0.022	0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	5
sopropyl ether	<0.016	0.058	0.016	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	Ę
Nethylene Chloride	<0.094	0.29	0.094	mg/Kg	₽	07/17/19 18:15	07/26/19 13:17	
Methyl tert-butyl ether	<0.023	0.058	0.023	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	5
laphthalene	<0.019	0.058	0.019	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	5
-Butylbenzene	<0.022	0.058	0.022	mg/Kg	₽	07/17/19 18:15	07/26/19 13:17	
I-Propylbenzene	<0.024	0.058	0.024	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	į
-Isopropyltoluene	<0.021	0.058	0.021	mg/Kg	≎	07/17/19 18:15	07/26/19 13:17	į
ec-Butylbenzene	<0.023	0.058		mg/Kg	Ф	07/17/19 18:15	07/26/19 13:17	
tyrene	<0.022	0.058		mg/Kg	☼		07/26/19 13:17	
ert-Butylbenzene	<0.023	0.058		mg/Kg	☼		07/26/19 13:17	ļ
,1,1,2-Tetrachloroethane	<0.027	0.058		mg/Kg			07/26/19 13:17	
,1,2,2-Tetrachloroethane	<0.023	0.058		mg/Kg	☆		07/26/19 13:17	
etrachloroethene	<0.021	0.058		mg/Kg	☼		07/26/19 13:17	į
Foluene	<0.0085	0.014		mg/Kg			07/26/19 13:17	

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 16-18 Lab Sample ID: 500-166949-20

Date Collected: 07/17/19 18:15

Matrix: Solid
Date Received: 07/19/19 09:20

Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	<u> </u>	07/17/19 18:15	07/26/19 13:17	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	50
1,2,3-Trichlorobenzene	<0.026		0.058	0.026	mg/Kg	₽	07/17/19 18:15	07/26/19 13:17	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	50
Trichloroethene	<0.0094		0.029	0.0094	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	₩	07/17/19 18:15	07/26/19 13:17	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	☼	07/17/19 18:15	07/26/19 13:17	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	₩.	07/17/19 18:15	07/26/19 13:17	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	₽	07/17/19 18:15	07/26/19 13:17	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				07/17/19 18:15	07/26/19 13:17	50
Dibromofluoromethane	104		75 - 120				07/17/19 18:15	07/26/19 13:17	50
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				07/17/19 18:15	07/26/19 13:17	50
Toluene-d8 (Surr)	96		75 - 120				07/17/19 18:15	07/26/19 13:17	50

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP22 8-10

Date Collected: 07/17/19 17:10 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-21

Matrix: Solid

Percent Solids: 93.7

Job ID: 500-166949-1

Result   Qualifier	0.59 0.015 0.059 0.059 0.059 0.059 0.18 0.30 0.059 0.059 0.059 0.12 0.059 0.059 0.059	0.0087 0.021 0.025 0.022 0.029 0.047	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	Dil Fa 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
<0.021 <0.025 <0.022 <0.029 * <0.047 <0.13 <0.023 <0.023 <0.023 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.00000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.0000 <0.00000 <0.00000 <0.00000 <0.00000 <0.00000 <0.00000 <0.00000 <0.000000 <0.00000 <0.000000 <0.000000 <0.0000000 <0.00000000	0.059 0.059 0.059 0.059 0.18 0.30 0.059 0.059 0.059 0.12	0.0087 0.021 0.025 0.022 0.029 0.047 0.13 0.023 0.023	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	\$ \$ \$ \$ \$ \$	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	5 5 5 5 5
<0.025 <0.022 <0.029 * <0.047 <0.13 <0.023 <0.023 <0.020 <0.019 <0.019 <0.019	0.059 0.059 0.059 0.18 0.30 0.059 0.059 0.059 0.12	0.021 0.025 0.022 0.029 0.047 0.13 0.023 0.023	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	\$ \$ \$ \$ \$	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	5 5 5 5 5
<0.022 <0.029 * <0.047 <0.13 <0.023 <0.023 <0.022 <0.019 <0.019 <0.019	0.059 0.059 0.18 0.30 0.059 0.059 0.059 0.12	0.025 0.022 0.029 0.047 0.13 0.023 0.023 0.030	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	\$ \$ \$	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	5 5 5
<0.022 <0.029 * <0.047 <0.13 <0.023 <0.023 <0.022 <0.019 <0.019 <0.019	0.059 0.18 0.30 0.059 0.059 0.059 0.12 0.059	0.022 0.029 0.047 0.13 0.023 0.023 0.030	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	\$ \$ \$	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	5 5 5
<0.029 * <0.047 <0.13 <0.023 <0.023 <0.030 <0.022 <0.019 <0.019 <0.021	0.059 0.18 0.30 0.059 0.059 0.059 0.12 0.059	0.029 0.047 0.13 0.023 0.023 0.030	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	*****************	07/17/19 17:10 07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44 07/26/19 13:44	5 5 5
<0.13 <0.023 <0.023 <0.030 <0.022 <0.019 <0.019 <0.021	0.18 0.30 0.059 0.059 0.059 0.12 0.059	0.047 0.13 0.023 0.023 0.030	mg/Kg mg/Kg mg/Kg mg/Kg	<b>\$</b>	07/17/19 17:10 07/17/19 17:10	07/26/19 13:44 07/26/19 13:44	5 5
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<0.097	0.30	0.097	mg/Kg	₩	07/17/19 17:10	07/26/19 13:44	į
<0.023	0.059			₩			
<0.020	0.059			₩			
<0.023	0.059	0.023	mg/Kg	₽	07/17/19 17:10	07/26/19 13:44	Ę
<0.025	0.059	0.025	mg/Kg	₩	07/17/19 17:10	07/26/19 13:44	Ę
<0.021	0.059	0.021	mg/Kg	₩	07/17/19 17:10	07/26/19 13:44	Ę
<0.024	0.059	0.024	mg/Kg		07/17/19 17:10	07/26/19 13:44	
<0.023	0.059	0.023	mg/Kg	₩	07/17/19 17:10	07/26/19 13:44	į
<0.024	0.059	0.024	mg/Kg	₩	07/17/19 17:10	07/26/19 13:44	!
<0.027	0.059	0.027	mg/Kg	₩.	07/17/19 17:10	07/26/19 13:44	
<0.024	0.059			≎	07/17/19 17:10	07/26/19 13:44	Ę
<0.022	0.059	0.022			07/17/19 17:10		
	<0.023 <0.016 <0.020 <0.024 <0.022 <0.040 <0.023 <0.025 <0.021 <0.026 <0.018 <0.011 <0.026 <0.023 <0.023 <0.021 <0.026 <0.023 <0.011 <0.026 <0.023 <0.011 <0.026 <0.023 <0.011 <0.027 <0.023 <0.020 <0.023 <0.020 <0.023 <0.020 <0.023 <0.020 <0.023 <0.025 <0.021 <0.024 <0.027 <0.024	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023

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7/30/2019

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP22 8-10 Lab Sample ID: 500-166949-21

Date Collected: 07/17/19 17:10 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 93.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.021		0.059	0.021	mg/Kg	<u> </u>	07/17/19 17:10	07/26/19 13:44	50
trans-1,3-Dichloropropene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,3-Trichlorobenzene	<0.027		0.059	0.027	mg/Kg	₽	07/17/19 17:10	07/26/19 13:44	50
1,2,4-Trichlorobenzene	<0.020		0.059	0.020	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,1-Trichloroethane	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,1,2-Trichloroethane	<0.021		0.059	0.021	mg/Kg	₽	07/17/19 17:10	07/26/19 13:44	50
Trichloroethene	<0.0097		0.030	0.0097	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Trichlorofluoromethane	<0.025		0.059	0.025	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	φ.	07/17/19 17:10	07/26/19 13:44	50
1,2,4-Trimethylbenzene	<0.021		0.059	0.021	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
1,3,5-Trimethylbenzene	<0.023		0.059	0.023	mg/Kg	☼	07/17/19 17:10	07/26/19 13:44	50
Vinyl chloride	<0.016		0.059	0.016	mg/Kg	φ.	07/17/19 17:10	07/26/19 13:44	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	≎	07/17/19 17:10	07/26/19 13:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 17:10	07/26/19 13:44	50
Dibromofluoromethane	109		75 - 120				07/17/19 17:10	07/26/19 13:44	50
1,2-Dichloroethane-d4 (Surr)	104		75 - 126				07/17/19 17:10	07/26/19 13:44	50
Toluene-d8 (Surr)	96		75 - 120				07/17/19 17:10	07/26/19 13:44	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP23 16-18

Date Collected: 07/17/19 18:40 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-22

Matrix: Solid

Percent Solids: 84.5

Job ID: 500-166949-1

Method: 8260B - Volatile Or Analyte	Result Qu	ualifier RL		Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.12	0.68	0.12	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Benzene	<0.0099	0.017	0.0099	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Bromobenzene	<0.024	0.068	0.024	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Bromochloromethane	<0.029	0.068	0.029	mg/Kg	₽	07/17/19 18:40	07/26/19 14:11	5
Bromodichloromethane	<0.025	0.068	0.025	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Bromoform	<0.033 *	0.068	0.033	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Bromomethane	<0.054	0.20	0.054	mg/Kg	₽	07/17/19 18:40	07/26/19 14:11	5
2-Butanone (MEK)	<0.14	0.34	0.14	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
Carbon tetrachloride	<0.026	0.068	0.026	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
Chlorobenzene	<0.026	0.068	0.026	mg/Kg	₽	07/17/19 18:40	07/26/19 14:11	5
Chloroethane	<0.034	0.068	0.034	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
Chloroform	<0.025	0.14	0.025	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
Chloromethane	<0.022	0.068	0.022	mg/Kg	₽	07/17/19 18:40	07/26/19 14:11	5
2-Chlorotoluene	<0.021	0.068	0.021	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
4-Chlorotoluene	<0.024	0.068	0.024	mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
cis-1,2-Dichloroethene	<0.028	0.068	0.028	mg/Kg	Ф	07/17/19 18:40	07/26/19 14:11	5
cis-1,3-Dichloropropene	<0.028	0.068	0.028	mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
Dibromochloromethane	< 0.033	0.068		mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
1,2-Dibromo-3-Chloropropane	<0.14 *	0.34		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 18:40	07/26/19 14:11	5
1,2-Dibromoethane	<0.026	0.068		mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
Dibromomethane	<0.018	0.068		mg/Kg	☼	07/17/19 18:40	07/26/19 14:11	5
1,2-Dichlorobenzene	<0.023	0.068		mg/Kg	· · · · · · · · · .	07/17/19 18:40	07/26/19 14:11	5
1,3-Dichlorobenzene	<0.027	0.068		mg/Kg	₩	07/17/19 18:40	07/26/19 14:11	5
1,4-Dichlorobenzene	<0.025	0.068		mg/Kg	₩		07/26/19 14:11	5
Dichlorodifluoromethane	<0.046	0.20		mg/Kg			07/26/19 14:11	5
1,1-Dichloroethane	<0.028	0.068		mg/Kg	₩		07/26/19 14:11	5
1,2-Dichloroethane	<0.027	0.068		mg/Kg	₩		07/26/19 14:11	5
1,1-Dichloroethene	<0.027	0.068		mg/Kg	 \$		07/26/19 14:11	5
1,2-Dichloropropane	<0.029	0.068		mg/Kg	☆		07/26/19 14:11	5
1,3-Dichloropropane	<0.025	0.068		mg/Kg	₩		07/26/19 14:11	5
2,2-Dichloropropane	<0.030	0.068		mg/Kg	φ.		07/26/19 14:11	5
1,1-Dichloropropene	<0.020	0.068		mg/Kg	☆		07/26/19 14:11	5
Ethylbenzene	<0.012	0.017		mg/Kg	₩		07/26/19 14:11	5
Hexachlorobutadiene	<0.030	0.068		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 14:11	5
Isopropylbenzene	<0.026	0.068		mg/Kg	₽		07/26/19 14:11	5
Isopropyl ether	<0.019	0.068		mg/Kg	Ď.		07/26/19 14:11	5
Methylene Chloride	<0.019	0.34					07/26/19 14:11	5
•	<0.027	0.068		mg/Kg mg/Kg	₽		07/26/19 14:11	
Methyl tert-butyl ether					₩			5
Naphthalene	<0.023	0.068		mg/Kg			07/26/19 14:11	5
n-Butylbenzene	<0.026	0.068		mg/Kg	φ. ×		07/26/19 14:11	5
N-Propylbenzene	<0.028	0.068		mg/Kg	φ. ×		07/26/19 14:11	5
p-Isopropyltoluene	< 0.025	0.068		mg/Kg	¥		07/26/19 14:11	5
sec-Butylbenzene	<0.027	0.068		mg/Kg	φ. ×		07/26/19 14:11	5
Styrene	<0.026	0.068		mg/Kg	₩		07/26/19 14:11	5
tert-Butylbenzene	<0.027	0.068		mg/Kg			07/26/19 14:11	
1,1,1,2-Tetrachloroethane	<0.031	0.068		mg/Kg	φ.		07/26/19 14:11	5
1,1,2,2-Tetrachloroethane	<0.027	0.068		mg/Kg	₩.		07/26/19 14:11	5
Tetrachloroethene	<0.025	0.068		mg/Kg			07/26/19 14:11	5
Toluene	<0.010	0.017	0.010	mg/Kg	≎	07/17/19 18:40	07/26/19 14:11	5

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP23 16-18

Date Collected: 07/17/19 18:40

Date Received: 07/19/19 09:20

Toluene-d8 (Surr)

Lab Sample ID: 500-166949-22

**Matrix: Solid** 

**Percent Solids: 84.5** 

07/17/19 18:40 07/26/19 14:11

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP24 2-4 Lab Sample ID: 500-166949-23

Date Collected: 07/17/19 19:05 **Matrix: Solid** Date Received: 07/19/19 09:20 **Percent Solids: 86.0** 

Method: 8260B - Volatile Org					_			
Analyte	Result Qualifier	RL -	MDL		D	Prepared	Analyzed	Dil F
Acetone	<0.11	0.66		mg/Kg	<b>☆</b>	07/17/19 19:05	07/26/19 14:38	
Benzene	<0.0097	0.017	0.0097				07/26/19 14:38	
Bromobenzene	<0.024	0.066		mg/Kg	, .		07/26/19 14:38	
Bromochloromethane	<0.028	0.066		mg/Kg	<b>:</b>		07/26/19 14:38	
Bromodichloromethane	<0.025	0.066		mg/Kg	₽		07/26/19 14:38	
Bromoform	<0.032 *	0.066	0.032	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
Bromomethane	<0.053	0.20	0.053	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
2-Butanone (MEK)	<0.14	0.33	0.14	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
Carbon tetrachloride	<0.025	0.066	0.025	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	
Chlorobenzene	<0.026	0.066	0.026	mg/Kg	≎	07/17/19 19:05	07/26/19 14:38	
Chloroethane	<0.033	0.066	0.033	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
Chloroform	<0.025	0.13	0.025	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
Chloromethane	<0.021	0.066	0.021	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	
2-Chlorotoluene	<0.021	0.066	0.021	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
l-Chlorotoluene	<0.023	0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
cis-1,2-Dichloroethene	<0.027	0.066	0.027	mg/Kg		07/17/19 19:05	07/26/19 14:38	
sis-1,3-Dichloropropene	<0.028	0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
Dibromochloromethane	<0.032	0.066	0.032	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
,2-Dibromo-3-Chloropropane	<0.13 *	0.33		mg/Kg		07/17/19 19:05	07/26/19 14:38	
,2-Dibromoethane	<0.026	0.066		mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
bibromomethane	<0.018	0.066		mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	
,2-Dichlorobenzene	<0.022	0.066		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 19:05	07/26/19 14:38	
,3-Dichlorobenzene	<0.027	0.066	0.027		₩	07/17/19 19:05	07/26/19 14:38	
,4-Dichlorobenzene	<0.024	0.066		mg/Kg	₩		07/26/19 14:38	
) Dichlorodifluoromethane	<0.045	0.20		mg/Kg			07/26/19 14:38	
,1-Dichloroethane	<0.027	0.066		mg/Kg	₩		07/26/19 14:38	
,2-Dichloroethane	<0.026	0.066		mg/Kg	₩		07/26/19 14:38	
,1-Dichloroethene	<0.026	0.066		mg/Kg	· · · · · · · · · · · · · · · · · · ·		07/26/19 14:38	
,2-Dichloropropane	<0.028	0.066		mg/Kg	₩		07/26/19 14:38	
,3-Dichloropropane	<0.024	0.066		mg/Kg	₩		07/26/19 14:38	
,2-Dichloropropane	<0.029	0.066					07/26/19 14:38	
,1-Dichloropropene	<0.020	0.066		mg/Kg	₩		07/26/19 14:38	
Ethylbenzene	<0.012	0.000		mg/Kg	₩		07/26/19 14:38	
lexachlorobutadiene	<0.012	0.017			· · · · · · · · .		07/26/19 14:38	
sopropylbenzene	<0.030	0.066		mg/Kg			07/26/19 14:38	
				0 0				
sopropyl ether	<0.018	0.066		mg/Kg	<del></del>		07/26/19 14:38	
lethylene Chloride	<0.11	0.33		mg/Kg	*	07/17/19 19:05		
Methyl tert-butyl ether	<0.026	0.066		mg/Kg	₩		07/26/19 14:38	
laphthalene	<0.022	0.066		mg/Kg	14.		07/26/19 14:38	
-Butylbenzene	<0.026	0.066		mg/Kg	;;; ∴		07/26/19 14:38	
l-Propylbenzene	<0.027	0.066		mg/Kg			07/26/19 14:38	
-Isopropyltoluene	<0.024	0.066		mg/Kg			07/26/19 14:38	
ec-Butylbenzene	<0.026	0.066		mg/Kg			07/26/19 14:38	
styrene	<0.026	0.066		mg/Kg	<b>*</b>		07/26/19 14:38	
ert-Butylbenzene	<0.026	0.066		mg/Kg			07/26/19 14:38	
,1,1,2-Tetrachloroethane	<0.031	0.066		mg/Kg	₩	07/17/19 19:05		
,1,2,2-Tetrachloroethane	<0.026	0.066		mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	
Tetrachloroethene	<0.025	0.066	0.025	mg/Kg	☆	07/17/19 19:05	07/26/19 14:38	

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP24 2-4 Lab Sample ID: 500-166949-23

Date Collected: 07/17/19 19:05

Matrix: Solid
Date Received: 07/19/19 09:20

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.023		0.066	0.023	mg/Kg	<u> </u>	07/17/19 19:05	07/26/19 14:38	50
trans-1,3-Dichloropropene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,3-Trichlorobenzene	<0.030		0.066	0.030	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	50
1,2,4-Trichlorobenzene	<0.023		0.066	0.023	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,1-Trichloroethane	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,1,2-Trichloroethane	<0.023		0.066	0.023	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	50
Trichloroethene	<0.011		0.033	0.011	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Trichlorofluoromethane	<0.028		0.066	0.028	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	50
1,2,4-Trimethylbenzene	<0.024		0.066	0.024	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
1,3,5-Trimethylbenzene	<0.025		0.066	0.025	mg/Kg	☼	07/17/19 19:05	07/26/19 14:38	50
Vinyl chloride	<0.017		0.066	0.017	mg/Kg	₽	07/17/19 19:05	07/26/19 14:38	50
Xylenes, Total	<0.015		0.033	0.015	mg/Kg	₩	07/17/19 19:05	07/26/19 14:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124				07/17/19 19:05	07/26/19 14:38	50
Dibromofluoromethane	106		75 - 120				07/17/19 19:05	07/26/19 14:38	50
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				07/17/19 19:05	07/26/19 14:38	50
Toluene-d8 (Surr)	95		75 - 120				07/17/19 19:05	07/26/19 14:38	50

Job ID: 500-166949-1



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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP24 8-10

Date Collected: 07/17/19 19:20 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-24

Matrix: Solid

Percent Solids: 84.1

Job ID: 500-166949-1

Mark at cooper 27 to the		10)						
Method: 8260B - Volatile O <sup>Analyte</sup>	rganic Compounds (GC/N Result Qualifier	IS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.12	0.68		mg/Kg	— <del>-</del>		07/26/19 15:04	5
Benzene	<0.010	0.017		mg/Kg	₩		07/26/19 15:04	5
Bromobenzene	<0.024	0.068		mg/Kg	₩		07/26/19 15:04	5
Bromochloromethane	<0.029	0.068		mg/Kg			07/26/19 15:04	5
Bromodichloromethane	<0.025	0.068		mg/Kg	₩		07/26/19 15:04	5
Bromoform	<0.033 *	0.068		mg/Kg	₩		07/26/19 15:04	5
Bromomethane	<0.054	0.20		mg/Kg			07/26/19 15:04	5
2-Butanone (MEK)	<0.14	0.34		mg/Kg	₩		07/26/19 15:04	5
Carbon tetrachloride	<0.026	0.068		mg/Kg	₩		07/26/19 15:04	5
Chlorobenzene	<0.026	0.068		mg/Kg			07/26/19 15:04	5
Chloroethane	<0.034	0.068		mg/Kg	₩		07/26/19 15:04	5
Chloroform	<0.025	0.14		mg/Kg	₩		07/26/19 15:04	5
Chloromethane	<0.023	0.068		mg/Kg			07/26/19 15:04	5
2-Chlorotoluene	<0.022	0.068		mg/Kg			07/26/19 15:04	5
4-Chlorotoluene	<0.021	0.068		mg/Kg			07/26/19 15:04	5
							07/26/19 15:04	
cis-1,2-Dichloroethene	<0.028	0.068		mg/Kg	₩			5
cis-1,3-Dichloropropene	<0.028	0.068		mg/Kg			07/26/19 15:04	5
Dibromochloromethane	<0.033	0.068		mg/Kg	×		07/26/19 15:04	
1,2-Dibromo-3-Chloropropane	<0.14 *	0.34		mg/Kg	*		07/26/19 15:04	5
1,2-Dibromoethane	<0.026	0.068		mg/Kg	*		07/26/19 15:04	5
Dibromomethane	<0.018	0.068		mg/Kg			07/26/19 15:04	
,2-Dichlorobenzene	<0.023	0.068		mg/Kg	Ψ.		07/26/19 15:04	5
I,3-Dichlorobenzene	<0.027	0.068		mg/Kg	Ψ.		07/26/19 15:04	5
1,4-Dichlorobenzene	<0.025	0.068		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/26/19 15:04	5
Dichlorodifluoromethane	<0.046	0.20		mg/Kg	.;;		07/26/19 15:04	5
1,1-Dichloroethane	<0.028	0.068		mg/Kg	.;;		07/26/19 15:04	5
1,2-Dichloroethane	<0.027	0.068		mg/Kg	::::::::::::::::::::::::::::::::::::::		07/26/19 15:04	5
1,1-Dichloroethene	<0.027	0.068		mg/Kg	₽		07/26/19 15:04	5
1,2-Dichloropropane	<0.029	0.068		mg/Kg	₽		07/26/19 15:04	5
1,3-Dichloropropane	<0.025	0.068		mg/Kg		07/17/19 19:20	07/26/19 15:04	5
2,2-Dichloropropane	<0.030	0.068		mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	5
1,1-Dichloropropene	<0.020	0.068	0.020	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
Ethylbenzene	<0.012	0.017	0.012	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
Hexachlorobutadiene	<0.030	0.068		mg/Kg	₽	07/17/19 19:20	07/26/19 15:04	5
sopropylbenzene	<0.026	0.068	0.026	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
sopropyl ether	<0.019	0.068	0.019	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
Methylene Chloride	<0.11	0.34	0.11	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
Methyl tert-butyl ether	<0.027	0.068	0.027	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	5
Naphthalene	<0.023	0.068	0.023	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
n-Butylbenzene	<0.026	0.068	0.026	mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
N-Propylbenzene	<0.028	0.068	0.028	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	5
o-Isopropyltoluene	<0.025	0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	5
sec-Butylbenzene	<0.027	0.068		mg/Kg	₩.		07/26/19 15:04	5
Styrene	<0.026	0.068		mg/Kg	₩	07/17/19 19:20	07/26/19 15:04	5
ert-Butylbenzene	<0.027	0.068		mg/Kg	₩		07/26/19 15:04	5
1,1,1,2-Tetrachloroethane	<0.032	0.068		mg/Kg		07/17/19 19:20		
1,1,2,2-Tetrachloroethane	<0.027	0.068		mg/Kg	₽		07/26/19 15:04	5
Tetrachloroethene	<0.025	0.068		mg/Kg	₩		07/26/19 15:04	5
Toluene	<0.010	0.017		mg/Kg			07/26/19 15:04	5

Eurofins TestAmerica, Chicago

7/30/2019

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP24 8-10

Date Collected: 07/17/19 19:20

Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-24

**Matrix: Solid** 

Percent Solids: 84.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	<u></u>	07/17/19 19:20	07/26/19 15:04	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	₽	07/17/19 19:20	07/26/19 15:04	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	₽	07/17/19 19:20	07/26/19 15:04	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	₽	07/17/19 19:20	07/26/19 15:04	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	☼	07/17/19 19:20	07/26/19 15:04	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	₽	07/17/19 19:20	07/26/19 15:04	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	φ.	07/17/19 19:20	07/26/19 15:04	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	≎	07/17/19 19:20	07/26/19 15:04	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 19:20	07/26/19 15:04	50
Dibromofluoromethane	107		75 - 120				07/17/19 19:20	07/26/19 15:04	50
1,2-Dichloroethane-d4 (Surr)	106		75 - 126				07/17/19 19:20	07/26/19 15:04	50
Toluene-d8 (Surr)	95		75 - 120				07/17/19 19:20	07/26/19 15:04	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP25 8-10 Lab Sample ID: 500-166949-25

Date Collected: 07/17/19 19:00

Matrix: Solid

Date Received: 07/19/19 09:20

Percent Solids: 83.9

Method: 8260B - Volatile Org Analyte	Result Qualifier	RL	MiDi	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.12 <b>Qualifier</b>	0.69		mg/Kg	— <del>¤</del>	07/17/19 19:00	07/26/19 16:52	5
Benzene	<0.010	0.09			~ ☆	07/17/19 19:00	07/26/19 16:52	5
Bromobenzene	<0.010	0.017		mg/Kg mg/Kg	~ ☆		07/26/19 16:52	5
					· · · · · ·			
Bromochloromethane	<0.029	0.069		mg/Kg			07/26/19 16:52	5
Bromodichloromethane	<0.026	0.069		mg/Kg	<b>☆</b>		07/26/19 16:52	5
Bromoform	<0.033 *	0.069		mg/Kg	*		07/26/19 16:52	
Bromomethane	<0.055	0.21		mg/Kg	ψ.		07/26/19 16:52	5
2-Butanone (MEK)	<0.15	0.34		mg/Kg	Ϋ́		07/26/19 16:52	5
Carbon tetrachloride	<0.026	0.069		mg/Kg			07/26/19 16:52	5
Chlorobenzene	<0.026	0.069		mg/Kg	<b>*</b>		07/26/19 16:52	5
Chloroethane	<0.035	0.069		mg/Kg	<b>*</b>		07/26/19 16:52	5
Chloroform	<0.025	0.14		mg/Kg		07/17/19 19:00	07/26/19 16:52	5
Chloromethane	<0.022	0.069		mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
2-Chlorotoluene	<0.022	0.069		mg/Kg	☼	07/17/19 19:00		5
4-Chlorotoluene	<0.024	0.069		mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	5
cis-1,2-Dichloroethene	<0.028	0.069	0.028	mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
cis-1,3-Dichloropropene	<0.029	0.069	0.029	mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
Dibromochloromethane	<0.033	0.069	0.033	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	5
1,2-Dibromo-3-Chloropropane	<0.14 *	0.34	0.14	mg/Kg	₽	07/17/19 19:00	07/26/19 16:52	5
1,2-Dibromoethane	<0.026	0.069	0.026	mg/Kg	☆	07/17/19 19:00	07/26/19 16:52	5
Dibromomethane	<0.019	0.069	0.019	mg/Kg	☆	07/17/19 19:00	07/26/19 16:52	5
,2-Dichlorobenzene	<0.023	0.069	0.023	mg/Kg		07/17/19 19:00	07/26/19 16:52	5
1,3-Dichlorobenzene	<0.027	0.069	0.027	mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
1,4-Dichlorobenzene	<0.025	0.069	0.025	mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
Dichlorodifluoromethane	<0.046	0.21		mg/Kg		07/17/19 19:00	07/26/19 16:52	5
I,1-Dichloroethane	<0.028	0.069	0.028	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	Ę
1,2-Dichloroethane	<0.027	0.069	0.027	mg/Kg	≎	07/17/19 19:00	07/26/19 16:52	Ę
1,1-Dichloroethene	<0.027	0.069		mg/Kg		07/17/19 19:00	07/26/19 16:52	
1,2-Dichloropropane	<0.029	0.069		mg/Kg	☆		07/26/19 16:52	Ę
1,3-Dichloropropane	<0.025	0.069		mg/Kg	☼		07/26/19 16:52	5
2,2-Dichloropropane	<0.030	0.069		mg/Kg	 ÷		07/26/19 16:52	5
1,1-Dichloropropene	<0.020	0.069		mg/Kg	₩		07/26/19 16:52	5
Ethylbenzene	<0.013	0.017		mg/Kg	☆		07/26/19 16:52	5
Hexachlorobutadiene	<0.031	0.069		mg/Kg			07/26/19 16:52	
sopropylbenzene	<0.026	0.069		mg/Kg	☆		07/26/19 16:52	5
sopropyl ether	<0.019	0.069		mg/Kg	₽		07/26/19 16:52	5
Methylene Chloride	<0.11	0.34		mg/Kg			07/26/19 16:52	
•	<0.027	0.069		mg/Kg	≎		07/26/19 16:52	į
Methyl tert-butyl ether					≎			
Naphthalene	<0.023	0.069		mg/Kg			07/26/19 16:52	
n-Butylbenzene	<0.027	0.069		mg/Kg	₩		07/26/19 16:52	
N-Propylbenzene	<0.028	0.069		mg/Kg	₩ ₩		07/26/19 16:52	
o-Isopropyltoluene	<0.025	0.069		mg/Kg	<sub>J.</sub> .		07/26/19 16:52	
sec-Butylbenzene	<0.027	0.069		mg/Kg	<b>☆</b>		07/26/19 16:52	į.
Styrene	<0.026	0.069		mg/Kg	Ψ.		07/26/19 16:52	
ert-Butylbenzene	<0.027	0.069		mg/Kg			07/26/19 16:52	
1,1,1,2-Tetrachloroethane	<0.032	0.069		mg/Kg	☆		07/26/19 16:52	5
1,1,2,2-Tetrachloroethane	<0.027	0.069		mg/Kg	₩	07/17/19 19:00	07/26/19 16:52	5
Tetrachloroethene	<0.025	0.069		mg/Kg	☆	07/17/19 19:00	07/26/19 16:52	5
Toluene	<0.010	0.017	0.010	mg/Kg	₽	07/17/19 19:00	07/26/19 16:52	

Job ID: 500-166949-1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP25 8-10 Lab Sample ID: 500-166949-25

Date Collected: 07/17/19 19:00 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	<u> </u>	07/17/19 19:00	07/26/19 16:52	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,3-Trichlorobenzene	<0.031		0.069	0.031	mg/Kg	₽	07/17/19 19:00	07/26/19 16:52	50
1,2,4-Trichlorobenzene	<0.023		0.069	0.023	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	₽	07/17/19 19:00	07/26/19 16:52	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Trichlorofluoromethane	<0.029		0.069	0.029	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	φ.	07/17/19 19:00	07/26/19 16:52	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	☼	07/17/19 19:00	07/26/19 16:52	50
Vinyl chloride	<0.018		0.069	0.018	mg/Kg	φ.	07/17/19 19:00	07/26/19 16:52	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	≎	07/17/19 19:00	07/26/19 16:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 19:00	07/26/19 16:52	50
Dibromofluoromethane	108		75 - 120				07/17/19 19:00	07/26/19 16:52	50
1,2-Dichloroethane-d4 (Surr)	110		75 - 126				07/17/19 19:00	07/26/19 16:52	50
Toluene-d8 (Surr)	93		75 - 120				07/17/19 19:00	07/26/19 16:52	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP26 2-4

Date Collected: 07/17/19 19:10 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-26

Matrix: Solid

Percent Solids: 85.6

Job ID: 500-166949-1

Analyte	anic Compounds (GC/N Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.12	0.68	0.12	mg/Kg	<u></u> ∓	07/17/19 19:10	07/26/19 15:31	5
Benzene	<0.0099	0.017	0.0099		₩	07/17/19 19:10	07/26/19 15:31	5
Bromobenzene	<0.024	0.068		mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	5
Bromochloromethane	<0.029	0.068		mg/Kg		07/17/19 19:10	07/26/19 15:31	5
Bromodichloromethane	<0.025	0.068		mg/Kg	☆	07/17/19 19:10	07/26/19 15:31	5
Bromoform	<0.033 *	0.068		mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	5
Bromomethane	<0.054	0.20		mg/Kg			07/26/19 15:31	5
2-Butanone (MEK)	<0.14	0.34		mg/Kg	₩		07/26/19 15:31	5
Carbon tetrachloride	<0.026	0.068		mg/Kg	₩		07/26/19 15:31	5
Chlorobenzene	<0.026	0.068		mg/Kg			07/26/19 15:31	5
Chloroethane	<0.034	0.068		mg/Kg	₩		07/26/19 15:31	5
Chloroform	<0.025	0.14		mg/Kg	☆		07/26/19 15:31	5
Chloromethane	<0.022	0.068		mg/Kg			07/26/19 15:31	5
2-Chlorotoluene	<0.021	0.068		mg/Kg	☼		07/26/19 15:31	5
I-Chlorotoluene	<0.024	0.068		mg/Kg	₽		07/26/19 15:31	5
cis-1,2-Dichloroethene	<0.028	0.068		mg/Kg			07/26/19 15:31	5
cis-1,3-Dichloropropene	<0.028	0.068		mg/Kg	₽		07/26/19 15:31	5
Dibromochloromethane	<0.033	0.068		mg/Kg	ď		07/26/19 15:31	5
,2-Dibromo-3-Chloropropane	<0.13 *	0.008		mg/Kg	<del>.</del>		07/26/19 15:31	5
,2-Dibromoethane	<0.026	0.068		mg/Kg	☆		07/26/19 15:31	5
	<0.020	0.068		mg/Kg	~ \$		07/26/19 15:31	5
Dibromomethane	<0.023	0.068		mg/Kg			07/26/19 15:31	
,2-Dichlorobenzene					~ ☆			5
,3-Dichlorobenzene	<0.027	0.068		mg/Kg			07/26/19 15:31	5
,4-Dichlorobenzene	<0.025	0.068		mg/Kg			07/26/19 15:31	5
Dichlorodifluoromethane	<0.046	0.20		mg/Kg	₩		07/26/19 15:31	5
,1-Dichloroethane	<0.028	0.068		mg/Kg	₩		07/26/19 15:31	5
,2-Dichloroethane	<0.027	0.068		0 0			07/26/19 15:31	5
,1-Dichloroethene	<0.026	0.068		mg/Kg	<b>☆</b>	07/17/19 19:10		5
,2-Dichloropropane	<0.029	0.068		mg/Kg			07/26/19 15:31	5
,3-Dichloropropane	<0.025	0.068		mg/Kg	<u>.</u> .	07/17/19 19:10		5
2,2-Dichloropropane	<0.030	0.068		mg/Kg		07/17/19 19:10		5
,1-Dichloropropene	<0.020	0.068		mg/Kg	<b>*</b>		07/26/19 15:31	5
Ethylbenzene	<0.012	0.017		mg/Kg	T.		07/26/19 15:31	
lexachlorobutadiene	<0.030	0.068		mg/Kg	<b>☆</b>		07/26/19 15:31	5
sopropylbenzene	<0.026	0.068		mg/Kg	<b>*</b>		07/26/19 15:31	5
sopropyl ether	<0.019	0.068		mg/Kg	<del>p</del>	07/17/19 19:10		5
Methylene Chloride	<0.11	0.34		mg/Kg	: <del>D</del>	07/17/19 19:10		Ę
Methyl tert-butyl ether	<0.027	0.068		mg/Kg	Ď.		07/26/19 15:31	5
laphthalene	<0.023	0.068		mg/Kg	<u>.</u>	07/17/19 19:10		5
-Butylbenzene	<0.026	0.068		mg/Kg	₩	07/17/19 19:10		Ę
I-Propylbenzene	<0.028	0.068		mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	į
-Isopropyltoluene	<0.025	0.068		mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	į
ec-Butylbenzene	<0.027	0.068	0.027	mg/Kg	₽	07/17/19 19:10	07/26/19 15:31	
Styrene	<0.026	0.068		mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	ţ
ert-Butylbenzene	<0.027	0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	!
,1,1,2-Tetrachloroethane	<0.031	0.068	0.031	mg/Kg	₽	07/17/19 19:10	07/26/19 15:31	
,1,2,2-Tetrachloroethane	<0.027	0.068	0.027	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	
etrachloroethene	<0.025	0.068	0.025	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	

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7/30/2019

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Lab Sample ID: 500-166949-26 Client Sample ID: SP26 2-4

Date Collected: 07/17/19 19:10 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	<u> </u>	07/17/19 19:10	07/26/19 15:31	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	₽	07/17/19 19:10	07/26/19 15:31	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	₽	07/17/19 19:10	07/26/19 15:31	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg		07/17/19 19:10	07/26/19 15:31	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	₩	07/17/19 19:10	07/26/19 15:31	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	₽	07/17/19 19:10	07/26/19 15:31	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	07/17/19 19:10	07/26/19 15:31	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124				07/17/19 19:10	07/26/19 15:31	50
Dibromofluoromethane	105		75 - 120				07/17/19 19:10	07/26/19 15:31	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126				07/17/19 19:10	07/26/19 15:31	50
Toluene-d8 (Surr)	93		75 - 120				07/17/19 19:10	07/26/19 15:31	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP27 2-4

Date Collected: 07/17/19 19:15 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-27

Matrix: Solid

Percent Solids: 94.5

Job ID: 500-166949-1

Analyte	anic Compounds (Go Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.092	0.53		mg/Kg	<del>\</del>		07/26/19 15:58	
Benzene	<0.0078	0.013	0.0078		☼		07/26/19 15:58	5
Bromobenzene	<0.019	0.053		mg/Kg	☼		07/26/19 15:58	5
Bromochloromethane	<0.023	0.053		mg/Kg			07/26/19 15:58	5
Bromodichloromethane	<0.020	0.053		mg/Kg	☼		07/26/19 15:58	5
Bromoform	<0.026 *	0.053		mg/Kg	☼		07/26/19 15:58	5
Bromomethane	<0.043	0.16		mg/Kg			07/26/19 15:58	5
2-Butanone (MEK)	<0.11	0.27		mg/Kg	☼		07/26/19 15:58	5
Carbon tetrachloride	<0.021	0.053		mg/Kg	☼		07/26/19 15:58	5
Chlorobenzene	<0.021	0.053		mg/Kg			07/26/19 15:58	5
Chloroethane	<0.027	0.053		mg/Kg	☼		07/26/19 15:58	5
Chloroform	<0.020	0.11		mg/Kg	₩		07/26/19 15:58	5
Chloromethane	<0.017	0.053		mg/Kg			07/26/19 15:58	5
2-Chlorotoluene	<0.017	0.053		mg/Kg	₽		07/26/19 15:58	5
4-Chlorotoluene	<0.017	0.053		mg/Kg	₽		07/26/19 15:58	5
cis-1,2-Dichloroethene	<0.022	0.053		mg/Kg			07/26/19 15:58	
cis-1,3-Dichloropropene	<0.022	0.053		mg/Kg	₽		07/26/19 15:58	5
Dibromochloromethane	<0.022	0.053		mg/Kg	ά		07/26/19 15:58	5
1,2-Dibromo-3-Chloropropane	<0.11 *	0.27		mg/Kg			07/26/19 15:58	
1,2-Dibromoethane	<0.021	0.053		mg/Kg			07/26/19 15:58	5
Dibromomethane	<0.014	0.053		mg/Kg	Ť Ť		07/26/19 15:58	5
1,2-Dichlorobenzene	<0.014	0.053		mg/Kg			07/26/19 15:58	5
1,3-Dichlorobenzene	<0.018	0.053		mg/Kg	T :		07/26/19 15:58	5
	<0.021	0.053		0 0	Tr.		07/26/19 15:58	5
1,4-Dichlorobenzene Dichlorodifluoromethane		0.033		mg/Kg mg/Kg			07/26/19 15:58	5
	<0.036				**			5
1,1-Dichloroethane	<0.022	0.053		mg/Kg	₩		07/26/19 15:58	į
1,2-Dichloroethane	<0.021	0.053		mg/Kg	٠٠		07/26/19 15:58	
1,1-Dichloroethene	<0.021	0.053		mg/Kg	*		07/26/19 15:58	5
1,2-Dichloropropane	<0.023	0.053		mg/Kg	<b>☆</b>		07/26/19 15:58	5
1,3-Dichloropropane	<0.019	0.053		mg/Kg			07/26/19 15:58	
2,2-Dichloropropane	<0.024	0.053		mg/Kg	;; ;;		07/26/19 15:58	5
1,1-Dichloropropene	<0.016	0.053		mg/Kg			07/26/19 15:58	5
Ethylbenzene	<0.0098	0.013	0.0098	0 0	<u>.</u> .		07/26/19 15:58	5
Hexachlorobutadiene	<0.024	0.053		mg/Kg	₩		07/26/19 15:58	5
sopropylbenzene	<0.021	0.053		mg/Kg	<b>*</b>		07/26/19 15:58	5
sopropyl ether	<0.015	0.053		mg/Kg	<del>.</del>	07/17/19 19:15		
Methylene Chloride	<0.087	0.27		mg/Kg	: <del>Q</del> :		07/26/19 15:58	Ę
Methyl tert-butyl ether	<0.021	0.053		mg/Kg	₽	07/17/19 19:15	07/26/19 15:58	Ę
Naphthalene	<0.018	0.053		mg/Kg			07/26/19 15:58	5
n-Butylbenzene	<0.021	0.053		mg/Kg	☼		07/26/19 15:58	Ę
N-Propylbenzene	<0.022	0.053	0.022	mg/Kg	₩		07/26/19 15:58	
p-Isopropyltoluene	<0.019	0.053	0.019	mg/Kg	₩	07/17/19 19:15	07/26/19 15:58	
sec-Butylbenzene	<0.021	0.053	0.021	mg/Kg	₽		07/26/19 15:58	
Styrene	<0.021	0.053	0.021	mg/Kg	₩	07/17/19 19:15	07/26/19 15:58	
tert-Butylbenzene	<0.021	0.053	0.021	mg/Kg	₩	07/17/19 19:15	07/26/19 15:58	
1,1,1,2-Tetrachloroethane	<0.025	0.053	0.025	mg/Kg	₽	07/17/19 19:15	07/26/19 15:58	
1,1,2,2-Tetrachloroethane	<0.021	0.053	0.021	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	5
Tetrachloroethene	0.064	0.053	0.020	mg/Kg	₩	07/17/19 19:15	07/26/19 15:58	5

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7/30/2019

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP27 2-4 Lab Sample ID: 500-166949-27

Date Collected: 07/17/19 19:15 **Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 94.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.019		0.053	0.019	mg/Kg	<u> </u>	07/17/19 19:15	07/26/19 15:58	50
trans-1,3-Dichloropropene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,3-Trichlorobenzene	<0.024		0.053	0.024	mg/Kg	₽	07/17/19 19:15	07/26/19 15:58	50
1,2,4-Trichlorobenzene	<0.018		0.053	0.018	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,1-Trichloroethane	<0.020		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,1,2-Trichloroethane	<0.019		0.053	0.019	mg/Kg	₽	07/17/19 19:15	07/26/19 15:58	50
Trichloroethene	<0.0088		0.027	0.0088	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Trichlorofluoromethane	<0.023		0.053	0.023	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,2,3-Trichloropropane	<0.022		0.11	0.022	mg/Kg		07/17/19 19:15	07/26/19 15:58	50
1,2,4-Trimethylbenzene	<0.019		0.053	0.019	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
1,3,5-Trimethylbenzene	<0.020		0.053	0.020	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Vinyl chloride	<0.014		0.053	0.014	mg/Kg	₽	07/17/19 19:15	07/26/19 15:58	50
Xylenes, Total	<0.012		0.027	0.012	mg/Kg	☼	07/17/19 19:15	07/26/19 15:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				07/17/19 19:15	07/26/19 15:58	50
Dibromofluoromethane	108		75 - 120				07/17/19 19:15	07/26/19 15:58	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				07/17/19 19:15	07/26/19 15:58	50
Toluene-d8 (Surr)	95		75 - 120				07/17/19 19:15	07/26/19 15:58	50

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP21 16-18

Date Collected: 07/17/19 18:30 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-28

Matrix: Solid

Percent Solids: 87.1

Job ID: 500-166949-1

Method: 8260B - Volatile Orç Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	<0.11	0.65	0.11	mg/Kg	<u> </u>		07/26/19 16:25	5
Benzene	<0.0094	0.016	0.0094		☼	07/17/19 18:30	07/26/19 16:25	5
Bromobenzene	< 0.023	0.065		mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
Bromochloromethane	<0.028	0.065		mg/Kg		07/17/19 18:30	07/26/19 16:25	5
Bromodichloromethane	<0.024	0.065		mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
Bromoform	<0.031 *	0.065		mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
Bromomethane	<0.051	0.19		mg/Kg	· · · · · · · · · · · · · · · · · · ·	07/17/19 18:30	07/26/19 16:25	5
2-Butanone (MEK)	<0.14	0.32		mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
Carbon tetrachloride	<0.025	0.065		mg/Kg	₽		07/26/19 16:25	5
Chlorobenzene	<0.025	0.065		mg/Kg			07/26/19 16:25	5
Chloroethane	<0.033	0.065		mg/Kg	☼		07/26/19 16:25	5
Chloroform	<0.024	0.13		mg/Kg	☼		07/26/19 16:25	5
Chloromethane	<0.021	0.065		mg/Kg			07/26/19 16:25	5
2-Chlorotoluene	<0.020	0.065		mg/Kg	☼		07/26/19 16:25	5
4-Chlorotoluene	<0.023	0.065		mg/Kg	₽		07/26/19 16:25	5
cis-1,2-Dichloroethene	<0.026	0.065		mg/Kg			07/26/19 16:25	5
cis-1,3-Dichloropropene	<0.027	0.065		mg/Kg	₽		07/26/19 16:25	5
Dibromochloromethane	<0.032	0.065		mg/Kg	₽		07/26/19 16:25	5
1,2-Dibromo-3-Chloropropane	<0.032	0.32		mg/Kg	· · · · · ·		07/26/19 16:25	5
1,2-Dibromoethane	<0.025	0.065		mg/Kg	~		07/26/19 16:25	5
•		0.065			₩		07/26/19 16:25	
Dibromomethane	<0.017			mg/Kg	· · · · · · · .			5
I,2-Dichlorobenzene	<0.022	0.065		mg/Kg			07/26/19 16:25	5
,3-Dichlorobenzene	<0.026	0.065		mg/Kg	₩		07/26/19 16:25	5
1,4-Dichlorobenzene	<0.024	0.065		mg/Kg			07/26/19 16:25	5
Dichlorodifluoromethane	<0.044	0.19		mg/Kg	*		07/26/19 16:25	5
1,1-Dichloroethane	<0.026	0.065		mg/Kg	₩		07/26/19 16:25	5
1,2-Dichloroethane	<0.025	0.065		mg/Kg			07/26/19 16:25	5
1,1-Dichloroethene	<0.025	0.065		mg/Kg	₩.		07/26/19 16:25	5
1,2-Dichloropropane	<0.028	0.065		mg/Kg	Ψ.		07/26/19 16:25	5
1,3-Dichloropropane	<0.023	0.065		mg/Kg			07/26/19 16:25	5
2,2-Dichloropropane	<0.029	0.065		mg/Kg	ψ. Ω:		07/26/19 16:25	5
1,1-Dichloropropene	<0.019	0.065		mg/Kg	: <del>D</del> :	07/17/19 18:30	07/26/19 16:25	5
Ethylbenzene	0.29	0.016		mg/Kg	, .		07/26/19 16:25	
Hexachlorobutadiene	<0.029	0.065		mg/Kg	₽		07/26/19 16:25	5
sopropylbenzene	<0.025	0.065		mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
sopropyl ether	<0.018	0.065		mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	5
Methylene Chloride	<0.11	0.32	0.11	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
Methyl tert-butyl ether	< 0.025	0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
Naphthalene	0.036 J	0.065	0.022	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
n-Butylbenzene	<0.025	0.065	0.025	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
N-Propylbenzene	0.10	0.065	0.027	mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	5
o-Isopropyltoluene	<0.023	0.065	0.023	mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	5
sec-Butylbenzene	<0.026	0.065	0.026	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
Styrene	<0.025	0.065	0.025	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
ert-Butylbenzene	<0.026	0.065	0.026	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
1,1,1,2-Tetrachloroethane	<0.030	0.065	0.030	mg/Kg	φ.	07/17/19 18:30	07/26/19 16:25	5
1,1,2,2-Tetrachloroethane	<0.026	0.065		mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	5
Tetrachloroethene	<0.024	0.065		mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	5
Toluene	<0.0095	0.016		mg/Kg			07/26/19 16:25	5

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP21 16-18 Lab Sample ID: 500-166949-28

Date Collected: 07/17/19 18:30 **Matrix: Solid** Date Received: 07/19/19 09:20

**Percent Solids: 87.1** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.023		0.065	0.023	mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	50
trans-1,3-Dichloropropene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,3-Trichlorobenzene	<0.030		0.065	0.030	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	50
1,2,4-Trichlorobenzene	<0.022		0.065	0.022	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,1,1-Trichloroethane	<0.025		0.065	0.025	mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	50
1,1,2-Trichloroethane	<0.023		0.065	0.023	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	50
Trichloroethene	<0.011		0.032	0.011	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Trichlorofluoromethane	<0.028		0.065	0.028	mg/Kg	≎	07/17/19 18:30	07/26/19 16:25	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,2,4-Trimethylbenzene	<0.023		0.065	0.023	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
1,3,5-Trimethylbenzene	<0.025		0.065	0.025	mg/Kg	☼	07/17/19 18:30	07/26/19 16:25	50
Vinyl chloride	<0.017		0.065	0.017	mg/Kg	₽	07/17/19 18:30	07/26/19 16:25	50
Xylenes, Total	<0.014		0.032	0.014	mg/Kg	₩	07/17/19 18:30	07/26/19 16:25	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124				07/17/19 18:30	07/26/19 16:25	50
Dibromofluoromethane	109		75 - 120				07/17/19 18:30	07/26/19 16:25	50
1,2-Dichloroethane-d4 (Surr)	107		75 - 126				07/17/19 18:30	07/26/19 16:25	50
Toluene-d8 (Surr)	95		75 - 120				07/17/19 18:30	07/26/19 16:25	50

### **Definitions/Glossary**

Client: Key Engineering Group, Ltd. Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

**Qualifier Description** 

#### **Qualifiers**

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Qualifier

	<u> </u>
*	LCS or LCSD is outside acceptance limits.
В	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

### **Glossary**

DL, RA, RE, IN

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DLC Decision Level Concentration (Radiochemistry) **EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE) MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

**Practical Quantitation Limit** PQL

QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) **TEF TEQ** Toxicity Equivalent Quotient (Dioxin)

Eurofins TestAmerica, Chicago

# **QC Association Summary**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

### **GC/MS VOA**

#### **Prep Batch: 496278**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-1	SP20 16-18	Total/NA	Solid	5035	_
500-166949-2	SP11 1-3	Total/NA	Solid	5035	
500-166949-3	SP12 8-10	Total/NA	Solid	5035	
500-166949-4	SP13 7-9	Total/NA	Solid	5035	
500-166949-5	SP15 2-4	Total/NA	Solid	5035	
500-166949-6	SP16 2-4	Total/NA	Solid	5035	
500-166949-7	SP17 2-4	Total/NA	Solid	5035	
500-166949-8	SP18 2-4	Total/NA	Solid	5035	
500-166949-9	SP19 2-4	Total/NA	Solid	5035	
500-166949-10	SP11 7-9	Total/NA	Solid	5035	
500-166949-11	SP15 8-10	Total/NA	Solid	5035	
500-166949-12	SP15 16-18	Total/NA	Solid	5035	
500-166949-13	SP16 8-10	Total/NA	Solid	5035	
500-166949-14	SP16 16-18	Total/NA	Solid	5035	
500-166949-15	SP17 8-10	Total/NA	Solid	5035	
500-166949-16	SP17 16-18	Total/NA	Solid	5035	
500-166949-17	SP18 8-10	Total/NA	Solid	5035	
500-166949-18	SP18 16-18	Total/NA	Solid	5035	
500-166949-19	SP19 8-10	Total/NA	Solid	5035	
500-166949-20	SP19 16-18	Total/NA	Solid	5035	
LB3 500-496278/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-496278/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-166949-15 MS	SP17 8-10	Total/NA	Solid	5035	
500-166949-15 MSD	SP17 8-10	Total/NA	Solid	5035	

### **Prep Batch: 496279**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-21	SP22 8-10	Total/NA	Solid	5035	
500-166949-22	SP23 16-18	Total/NA	Solid	5035	
500-166949-23	SP24 2-4	Total/NA	Solid	5035	
500-166949-24	SP24 8-10	Total/NA	Solid	5035	
500-166949-25	SP25 8-10	Total/NA	Solid	5035	
500-166949-26	SP26 2-4	Total/NA	Solid	5035	
500-166949-27	SP27 2-4	Total/NA	Solid	5035	
500-166949-28	SP21 16-18	Total/NA	Solid	5035	
LB3 500-496279/20-A	Method Blank	Total/NA	Solid	5035	
LCS 500-496279/21-A	Lab Control Sample	Total/NA	Solid	5035	

### **Analysis Batch: 496533**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-1	SP20 16-18	Total/NA	Solid	8260B	496278
500-166949-2	SP11 1-3	Total/NA	Solid	8260B	496278
500-166949-3	SP12 8-10	Total/NA	Solid	8260B	496278
500-166949-4	SP13 7-9	Total/NA	Solid	8260B	496278
500-166949-5	SP15 2-4	Total/NA	Solid	8260B	496278
500-166949-6	SP16 2-4	Total/NA	Solid	8260B	496278
500-166949-7	SP17 2-4	Total/NA	Solid	8260B	496278
500-166949-8	SP18 2-4	Total/NA	Solid	8260B	496278
500-166949-9	SP19 2-4	Total/NA	Solid	8260B	496278
500-166949-10	SP11 7-9	Total/NA	Solid	8260B	496278
500-166949-11	SP15 8-10	Total/NA	Solid	8260B	496278

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

# **GC/MS VOA (Continued)**

#### **Analysis Batch: 496533 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-12	SP15 16-18	Total/NA	Solid	8260B	496278
500-166949-13	SP16 8-10	Total/NA	Solid	8260B	496278
500-166949-14	SP16 16-18	Total/NA	Solid	8260B	496278
500-166949-15	SP17 8-10	Total/NA	Solid	8260B	496278
LB3 500-496278/21-A	Method Blank	Total/NA	Solid	8260B	496278
MB 500-496533/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-496278/22-A	Lab Control Sample	Total/NA	Solid	8260B	496278
LCS 500-496533/28	Lab Control Sample	Total/NA	Solid	8260B	
500-166949-15 MS	SP17 8-10	Total/NA	Solid	8260B	496278
500-166949-15 MSD	SP17 8-10	Total/NA	Solid	8260B	496278

### Analysis Batch: 496764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-16	SP17 16-18	Total/NA	Solid	8260B	496278
500-166949-17	SP18 8-10	Total/NA	Solid	8260B	496278
500-166949-18	SP18 16-18	Total/NA	Solid	8260B	496278
500-166949-19	SP19 8-10	Total/NA	Solid	8260B	496278
500-166949-20	SP19 16-18	Total/NA	Solid	8260B	496278
500-166949-21	SP22 8-10	Total/NA	Solid	8260B	496279
500-166949-22	SP23 16-18	Total/NA	Solid	8260B	496279
500-166949-23	SP24 2-4	Total/NA	Solid	8260B	496279
500-166949-24	SP24 8-10	Total/NA	Solid	8260B	496279
500-166949-25	SP25 8-10	Total/NA	Solid	8260B	496279
500-166949-26	SP26 2-4	Total/NA	Solid	8260B	496279
500-166949-27	SP27 2-4	Total/NA	Solid	8260B	496279
500-166949-28	SP21 16-18	Total/NA	Solid	8260B	496279
LB3 500-496279/20-A	Method Blank	Total/NA	Solid	8260B	496279
MB 500-496764/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-496279/21-A	Lab Control Sample	Total/NA	Solid	8260B	496279
LCS 500-496764/4	Lab Control Sample	Total/NA	Solid	8260B	

### **General Chemistry**

#### Analysis Batch: 496136

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-	-166949-1	SP20 16-18	Total/NA	Solid	Moisture	
500-	-166949-2	SP11 1-3	Total/NA	Solid	Moisture	
500-	-166949-3	SP12 8-10	Total/NA	Solid	Moisture	

#### **Analysis Batch: 496156**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-4	SP13 7-9	Total/NA	Solid	Moisture	_
500-166949-5	SP15 2-4	Total/NA	Solid	Moisture	
500-166949-6	SP16 2-4	Total/NA	Solid	Moisture	
500-166949-7	SP17 2-4	Total/NA	Solid	Moisture	
500-166949-8	SP18 2-4	Total/NA	Solid	Moisture	
500-166949-9	SP19 2-4	Total/NA	Solid	Moisture	
500-166949-10	SP11 7-9	Total/NA	Solid	Moisture	
500-166949-11	SP15 8-10	Total/NA	Solid	Moisture	
500-166949-12	SP15 16-18	Total/NA	Solid	Moisture	
500-166949-13	SP16 8-10	Total/NA	Solid	Moisture	

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# **QC Association Summary**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

# **General Chemistry (Continued)**

#### **Analysis Batch: 496156 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-14	SP16 16-18	Total/NA	Solid	Moisture	
500-166949-15	SP17 8-10	Total/NA	Solid	Moisture	
500-166949-16	SP17 16-18	Total/NA	Solid	Moisture	
500-166949-17	SP18 8-10	Total/NA	Solid	Moisture	
500-166949-18	SP18 16-18	Total/NA	Solid	Moisture	
500-166949-19	SP19 8-10	Total/NA	Solid	Moisture	
500-166949-20	SP19 16-18	Total/NA	Solid	Moisture	
500-166949-21	SP22 8-10	Total/NA	Solid	Moisture	
500-166949-22	SP23 16-18	Total/NA	Solid	Moisture	
500-166949-23	SP24 2-4	Total/NA	Solid	Moisture	
500-166949-4 DU	SP13 7-9	Total/NA	Solid	Moisture	

#### **Analysis Batch: 496172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166949-24	SP24 8-10	Total/NA	Solid	Moisture	
500-166949-25	SP25 8-10	Total/NA	Solid	Moisture	
500-166949-26	SP26 2-4	Total/NA	Solid	Moisture	
500-166949-27	SP27 2-4	Total/NA	Solid	Moisture	
500-166949-28	SP21 16-18	Total/NA	Solid	Moisture	

### **Surrogate Summary**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

# Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid** Prep Type: Total/NA

					gate Recovery (Acceptance Limits	)
		BFB	DBFM	DCA	TOL	
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)	
500-166949-1	SP20 16-18	92	107	104	97	
500-166949-2	SP11 1-3	92	108	104	95	
500-166949-3	SP12 8-10	95	112	109	93	
500-166949-4	SP13 7-9	95	107	104	96	
500-166949-5	SP15 2-4	93	108	106	94	
500-166949-6	SP16 2-4	94	110	110	95	
500-166949-7	SP17 2-4	92	110	113	92	
500-166949-8	SP18 2-4	94	109	108	94	
500-166949-9	SP19 2-4	92	109	108	92	
500-166949-10	SP11 7-9	95	111	110	94	
500-166949-11	SP15 8-10	98	110	110	94	
500-166949-12	SP15 16-18	98	111	113	94	
500-166949-13	SP16 8-10	96	111	109	94	
500-166949-14	SP16 16-18	95	113	109	93	
500-166949-15	SP17 8-10	94	111	114	94	
500-166949-15 MS	SP17 8-10	99	112	109	94	
500-166949-15 MSD	SP17 8-10	96	111	109	94	
500-166949-16	SP17 16-18	94	104	101	96	
500-166949-17	SP18 8-10	93	102	101	97	
500-166949-18	SP18 16-18	93	105	103	97	
500-166949-19	SP19 8-10	94	106	104	97	
500-166949-20	SP19 16-18	93	104	103	96	
500-166949-21	SP22 8-10	94	109	104	96	
500-166949-22	SP23 16-18	93	106	105	96	
500-166949-23	SP24 2-4	96	106	103	95	
500-166949-24	SP24 8-10	95	107	106	95	
500-166949-25	SP25 8-10	95	108	110	93	
500-166949-26	SP26 2-4	93	105	108	93	
500-166949-27	SP27 2-4	95	108	109	95	
500-166949-28	SP21 16-18	94	109	107	95	
LB3 500-496278/21-A	Method Blank	93	102	97	98	
LB3 500-496279/20-A	Method Blank	94	102	101	98	
LCS 500-496278/22-A	Lab Control Sample	95	110	107	95	
LCS 500-496279/21-A	Lab Control Sample	95	108	105	94	
LCS 500-496533/28	Lab Control Sample	94	108	105	96	
LCS 500-496764/4	Lab Control Sample	95	108	104	96	
MB 500-496533/6	Method Blank	93	106	108	96	
MB 500-496764/6	Method Blank	93	106	106	95	

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-496278/21-A

**Matrix: Solid** 

**Analysis Batch: 496533** 

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 496278

Job ID: 500-166949-1

	LB3								
Analyte		Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.087		0.50		mg/Kg			07/25/19 12:16	50
Benzene	<0.0073		0.013	0.0073				07/25/19 12:16	50
Bromobenzene	<0.018		0.050		mg/Kg			07/25/19 12:16	50
Bromochloromethane	<0.021		0.050		mg/Kg			07/25/19 12:16	50
Bromodichloromethane	<0.019		0.050		mg/Kg			07/25/19 12:16	50
Bromoform	<0.024		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Bromomethane	<0.040		0.15		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2-Butanone (MEK)	<0.11		0.25		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Carbon tetrachloride	<0.019		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chlorobenzene	<0.019		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2-Chlorotoluene	<0.016		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
cis-1,2-Dichloroethene	<0.020		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Naphthalene	0.0176	J	0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Styrene	<0.019		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
tert-Butylbenzene	<0.020		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,1,2-Tetrachloroethane	<0.023		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,2,2-Tetrachloroethane	<0.020		0.050		mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Tetrachloroethene	<0.019		0.050		mg/Kg			07/25/19 12:16	50

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

LB3 LB3

Lab Sample ID: LB3 500-496278/21-A

**Matrix: Solid** 

**Analysis Batch: 496533** 

Client Sample ID: Method Blank **Prep Type: Total/NA** 

**Prep Batch: 496278** 

Job ID: 500-166949-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.0074		0.013	0.0074	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		07/24/19 00:05	07/25/19 12:16	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		07/24/19 00:05	07/25/19 12:16	50

LB3 LB3

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	72 - 124	07/24/19 00:05	07/25/19 12:16	50
Dibromofluoromethane	102	75 - 120	07/24/19 00:05	07/25/19 12:16	50
1,2-Dichloroethane-d4 (Surr)	97	75 - 126	07/24/19 00:05	07/25/19 12:16	50
Toluene-d8 (Surr)	98	75 - 120	07/24/19 00:05	07/25/19 12:16	50

Lab Sample ID: LCS 500-496278/22-A

Matrix: Solid

**Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

Analysis Batch: 496533	Spike	LCS	LCS				Prep Batch: 496278 %Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	2.50	2.64		mg/Kg		106	40 - 143
Benzene	2.50	2.49		mg/Kg		100	70 - 120
Bromobenzene	2.50	2.57		mg/Kg		103	70 - 122
Bromochloromethane	2.50	2.84		mg/Kg		113	65 - 122
Bromodichloromethane	2.50	2.75		mg/Kg		110	69 - 120
Bromoform	2.50	3.66	*	mg/Kg		146	56 - 132
Bromomethane	2.50	2.19		mg/Kg		88	40 - 152
2-Butanone (MEK)	2.50	2.83		mg/Kg		113	46 - 144
Carbon tetrachloride	2.50	2.79		mg/Kg		111	59 - 133
Chlorobenzene	2.50	2.51		mg/Kg		101	70 - 120
Chloroethane	2.50	1.87		mg/Kg		75	48 - 136
Chloroform	2.50	2.49		mg/Kg		100	70 - 120
Chloromethane	2.50	1.89		mg/Kg		76	56 - 152
2-Chlorotoluene	2.50	2.42		mg/Kg		97	70 - 125
4-Chlorotoluene	2.50	2.41		mg/Kg		96	68 - 124
cis-1,2-Dichloroethene	2.50	2.61		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	2.50	2.58		mg/Kg		103	64 - 127
Dibromochloromethane	2.50	3.10		mg/Kg		124	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	3.38	*	mg/Kg		135	56 - 123
1,2-Dibromoethane	2.50	2.83		mg/Kg		113	70 - 125
Dibromomethane	2.50	3.05	*	mg/Kg		122	70 - 120
1,2-Dichlorobenzene	2.50	2.46		mg/Kg		98	70 <sub>-</sub> 125

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-496278/22-A

**Matrix: Solid** 

**Analysis Batch: 496533** 

**Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Prep Batch: 496278** %Rec.

Alialysis Batch. 490555	Spike	LCS	LCS		%Rec.
Analyte	Added		Qualifier Unit	D %Rec	Limits
1,3-Dichlorobenzene	2.50	2.41	mg/Kg	97	70 - 125
1,4-Dichlorobenzene	2.50	2.44	mg/Kg	98	70 - 120
Dichlorodifluoromethane	2.50	1.26	mg/Kg	50	40 - 159
1,1-Dichloroethane	2.50	2.44	mg/Kg	98	70 <sub>-</sub> 125
1,2-Dichloroethane	2.50	2.65	mg/Kg	106	68 - 127
1,1-Dichloroethene	2.50	2.38	mg/Kg	95	67 - 122
1,2-Dichloropropane	2.50	2.56	mg/Kg	103	67 - 130
1,3-Dichloropropane	2.50	2.86	mg/Kg	114	62 - 136
2,2-Dichloropropane	2.50	2.30	mg/Kg	92	58 - 139
1,1-Dichloropropene	2.50	2.44	mg/Kg	98	70 - 121
Ethylbenzene	2.50	2.44	mg/Kg	97	70 - 123
Hexachlorobutadiene	2.50	2.03	mg/Kg	81	51 - 150
Isopropylbenzene	2.50	2.27	mg/Kg	91	70 - 126
Methylene Chloride	2.50	2.58	mg/Kg	103	69 - 125
Methyl tert-butyl ether	2.50	2.74	mg/Kg	110	55 - 123
Naphthalene	2.50	2.55	mg/Kg	102	53 - 144
n-Butylbenzene	2.50	2.20	mg/Kg	88	68 - 125
N-Propylbenzene	2.50	2.33	mg/Kg	93	69 - 127
p-Isopropyltoluene	2.50	2.24	mg/Kg	89	70 - 125
sec-Butylbenzene	2.50	2.28	mg/Kg	91	70 - 123
Styrene	2.50	2.51	mg/Kg	100	70 - 120
tert-Butylbenzene	2.50	2.23	mg/Kg	89	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.86	mg/Kg	114	70 - 125
1,1,2,2-Tetrachloroethane	2.50	2.96	mg/Kg	118	62 - 140
Tetrachloroethene	2.50	2.27	mg/Kg	91	70 - 128
Toluene	2.50	2.33	mg/Kg	93	70 - 125
trans-1,2-Dichloroethene	2.50	2.52	mg/Kg	101	70 - 125
trans-1,3-Dichloropropene	2.50	2.70	mg/Kg	108	62 - 128
1,2,3-Trichlorobenzene	2.50	2.25	mg/Kg	90	51 - 145
1,2,4-Trichlorobenzene	2.50	2.15	mg/Kg	86	57 <sub>-</sub> 137
1,1,1-Trichloroethane	2.50	2.42	mg/Kg	97	70 - 125
1,1,2-Trichloroethane	2.50	2.75	mg/Kg	110	71 - 130
Trichloroethene	2.50	2.48	mg/Kg	99	70 - 125
Trichlorofluoromethane	2.50	2.30	mg/Kg	92	55 - 128
1,2,3-Trichloropropane	2.50	2.98	mg/Kg	119	50 - 133
1,2,4-Trimethylbenzene	2.50	2.30	mg/Kg	92	70 - 123
1,3,5-Trimethylbenzene	2.50	2.30	mg/Kg	92	70 - 123
Vinyl chloride	2.50	1.88	mg/Kg	75	64 - 126
Xylenes, Total	5.00	4.93	mg/Kg	99	70 - 125

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Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane	110		75 - 120
1,2-Dichloroethane-d4 (Surr)	107		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

# Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-166949-15 MS Client Sample ID: SP17 8-10

/NA **278** 

Matrix: Solid Analysis Batch: 496533	Sample	Sample	Spike	MS	MS				Prep Type: Total/N Prep Batch: 4962 %Rec.
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits
Acetone	<0.093		2.68	2.77		mg/Kg	— <del>☆</del>	103	40 - 143
Benzene	<0.0078		2.68	2.69		mg/Kg	₩	100	70 - 120
Bromobenzene	<0.019		2.68	2.76		mg/Kg	₩	103	70 <sub>-</sub> 122
Bromochloromethane	<0.023		2.68	3.13		mg/Kg	· · · · · · · · · · · · · · · · · · ·	117	65 - 122
Bromodichloromethane	<0.020		2.68	3.05		mg/Kg	₩	114	69 - 120
Bromoform	<0.026	F1 *	2.68	3.97	F1	mg/Kg	₩	148	56 - 132
Bromomethane	<0.043		2.68	2.63		mg/Kg		98	40 - 152
2-Butanone (MEK)	<0.11		2.68	3.27		mg/Kg	₩	122	46 - 144
Carbon tetrachloride	<0.021		2.68	2.98		mg/Kg	₩	111	59 <sub>-</sub> 133
Chlorobenzene	<0.021		2.68	2.61		mg/Kg		98	70 - 120
Chloroethane	<0.027		2.68	2.21		mg/Kg	₩	82	48 - 136
Chloroform	<0.020		2.68	2.67		mg/Kg	₩	100	70 - 120
Chloromethane	<0.017		2.68	2.51		mg/Kg		94	56 - 152
2-Chlorotoluene	<0.017		2.68	2.60		mg/Kg	₩	97	70 - 125
4-Chlorotoluene	<0.019		2.68	2.57		mg/Kg	₩	96	68 <sub>-</sub> 124
cis-1,2-Dichloroethene	<0.022		2.68	2.78		mg/Kg		104	70 - 125
cis-1,3-Dichloropropene	<0.022		2.68	2.74		mg/Kg	₩	102	64 - 127
Dibromochloromethane	<0.026		2.68	3.28		mg/Kg	₩	122	68 - 125
1,2-Dibromo-3-Chloropropane	<0.11	F1 *	2.68	3.94	F1	mg/Kg		147	56 - 123
1,2-Dibromoethane	<0.021		2.68	2.99		mg/Kg	₩	112	70 - 125
Dibromomethane	<0.014	F1 *	2.68	3.21		mg/Kg	₩	120	70 - 120
1,2-Dichlorobenzene	<0.018		2.68	2.67		mg/Kg		100	70 - 125
1,3-Dichlorobenzene	<0.021		2.68	2.57		mg/Kg	₩	96	70 - 125
1,4-Dichlorobenzene	<0.021		2.68	2.65		mg/Kg	≎	99	70 - 120 70 - 120
Dichlorodifluoromethane	<0.036		2.68	2.28		mg/Kg	 \$	85	40 - 159
1,1-Dichloroethane	<0.022		2.68	2.58		mg/Kg	≎	96	70 <sub>-</sub> 125
1,2-Dichloroethane	<0.022		2.68	2.88		mg/Kg	≎	108	68 - 127
1,1-Dichloroethene	<0.021		2.68	2.49		mg/Kg		93	67 - 122
1,2-Dichloropropane	<0.021		2.68	2.72		mg/Kg	≎	101	67 - 122
1,3-Dichloropropane	<0.019		2.68	3.05		mg/Kg	≎	114	62 - 136
2,2-Dichloropropane	<0.024		2.68	2.52		mg/Kg		94	58 - 139
1,1-Dichloropropene	<0.024		2.68	2.52		mg/Kg	::: ::::::::::::::::::::::::::::::::::	96	70 <sub>-</sub> 121
Ethylbenzene	<0.0098		2.68	2.59		mg/Kg	₩	97	70 - 121
Hexachlorobutadiene	<0.0098		2.68	2.08		mg/Kg		78	51 <sub>-</sub> 150
Isopropylbenzene	<0.024		2.68	2.46			≎	92	70 <sub>-</sub> 126
Methylene Chloride	<0.021		2.68	2.40		mg/Kg mg/Kg	≎	103	69 <sub>-</sub> 125
							· · · · · · · · · · · · · · · · · · ·		
Methyl tert-butyl ether	<0.021		2.68	3.07		mg/Kg	≎	114	55 <sub>-</sub> 123
Naphthalene	<0.018		2.68	2.96		mg/Kg	≎	110	53 - 144 68 - 125
n-Butylbenzene	<0.021		2.68	2.34		mg/Kg	<del>*</del>	87	68 - 125
N-Propylbenzene	<0.022		2.68	2.48		mg/Kg		92	69 - 127
p-Isopropyltoluene	<0.019		2.68	2.35		mg/Kg	<b>*</b>	88	70 <sub>-</sub> 125
sec-Butylbenzene	<0.021		2.68	2.42		mg/Kg	<del>.</del>	90	70 - 123
Styrene	<0.021		2.68	2.64		mg/Kg	<b>*</b>	98	70 - 120
tert-Butylbenzene	<0.021		2.68	2.36		mg/Kg	ψ.	88	70 - 121
1,1,1,2-Tetrachloroethane	<0.025		2.68	3.00		mg/Kg	<del></del>	112	70 - 125
1,1,2,2-Tetrachloroethane	<0.021		2.68	3.33		mg/Kg	☼	124	62 - 140
Tetrachloroethene	<0.020		2.68	2.40		mg/Kg	ψ.	90	70 - 128
Toluene	<0.0079		2.68	2.47		mg/Kg	₩	92	70 - 125

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

# Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-166949-15 MS

Matrix: Solid

**Analysis Batch: 496533** 

Client Sample ID: SP17 8-10 **Prep Type: Total/NA Prep Batch: 496278** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
trans-1,2-Dichloroethene	<0.019		2.68	2.65		mg/Kg	₩	99	70 - 125	
trans-1,3-Dichloropropene	<0.019		2.68	2.92		mg/Kg	₩	109	62 - 128	
1,2,3-Trichlorobenzene	<0.025		2.68	2.47		mg/Kg	₩	92	51 <sub>-</sub> 145	
1,2,4-Trichlorobenzene	<0.018		2.68	2.33		mg/Kg	₩	87	57 <sub>-</sub> 137	
1,1,1-Trichloroethane	<0.020		2.68	2.61		mg/Kg	₩	98	70 - 125	
1,1,2-Trichloroethane	<0.019		2.68	3.07		mg/Kg	☼	114	71 - 130	
Trichloroethene	<0.0088		2.68	2.66		mg/Kg	₩	99	70 - 125	
Trichlorofluoromethane	<0.023		2.68	2.72		mg/Kg	₩	101	55 <sub>-</sub> 128	
1,2,3-Trichloropropane	<0.022		2.68	3.38		mg/Kg	₩	126	50 - 133	
1,2,4-Trimethylbenzene	<0.019		2.68	2.46		mg/Kg	₩.	92	70 - 123	
1,3,5-Trimethylbenzene	<0.020		2.68	2.46		mg/Kg	₩	92	70 - 123	
Vinyl chloride	<0.014		2.68	2.20		mg/Kg	₩	82	64 - 126	
Xylenes, Total	<0.012		5.36	5.07		mg/Kg		95	70 - 125	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane	112		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		75 - 126
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: 500-166949-15 MSD

**Matrix: Solid** 

**Analysis Batch: 496533** 

Client Sample ID: SP17 8-10 Prep Type: Total/NA **Prep Batch: 496278** 

Analysis batch: 496555	Sample	Sample	Spike	MSD	MSD				%Rec.	aten: 4	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	<0.093		2.68	2.71		mg/Kg	<u> </u>	101	40 - 143	2	30
Benzene	<0.0078		2.68	2.75		mg/Kg	₩	102	70 - 120	2	30
Bromobenzene	<0.019		2.68	2.77		mg/Kg	☼	103	70 - 122	0	30
Bromochloromethane	<0.023		2.68	3.11		mg/Kg	₽	116	65 - 122	1	30
Bromodichloromethane	<0.020		2.68	3.05		mg/Kg	☼	114	69 - 120	0	30
Bromoform	<0.026	F1 *	2.68	3.98	F1	mg/Kg	₩	149	56 - 132	0	30
Bromomethane	<0.043		2.68	2.73		mg/Kg	₽	102	40 - 152	4	30
2-Butanone (MEK)	<0.11		2.68	3.05		mg/Kg	☼	114	46 - 144	7	30
Carbon tetrachloride	<0.021		2.68	2.95		mg/Kg	☼	110	59 - 133	1	30
Chlorobenzene	<0.021		2.68	2.67		mg/Kg	<b>\$</b>	100	70 - 120	2	30
Chloroethane	<0.027		2.68	2.30		mg/Kg	☼	86	48 - 136	4	30
Chloroform	<0.020		2.68	2.71		mg/Kg	₩	101	70 - 120	2	30
Chloromethane	<0.017		2.68	2.42		mg/Kg	₩.	90	56 - 152	4	30
2-Chlorotoluene	<0.017		2.68	2.60		mg/Kg	₩	97	70 - 125	0	30
4-Chlorotoluene	<0.019		2.68	2.58		mg/Kg	☼	96	68 - 124	0	30
cis-1,2-Dichloroethene	<0.022		2.68	2.87		mg/Kg	₩.	107	70 - 125	3	30
cis-1,3-Dichloropropene	<0.022		2.68	2.72		mg/Kg	₩	102	64 - 127	1	30
Dibromochloromethane	<0.026		2.68	3.26		mg/Kg	☼	122	68 - 125	1	30
1,2-Dibromo-3-Chloropropane	<0.11	F1 *	2.68	3.82	F1	mg/Kg		142	56 - 123	3	30
1,2-Dibromoethane	<0.021		2.68	3.00		mg/Kg	☼	112	70 - 125	0	30
Dibromomethane	<0.014	F1 *	2.68	3.36	F1	mg/Kg	₩	125	70 - 120	5	30
1,2-Dichlorobenzene	<0.018		2.68	2.70		mg/Kg	₩.	101	70 - 125	1	30
1,3-Dichlorobenzene	<0.021		2.68	2.59		mg/Kg	₩	97	70 - 125	1	30

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-166949-15 MSD

**Matrix: Solid** 

**Analysis Batch: 496533** 

Client Sample ID: SP17 8-10 **Prep Type: Total/NA** 

**Prep Batch: 496278** 

Analyte	-	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<0.020		2.68	2.64		mg/Kg	— <del>☆</del>	99	70 - 120	0	30
Dichlorodifluoromethane	<0.036		2.68	2.06		mg/Kg	₩	77	40 - 159	10	30
1,1-Dichloroethane	< 0.022		2.68	2.63		mg/Kg	₩	98	70 - 125	2	30
1,2-Dichloroethane	<0.021		2.68	2.91		mg/Kg	☼	108	68 - 127	1	30
1,1-Dichloroethene	<0.021		2.68	2.50		mg/Kg	₩.	93	67 - 122	0	30
1,2-Dichloropropane	< 0.023		2.68	2.71		mg/Kg	☼	101	67 - 130	0	30
1,3-Dichloropropane	< 0.019		2.68	3.02		mg/Kg	₩	113	62 - 136	1	30
2,2-Dichloropropane	<0.024		2.68	2.48		mg/Kg	₩.	92	58 - 139	2	30
1,1-Dichloropropene	<0.016		2.68	2.65		mg/Kg	₩	99	70 - 121	3	30
Ethylbenzene	<0.0098		2.68	2.60		mg/Kg	☼	97	70 - 123	0	30
Hexachlorobutadiene	<0.024		2.68	2.08		mg/Kg	₩.	77	51 - 150	0	30
Isopropylbenzene	< 0.021		2.68	2.44		mg/Kg	₩	91	70 - 126	1	30
Methylene Chloride	<0.087		2.68	2.87		mg/Kg	₩	107	69 - 125	4	30
Methyl tert-butyl ether	<0.021		2.68	2.98		mg/Kg	₩.	111	55 - 123	3	30
Naphthalene	<0.018		2.68	2.92		mg/Kg	₩	109	53 - 144	1	30
n-Butylbenzene	< 0.021		2.68	2.34		mg/Kg	₩	87	68 - 125	0	30
N-Propylbenzene	<0.022		2.68	2.47		mg/Kg	₩.	92	69 - 127	0	30
p-Isopropyltoluene	< 0.019		2.68	2.37		mg/Kg	₩	88	70 - 125	1	30
sec-Butylbenzene	< 0.021		2.68	2.37		mg/Kg	₩	89	70 - 123	2	30
Styrene	<0.021		2.68	2.67		mg/Kg	₩.	100	70 - 120	1	30
tert-Butylbenzene	< 0.021		2.68	2.36		mg/Kg	₩	88	70 - 121	0	30
1,1,1,2-Tetrachloroethane	< 0.025		2.68	3.06		mg/Kg	₩	114	70 - 125	2	30
1,1,2,2-Tetrachloroethane	<0.021		2.68	3.24		mg/Kg	₩.	121	62 - 140	3	30
Tetrachloroethene	< 0.020		2.68	2.38		mg/Kg	₩	89	70 - 128	1	30
Toluene	< 0.0079		2.68	2.45		mg/Kg	₩	91	70 - 125	1	30
trans-1,2-Dichloroethene	<0.019		2.68	2.62		mg/Kg		98	70 - 125	1	30
trans-1,3-Dichloropropene	< 0.019		2.68	2.84		mg/Kg	₩	106	62 - 128	3	30
1,2,3-Trichlorobenzene	< 0.025		2.68	2.55		mg/Kg	₩	95	51 - 145	3	30
1,2,4-Trichlorobenzene	<0.018		2.68	2.36		mg/Kg		88	57 - 137	1	30
1,1,1-Trichloroethane	<0.020		2.68	2.60		mg/Kg	₩	97	70 - 125	1	30
1,1,2-Trichloroethane	<0.019		2.68	2.91		mg/Kg	₩	109	71 - 130	5	30
Trichloroethene	<0.0088		2.68	2.72		mg/Kg	₩.	102	70 - 125	2	30
Trichlorofluoromethane	< 0.023		2.68	2.62		mg/Kg	₩	98	55 <sub>-</sub> 128	4	30
1,2,3-Trichloropropane	<0.022		2.68	3.35		mg/Kg	☼	125	50 - 133	1	30
1,2,4-Trimethylbenzene	<0.019		2.68	2.48		mg/Kg		93	70 - 123	1	30
1,3,5-Trimethylbenzene	<0.020		2.68	2.46		mg/Kg	₩	92	70 - 123	0	30
Vinyl chloride	<0.014		2.68	2.29		mg/Kg	₩	85	64 - 126	4	30
Xylenes, Total	<0.012		5.36	5.16		mg/Kg	₩.	96	70 - 125	2	30

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane	111		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		75 - 126
Toluene-d8 (Surr)	94		75 - 120

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

# Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-496279/20-A

Matrix: Solid

**Client Sample ID: Method Blank** Prep Type: Total/NA

Analysis Batch: 496764								Prep Batch:	<mark>496279</mark>
		LB3							
Analyte		Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.087		0.50		mg/Kg			07/26/19 11:00	50
Benzene	<0.0073		0.013	0.0073				07/26/19 11:00	50
Bromobenzene	<0.018		0.050		mg/Kg			07/26/19 11:00	50
Bromochloromethane	<0.021		0.050		mg/Kg			07/26/19 11:00	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromoform	<0.024		0.050	0.024	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
2-Butanone (MEK)	<0.11		0.25	0.11	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
4-Chlorotoluene	<0.018		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
cis-1,2-Dichloroethene	<0.020		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
cis-1,3-Dichloropropene	<0.021		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Dibromochloromethane	<0.024		0.050		mg/Kg			07/26/19 11:00	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25		mg/Kg			07/26/19 11:00	50
1,2-Dibromoethane	<0.019		0.050		mg/Kg			07/26/19 11:00	50
Dibromomethane	<0.014		0.050		mg/Kg			07/26/19 11:00	50
1,2-Dichlorobenzene	<0.014		0.050		mg/Kg			07/26/19 11:00	50
1,3-Dichlorobenzene	<0.017		0.050		mg/Kg			07/26/19 11:00	50
			0.050		0 0			07/26/19 11:00	50
1,4-Dichlorobenzene Dichlorodifluoromethane	<0.018		0.050		mg/Kg			07/26/19 11:00	50
	<0.034				mg/Kg				
1,1-Dichloroethane	<0.021		0.050		mg/Kg			07/26/19 11:00	50
1,2-Dichloroethane	<0.020		0.050		mg/Kg			07/26/19 11:00	50
1,1-Dichloroethene	<0.020		0.050		mg/Kg			07/26/19 11:00	50
1,2-Dichloropropane	<0.021		0.050		mg/Kg			07/26/19 11:00	50
1,3-Dichloropropane	<0.018		0.050		mg/Kg			07/26/19 11:00	50
2,2-Dichloropropane	<0.022		0.050		mg/Kg			07/26/19 11:00	50
1,1-Dichloropropene	<0.015		0.050		mg/Kg			07/26/19 11:00	50
Ethylbenzene	<0.0092		0.013	0.0092				07/26/19 11:00	50
Hexachlorobutadiene	<0.022		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Isopropyl ether	<0.014		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/24/19 00:05	07/26/19 11:00	50
p-Isopropyltoluene	<0.018		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
sec-Butylbenzene	<0.020		0.050		mg/Kg		07/24/19 00:05	07/26/19 11:00	50
Styrene	<0.019		0.050		mg/Kg			07/26/19 11:00	50
tert-Butylbenzene	<0.020		0.050		mg/Kg			07/26/19 11:00	50
1,1,1,2-Tetrachloroethane	<0.023		0.050		mg/Kg			07/26/19 11:00	50
1,1,2,2-Tetrachloroethane	<0.020		0.050		mg/Kg			07/26/19 11:00	50
Tetrachloroethene	<0.019		0.050		mg/Kg			07/26/19 11:00	50

Eurofins TestAmerica, Chicago

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

LB3 LB3

< 0.019

< 0.013

<0.011

%Recovery

LB3 LB3

94

102

101

98

Qualifier

Lab Sample ID: LB3 500-496279/20-A

**Matrix: Solid** 

Vinyl chloride

Xylenes, Total

Surrogate

Analysis Batch: 496764

**Client Sample ID: Method Blank** Prep Type: Total/NA

**Prep Batch: 496279** 

Job ID: 500-166949-1

**Analyte** Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Toluene 07/24/19 00:05 07/26/19 11:00 <0.0074 0.013 0.0074 mg/Kg 50 07/24/19 00:05 07/26/19 11:00 trans-1,2-Dichloroethene <0.018 0.050 0.018 mg/Kg 50 trans-1,3-Dichloropropene <0.018 0.050 0.018 mg/Kg 07/24/19 00:05 07/26/19 11:00 50 50 1,2,3-Trichlorobenzene 0.050 0.023 mg/Kg 07/24/19 00:05 07/26/19 11:00 <0.023 07/24/19 00:05 07/26/19 11:00 50 1,2,4-Trichlorobenzene < 0.017 0.050 0.017 mg/Kg 50 1,1,1-Trichloroethane < 0.019 0.050 0.019 mg/Kg 07/24/19 00:05 07/26/19 11:00 1,1,2-Trichloroethane 07/24/19 00:05 07/26/19 11:00 <0.018 0.050 0.018 mg/Kg 50 Trichloroethene <0.0082 0.025 0.0082 mg/Kg 07/24/19 00:05 07/26/19 11:00 50 Trichlorofluoromethane < 0.021 0.050 0.021 mg/Kg 07/24/19 00:05 07/26/19 11:00 50 1,2,3-Trichloropropane 0.10 0.021 mg/Kg 07/24/19 00:05 07/26/19 11:00 50 < 0.021 1,2,4-Trimethylbenzene <0.018 0.050 0.018 mg/Kg 07/24/19 00:05 07/26/19 11:00 50 1,3,5-Trimethylbenzene 0.050 0.019 mg/Kg 07/24/19 00:05 07/26/19 11:00 50

0.050

0.025

I imits

72 - 124

75 - 120

75 - 126

75 - 120

0.013 mg/Kg

0.011 mg/Kg

50

50

50

50

50

Dil Fac

_	Toluene-d8 (Surr)																	
	Lab Sample ID:	LC	S	5	0(	0-	4	9	6	2	7	9	)/:	2	1.	-/	4	

Analysis Batch: 496764

4-Bromofluorobenzene (Surr)

Dibromofluoromethane 1,2-Dichloroethane-d4 (Surr)

Matrix: Solid

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 496279

07/24/19 00:05 07/26/19 11:00

07/24/19 00:05 07/26/19 11:00

07/24/19 00:05 07/26/19 11:00

07/24/19 00:05 07/26/19 11:00

07/24/19 00:05 07/26/19 11:00

07/24/19 00:05 07/26/19 11:00

Analyzed

Prepared

Analysis Batch: 496764	Spike	LCS	LCS				Prep Batch: 496279 %Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	2.50	2.75		mg/Kg		110	40 - 143
Benzene	2.50	2.45		mg/Kg		98	70 - 120
Bromobenzene	2.50	2.51		mg/Kg		100	70 - 122
Bromochloromethane	2.50	2.77		mg/Kg		111	65 - 122
Bromodichloromethane	2.50	2.67		mg/Kg		107	69 - 120
Bromoform	2.50	3.50	*	mg/Kg		140	56 - 132
Bromomethane	2.50	2.05		mg/Kg		82	40 - 152
2-Butanone (MEK)	2.50	2.86		mg/Kg		114	46 - 144
Carbon tetrachloride	2.50	2.69		mg/Kg		107	59 - 133
Chlorobenzene	2.50	2.42		mg/Kg		97	70 - 120
Chloroethane	2.50	1.87		mg/Kg		75	48 - 136
Chloroform	2.50	2.40		mg/Kg		96	70 - 120
Chloromethane	2.50	1.84		mg/Kg		73	56 - 152
2-Chlorotoluene	2.50	2.39		mg/Kg		96	70 - 125
4-Chlorotoluene	2.50	2.37		mg/Kg		95	68 - 124
cis-1,2-Dichloroethene	2.50	2.53		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	2.50	2.53		mg/Kg		101	64 - 127
Dibromochloromethane	2.50	2.91		mg/Kg		116	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	3.35	*	mg/Kg		134	56 - 123
1,2-Dibromoethane	2.50	2.67		mg/Kg		107	70 - 125
Dibromomethane	2.50	2.96		mg/Kg		118	70 - 120
1,2-Dichlorobenzene	2.50	2.43		mg/Kg		97	70 - 125

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-496279/21-A

**Matrix: Solid** 

Analysis Batch: 496764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 496279

Spike	LCS	LCS			%Rec.	
Added	Result	Qualifier Unit	D	%Rec	Limits	
2.50	2.36	mg/Kg		95	70 - 125	
2.50	2.39	mg/Kg		96	70 - 120	
2.50	1.20	mg/Kg		48	40 - 159	
2.50	2.36	mg/Kg		94	70 - 125	
2.50	2.57	mg/Kg		103	68 - 127	
2.50	2.25	mg/Kg		90	67 - 122	
2.50	2.48	mg/Kg		99	67 - 130	
2.50	2.80	mg/Kg		112	62 - 136	
2.50	2.22	mg/Kg		89	58 - 139	
2.50	2.38	mg/Kg		95	70 - 121	
2.50	2.35	mg/Kg		94	70 - 123	
2.50	1.89	mg/Kg		75	51 - 150	
2.50	2.24	mg/Kg		90	70 - 126	
2.50	2.58	mg/Kg		103	69 - 125	
2.50	2.75	mg/Kg		110	55 - 123	
2.50	2.66	mg/Kg		106	53 - 144	
2.50	2.20	mg/Kg		88	68 - 125	
2.50	2.30	mg/Kg		92	69 - 127	
2.50	2.18	mg/Kg		87	70 - 125	
2.50	2.21	mg/Kg		88	70 - 123	
2.50	2.43			97	70 - 120	
2.50	2.16	mg/Kg		86	70 - 121	
2.50	2.69	mg/Kg		108	70 - 125	
2.50	2.94	mg/Kg		118	62 - 140	
2.50	2.14	mg/Kg		86	70 - 128	
2.50	2.23	mg/Kg		89	70 - 125	
2.50	2.40			96	70 - 125	
2.50	2.63	mg/Kg		105	62 - 128	
2.50	2.29	mg/Kg		92	51 <sub>-</sub> 145	
	2.21			88	57 - 137	
2.50	2.37	mg/Kg		95	70 - 125	
2.50	2.65	mg/Kg		106	71 - 130	
2.50	2.42			97	70 - 125	
2.50	2.18	mg/Kg		87	55 - 128	
2.50	2.96	mg/Kg		118	50 - 133	
2.50	2.25	mg/Kg		90	70 - 123	
2.50	2.24	mg/Kg		89	70 - 123	
2.50	1.77	mg/Kg		71	64 - 126	
5.00	4.78	mg/Kg		96	70 - 125	
	2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50	Added         Result           2.50         2.36           2.50         2.39           2.50         1.20           2.50         2.36           2.50         2.57           2.50         2.25           2.50         2.48           2.50         2.80           2.50         2.38           2.50         2.38           2.50         2.35           2.50         2.35           2.50         2.58           2.50         2.58           2.50         2.58           2.50         2.50           2.50         2.66           2.50         2.20           2.50         2.20           2.50         2.21           2.50         2.21           2.50         2.21           2.50         2.21           2.50         2.94           2.50         2.94           2.50         2.23           2.50         2.23           2.50         2.40           2.50         2.23           2.50         2.24           2.50         2.24           2.50	Added         Result         Qualifier         Unit           2.50         2.36         mg/Kg           2.50         2.39         mg/Kg           2.50         2.36         mg/Kg           2.50         2.36         mg/Kg           2.50         2.25         mg/Kg           2.50         2.25         mg/Kg           2.50         2.24         mg/Kg           2.50         2.80         mg/Kg           2.50         2.22         mg/Kg           2.50         2.38         mg/Kg           2.50         2.38         mg/Kg           2.50         2.35         mg/Kg           2.50         2.35         mg/Kg           2.50         2.24         mg/Kg           2.50         2.58         mg/Kg           2.50         2.58         mg/Kg           2.50         2.58         mg/Kg           2.50         2.58         mg/Kg           2.50         2.21         mg/Kg           2.50         2.20         mg/Kg           2.50         2.20         mg/Kg           2.50         2.21         mg/Kg           2.50	Added         Result         Qualifier         Unit         D           2.50         2.36         mg/Kg           2.50         2.39         mg/Kg           2.50         2.36         mg/Kg           2.50         2.36         mg/Kg           2.50         2.57         mg/Kg           2.50         2.25         mg/Kg           2.50         2.48         mg/Kg           2.50         2.80         mg/Kg           2.50         2.22         mg/Kg           2.50         2.38         mg/Kg           2.50         2.38         mg/Kg           2.50         2.35         mg/Kg           2.50         2.35         mg/Kg           2.50         2.58         mg/Kg           2.50         2.50         2.66         mg/Kg           2.50         2.20         mg/Kg           2.50         2.21         mg/Kg           2.50         2.21         mg/Kg </td <td>Added         Result         Qualifier         Unit         D         %Rec           2.50         2.36         mg/Kg         95           2.50         2.39         mg/Kg         96           2.50         1.20         mg/Kg         94           2.50         2.36         mg/Kg         94           2.50         2.57         mg/Kg         94           2.50         2.25         mg/Kg         99           2.50         2.28         mg/Kg         99           2.50         2.22         mg/Kg         99           2.50         2.22         mg/Kg         95           2.50         2.23         mg/Kg         95           2.50         2.35         mg/Kg         95           2.50         2.35         mg/Kg         95           2.50         2.35         mg/Kg         90           2.50         2.24         mg/Kg         90           2.50         2.24         mg/Kg         103           2.50         2.25         mg/Kg         103           2.50         2.20         mg/Kg         106           2.50         2.20         mg/Kg</td> <td>Added         Result         Qualifier         Unit         D         %Rec         Limits           2.50         2.36         mg/Kg         95         70 - 125           2.50         2.39         mg/Kg         96         70 - 125           2.50         1.20         mg/Kg         48         40 - 159           2.50         2.36         mg/Kg         94         70 - 125           2.50         2.57         mg/Kg         90         67 - 122           2.50         2.25         mg/Kg         90         67 - 130           2.50         2.48         mg/Kg         99         67 - 130           2.50         2.80         mg/Kg         99         67 - 132           2.50         2.22         mg/Kg         95         70 - 121           2.50         2.38         mg/Kg         95         70 - 121           2.50         2.35         mg/Kg         94         70 - 123           2.50         2.35         mg/Kg         90         70 - 124           2.50         2.58         mg/Kg         90         70 - 125           2.50         2.58         mg/Kg         103         69 - 125</td>	Added         Result         Qualifier         Unit         D         %Rec           2.50         2.36         mg/Kg         95           2.50         2.39         mg/Kg         96           2.50         1.20         mg/Kg         94           2.50         2.36         mg/Kg         94           2.50         2.57         mg/Kg         94           2.50         2.25         mg/Kg         99           2.50         2.28         mg/Kg         99           2.50         2.22         mg/Kg         99           2.50         2.22         mg/Kg         95           2.50         2.23         mg/Kg         95           2.50         2.35         mg/Kg         95           2.50         2.35         mg/Kg         95           2.50         2.35         mg/Kg         90           2.50         2.24         mg/Kg         90           2.50         2.24         mg/Kg         103           2.50         2.25         mg/Kg         103           2.50         2.20         mg/Kg         106           2.50         2.20         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec         Limits           2.50         2.36         mg/Kg         95         70 - 125           2.50         2.39         mg/Kg         96         70 - 125           2.50         1.20         mg/Kg         48         40 - 159           2.50         2.36         mg/Kg         94         70 - 125           2.50         2.57         mg/Kg         90         67 - 122           2.50         2.25         mg/Kg         90         67 - 130           2.50         2.48         mg/Kg         99         67 - 130           2.50         2.80         mg/Kg         99         67 - 132           2.50         2.22         mg/Kg         95         70 - 121           2.50         2.38         mg/Kg         95         70 - 121           2.50         2.35         mg/Kg         94         70 - 123           2.50         2.35         mg/Kg         90         70 - 124           2.50         2.58         mg/Kg         90         70 - 125           2.50         2.58         mg/Kg         103         69 - 125

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	94		75 - 120

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Job ID: 500-166949-1 Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-496533/6

Matrix: Solid

Client Sample ID: Method Blank **Prep Type: Total/NA** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0017		0.010	0.0017	mg/Kg			07/25/19 11:50	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			07/25/19 11:50	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			07/25/19 11:50	1
Bromodichloromethane	< 0.00037		0.0010	0.00037	mg/Kg			07/25/19 11:50	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			07/25/19 11:50	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			07/25/19 11:50	1
2-Butanone (MEK)	<0.0021		0.0050	0.0021	mg/Kg			07/25/19 11:50	1
Carbon tetrachloride	<0.00038		0.0010	0.00038				07/25/19 11:50	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
Chloroethane	< 0.00050		0.0010	0.00050				07/25/19 11:50	1
Chloroform	<0.00037		0.0020	0.00037	0 0			07/25/19 11:50	1
Chloromethane	<0.00032		0.0010	0.00032				07/25/19 11:50	1
2-Chlorotoluene	<0.00031		0.0010	0.00031				07/25/19 11:50	1
4-Chlorotoluene	<0.00035		0.0010	0.00035				07/25/19 11:50	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041				07/25/19 11:50	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042				07/25/19 11:50	1
Dibromochloromethane	<0.00049		0.0010	0.00049				07/25/19 11:50	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020				07/25/19 11:50	· · · · · · · · · · · · · · · · · · ·
1,2-Dibromoethane	< 0.00039		0.0010	0.00039				07/25/19 11:50	1
Dibromomethane	<0.00037		0.0010	0.00037				07/25/19 11:50	1
1,2-Dichlorobenzene	<0.00027		0.0010	0.00027				07/25/19 11:50	1
1,3-Dichlorobenzene	<0.00033		0.0010	0.00033				07/25/19 11:50	1
·			0.0010	0.00040				07/25/19 11:50	1
1,4-Dichlorobenzene Dichlorodifluoromethane	<0.00036		0.0010	0.00036				07/25/19 11:50	1
	<0.00067								-
1,1-Dichloroethane	<0.00041		0.0010	0.00041	0 0			07/25/19 11:50	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039				07/25/19 11:50	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039				07/25/19 11:50	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043				07/25/19 11:50	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036				07/25/19 11:50	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044				07/25/19 11:50	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030				07/25/19 11:50	1
Ethylbenzene	<0.00018		0.00025	0.00018				07/25/19 11:50	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045				07/25/19 11:50	1
Isopropylbenzene	<0.00038		0.0010	0.00038				07/25/19 11:50	1
Isopropyl ether	<0.00028		0.0010	0.00028				07/25/19 11:50	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			07/25/19 11:50	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
Naphthalene	0.000537	J	0.0010	0.00033	mg/Kg			07/25/19 11:50	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			07/25/19 11:50	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			07/25/19 11:50	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			07/25/19 11:50	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/25/19 11:50	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			07/25/19 11:50	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040				07/25/19 11:50	1
Tetrachloroethene	<0.00037		0.0010	0.00037				07/25/19 11:50	1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-496533/6

**Matrix: Solid** 

Analysis Batch: 496533

Client Sample ID: Method Blank

Job ID: 500-166949-1

Prep Type: Total/NA

	MB N	MB						
Analyte	Result (	Qualifier	RL MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00015	0.000	25 0.00015	mg/Kg			07/25/19 11:50	1
trans-1,2-Dichloroethene	<0.00035	0.00	10 0.00035	mg/Kg			07/25/19 11:50	1
trans-1,3-Dichloropropene	<0.00036	0.00	10 0.00036	mg/Kg			07/25/19 11:50	1
1,2,3-Trichlorobenzene	<0.00046	0.00	10 0.00046	mg/Kg			07/25/19 11:50	1
1,2,4-Trichlorobenzene	<0.00034	0.00	10 0.00034	mg/Kg			07/25/19 11:50	1
1,1,1-Trichloroethane	<0.00038	0.00	10 0.00038	mg/Kg			07/25/19 11:50	1
1,1,2-Trichloroethane	<0.00035	0.00	10 0.00035	mg/Kg			07/25/19 11:50	1
Trichloroethene	<0.00016	0.000	50 0.00016	mg/Kg			07/25/19 11:50	1
Trichlorofluoromethane	<0.00043	0.00	10 0.00043	mg/Kg			07/25/19 11:50	1
1,2,3-Trichloropropane	<0.00041	0.00	20 0.00041	mg/Kg			07/25/19 11:50	1
1,2,4-Trimethylbenzene	<0.00036	0.00	10 0.00036	mg/Kg			07/25/19 11:50	1
1,3,5-Trimethylbenzene	<0.00038	0.00	10 0.00038	mg/Kg			07/25/19 11:50	1
Vinyl chloride	<0.00026	0.00	10 0.00026	mg/Kg			07/25/19 11:50	1
Xylenes, Total	<0.00022	0.000	50 0.00022	mg/Kg			07/25/19 11:50	1

MB MB Qualifier Dil Fac %Recovery Limits Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 93 72 - 124 07/25/19 11:50 Dibromofluoromethane 106 75 - 120 07/25/19 11:50 1,2-Dichloroethane-d4 (Surr) 108 75 - 126 07/25/19 11:50 Toluene-d8 (Surr) 96 75 - 120 07/25/19 11:50

Lab Sample ID: LCS 500-496533/28

**Matrix: Solid** 

Analysis Batch: 496533

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	0.0500	0.0600		mg/Kg		120	40 - 143
Benzene	0.0500	0.0507		mg/Kg		101	70 - 120
Bromobenzene	0.0500	0.0507		mg/Kg		101	70 - 122
Bromochloromethane	0.0500	0.0540		mg/Kg		108	65 - 122
Bromodichloromethane	0.0500	0.0554		mg/Kg		111	69 - 120
Bromoform	0.0500	0.0769	*	mg/Kg		154	56 - 132
Bromomethane	0.0500	0.0502		mg/Kg		100	40 - 152
2-Butanone (MEK)	0.0500	0.0593		mg/Kg		119	46 - 144
Carbon tetrachloride	0.0500	0.0636		mg/Kg		127	59 - 133
Chlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 120
Chloroethane	0.0500	0.0444		mg/Kg		89	48 - 136
Chloroform	0.0500	0.0491		mg/Kg		98	70 - 120
Chloromethane	0.0500	0.0456		mg/Kg		91	56 - 152
2-Chlorotoluene	0.0500	0.0488		mg/Kg		98	70 - 125
4-Chlorotoluene	0.0500	0.0498		mg/Kg		100	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0527		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0521		mg/Kg		104	64 - 127
Dibromochloromethane	0.0500	0.0613		mg/Kg		123	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0711	*	mg/Kg		142	56 - 123
1,2-Dibromoethane	0.0500	0.0560		mg/Kg		112	70 - 125
Dibromomethane	0.0500	0.0607	*	mg/Kg		121	70 - 120
1,2-Dichlorobenzene	0.0500	0.0498		mg/Kg		100	70 - 125

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-496533/28

**Matrix: Solid** 

**Analysis Batch: 496533** 

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

•	Prep Type:	Total/NA
	% Pac	

Allalysis Batch. 490000	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,3-Dichlorobenzene	0.0500	0.0497		mg/Kg		99	70 - 125	
1,4-Dichlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 120	
Dichlorodifluoromethane	0.0500	0.0513		mg/Kg		103	40 - 159	
1,1-Dichloroethane	0.0500	0.0482		mg/Kg		96	70 - 125	
1,2-Dichloroethane	0.0500	0.0529		mg/Kg		106	68 - 127	
1,1-Dichloroethene	0.0500	0.0520		mg/Kg		104	67 - 122	
1,2-Dichloropropane	0.0500	0.0502		mg/Kg		100	67 - 130	
1,3-Dichloropropane	0.0500	0.0571		mg/Kg		114	62 - 136	
2,2-Dichloropropane	0.0500	0.0515		mg/Kg		103	58 - 139	
1,1-Dichloropropene	0.0500	0.0530		mg/Kg		106	70 - 121	
Ethylbenzene	0.0500	0.0511		mg/Kg		102	70 - 123	
Hexachlorobutadiene	0.0500	0.0441		mg/Kg		88	51 - 150	
Isopropylbenzene	0.0500	0.0478		mg/Kg		96	70 - 126	
Methylene Chloride	0.0500	0.0512		mg/Kg		102	69 - 125	
Methyl tert-butyl ether	0.0500	0.0556		mg/Kg		111	55 - 123	
Naphthalene	0.0500	0.0529		mg/Kg		106	53 - 144	
n-Butylbenzene	0.0500	0.0499		mg/Kg		100	68 - 125	
N-Propylbenzene	0.0500	0.0496		mg/Kg		99	69 - 127	
p-Isopropyltoluene	0.0500	0.0484		mg/Kg		97	70 - 125	
sec-Butylbenzene	0.0500	0.0484		mg/Kg		97	70 - 123	
Styrene	0.0500	0.0507		mg/Kg		101	70 - 120	
tert-Butylbenzene	0.0500	0.0473		mg/Kg		95	70 - 121	
1,1,1,2-Tetrachloroethane	0.0500	0.0573		mg/Kg		115	70 - 125	
1,1,2,2-Tetrachloroethane	0.0500	0.0600		mg/Kg		120	62 - 140	
Tetrachloroethene	0.0500	0.0513		mg/Kg		103	70 - 128	
Toluene	0.0500	0.0479		mg/Kg		96	70 - 125	
trans-1,2-Dichloroethene	0.0500	0.0507		mg/Kg		101	70 - 125	
trans-1,3-Dichloropropene	0.0500	0.0565		mg/Kg		113	62 - 128	
1,2,3-Trichlorobenzene	0.0500	0.0490		mg/Kg		98	51 - 145	
1,2,4-Trichlorobenzene	0.0500	0.0495		mg/Kg		99	57 - 137	
1,1,1-Trichloroethane	0.0500	0.0531		mg/Kg		106	70 - 125	
1,1,2-Trichloroethane	0.0500	0.0551		mg/Kg		110	71 - 130	
Trichloroethene	0.0500	0.0536		mg/Kg		107	70 - 125	
Trichlorofluoromethane	0.0500	0.0572		mg/Kg		114	55 - 128	
1,2,3-Trichloropropane	0.0500	0.0611		mg/Kg		122	50 - 133	
1,2,4-Trimethylbenzene	0.0500	0.0473		mg/Kg		95	70 - 123	
1,3,5-Trimethylbenzene	0.0500	0.0474		mg/Kg		95	70 - 123	
Vinyl chloride	0.0500	0.0468		mg/Kg		94	64 - 126	
Xylenes, Total	0.100	0.101		mg/Kg		101	70 - 125	

LCS	LCS
verv	Qualifier

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	105		75 - 126
Toluene-d8 (Surr)	96		75 - 120

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Client: Key Engineering Group, Ltd.

Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-496764/6

**Matrix: Solid** 

Client Sample ID: Method Blank Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Acetone	<0.0017		0.010	0.0017				07/26/19 10:33	1
Benzene	<0.00015		0.00025	0.00015				07/26/19 10:33	1
Bromobenzene	<0.00036		0.0010	0.00036				07/26/19 10:33	1
Bromochloromethane	<0.00043		0.0010	0.00043				07/26/19 10:33	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			07/26/19 10:33	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			07/26/19 10:33	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			07/26/19 10:33	1
2-Butanone (MEK)	<0.0021		0.0050	0.0021	mg/Kg			07/26/19 10:33	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			07/26/19 10:33	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			07/26/19 10:33	1
Chloroform	< 0.00037		0.0020	0.00037	mg/Kg			07/26/19 10:33	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			07/26/19 10:33	1
2-Chlorotoluene	< 0.00031		0.0010	0.00031	mg/Kg			07/26/19 10:33	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			07/26/19 10:33	1
cis-1,3-Dichloropropene	< 0.00042		0.0010	0.00042	mg/Kg			07/26/19 10:33	1
Dibromochloromethane	< 0.00049		0.0010	0.00049	mg/Kg			07/26/19 10:33	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			07/26/19 10:33	1
1,2-Dibromoethane	< 0.00039		0.0010	0.00039				07/26/19 10:33	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			07/26/19 10:33	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033				07/26/19 10:33	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040				07/26/19 10:33	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036				07/26/19 10:33	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067				07/26/19 10:33	1
1,1-Dichloroethane	< 0.00041		0.0010	0.00041				07/26/19 10:33	1
1,2-Dichloroethane	< 0.00039		0.0010	0.00039	0 0			07/26/19 10:33	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039				07/26/19 10:33	1
1,2-Dichloropropane	< 0.00043		0.0010	0.00043				07/26/19 10:33	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036				07/26/19 10:33	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044				07/26/19 10:33	
1,1-Dichloropropene	<0.00030		0.0010	0.00030				07/26/19 10:33	
Ethylbenzene	<0.00018		0.00025	0.00018				07/26/19 10:33	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045				07/26/19 10:33	
Isopropylbenzene	<0.00038		0.0010	0.00038				07/26/19 10:33	1
Isopropyl ether	<0.00028		0.0010	0.00028				07/26/19 10:33	1
Methylene Chloride	<0.0016		0.0050	0.0016				07/26/19 10:33	
Methyl tert-butyl ether	<0.00039		0.0010	0.00039				07/26/19 10:33	1
Naphthalene	< 0.00033		0.0010	0.00033				07/26/19 10:33	1
n-Butylbenzene	<0.00039		0.0010	0.00039				07/26/19 10:33	
N-Propylbenzene	< 0.00041		0.0010	0.00041				07/26/19 10:33	1
p-Isopropyltoluene	< 0.00036		0.0010	0.00036				07/26/19 10:33	1
sec-Butylbenzene	<0.00030		0.0010	0.00030				07/26/19 10:33	
Styrene	<0.00040		0.0010	0.00040				07/26/19 10:33	,
tert-Butylbenzene	<0.00039		0.0010	0.00039	0 0			07/26/19 10:33	,
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00040				07/26/19 10:33	
1,1,2,2-Tetrachloroethane	<0.00046		0.0010	0.00046				07/26/19 10:33	
Tetrachloroethene	<0.00040		0.0010	0.00040				07/26/19 10:33	1

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Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

< 0.00022

Lab Sample ID: MB 500-496764/6

**Matrix: Solid** 

Analysis Batch: 496764

Client Sample ID: Method Blank

07/26/19 10:33

Prep Type: Total/NA

Job ID: 500-166949-1

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00015		0.00025	0.00015	mg/Kg			07/26/19 10:33	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			07/26/19 10:33	1
1,2,4-Trichlorobenzene	< 0.00034		0.0010	0.00034	mg/Kg			07/26/19 10:33	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			07/26/19 10:33	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			07/26/19 10:33	1
Trichlorofluoromethane	< 0.00043		0.0010	0.00043	mg/Kg			07/26/19 10:33	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			07/26/19 10:33	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			07/26/19 10:33	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/26/19 10:33	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			07/26/19 10:33	1

MB MB Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 72 - 124 4-Bromofluorobenzene (Surr) 93 07/26/19 10:33 Dibromofluoromethane 106 75 - 120 07/26/19 10:33 1,2-Dichloroethane-d4 (Surr) 106 75 - 126 07/26/19 10:33 Toluene-d8 (Surr) 95 75 - 120 07/26/19 10:33

0.00050

0.00022 mg/Kg

Lab Sample ID: LCS 500-496764/4

**Matrix: Solid** 

Xylenes, Total

Analysis Batch: 496764

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	0.0500	0.0542		mg/Kg		108	40 - 143
Benzene	0.0500	0.0493		mg/Kg		99	70 - 120
Bromobenzene	0.0500	0.0486		mg/Kg		97	70 - 122
Bromochloromethane	0.0500	0.0535		mg/Kg		107	65 - 122
Bromodichloromethane	0.0500	0.0528		mg/Kg		106	69 - 120
Bromoform	0.0500	0.0747	*	mg/Kg		149	56 - 132
Bromomethane	0.0500	0.0471		mg/Kg		94	40 - 152
2-Butanone (MEK)	0.0500	0.0544		mg/Kg		109	46 - 144
Carbon tetrachloride	0.0500	0.0631		mg/Kg		126	59 - 133
Chlorobenzene	0.0500	0.0495		mg/Kg		99	70 - 120
Chloroethane	0.0500	0.0405		mg/Kg		81	48 - 136
Chloroform	0.0500	0.0483		mg/Kg		97	70 - 120
Chloromethane	0.0500	0.0435		mg/Kg		87	56 - 152
2-Chlorotoluene	0.0500	0.0486		mg/Kg		97	70 - 125
4-Chlorotoluene	0.0500	0.0488		mg/Kg		98	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0512		mg/Kg		102	64 - 127
Dibromochloromethane	0.0500	0.0603		mg/Kg		121	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0690	*	mg/Kg		138	56 - 123
1,2-Dibromoethane	0.0500	0.0550		mg/Kg		110	70 - 125
Dibromomethane	0.0500	0.0572		mg/Kg		114	70 - 120
1,2-Dichlorobenzene	0.0500	0.0487		mg/Kg		97	70 - 125

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Spike

LCS LCS

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-496764/4

**Matrix: Solid** 

Analysis Batch: 496764

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

%Rec.

	Spike	LUS	LUG		MREC.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
1,3-Dichlorobenzene	0.0500	0.0484	mg/Kg	97	70 - 125	
1,4-Dichlorobenzene	0.0500	0.0494	mg/Kg	99	70 - 120	
Dichlorodifluoromethane	0.0500	0.0462	mg/Kg	92	40 - 159	
1,1-Dichloroethane	0.0500	0.0471	mg/Kg	94	70 - 125	
1,2-Dichloroethane	0.0500	0.0505	mg/Kg	101	68 - 127	
1,1-Dichloroethene	0.0500	0.0494	mg/Kg	99	67 - 122	
1,2-Dichloropropane	0.0500	0.0498	mg/Kg	100	67 - 130	
1,3-Dichloropropane	0.0500	0.0555	mg/Kg	111	62 - 136	
2,2-Dichloropropane	0.0500	0.0513	mg/Kg	103	58 - 139	
1,1-Dichloropropene	0.0500	0.0526	mg/Kg	105	70 - 121	
Ethylbenzene	0.0500	0.0508	mg/Kg	102	70 - 123	
Hexachlorobutadiene	0.0500	0.0437	mg/Kg	87	51 - 150	
Isopropylbenzene	0.0500	0.0474	mg/Kg	95	70 - 126	
Methylene Chloride	0.0500	0.0485	mg/Kg	97	69 - 125	
Methyl tert-butyl ether	0.0500	0.0538	mg/Kg	108	55 - 123	
Naphthalene	0.0500	0.0510	mg/Kg	102	53 - 144	
n-Butylbenzene	0.0500	0.0492	mg/Kg	98	68 - 125	
N-Propylbenzene	0.0500	0.0494	mg/Kg	99	69 - 127	
p-Isopropyltoluene	0.0500	0.0481	mg/Kg	96	70 - 125	
sec-Butylbenzene	0.0500	0.0480	mg/Kg	96	70 - 123	
Styrene	0.0500	0.0501	mg/Kg	100	70 - 120	
tert-Butylbenzene	0.0500	0.0459	mg/Kg	92	70 - 121	
1,1,1,2-Tetrachloroethane	0.0500	0.0564	mg/Kg	113	70 - 125	
1,1,2,2-Tetrachloroethane	0.0500	0.0576	mg/Kg	115	62 - 140	
Tetrachloroethene	0.0500	0.0503	mg/Kg	101	70 - 128	
Toluene	0.0500	0.0479	mg/Kg	96	70 - 125	
trans-1,2-Dichloroethene	0.0500	0.0504	mg/Kg	101	70 - 125	
trans-1,3-Dichloropropene	0.0500	0.0548	mg/Kg	110	62 - 128	
1,2,3-Trichlorobenzene	0.0500	0.0468	mg/Kg	94	51 <sub>-</sub> 145	
1,2,4-Trichlorobenzene	0.0500	0.0464	mg/Kg	93	57 <sub>-</sub> 137	
1,1,1-Trichloroethane	0.0500	0.0525	mg/Kg	105	70 - 125	
1,1,2-Trichloroethane	0.0500	0.0537	mg/Kg	107	71 - 130	
Trichloroethene	0.0500	0.0514	mg/Kg	103	70 - 125	
Trichlorofluoromethane	0.0500	0.0551	mg/Kg	110	55 <sub>-</sub> 128	
1,2,3-Trichloropropane	0.0500	0.0607	mg/Kg	121	50 - 133	
1,2,4-Trimethylbenzene	0.0500	0.0465	mg/Kg	93	70 - 123	
1,3,5-Trimethylbenzene	0.0500	0.0471	mg/Kg	94	70 - 123	
Vinyl chloride	0.0500	0.0464	mg/Kg	93	64 - 126	

LCS LCS	
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Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane	108		75 - 120
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
Toluene-d8 (Surr)	96		75 - 120

7/30/2019

### Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP20 16-18

Date Collected: 07/17/19 18:50 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496136	07/23/19 10:02	LWN	TAL CHI

Client Sample ID: SP20 16-18

Date Collected: 07/17/19 18:50 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-1

Matrix: Solid Percent Solids: 91.4

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 13:10	JLC	TAL CHI

Client Sample ID: SP11 1-3

Date Collected: 07/17/19 17:00 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-2

**Matrix: Solid** 

Batch Dilution Batch Batch Prepared **Prep Type** Method **Factor** or Analyzed Type Run Number Analyst Lab Total/NA Analysis Moisture 496136 07/23/19 10:02 LWN TAL CHI

Client Sample ID: SP11 1-3

Date Collected: 07/17/19 17:00 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-2 Matrix: Solid

Percent Solids: 92.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 13:38	JLC	TAL CHI

Client Sample ID: SP12 8-10

Date Collected: 07/17/19 17:25

Date Received: 07/19/19 09:20

Lab Sample	ID:	500-166949-3
		Matrix: Solid

Lab Sample ID: 500-166949-4

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	Moisture		1	496136	07/23/19 10:02	LWN	TAL CHI

Client Sample ID: SP12 8-10

Date Collected: 07/17/19 17:25 Date Received: 07/19/19 09:20

: SP12 8-10 Lab Sample ID: 500-166949-3

Matrix: Solid Percent Solids: 91.7

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	5035			496278	07/17/19 17:25	WRE	TAL CHI
ı	Total/NA	Analysis	8260B		50	496533	07/25/19 14:32	JLC	TAL CHI

Client Sample ID: SP13 7-9

Date Collected: 07/17/19 17:10

Date Received: 07/19/19 09:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI

Eurofins TestAmerica, Chicago

**Matrix: Solid** 

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP13 7-9

Date Collected: 07/17/19 17:10 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-4

**Matrix: Solid** 

Matrix: Solid

**Matrix: Solid** 

Percent Solids: 92.3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 14:58	JLC	TAL CHI

Lab Sample ID: 500-166949-5 Client Sample ID: SP15 2-4

Date Collected: 07/17/19 18:05 Date Received: 07/19/19 09:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP15 2-4 Lab Sample ID: 500-166949-5

Date Collected: 07/17/19 18:05

Matrix: Solid Date Received: 07/19/19 09:20 Percent Solids: 93.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 15:26	JLC	TAL CHI

Client Sample ID: SP16 2-4 Lab Sample ID: 500-166949-6

Date Collected: 07/17/19 18:00 Date Received: 07/19/19 09:20

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed Analyst **Prep Type** Type Run Lab 496156 07/23/19 10:33 LWN TAL CHI Total/NA Analysis Moisture

Client Sample ID: SP16 2-4 Lab Sample ID: 500-166949-6

Date Collected: 07/17/19 18:00

**Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 90.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 15:53	JLC	TAL CHI

Client Sample ID: SP17 2-4 Lab Sample ID: 500-166949-7 Date Collected: 07/17/19 18:20 **Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI	

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 2-4

Date Collected: 07/17/19 18:20 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-7

**Matrix: Solid** 

**Matrix: Solid** 

Percent Solids: 85.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 16:21	JLC	TAL CHI

Lab Sample ID: 500-166949-8 Client Sample ID: SP18 2-4 **Matrix: Solid** 

Date Collected: 07/17/19 18:35

Date Received: 07/19/19 09:20

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Sample ID: 500-166949-8 Client Sample ID: SP18 2-4

Date Collected: 07/17/19 18:35

**Matrix: Solid** Date Received: 07/19/19 09:20 Percent Solids: 83.8

Batch Dilution Batch Prepared Batch **Prep Type** Method Number or Analyzed Analyst Type Run **Factor** Lab Total/NA Prep 5035 496278 07/17/19 18:35 WRE TAL CHI Total/NA 8260B 50 496533 07/25/19 16:48 JLC TAL CHI Analysis

Client Sample ID: SP19 2-4 Lab Sample ID: 500-166949-9

Date Collected: 07/17/19 18:25

Date Received: 07/19/19 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Sample ID: 500-166949-9 Client Sample ID: SP19 2-4

Date Collected: 07/17/19 18:25

**Matrix: Solid** Percent Solids: 84.9 Date Received: 07/19/19 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 17:15	JLC	TAL CHI

Client Sample ID: SP11 7-9 Lab Sample ID: 500-166949-10 Date Collected: 07/17/19 17:05 **Matrix: Solid** 

	_	Batch	Batch		Dilution	Batch	Prepared			
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
ı	Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI	

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP11 7-9

Date Collected: 07/17/19 17:05 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-10

**Matrix: Solid** 

Percent Solids: 92.5

Job ID: 500-166949-1

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	5035			496278	07/17/19 17:05	WRE	TAL CHI
ı	Total/NA	Analysis	8260B		50	496533	07/25/19 17:42	JLC	TAL CHI

Client Sample ID: SP15 8-10

Date Collected: 07/17/19 17:30 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-11

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP15 8-10

Date Collected: 07/17/19 17:30

Lab Sample ID: 500-166949-11

**Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 93.0

ı		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	5035			496278	07/17/19 17:30	WRE	TAL CHI
	Total/NA	Analysis	8260B		50	496533	07/25/19 18:09	JLC	TAL CHI

Client Sample ID: SP15 16-18

Lab Sample ID: 500-166949-12 Date Collected: 07/17/19 17:40 **Matrix: Solid** 

Date Received: 07/19/19 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Lab Sample ID: 500-166949-12 Client Sample ID: SP15 16-18

Date Collected: 07/17/19 17:40

Matrix: Solid Date Received: 07/19/19 09:20 Percent Solids: 90.7

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035		- <del></del> -	496278	07/17/19 17:40	WRE	TAL CHI	_
Total/NA	Analysis	8260B		50	496533	07/25/19 18:36	JLC	TAL CHI	

Client Sample ID: SP16 8-10 Lab Sample ID: 500-166949-13 Date Collected: 07/17/19 17:50 **Matrix: Solid** 

_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI	

Client Sample ID: SP16 8-10

Date Collected: 07/17/19 17:50 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-13

**Matrix: Solid** 

Percent Solids: 91.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 19:03	JLC	TAL CHI

Client Sample ID: SP16 16-18

Date Collected: 07/17/19 17:35 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-14

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP16 16-18

Date Collected: 07/17/19 17:35

Lab Sample ID: 500-166949-14

Lab Sample ID: 500-166949-15

**Matrix: Solid** Percent Solids: 93.1

Date Received: 07/19/19 09:20 Dilution Prenared

-		Datcii	Datcii		Dilution	Datcii	Prepareu		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
	Total/NA	Prep	5035			496278	07/17/19 17:35	WRE	TAL CHI
	Total/NA	Analysis	8260B		50	496533	07/25/19 19:30	JLC	TAL CHI

Client Sample ID: SP17 8-10

Date Collected: 07/17/19 17:45

**Matrix: Solid** Date Received: 07/19/19 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP17 8-10 Lab Sample ID: 500-166949-15

Date Collected: 07/17/19 17:45

Matrix: Solid Date Received: 07/19/19 09:20 Percent Solids: 95.1

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 17:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496533	07/25/19 19:58	JLC	TAL CHI

Client Sample ID: SP17 16-18 Lab Sample ID: 500-166949-16 Date Collected: 07/17/19 17:55 **Matrix: Solid** 

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP17 16-18

Date Collected: 07/17/19 17:55 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-16 Matrix: Solid

Percent Solids: 93.0

Batch Batch Dilution Batch **Prepared** or Analyzed Method **Prep Type** Type Run Factor Number Analyst Lab TAL CHI WRE Total/NA Prep 5035 496278 07/17/19 17:55 Total/NA Analysis 8260B 50 496764 07/26/19 11:27 EMA TAL CHI

Client Sample ID: SP18 8-10 Lab Sample ID: 500-166949-17

Date Collected: 07/17/19 18:45 Matrix: Solid

Date Received: 07/19/19 09:20

Batch **Batch** Dilution Batch **Prepared Prep Type** Type Method Run Factor Number or Analyzed **Analyst** Lab Total/NA 496156 07/23/19 10:33 LWN TAL CHI Analysis Moisture

Client Sample ID: SP18 8-10 Lab Sample ID: 500-166949-17

Date Collected: 07/17/19 18:45 **Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 94.3

Batch Dilution Batch Prepared Batch or Analyzed **Prep Type** Type Method Run **Factor** Number **Analyst** Lab Total/NA Prep 5035 07/17/19 18:45 WRE TAL CHI 496278 8260B 07/26/19 11:55 EMA TAL CHI Total/NA 50 496764 Analysis

Client Sample ID: SP18 16-18 Lab Sample ID: 500-166949-18

Date Collected: 07/17/19 18:10 **Matrix: Solid** 

Date Received: 07/19/19 09:20

Batch Batch Dilution Batch **Prepared** Method **Factor** Number or Analyzed **Prep Type** Type Run **Analyst** Lab Total/NA Analysis Moisture 496156 07/23/19 10:33 LWN TAL CHI

Client Sample ID: SP18 16-18 Lab Sample ID: 500-166949-18

Date Collected: 07/17/19 18:10 Matrix: Solid

Date Received: 07/19/19 09:20 Percent Solids: 84.4

Batch Batch Dilution Batch Prepared **Prep Type** Method Run Number or Analyzed Type **Factor** Analyst Lab Total/NA 5035 WRE TAL CHI Prep 496278 07/17/19 18:10 Total/NA Analysis 8260B 50 496764 07/26/19 12:22 EMA TAL CHI

Client Sample ID: SP19 8-10 Lab Sample ID: 500-166949-19

Date Collected: 07/17/19 18:55 **Matrix: Solid** Date Received: 07/19/19 09:20

Batch Dilution Batch Ratch **Prepared** Prep Type Method **Factor** Number or Analyzed **Analyst** Type Run Lab TAL CHI Total/NA Analysis Moisture 496156 07/23/19 10:33 LWN

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP19 8-10

Date Collected: 07/17/19 18:55 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-19

**Matrix: Solid** 

Percent Solids: 82.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 12:50	EMA	TAL CHI

Client Sample ID: SP19 16-18

Date Collected: 07/17/19 18:15 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-20

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP19 16-18

Date Collected: 07/17/19 18:15

Lab Sample ID: 500-166949-20

**Matrix: Solid** 

Date Received: 07/19/19 09:20 Percent Solids: 93.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496278	07/17/19 18:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 13:17	EMA	TAL CHI

Client Sample ID: SP22 8-10

Date Collected: 07/17/19 17:10 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-21

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	496156	07/23/19 10:33	LWN	TAL CHI

Client Sample ID: SP22 8-10

Date Collected: 07/17/19 17:10

Lab Sample ID: 500-166949-21

Matrix: Solid

Date Received: 07/19/19 09:20 Percent Solids: 93.7

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 17:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 13:44	EMA	TAL CHI

Client Sample ID: SP23 16-18

Date Collected: 07/17/19 18:40 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-22

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	Moisture			496156	07/23/19 10:33	LWN	TAL CHI	

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP23 16-18

Date Collected: 07/17/19 18:40 Date Received: 07/19/19 09:20

Date Collected: 07/17/19 19:05

Lab Sample ID: 500-166949-22 Matrix: Solid

Percent Solids: 84.5

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run Factor Number Analyst Lab TAL CHI WRE Total/NA Prep 5035 496279 07/17/19 18:40 Total/NA Analysis 8260B 50 496764 07/26/19 14:11 EMA TAL CHI

Client Sample ID: SP24 2-4

Lab Sample ID: 500-166949-23

Lab

WRE

EMA

07/17/19 19:20

07/26/19 15:04

TAL CHI

TAL CHI

Matrix: Solid

Date Received: 07/19/19 09:20 Batch **Batch** Dilution Batch **Prepared Prep Type** Type Method Run Factor Number or Analyzed **Analyst** 

Total/NA 496156 07/23/19 10:33 LWN TAL CHI Analysis Moisture

Client Sample ID: SP24 2-4 Lab Sample ID: 500-166949-23

Date Collected: 07/17/19 19:05 Matrix: Solid Date Received: 07/19/19 09:20 Percent Solids: 86.0

Batch Dilution Batch Prepared Batch Method or Analyzed **Prep Type** Type Run **Factor** Number **Analyst** Lab Total/NA Prep 5035 07/17/19 19:05 WRE TAL CHI 496279 8260B 50 07/26/19 14:38 EMA TAL CHI Total/NA 496764 Analysis

Client Sample ID: SP24 8-10 Lab Sample ID: 500-166949-24

Date Collected: 07/17/19 19:20 **Matrix: Solid** 

Date Received: 07/19/19 09:20

Batch Batch Dilution Batch Prepared Method Number Type **Factor** or Analyzed **Prep Type** Run **Analyst** Lab Total/NA Analysis Moisture 496172 07/23/19 11:30 LWN TAL CHI

Client Sample ID: SP24 8-10 Lab Sample ID: 500-166949-24

Date Collected: 07/17/19 19:20 Matrix: Solid Date Received: 07/19/19 09:20 Percent Solids: 84.1

Batch Batch Dilution Batch Prepared **Prep Type** Method Run Number or Analyzed Type **Factor** Analyst Lab

50 Client Sample ID: SP25 8-10 Lab Sample ID: 500-166949-25

496279

496764

Date Collected: 07/17/19 19:00 Date Received: 07/19/19 09:20

Prep

Analysis

5035

8260B

Total/NA

Total/NA

Batch Ratch Dilution Batch **Prepared** Prep Type Method **Factor** Number or Analyzed **Analyst** Type Run Lab TAL CHI Total/NA Analysis Moisture 496172 07/23/19 11:30 LWN

Eurofins TestAmerica, Chicago

**Matrix: Solid** 

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP25 8-10

Date Collected: 07/17/19 19:00 Date Received: 07/19/19 09:20 Lab Sample ID: 500-166949-25

**Matrix: Solid** 

Percent Solids: 83.9

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 16:52	EMA	TAL CHI

Client Sample ID: SP26 2-4

Date Collected: 07/17/19 19:10 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-26

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496172	07/23/19 11:30	LWN	TAL CHI

Client Sample ID: SP26 2-4

Date Collected: 07/17/19 19:10 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-26

**Matrix: Solid** Percent Solids: 85.6

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 15:31	EMA	TAL CHI

Client Sample ID: SP27 2-4

Date Collected: 07/17/19 19:15

Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-27

**Matrix: Solid** 

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
ı	Total/NA	Analysis	Moisture		1	496172	07/23/19 11:30	LWN	TAL CHI

Client Sample ID: SP27 2-4

Date Collected: 07/17/19 19:15

Lab Sample ID: 500-166949-27

Matrix: Solid

Date Received: 07/19/19 09:20 Percent Solids: 94.5

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			496279	07/17/19 19:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	496764	07/26/19 15:58	EMA	TAL CHI

Client Sample ID: SP21 16-18

Date Collected: 07/17/19 18:30 Date Received: 07/19/19 09:20

Lab Sample ID: 500-166949-28

**Matrix: Solid** 

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture			496172	07/23/19 11:30	LWN	TAL CHI

### **Lab Chronicle**

Client: Key Engineering Group, Ltd. Job ID: 500-166949-1

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Client Sample ID: SP21 16-18 Lab Sample ID: 500-166949-28

Date Collected: 07/17/19 18:30

Matrix: Solid
Peter Received: 07/19/19 09:30

Date Received: 07/19/19 09:20 Percent Solids: 87.1

ı		Batch	Batch		Dilution	Batch	Prepared		
l	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Prep	5035			496279	07/17/19 18:30	WRE	TAL CHI
	Total/NA	Analysis	8260B		50	496764	07/26/19 16:25	EMA	TAL CHI

### **Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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### **Accreditation/Certification Summary**

Client: Key Engineering Group, Ltd.

Project/Site: 1681 N. Van Buren - 1604-1011-00002

Job ID: 500-166949-1

### Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

	Authority	Program	<b>EPA</b> Region	Identification Number	<b>Expiration Date</b>
ı	Wisconsin	State Program	5	999580010	08-31-19 *

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

<u>TestAme</u>	<u>rica</u>		(option	ioen .		Bill To		(optional)				of Custody Record
THE LEADER IN ENVIRONMEN	TAI avanaana	Company: Ker	1 Ensi	neerin	<del>5, 11</del>	Company: _	- Sa	mo_			Lab Job	# 900-100149
2417 Bond Street, University Park,		Address:/_	5 N. L	Dater	St."510	Address:					Chain of	f Custody Number:
Phone: 708.534.5200 Fax: 70	B.534	Address: MIC	sankee	, W 5	302	Address:						1 of 3
	براد به میکنید. ا		1.225.	0594	<del></del>	Phone:					Page	
	500-166949 COC	Fax:E-Mail: 13000	na ka	0.0 - 1.000		Fax:	<u></u>	9446	4		Tempera	ature °C of Cooler:
Client.	Client Project #	E-Mail: 1500	Preservative		I WE EX GV	PO#/Refere	nce#	1110	<del></del>			Preservative Key
Key Engineering Project Name	1604-1011-	0002	1100011441110	9								1. HCL, Cool to 4° 2. H2SO4, Cool to 4°
Project Name 1681 N. Van Burer	1 <i>~</i> L		Parameter									3. HNO3, Cool to 4°
Project Location/State	Lab Project #		_									4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4°
Project Location/State Milwauler W/	add 1 Tojout II			10								6. NaHSO4 7. Cool to 4°
Sampler Joson Drews	Lab PM			(3)								8. None 9. Other MeO H
		•	ω .	10Cs								9. Other Med 17
DI Sample ID		Sampling	# of Containers Matrix	>								
Sample ID		ate Time	# of Contair Matrix			-						Comments
1 5P20 16-18	17	719 6150pm	25									
2 SP11 1-3		719 5:00pm										
4		17/1951257							-			
1/1 60	18-10 7	7/95/10,00										
4 5813 79	1.11	47/7 3110 pr										
SP14 8-10						***************************************						
5 SP15 2-4	790	7/19 6105p	h									
6 SP16 2-4	7/	7/9 6:0071										
6 SP16 2-4 7 SP17 2-4	#	7/19 6:2071	,		ļ							.:
7 3 1	7/2	- late 1:3500					-					
/\		All all the										
9 SP19 2.4	7/	ALL RISOLIL										
( Turnaround Time Required (Business Days)	,		Sample Dispo	osal								
1 Day 2 Days 5 Days 7 [ Requested Due Date	Days10 Days 15 Days	Other		n to Client	Disp	osal by Lab	Archi	ve for	Months	(A fee may l	e assessed if samples	are retained longer than 1 month)
Relinquished By Compan	Data L	all d	ime	Received By	7		ompany		Date		Time	
Sompario de la companio del companio de la companio del companio de la companio della companio de la companio della companio d	41	8//4	iii l <del>o</del>	Theceived By	enti	L AL.	TA		7-18-1	9,	13:50	Lab Courier
Reincrashed Sy Company	y Date 7.18	2.10)	ime 7 <i>0</i> 0	Received 8	الم الم	1 nth	ompany	C DD+	-Date //	a 110	0920	Shipped Dad
Relinquished By Compan			ime	Received By	wy		ompany	UU	Date (	<del>1 / 1 1</del>	Time	720
												Hand Delivered
Matrix Key WW - Wastewater SE - Sediment	Client Comments							ab Comment	S;			
W – Water SO – Soil L – Leachate												
SL - Sludge WI - Wipe												
MS – Miscellaneous DW – Drinking V OL – Oil O – Other	Vater											
A – Air												

TAL-41247603672019

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				_	_

### THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484 Phone: 708.534.5200 Fax: 708.534.5211

	(optional)	(optional)				
	Report To	Bíll To				
	Contact: Toni Schoen	Contact:				
	Company: Key Engineering	Company:Sanl				
	Address: 735 N. Water St #516	Address:				
	Address: MIlwaulue, WI 53202 Phone: 414, 225, 0594	Address:				
	Phone: 414. 225.0594	Phone:				
	Fax:	Fax:				
	E-Mail: ts/hoen@ keyenginearingco	#64/Reference#				
_	Preservative 9					

# Chain of Custody Record Lab Job #: 508-166 949

Chain of Custody Number:	
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Page	2	of	3

	Phone: 1/17:2	<u> </u>	Phone:		Page	of
	Fax:		Fax:			
	E-Mail: +3/hoen@	keyengir	189113CAMON/Reference	194469	Tempera	ture °C of Cooler:
Client Project # 1604-1011-00		ervative 9				Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4°
1681 N. Van Buren St	Para	meter				3. HNO3, Cool to 4° 4. NaOH, Cool to 4°
Project Location/State Lab Project #		3				5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4°
Sampler Lab PM						8. None 9. Other AROH
Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Sampling Sampling Sampling	Matrix 7				Comments
	7/19 5 105pm 2	3				Comments
1 3PIS 8-10	5130 pm					
D SPIN 79 7/15  J SPIS 8-10  SPIS (16-18)  SPIS (16-18)  SPIS (16-18)  SPIR 8-10  SPIR (16-18)  SPIR (16-18)  SPIR (16-18)  SPIR 8-10	Tiyopm					
3 SP16 8-10 4 SP16 (16-18)	5135m					
5 SPIN 8-10.	Jivon					
6 SP17 (16-18)	J:557m					
5P18 8.10 5P18 (16-18)	6145 pm					
5P18 (16-18) 9 SP19 8-10	6:10pm					
Irnaround Time Required (Business Days)		le Disposal	1 1			
1 Day 2 Days 5 Days 7 Days 10 Days 15 Days equested Due Date	Other	Return to Client	Disposal by Lab	Archive for Months	(A fee may be assessed if samples	are retained longer than 1 month)
Juguts (Paid 8)	//a Time	Received B	anen Comp	any A 7-18	19, 1350	Lab Courier
elingdished by Company Date 7. 18		Received B	Mus feating	ACUTE Date	19/19 18920	Shipped Feed X
	Time	Heceived 5	у сопр	Lab Commenter	Time	Hand Delivered
Matrix Key  W – Wastewater SE – SedIment - Water SO – Soil - Soil L – Leachate - Sludge Wi – Wipe S – Miscellaneous DW – Drinking Water	·			Lab Comments:		
L – Oil O – Other – Air						

THE LEADER IN ENVIRONMENTAL TESTING  2417 Bond Street, University Park, IL 60484 Phone: 708.534.5200 Fax: 708.534.5211	Contact: Tan 1 Schoen Company: Key Engineering Address: 735 N. Water \$7 \text{#570} Address: Milwaukee W1 53202 A	(optional)  Bill To  Contact:  Company:  Address:  Phone:	Chain of Custody Record  Lab Job #: _500-166949  Chain of Custody Number:  Page
		ax:	Temperature °C of Cooler:
Client Project #  Key Engineering Client Project #  1604-1011-000  roject Name  1681 N. Van Buren st  roject Location/State  Milwaukee, WI  ampler Jason Orews  Sample ID  Date  PO SP22 + + + *  SP24 2-4  SP24 8-10	Sampling  Time  Ti	### ### ### ### ### ### ### ### ### ##	Preservative Key  1. HCL, Cool to 4°  2. H2SO4, Cool to 4°  3. HNO3, Cool to 4°  4. NaOH, Cool to 4°  5. NaOH/Zn, Cool to 4°  6. NaHSO4  7. Cool to 4°  8. None  9. Other Meath  Comments
	7:00pm		
6 SP26 2-4 7 SP27 2-4 8 SP21 (16-18)	7-11574		
Prinaround Time Required (Business Days)  1 Day 2 Days 5 Days 7 Days 10 Days 15 Days  Prinquished By Company Date    Date   Company Date   Co	Time Passive D	Archive for Months (A fee may 7-18-19 Date Company Date Lab Comments:	y be assessed if samples are retained longer than 1 month)  Time 1350 Lab Courier Shipped Hand Delivered
- Soil       L - Leachate         L - Sludge       WI - Wipe         S - Miscellaneous       DW - Drinking Water         L - Oil       O - Other         - Air	Page 98	of 99	TAL-41 <b>2/33</b> Q(/25) 1

Job Number: 500-166949-1

Login Number: 166949

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Creator: Scott, Sherri L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Appendix 6 Key Engineering Group, Ltd.





May 06, 2019

Toni Schoen Key Engineering 735 N. Water St. Milwaukee, WI 53202

RE: Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

### Dear Toni Schoen:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kirsten Hogberg

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kirsten.hogberg@pacelabs.com

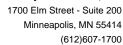
(612)607-1700

Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee Kristina Monteleone, Key Engineering Group







### **CERTIFICATIONS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

**Minnesota Certification IDs** 

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256

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

053-137

Florida Certification #: E87605 Georgia Certification #: 959

Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064 Maine Certification #: MN00064 Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647

North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163

Washington Certification #: C486 West Virginia DEP Certification #: 382 West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01



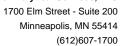


### **SAMPLE SUMMARY**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
10472767001	IA-1	Air	04/27/19 18:00	04/30/19 10:45	
10472767002	VP-1	Air	04/27/19 18:55	04/30/19 10:45	
10472767003	VP-2	Air	04/27/19 19:02	04/30/19 10:45	
10472767004	VP-3	Air	04/27/19 19:09	04/30/19 10:45	
10472767005	VP-4	Air	04/27/19 19:17	04/30/19 10:45	





### **SAMPLE ANALYTE COUNT**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10472767001	IA-1	TO-15	CH1	61	PASI-M
10472767002	VP-1	TO-15	CH1	61	PASI-M
10472767003	VP-2	TO-15	CH1	61	PASI-M
10472767004	VP-3	TO-15	CH1	61	PASI-M
10472767005	VP-4	TO-15	CH1	61	PASI-M



### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

Sample: IA-1 Lab ID: 10472767001 Collected: 04/27/19 18:00 Received: 04/30/19 10:45 Matrix: Air LOQ DF Results Units LOD Prepared CAS No. **Parameters** Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 40200 ug/m3 98.3 49.4 40.8 05/03/19 14:15 67-64-1 Е Acetone Benzene <0.21 ug/m3 0.44 0.21 1.36 05/02/19 22:21 71-43-2 Benzyl chloride <1.6 ug/m3 3.6 1.6 1.36 05/02/19 22:21 100-44-7 Bromodichloromethane <0.50 ug/m3 1.8 0.50 1.36 05/02/19 22:21 75-27-4 05/02/19 22:21 75-25-2 Bromoform <1.9 ug/m3 7 1 19 1.36 <0.31 ug/m3 0.31 1.36 05/02/19 22:21 74-83-9 Bromomethane 1.1 <0.17 ug/m3 0.61 0.17 1.36 05/02/19 22:21 106-99-0 1,3-Butadiene 2-Butanone (MEK) 802 ug/m3 122 15.1 40.8 05/03/19 14:15 78-93-3 Carbon disulfide < 0.30 ug/m3 0.86 0.30 1.36 05/02/19 22:21 75-15-0 Carbon tetrachloride <0.58 ug/m3 1.7 0.58 1.36 05/02/19 22:21 56-23-5 Chlorobenzene < 0.37 ug/m3 1.3 0.37 1.36 05/02/19 22:21 108-90-7 Chloroethane < 0.35 ug/m3 0.73 0.35 1.36 05/02/19 22:21 75-00-3 Chloroform 4.1 ug/m3 0.67 0.27 1.36 05/02/19 22:21 67-66-3 Chloromethane <0.21 ug/m3 0.57 0.21 1.36 05/02/19 22:21 74-87-3 ug/m3 Cyclohexane <0.48 2.4 0.48 1.36 05/02/19 22:21 110-82-7 Dibromochloromethane <0.98 ug/m3 2.4 0.98 1.36 05/02/19 22:21 124-48-1 1,2-Dibromoethane (EDB) < 0.50 ug/m3 0.50 1.36 05/02/19 22:21 106-93-4 2.1 1,2-Dichlorobenzene < 0.68 ug/m3 1.7 0.68 1.36 05/02/19 22:21 95-50-1 ug/m3 0.79 1.36 05/02/19 22:21 541-73-1 1,3-Dichlorobenzene < 0.79 1.7 1,4-Dichlorobenzene <1.4 ug/m3 4.2 1.4 1.36 05/02/19 22:21 106-46-7 Dichlorodifluoromethane 3.0 ug/m3 1.4 0.40 1.36 05/02/19 22:21 75-71-8 1,1-Dichloroethane <0.31 ug/m3 0.31 1.36 05/02/19 22:21 75-34-3 1.1 1,2-Dichloroethane <0.20 ug/m3 0.56 0.20 1.36 05/02/19 22:21 107-06-2 1,1-Dichloroethene < 0.37 ug/m3 1.1 0.37 1.36 05/02/19 22:21 75-35-4 cis-1,2-Dichloroethene <0.30 ug/m3 1.1 0.30 1.36 05/02/19 22:21 156-59-2 trans-1,2-Dichloroethene < 0.39 ug/m3 1.1 0.39 1.36 05/02/19 22:21 156-60-5 05/02/19 22:21 78-87-5 1,2-Dichloropropane <0.31 ug/m3 1.3 0.31 1.36 < 0.41 ug/m3 1.3 0.41 1.36 05/02/19 22:21 10061-01-5 cis-1,3-Dichloropropene <0.60 ug/m3 0.60 10061-02-6 trans-1,3-Dichloropropene 1.3 1.36 05/02/19 22:21 <0.59 ug/m3 76-14-2 Dichlorotetrafluoroethane 1.9 0.59 1.36 05/02/19 22:21 ug/m3 78.3 Ethanol 1240 33.1 40.8 05/03/19 14:15 64-17-5 Ethyl acetate 2880 ug/m3 29.9 7.8 40.8 05/03/19 14:15 141-78-6 Ethylbenzene 1.8 ug/m3 1.2 0.41 1.36 05/02/19 22:21 100-41-4 4-Ethyltoluene <0.78 ug/m3 3.4 0.78 1.36 05/02/19 22:21 622-96-8 n-Heptane <0.52 ug/m3 1.1 0.52 1.36 05/02/19 22:21 142-82-5 Hexachloro-1.3-butadiene <2.7 ug/m3 7.4 2.7 1.36 05/02/19 22:21 87-68-3 ug/m3 0.97 1.36 n-Hexane 119 0.4205/02/19 22:21 110-54-3 ug/m3 CH 2-Hexanone 1.1J 5.7 1.0 1.36 05/02/19 22:21 591-78-6 13.4 ug/m3 4.8 1.36 05/02/19 22:21 75-09-2 Methylene Chloride 1.3 05/02/19 22:21 108-10-1 4-Methyl-2-pentanone (MIBK) 11.0 ug/m3 5.7 0.70 1.36 Methyl-tert-butyl ether < 0.90 ug/m3 5.0 0.90 1.36 05/02/19 22:21 1634-04-4 Naphthalene <1.8 ug/m3 3.6 1.8 1.36 05/02/19 22:21 91-20-3 2-Propanol 9490 ug/m3 102 28.4 40.8 05/03/19 14:15 67-63-0 Propylene <0.19 ug/m3 0.48 0.19 1.36 05/02/19 22:21 115-07-1 ug/m3 Styrene 3.5 1.2 0.47 1.36 05/02/19 22:21 100-42-5 1,1,2,2-Tetrachloroethane < 0.40 ug/m3 0.95 0.40 1.36 05/02/19 22:21 79-34-5



### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

Sample: IA-1	Lab ID:	10472767001	Collected	Collected: 04/27/19 18:00			Received: 04/30/19 10:45 Matrix: Air			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical	Method: TO-15								
Tetrachloroethene	72.9	ug/m3	56.3	12.8	40.8		05/03/19 14:15	127-18-4		
Tetrahydrofuran	< 0.35	ug/m3	0.82	0.35	1.36		05/02/19 22:21	109-99-9		
Toluene	18.0	ug/m3	1.0	0.48	1.36		05/02/19 22:21	108-88-3		
1,2,4-Trichlorobenzene	<5.1	ug/m3	10.3	5.1	1.36		05/02/19 22:21	120-82-1		
1,1,1-Trichloroethane	<0.42	ug/m3	1.5	0.42	1.36		05/02/19 22:21	71-55-6		
1,1,2-Trichloroethane	< 0.34	ug/m3	1.5	0.34	1.36		05/02/19 22:21	79-00-5		
Trichloroethene	< 0.35	ug/m3	0.74	0.35	1.36		05/02/19 22:21	79-01-6		
Trichlorofluoromethane	<0.50	ug/m3	1.6	0.50	1.36		05/02/19 22:21	75-69-4		
1,1,2-Trichlorotrifluoroethane	<0.77	ug/m3	2.1	0.77	1.36		05/02/19 22:21	76-13-1		
1,2,4-Trimethylbenzene	4.6	ug/m3	1.4	0.61	1.36		05/02/19 22:21	95-63-6		
1,3,5-Trimethylbenzene	1.7	ug/m3	1.4	0.54	1.36		05/02/19 22:21	108-67-8		
Vinyl acetate	<0.37	ug/m3	2.4	0.37	1.36		05/02/19 22:21	108-05-4		
Vinyl chloride	<0.17	ug/m3	0.35	0.17	1.36		05/02/19 22:21	75-01-4		
m&p-Xylene	4.1	ug/m3	2.4	0.95	1.36		05/02/19 22:21	179601-23-1		
o-Xylene	1.7	ug/m3	1.2	0.47	1.36		05/02/19 22:21	95-47-6		
Sample: VP-1	Lab ID:	10472767002	Collected	d: 04/27/19	9 18:55	Received: 04	l/30/19 10:45 Ma	atrix: Air		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
TO15 MSV AIR	Analytical	Method: TO-15	,				,			
Acetone	1340	ug/m3	4.3	2.2	1.79		05/02/19 22:49	67-64-1	E	
Benzene	3.0	ug/m3	0.58	0.27	1.79		05/02/19 22:49	71-43-2		
Benzyl chloride	<2.1	ug/m3	4.7	2.1	1.79		05/02/19 22:49			
							03/02/13 22.43			
•		Ū		0.66	1.79					
Bromodichloromethane	<0.66	ug/m3	2.4	0.66 2.5	1.79 1.79		05/02/19 22:49	75-27-4		
Bromodichloromethane Bromoform	<0.66 <2.5	ug/m3 ug/m3	2.4 9.4	2.5	1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2		
Bromodichloromethane Bromoform Bromomethane	<0.66 <2.5 <0.41	ug/m3 ug/m3 ug/m3	2.4 9.4 1.4	2.5 0.41	1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene	<0.66 <2.5 <0.41 <0.23	ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81	2.5 0.41 0.23	1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	<0.66 <2.5 <0.41 <0.23 20.3	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4	2.5 0.41 0.23 0.66	1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	<0.66 <2.5 <0.41 <0.23 20.3 <0.39	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1	2.5 0.41 0.23 0.66 0.39	1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3	2.5 0.41 0.23 0.66 0.39 0.77	1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	<0.66 <2.5 <0.41 <0.23 20.3 <0.39	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7	2.5 0.41 0.23 0.66 0.39	1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3	2.5 0.41 0.23 0.66 0.39 0.77 0.49	1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47	1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB)	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3 <0.66	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1 2.8	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3 <0.66 <0.89	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1 2.8 2.2	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3 0.66 0.89	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3 <0.66 <0.89 <1.0	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1 2.8 2.2	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3 0.66 0.89 1.0	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3 <0.66 <0.89 <1.0 <1.8	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1 2.8 2.2 2.2 5.5	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3 0.66 0.89 1.0	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1 106-46-7		
Bromodichloromethane Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	<0.66 <2.5 <0.41 <0.23 20.3 <0.39 <0.77 <0.49 <0.47 3.8 <0.28 <0.63 <1.3 <0.66 <0.89 <1.0	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.4 1.4 0.81 5.4 1.1 2.3 1.7 0.96 0.89 0.75 3.1 3.1 2.8 2.2	2.5 0.41 0.23 0.66 0.39 0.77 0.49 0.47 0.35 0.28 0.63 1.3 0.66 0.89 1.0	1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79		05/02/19 22:49 05/02/19 22:49	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1 106-46-7 75-71-8		

(612)607-1700



### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

o-Xylene

Date: 05/06/2019 11:07 AM

Sample: VP-1 Lab ID: 10472767002 Collected: 04/27/19 18:55 Received: 04/30/19 10:45 Matrix: Air LOQ DF Results Units LOD Prepared CAS No. **Parameters** Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 1,1-Dichloroethene <0.49 ug/m3 1.4 0.49 1.79 05/02/19 22:49 75-35-4 0.39 05/02/19 22:49 156-59-2 cis-1,2-Dichloroethene <0.39 ug/m3 1.4 1.79 trans-1,2-Dichloroethene < 0.51 ug/m3 1.4 0.51 1.79 05/02/19 22:49 156-60-5 1,2-Dichloropropane < 0.41 ug/m3 1.7 0.41 1.79 05/02/19 22:49 78-87-5 1.79 05/02/19 22:49 10061-01-5 cis-1,3-Dichloropropene < 0.54 ug/m3 1.7 0.54 trans-1,3-Dichloropropene <0.79 ug/m3 0.79 1.79 05/02/19 22:49 10061-02-6 1.7 Dichlorotetrafluoroethane <0.78 ug/m3 2.5 0.78 1.79 05/02/19 22:49 76-14-2 **Ethanol** 326 ug/m3 3.4 1.5 1.79 05/02/19 22:49 64-17-5 05/02/19 22:49 141-78-6 Ethyl acetate 27.0 ug/m3 1.3 0.34 1.79 Ethylbenzene 7.1 ug/m3 1.6 0.55 1.79 05/02/19 22:49 100-41-4 4-Ethyltoluene 2.9J ug/m3 4.5 1.0 1.79 05/02/19 22:49 622-96-8 ug/m3 0.68 n-Heptane 6.0 1.5 1.79 05/02/19 22:49 142-82-5 Hexachloro-1,3-butadiene <3.5 ug/m3 9.7 3.5 1.79 05/02/19 22:49 87-68-3 n-Hexane 7.8 ug/m3 1.3 0.56 1.79 05/02/19 22:49 110-54-3 <1.3 ug/m3 7.4 1.3 1.79 05/02/19 22:49 591-78-6 2-Hexanone Methylene Chloride 8.2 ug/m3 6.3 1.7 1.79 05/02/19 22:49 75-09-2 05/02/19 22:49 108-10-1 4-Methyl-2-pentanone (MIBK) 5.7J ug/m3 7.4 0.93 1.79 <1.2 05/02/19 22:49 1634-04-4 Methyl-tert-butyl ether ug/m3 6.6 1.2 1.79 Naphthalene <2.4 ug/m3 2.4 1.79 05/02/19 22:49 91-20-3 4.8 388 2-Propanol ug/m3 4.5 1.2 1.79 05/02/19 22:49 67-63-0 Propylene <0.26 ug/m3 0.63 0.26 1.79 05/02/19 22:49 115-07-1 Styrene <0.62 ug/m3 0.62 1.79 05/02/19 22:49 100-42-5 1.6 1,1,2,2-Tetrachloroethane <0.52 ug/m3 0.52 1.79 05/02/19 22:49 79-34-5 1.2 Tetrachloroethene 287 ug/m3 2.5 0.56 1.79 05/03/19 11:54 127-18-4 Tetrahydrofuran 6.3 ug/m3 1.1 0.47 1.79 05/02/19 22:49 109-99-9 Toluene 11.3 ug/m3 0.63 1.79 05/02/19 22:49 108-88-3 1.4 1,2,4-Trichlorobenzene <6.7 ug/m3 13.5 6.7 1.79 05/02/19 22:49 120-82-1 1,1,1-Trichloroethane 1.8J ug/m3 2.0 0.55 1.79 05/02/19 22:49 71-55-6 <0.45 ug/m3 1.79 05/02/19 22:49 79-00-5 1,1,2-Trichloroethane 2.0 0.45 23.6 ug/m3 0.98 05/02/19 22:49 79-01-6 Trichloroethene 0.46 1.79 ug/m3 Trichlorofluoromethane 1.4J 2.0 0.66 1.79 05/02/19 22:49 75-69-4 1,1,2-Trichlorotrifluoroethane <1.0 ug/m3 2.8 1.0 1.79 05/02/19 22:49 76-13-1 1,2,4-Trimethylbenzene 11.0 ug/m3 1.8 0.81 1.79 05/02/19 22:49 95-63-6 1,3,5-Trimethylbenzene 3.6 ug/m3 1.8 0.71 1.79 05/02/19 22:49 108-67-8 ug/m3 Vinyl acetate <0.48 3.2 0.48 1.79 05/02/19 22:49 108-05-4 Vinyl chloride < 0.23 ug/m3 0.47 0.23 1.79 05/02/19 22:49 75-01-4 17.4 ug/m3 3.2 m&p-Xylene 1.3 1 79 05/02/19 22:49 179601-23-1

### **REPORT OF LABORATORY ANALYSIS**

1.6

0.62

1.79

ug/m3

7.1

05/02/19 22:49 95-47-6

Matrix: Air

(612)607-1700



### **ANALYTICAL RESULTS**

Collected: 04/27/19 19:02

Received: 04/30/19 10:45

Lab ID: 10472767003

<1.2

<2.4

239

<0.26

<0.62

<0.52

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

ug/m3

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Sample: VP-2

Methyl-tert-butyl ether

1,1,2,2-Tetrachloroethane

Date: 05/06/2019 11:07 AM

Naphthalene

2-Propanol

Propylene

Styrene

LOQ DF Results Units LOD Prepared CAS No. **Parameters** Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 1780 ug/m3 43.1 17.9 05/03/19 13:49 67-64-1 Acetone 21.7 Benzene 2.8 ug/m3 0.58 0.27 1.79 05/02/19 23:18 71-43-2 Benzyl chloride <2.1 ug/m3 4.7 2.1 1.79 05/02/19 23:18 100-44-7 Bromodichloromethane <0.66 ug/m3 2.4 0.66 1.79 05/02/19 23:18 75-27-4 05/02/19 23:18 75-25-2 Bromoform <2.5 ug/m3 9.4 2.5 1.79 <0.41 1.79 05/02/19 23:18 74-83-9 Bromomethane ug/m3 1.4 0.41 <0.23 ug/m3 0.81 0.23 1.79 05/02/19 23:18 106-99-0 1,3-Butadiene 2-Butanone (MEK) 65.2 ug/m3 5.4 0.66 1.79 05/02/19 23:18 78-93-3 Carbon disulfide 2.3 ug/m3 1.1 0.39 1.79 05/02/19 23:18 75-15-0 Carbon tetrachloride < 0.77 ug/m3 2.3 0.77 1.79 05/02/19 23:18 56-23-5 Chlorobenzene < 0.49 ug/m3 1.7 0.49 1.79 05/02/19 23:18 108-90-7 0.96 Chloroethane < 0.47 ug/m3 0.47 1.79 05/02/19 23:18 75-00-3 Chloroform 2.4 ug/m3 0.89 0.35 1.79 05/02/19 23:18 67-66-3 Chloromethane <0.28 ug/m3 0.75 0.28 1.79 05/02/19 23:18 74-87-3 Cyclohexane ug/m3 0.63 1.79 05/02/19 23:18 110-82-7 7.6 3.1 Dibromochloromethane <1.3 ug/m3 1.3 1.79 05/02/19 23:18 124-48-1 3.1 1,2-Dibromoethane (EDB) < 0.66 ug/m3 2.8 0.66 1.79 05/02/19 23:18 106-93-4 1,2-Dichlorobenzene < 0.89 ug/m3 2.2 0.89 1.79 05/02/19 23:18 95-50-1 05/02/19 23:18 541-73-1 1,3-Dichlorobenzene <1.0 ug/m3 2.2 1.0 1.79 1,4-Dichlorobenzene <1.8 ug/m3 5.5 1.8 1.79 05/02/19 23:18 106-46-7 Dichlorodifluoromethane 2.4 ug/m3 1.8 0.52 1.79 05/02/19 23:18 75-71-8 1,1-Dichloroethane <0.40 ug/m3 0.40 1.79 05/02/19 23:18 75-34-3 1.5 1,2-Dichloroethane <0.27 ug/m3 0.74 0.27 1.79 05/02/19 23:18 107-06-2 1,1-Dichloroethene < 0.49 ug/m3 1.4 0.49 1.79 05/02/19 23:18 75-35-4 cis-1,2-Dichloroethene <0.39 ug/m3 1.4 0.39 1.79 05/02/19 23:18 156-59-2 trans-1,2-Dichloroethene <0.51 ug/m3 1.4 0.51 1.79 05/02/19 23:18 156-60-5 05/02/19 23:18 78-87-5 1,2-Dichloropropane <0.41 ug/m3 1.7 0.41 1.79 <0.54 ug/m3 1.7 0.54 1.79 05/02/19 23:18 10061-01-5 cis-1,3-Dichloropropene <0.79 ug/m3 0.79 1.79 05/02/19 23:18 10061-02-6 trans-1,3-Dichloropropene 1.7 <0.78 ug/m3 2.5 05/02/19 23:18 76-14-2 Dichlorotetrafluoroethane 0.78 1.79 Ethanol 97.2 ug/m3 3.4 1.5 1.79 05/02/19 23:18 64-17-5 Ethyl acetate 28.4 ug/m3 1.3 0.34 1.79 05/02/19 23:18 141-78-6 Ethylbenzene 5.7 ug/m3 1.6 0.55 1.79 05/02/19 23:18 100-41-4 4-Ethyltoluene 4.0J ug/m3 4.5 1.0 1.79 05/02/19 23:18 622-96-8 n-Heptane 6.8 ug/m3 1.5 0.68 1.79 05/02/19 23:18 142-82-5 Hexachloro-1.3-butadiene <3.5 ug/m3 9.7 3.5 1.79 05/02/19 23:18 87-68-3 10.5 ug/m3 0.56 n-Hexane 1.3 1 79 05/02/19 23:18 110-54-3 1.5J 7.4 CH 2-Hexanone ug/m3 1.3 1.79 05/02/19 23:18 591-78-6 05/02/19 23:18 75-09-2 11.5 ug/m3 6.3 1.79 Methylene Chloride 1.7 1.79 05/02/19 23:18 108-10-1 4-Methyl-2-pentanone (MIBK) 2.0J ug/m3 7.4 0.93

### REPORT OF LABORATORY ANALYSIS

6.6

4.8

4.5

0.63

1.6

1.2

1.2

2.4

1.2

0.26

0.62

0.52

1.79

1.79

1.79

1.79

1.79

1.79

05/02/19 23:18 1634-04-4

05/02/19 23:18 91-20-3

05/02/19 23:18 67-63-0

05/02/19 23:18 115-07-1

05/02/19 23:18 100-42-5

05/02/19 23:18 79-34-5



### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

Sample: VP-2	Lab ID:	10472767003	Collecte	<b>Lab ID: 10472767003</b> Collected: 04/27/19 19:02 Received: 04/30/19 1					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytica	Method: TO-15							
Tetrachloroethene	221	ug/m3	2.5	0.56	1.79		05/03/19 13:21	127-18-4	
Tetrahydrofuran	266	ug/m3	10.7	4.7	17.9		05/03/19 13:49	109-99-9	
Toluene	10.2	ug/m3	1.4	0.63	1.79		05/02/19 23:18	108-88-3	
1,2,4-Trichlorobenzene	<6.7	ug/m3	13.5	6.7	1.79		05/02/19 23:18	120-82-1	
1,1,1-Trichloroethane	4.7	ug/m3	2.0	0.55	1.79		05/02/19 23:18	71-55-6	
1,1,2-Trichloroethane	<0.45	ug/m3	2.0	0.45	1.79		05/02/19 23:18	79-00-5	
Trichloroethene	12.9	ug/m3	0.98	0.46	1.79		05/02/19 23:18	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	2.0	0.66	1.79		05/02/19 23:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/m3	2.8	1.0	1.79		05/02/19 23:18	76-13-1	
1,2,4-Trimethylbenzene	11.7	ug/m3	1.8	0.81	1.79		05/02/19 23:18	95-63-6	
1,3,5-Trimethylbenzene	<0.71	ug/m3	1.8	0.71	1.79		05/02/19 23:18	108-67-8	
Vinyl acetate	<0.48	ug/m3	3.2	0.48	1.79		05/02/19 23:18	108-05-4	
Vinyl chloride	<0.23	ug/m3	0.47	0.23	1.79		05/02/19 23:18	75-01-4	
m&p-Xylene	14.7	ug/m3	3.2	1.3	1.79		05/02/19 23:18	179601-23-1	
o-Xylene	5.8	ug/m3	1.6	0.62	1.79		05/02/19 23:18	95-47-6	
Sample: VP-3	Lab ID:	10472767004	Collecte	d: 04/27/1	9 19:09	Received: 04	1/30/19 10:45 Ma	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	— ——— - Analytica	Method: TO-15						-	
Acetone	971	ug/m3	4.2	2.1	1.75		05/02/19 23:47	67-64-1	Е
Benzene	2.7	ug/m3	0.57	0.27	1.75		05/02/19 23:47		
Benzyl chloride	<2.1	ug/m3	4.6	2.1	1.75				
Bromodichloromethane							05/02/19 23:47	100-44-7	
		ū					05/02/19 23:47 05/02/19 23:47		
	<0.64	ug/m3	2.4	0.64	1.75		05/02/19 23:47	75-27-4	
Bromoform	<0.64 <2.5	ug/m3 ug/m3	2.4 9.2	0.64 2.5	1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2	
Bromoform Bromomethane	<0.64 <2.5 <0.40	ug/m3 ug/m3 ug/m3	2.4 9.2 1.4	0.64 2.5 0.40	1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9	
Bromoform Bromomethane 1,3-Butadiene	<0.64 <2.5 <0.40 <0.22	ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79	0.64 2.5 0.40 0.22	1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK)	<0.64 <2.5 <0.40 <0.22 16.0	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2	0.64 2.5 0.40 0.22 0.65	1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide	<0.64 <2.5 <0.40 <0.22 16.0 <0.38	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1	0.64 2.5 0.40 0.22 0.65 0.38	1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2	0.64 2.5 0.40 0.22 0.65 0.38 0.75	1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB)	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3 <0.64	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0 2.7	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3 0.64	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3 <0.64 <0.87	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0 2.7 2.1	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3 0.64 0.87	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3 <0.64 <0.87 <1.0	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0 2.7 2.1	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3 0.64 0.87	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3 <0.64 <0.87 <1.0 <1.8	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0 2.7 2.1 5.4	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3 0.64 0.87 1.0	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1 106-46-7	
Bromoform Bromomethane 1,3-Butadiene 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cyclohexane Dibromochloromethane 1,2-Dibromoethane (EDB) 1,2-Dichlorobenzene 1,3-Dichlorobenzene	<0.64 <2.5 <0.40 <0.22 16.0 <0.38 <0.75 <0.48 <0.46 <0.34 <0.27 6.9 <1.3 <0.64 <0.87 <1.0	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3	2.4 9.2 1.4 0.79 5.2 1.1 2.2 1.6 0.94 0.87 0.74 3.1 3.0 2.7 2.1	0.64 2.5 0.40 0.22 0.65 0.38 0.75 0.48 0.46 0.34 0.27 0.62 1.3 0.64 0.87	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75		05/02/19 23:47 05/02/19 23:47	75-27-4 75-25-2 74-83-9 106-99-0 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 124-48-1 106-93-4 95-50-1 541-73-1 106-46-7 75-71-8	

(612)607-1700



### ANALYTICAL RESULTS

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

o-Xylene

Date: 05/06/2019 11:07 AM

Sample: VP-3 Lab ID: 10472767004 Collected: 04/27/19 19:09 Received: 04/30/19 10:45 Matrix: Air LOQ DF Results Units LOD Prepared CAS No. **Parameters** Analyzed Qual **TO15 MSV AIR** Analytical Method: TO-15 1,1-Dichloroethene <0.48 ug/m3 1.4 0.48 1.75 05/02/19 23:47 75-35-4 0.38 cis-1,2-Dichloroethene <0.38 ug/m3 1.4 1.75 05/02/19 23:47 156-59-2 <0.50 trans-1,2-Dichloroethene ug/m3 1.4 0.50 1.75 05/02/19 23:47 156-60-5 1,2-Dichloropropane < 0.40 ug/m3 1.6 0.40 1.75 05/02/19 23:47 78-87-5 1.75 05/02/19 23:47 10061-01-5 cis-1,3-Dichloropropene < 0.53 ug/m3 1.6 0.53 <0.77 ug/m3 1.6 0.77 1.75 05/02/19 23:47 10061-02-6 trans-1,3-Dichloropropene Dichlorotetrafluoroethane <0.76 ug/m3 2.5 0.76 1.75 05/02/19 23:47 76-14-2 **Ethanol** 156 ug/m3 3.4 1.4 1.75 05/02/19 23:47 64-17-5 05/02/19 23:47 141-78-6 Ethyl acetate 24.6 ug/m3 1.3 0.33 1.75 Ethylbenzene 6.8 ug/m3 1.5 0.53 1.75 05/02/19 23:47 100-41-4 4-Ethyltoluene ug/m3 4.4 1.0 1.75 05/02/19 23:47 622-96-8 4.6 0.66 n-Heptane 6.6 ug/m3 1.5 1.75 05/02/19 23:47 142-82-5 Hexachloro-1,3-butadiene <3.4 ug/m3 9.5 3.4 1.75 05/02/19 23:47 87-68-3 n-Hexane 10.8 ug/m3 1.3 0.54 1.75 05/02/19 23:47 110-54-3 1.4J ug/m3 1.3 1.75 05/02/19 23:47 591-78-6 СН 2-Hexanone 7.3 Methylene Chloride 5.6J ug/m3 6.2 1.7 1.75 05/02/19 23:47 75-09-2 05/02/19 23:47 108-10-1 4-Methyl-2-pentanone (MIBK) 6.8J ug/m3 7.3 0.91 1.75 05/02/19 23:47 1634-04-4 Methyl-tert-butyl ether <1.2 ug/m3 6.4 1.2 1.75 2.3 Naphthalene 2.8J ug/m3 1.75 05/02/19 23:47 91-20-3 4.7 205 2-Propanol ug/m3 4.4 1.2 1.75 05/02/19 23:47 67-63-0 Propylene <0.25 ug/m3 0.61 0.25 1.75 05/02/19 23:47 115-07-1 Styrene 0.97J ug/m3 0.60 1.75 05/02/19 23:47 100-42-5 1.5 1,1,2,2-Tetrachloroethane <0.51 ug/m3 0.51 1.75 05/02/19 23:47 79-34-5 1.2 Tetrachloroethene 49.4 ug/m3 2.4 0.55 1.75 05/03/19 12:22 127-18-4 Tetrahydrofuran 10.5 ug/m3 1.0 0.46 1.75 05/02/19 23:47 109-99-9 Toluene 10.7 ug/m3 0.61 1.75 05/02/19 23:47 108-88-3 1.3 1,2,4-Trichlorobenzene <6.5 ug/m3 13.2 6.5 1.75 05/02/19 23:47 120-82-1 <0.54 1,1,1-Trichloroethane ug/m3 0.54 1.75 05/02/19 23:47 71-55-6 1.9 <0.44 ug/m3 1.75 05/02/19 23:47 79-00-5 1,1,2-Trichloroethane 1.9 0.44 ug/m3 0.96 1.75 05/02/19 23:47 79-01-6 Trichloroethene 4.6 0.45 ug/m3 Trichlorofluoromethane < 0.64 2.0 0.64 1.75 05/02/19 23:47 75-69-4 1,1,2-Trichlorotrifluoroethane <0.99 ug/m3 2.7 0.99 1.75 05/02/19 23:47 76-13-1 1,2,4-Trimethylbenzene 13.4 ug/m3 1.7 0.79 1.75 05/02/19 23:47 95-63-6 1,3,5-Trimethylbenzene 3.5 ug/m3 1.7 0.70 1.75 05/02/19 23:47 108-67-8 ug/m3 Vinyl acetate <0.47 3.1 0.47 1.75 05/02/19 23:47 108-05-4 Vinyl chloride <0.22 ug/m3 0.46 0.22 1.75 05/02/19 23:47 75-01-4 m&p-Xylene 15.8 ug/m3 3.1 1.75 12 05/02/19 23:47 179601-23-1 ug/m3

### REPORT OF LABORATORY ANALYSIS

1.5

0.60

1.75

6.2

05/02/19 23:47 95-47-6



### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

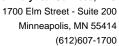
Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

Sample: VP-4 Lab ID: 10472767005 Collected: 04/27/19 19:17 Received: 04/30/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
TO15 MSV AIR	Analytical	Method: TO-	15						
Acetone	1440	ug/m3	4.3	2.2	1.79		05/03/19 00:17	67-64-1	Е
Benzene	2.3	ug/m3	0.58	0.27	1.79		05/03/19 00:17	71-43-2	
Benzyl chloride	<2.1	ug/m3	4.7	2.1	1.79		05/03/19 00:17	100-44-7	
Bromodichloromethane	<0.66	ug/m3	2.4	0.66	1.79		05/03/19 00:17	75-27-4	
Bromoform	<2.5	ug/m3	9.4	2.5	1.79		05/03/19 00:17	75-25-2	
Bromomethane	<0.41	ug/m3	1.4	0.41	1.79		05/03/19 00:17	74-83-9	
1,3-Butadiene	<0.23	ug/m3	0.81	0.23	1.79		05/03/19 00:17	106-99-0	
2-Butanone (MEK)	22.0	ug/m3	5.4	0.66	1.79		05/03/19 00:17	78-93-3	
Carbon disulfide	2.3	ug/m3	1.1	0.39	1.79		05/03/19 00:17	75-15-0	
Carbon tetrachloride	<0.77	ug/m3	2.3	0.77	1.79		05/03/19 00:17	56-23-5	
Chlorobenzene	< 0.49	ug/m3	1.7	0.49	1.79		05/03/19 00:17		
Chloroethane	<0.47	ug/m3	0.96	0.47	1.79		05/03/19 00:17		
Chloroform	<0.35	ug/m3	0.89	0.35	1.79		05/03/19 00:17		
Chloromethane	3.7	ug/m3	0.75	0.28	1.79		05/03/19 00:17		
Cyclohexane	<0.63	ug/m3	3.1	0.63	1.79		05/03/19 00:17		
Dibromochloromethane	<1.3	ug/m3	3.1	1.3	1.79		05/03/19 00:17		
,2-Dibromoethane (EDB)	<0.66	ug/m3	2.8	0.66	1.79		05/03/19 00:17	_	
,2-Dichlorobenzene	<0.89	ug/m3	2.2	0.89	1.79		05/03/19 00:17		
,3-Dichlorobenzene	<1.0	ug/m3	2.2	1.0	1.79		05/03/19 00:17		
,4-Dichlorobenzene	<1.8	ug/m3	5.5	1.8	1.79		05/03/19 00:17		
Dichlorodifluoromethane	2.9	ug/m3	1.8	0.52	1.79		05/03/19 00:17		
,1-Dichloroethane	<0.40	ug/m3	1.5	0.32	1.79		05/03/19 00:17		
,2-Dichloroethane	<0.40 <0.27	ug/m3	0.74	0.40	1.79		05/03/19 00:17		
1,1-Dichloroethene	<0.27 <0.49	ug/m3	1.4	0.49	1.79		05/03/19 00:17		
		Ū							
cis-1,2-Dichloroethene	<0.39	ug/m3	1.4	0.39	1.79		05/03/19 00:17		
rans-1,2-Dichloroethene	<0.51	ug/m3	1.4	0.51	1.79		05/03/19 00:17		
,2-Dichloropropane	<0.41	ug/m3	1.7	0.41	1.79		05/03/19 00:17		
cis-1,3-Dichloropropene	<0.54	ug/m3	1.7	0.54	1.79		05/03/19 00:17		
rans-1,3-Dichloropropene	<0.79	ug/m3	1.7	0.79	1.79		05/03/19 00:17		
Dichlorotetrafluoroethane	<0.78	ug/m3	2.5	0.78	1.79		05/03/19 00:17		
Ethanol	233	ug/m3	3.4	1.5	1.79		05/03/19 00:17		
Ethyl acetate	15.8	ug/m3	1.3	0.34	1.79		05/03/19 00:17		
Ethylbenzene	5.1	ug/m3	1.6	0.55	1.79		05/03/19 00:17		
I-Ethyltoluene	2.1J	ug/m3	4.5	1.0	1.79		05/03/19 00:17		
n-Heptane	5.1	ug/m3	1.5	0.68	1.79		05/03/19 00:17	142-82-5	
Hexachloro-1,3-butadiene	<3.5	ug/m3	9.7	3.5	1.79		05/03/19 00:17		
n-Hexane	24.3	ug/m3	1.3	0.56	1.79		05/03/19 00:17	110-54-3	
-Hexanone	1.6J	ug/m3	7.4	1.3	1.79		05/03/19 00:17	591-78-6	CH
Nethylene Chloride	202	ug/m3	6.3	1.7	1.79		05/03/19 00:17	75-09-2	
-Methyl-2-pentanone (MIBK)	1.2J	ug/m3	7.4	0.93	1.79		05/03/19 00:17	108-10-1	
Methyl-tert-butyl ether	<1.2	ug/m3	6.6	1.2	1.79		05/03/19 00:17	1634-04-4	
Naphthalene	<2.4	ug/m3	4.8	2.4	1.79		05/03/19 00:17	91-20-3	
-Propanol	391	ug/m3	4.5	1.2	1.79		05/03/19 00:17	67-63-0	
Propylene	<0.26	ug/m3	0.63	0.26	1.79		05/03/19 00:17		
Styrene	<0.62	ug/m3	1.6	0.62	1.79		05/03/19 00:17		
1,1,2,2-Tetrachloroethane	<0.52	ug/m3	1.2	0.52	1.79		05/03/19 00:17		

05/03/19 00:17 95-47-6





### **ANALYTICAL RESULTS**

Project: 1604-1011-0002 Polished Nail S

5.1

ug/m3

Pace Project No.: 10472767

o-Xylene

Date: 05/06/2019 11:07 AM

Sample: VP-4	Lab ID:	10472767005	Collected	d: 04/27/1	9 19:17	Received: 04	/30/19 10:45 Ma	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF_	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
Tetrachloroethene	146	ug/m3	3.3	0.75	2.4		05/03/19 12:52	127-18-4	
Tetrahydrofuran	69.0	ug/m3	1.1	0.47	1.79		05/03/19 00:17	109-99-9	
Toluene	10.2	ug/m3	1.4	0.63	1.79		05/03/19 00:17	108-88-3	
1,2,4-Trichlorobenzene	<6.7	ug/m3	13.5	6.7	1.79		05/03/19 00:17	120-82-1	
1,1,1-Trichloroethane	1.4J	ug/m3	2.0	0.55	1.79		05/03/19 00:17	71-55-6	
1,1,2-Trichloroethane	<0.45	ug/m3	2.0	0.45	1.79		05/03/19 00:17	79-00-5	
Trichloroethene	8.1	ug/m3	0.98	0.46	1.79		05/03/19 00:17	79-01-6	
Trichlorofluoromethane	1.8J	ug/m3	2.0	0.66	1.79		05/03/19 00:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/m3	2.8	1.0	1.79		05/03/19 00:17	76-13-1	
1,2,4-Trimethylbenzene	7.9	ug/m3	1.8	0.81	1.79		05/03/19 00:17	95-63-6	
1,3,5-Trimethylbenzene	2.4	ug/m3	1.8	0.71	1.79		05/03/19 00:17	108-67-8	
Vinyl acetate	<0.48	ug/m3	3.2	0.48	1.79		05/03/19 00:17	108-05-4	
Vinyl chloride	<0.23	ug/m3	0.47	0.23	1.79		05/03/19 00:17	75-01-4	
m&p-Xylene	12.5	ug/m3	3.2	1.3	1.79		05/03/19 00:17	179601-23-1	

1.6

0.62 1.79



### **QUALITY CONTROL DATA**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

QC Batch: 603410 Analysis Method: TO-15

QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

METHOD BLANK: 3261927 Matrix: Air

Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	05/02/19 10:43	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	05/02/19 10:43	
1,1,2-Trichloroethane	ug/m3	< 0.25	1.1	05/02/19 10:43	MN
1,1,2-Trichlorotrifluoroethane	ug/m3	< 0.56	1.6	05/02/19 10:43	
1,1-Dichloroethane	ug/m3	< 0.22	0.82	05/02/19 10:43	
1,1-Dichloroethene	ug/m3	<0.27	0.81	05/02/19 10:43	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	05/02/19 10:43	
1,2,4-Trimethylbenzene	ug/m3	< 0.45	1.0	05/02/19 10:43	
1,2-Dibromoethane (EDB)	ug/m3	< 0.37	1.6	05/02/19 10:43	MN
1,2-Dichlorobenzene	ug/m3	< 0.50	1.2	05/02/19 10:43	
1,2-Dichloroethane	ug/m3	<0.15	0.41	05/02/19 10:43	
1,2-Dichloropropane	ug/m3	< 0.23	0.94	05/02/19 10:43	
1,3,5-Trimethylbenzene	ug/m3	< 0.40	1.0	05/02/19 10:43	
1,3-Butadiene	ug/m3	<0.13	0.45	05/02/19 10:43	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	05/02/19 10:43	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	05/02/19 10:43	
2-Butanone (MEK)	ug/m3	< 0.37	3.0	05/02/19 10:43	
2-Hexanone	ug/m3	< 0.74	4.2	05/02/19 10:43	
2-Propanol	ug/m3	<0.70	2.5	05/02/19 10:43	
4-Ethyltoluene	ug/m3	<0.57	2.5	05/02/19 10:43	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	05/02/19 10:43	
Acetone	ug/m3	<1.2	2.4	05/02/19 10:43	
Benzene	ug/m3	<0.15	0.32	05/02/19 10:43	
Benzyl chloride	ug/m3	<1.2	2.6	05/02/19 10:43	
Bromodichloromethane	ug/m3	< 0.37	1.4	05/02/19 10:43	
Bromoform	ug/m3	<1.4	5.2	05/02/19 10:43	
Bromomethane	ug/m3	< 0.23	0.79	05/02/19 10:43	
Carbon disulfide	ug/m3	<0.22	0.63	05/02/19 10:43	
Carbon tetrachloride	ug/m3	< 0.43	1.3	05/02/19 10:43	
Chlorobenzene	ug/m3	<0.28	0.94	05/02/19 10:43	
Chloroethane	ug/m3	<0.26	0.54	05/02/19 10:43	
Chloroform	ug/m3	<0.20	0.50	05/02/19 10:43	
Chloromethane	ug/m3	<0.16	0.42	05/02/19 10:43	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	05/02/19 10:43	
cis-1,3-Dichloropropene	ug/m3	< 0.30	0.92	05/02/19 10:43	
Cyclohexane	ug/m3	<0.35	1.8	05/02/19 10:43	
Dibromochloromethane	ug/m3	<0.72	1.7	05/02/19 10:43	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	05/02/19 10:43	
Dichlorotetrafluoroethane	ug/m3	< 0.44	1.4	05/02/19 10:43	
Ethanol	ug/m3	<0.81	1.9	05/02/19 10:43	
Ethyl acetate	ug/m3	<0.19	0.73	05/02/19 10:43	

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



### **QUALITY CONTROL DATA**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

METHOD BLANK: 3261927 Matrix: Air

Associated Lab Samples: 10472767001, 10472767002, 10472767003, 10472767004, 10472767005

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	05/02/19 10:43	-
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	05/02/19 10:43	
m&p-Xylene	ug/m3	< 0.70	1.8	05/02/19 10:43	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	05/02/19 10:43	
Methylene Chloride	ug/m3	< 0.94	3.5	05/02/19 10:43	
n-Heptane	ug/m3	<0.38	0.83	05/02/19 10:43	
n-Hexane	ug/m3	<0.31	0.72	05/02/19 10:43	
Naphthalene	ug/m3	<1.3	2.7	05/02/19 10:43	
o-Xylene	ug/m3	< 0.34	0.88	05/02/19 10:43	
Propylene	ug/m3	<0.14	0.35	05/02/19 10:43	
Styrene	ug/m3	< 0.34	0.87	05/02/19 10:43	
Tetrachloroethene	ug/m3	<0.31	1.4	05/02/19 10:43	MN
Tetrahydrofuran	ug/m3	<0.26	0.60	05/02/19 10:43	
Toluene	ug/m3	< 0.35	0.77	05/02/19 10:43	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	05/02/19 10:43	
trans-1,3-Dichloropropene	ug/m3	< 0.44	0.92	05/02/19 10:43	
Trichloroethene	ug/m3	<0.26	0.55	05/02/19 10:43	
Trichlorofluoromethane	ug/m3	< 0.37	1.1	05/02/19 10:43	
Vinyl acetate	ug/m3	<0.27	1.8	05/02/19 10:43	MN
Vinyl chloride	ug/m3	<0.13	0.26	05/02/19 10:43	

LABORATORY CONTROL SAMPLE:	3261928					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.2	118	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.5	95	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	66.1	119	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	87.2	112	70-130	
1,1-Dichloroethane	ug/m3	41.1	46.3	112	70-130	
1,1-Dichloroethene	ug/m3	40.3	46.5	115	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	105	140	56-130	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	51.4	103	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	88.1	113	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	68.7	113	70-132	
1,2-Dichloroethane	ug/m3	41.1	46.6	113	70-130	
1,2-Dichloropropane	ug/m3	47	53.2	113	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	49.6	99	70-132	
1,3-Butadiene	ug/m3	22.5	24.5	109	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	68.9	113	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	65.5	107	70-134	
2-Butanone (MEK)	ug/m3	30	29.9	100	70-130	
2-Hexanone	ug/m3	41.6	55.6	133	70-135	CH
2-Propanol	ug/m3	125	135	108	68-130	
4-Ethyltoluene	ug/m3	50	53.6	107	70-138	

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



### **QUALITY CONTROL DATA**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

LABORATORY CONTROL SAMPLE:	3261928					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	50.3	121	70-131	
Acetone	ug/m3	121	119	99	67-130	
Benzene	ug/m3	32.5	36.0	111	70-130	
Benzyl chloride	ug/m3	52.6	55.6	106	70-130	
Bromodichloromethane	ug/m3	68.1	75.9	111	70-130	
Bromoform	ug/m3	105	102	98	70-132	
Bromomethane	ug/m3	39.5	43.5	110	69-130	
Carbon disulfide	ug/m3	31.6	33.4	106	56-137	
Carbon tetrachloride	ug/m3	64	79.4	124	66-131	
Chlorobenzene	ug/m3	46.8	46.3	99	70-130	
Chloroethane	ug/m3	26.8	30.4	114	70-130	
Chloroform	ug/m3	49.6	56.8	114	70-130	
Chloromethane	ug/m3	21	24.6	117	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	47.2	117	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	54.1	117	70-133	
Cyclohexane	ug/m3	35	39.7	114	68-132	
Dibromochloromethane	ug/m3	86.6	99.6	115	70-130	
Dichlorodifluoromethane	ug/m3	50.3	55.8	111	70-130	
Dichlorotetrafluoroethane	ug/m3	71	83.2	117	70-130	
Ethanol	ug/m3	95.8	110	115	68-133	
Ethyl acetate	ug/m3	36.6	45.2	123	69-130	
Ethylbenzene	ug/m3	44.1	45.2	102	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	116	107	66-137	
m&p-Xylene	ug/m3	88.3	87.8	99	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	40.8	111	70-130	
Methylene Chloride	ug/m3	177	189	107	65-130	
n-Heptane	ug/m3	41.7	45.0	108	65-130	
n-Hexane	ug/m3	35.8	38.4	107	66-130	
Naphthalene	ug/m3	53.3	55.0	103	56-130	
o-Xylene	ug/m3	44.1	41.8	95	70-130	
Propylene	ug/m3	17.5	18.5	106	67-130	
Styrene	ug/m3	43.3	43.7	101	69-136	
Tetrachloroethene	ug/m3	68.9	73.6	107	70-130	
Tetrahydrofuran	ug/m3	30	35.9	120	68-131	
Toluene	ug/m3	38.3	42.6	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	47.9	119	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	55.4	120	70-134	
Trichloroethene	ug/m3	54.6	59.3	109	70-130	
Trichlorofluoromethane	ug/m3	57.1	64.3	113	65-130	
Vinyl acetate	ug/m3	35.8	37.3	104	61-133	
Vinyl chloride	ug/m3	26	30.5	117	70-130	

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

(612)607-1700



### **QUALIFIERS**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **LABORATORIES**

PASI-M Pace Analytical Services - Minneapolis

### **ANALYTE QUALIFIERS**

Date: 05/06/2019 11:07 AM

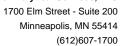
CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit

Evaluation Rule.





### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1604-1011-0002 Polished Nail S

Pace Project No.: 10472767

Date: 05/06/2019 11:07 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10472767001	IA-1	TO-15	603410		
10472767002	VP-1	TO-15	603410		
10472767003	VP-2	TO-15	603410		
10472767004	VP-3	TO-15	603410		
10472767005	VP-4	TO-15	603410		



## AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All releval

WO#:10472767

Partition &			to the state of th
Section A Required Client Information:	Section B Required Project Information:	Section C	34433 Page: 1 of 1
Company: 10 out	Report To:	Invoice Information:	
Address -> = All list of	Copy To:	Attention: Ton/ Sehorn	Program
453 /V Wale St. V			UST Superfund Emissions Clean Air Act
MKE, WI. 5362		Address:	Voluntary Clean Up   Dry Clean   RCRA   Other
Email To: Tschoon @ Key engineering	Purchase Order No.: 18350 H	Pace Quote Reference:	Reporting Units
Phone: Fax:	Project Name: Polished Vail Salon	Pace Project Manager/Sales Rep.	Location of Sampling by State WT PPBV PPMV PPMV
Requested Due Date/TAT:	Project Number: (00 H - 01 - 000)	Pace Profile #:	Other
'Section D Required Client Information	Volid Modia Cada	COLLECTED P D D D	Report Level II. III. IV. Other
AIR SAMPLE ID	MEDIA CODE 5	COLLECTED 의 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계	Method:
Sample IDs MUST BE UNIQUE	1 Liter Summa Can 1LC	COLLECTED    Summa   Summa   Flow   Can   Control	
*	Wall wetter Codes  MEDIA CODE  Tedfar Bag TB  1 Liter Summa Can 1LC  6 Liter Summa Can 6LC  Low Volume Puff LVP  High Volume Puff HVP  Other PM10 ✓ G	Can Control	
TEM		END/GRAB	Pace Lab ID
- A 1		TIME DATE TIME	Pace Lab ID
1,4-1	6LC X 1/27/19	0:0004 127/19 6:000 28 1 1 6150 28 6	po'
2 VP-		015pm ) 9-8 3382 1002	002
3 VP-2		132pm 702pm 30 8 3512 703	003
4 VP-3	X	3824 702 10 0 1 4 3 1 5 2 3	
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		SAMPLER NAME AND SIGNATURE	X/N X/N
<u></u>			d dy ooler intact
		SIGNATURE of SAMPLER JASON DIELS	Temp in °C Received on loe Custody Sealed Cooler Samples Intact
		SIGNATURE of SAMPLER DATE Signed (MM / DB /	[ gg   4   7   7   7   7   7   7   7   7   7
<b>)</b>			

# Pace Analytical\*

Document Name: Air Sample Condition Upon Receipt

Document No.: F-MN-A-106-rev.18 Document Revised: 31Jan2019 Page 1 of 1

Issuing Authority:

Air Sample Condition Upon Receipt Client Name: Receipt Project #: WO#:10472767										
Courier: Tracking Number:	Fed Ex Pace 4545	UPS / SpeeDee	7   USP   Com  92/348	mercial See Ex		PM: K CLIEN	NH T: Key E		Le: 05/0	7/19
Custody Seal on Cool	er/Box Present	t?		Seals Intact	?	□N <sub>0</sub>	<u></u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Packing Material:	Bubble Wrap	Bubble	Bags 🔲 Fo	am 🔲 None	☐Tin Ca	an Dothe	er;	Temp	Blank rec:	Yes <b></b> 1
Temp. (TO17 and TO13	•	): <u>×</u>	Corrected To	emp (°C):	<u>×</u>		Thermor	neter Used:	□G87A917 □G87A915	
Temp should be above  Type of ice Received		Correction Facet	ctor:	<u>×</u>	Date	& Initials of I	Person Examini	ing Contents:	4-30	19 44
				· .				Comments:		
Chain of Custody Preser	it?			Yes □No	1					
Chain of Custody Filled (	Out?			Yes No	. 2					
Chain of Custody Reling	uished?		<u> </u>	Yes No	3					
Sampler Name and/or S	ignature on COC	?		Yes □No	□N/A 4					
Samples Arrived within i	Hold Time?			Yes □No	5				W	
Short Hold Time Analys	s (<72 hr)?			Yes 🔲 🗸	6		-		<del></del>	
Rush Turn Around Time	Requested?	•		Yes 🔲 No	7					
Sufficient Volume?	- <u>-</u>			res 🔲 No	8				-	
Correct Containers Used	?			Yes □No	9		, <del>e</del> .	· · · · · · · · · · · · · · · · · · ·		<del></del>
-Pace Containers Use	d?		-	Yes 🔲 No						
Containers Intact?				XES   No	1	0.				
Media: Ar Can	Airbag	Filter	TDT	Passive			ividually Certi	fied Cans Y	Nist whi	ch sample:
Is sufficient information	available to reco	ncile		<del></del>		2, 1130	ividually certifi	neu caris 1	64 THEE WITH	in samples
samples to the COC?	<del></del>			Yes □No	1	2	<u>,                                    </u>			
Do cans need to be press DO NOT PRESSURIZE)?	Surized (3C and A	ASTM 1946		Yes □No	1	3.	··-	<u>.</u>		
Samples Received:					Pressure G	auge#	10AIR34 [	140ÁIR35		
	Can	isters	***					nisters		
		Flow	Initial	Final			7	Flow	Initial	Final
Sample Number	Can ID	Controller	Pressure	Pressure	Sample	Number	Can ID	Controller	Pressure	Pressur
TA-	1615	0286	-0.5	+5		· .				
VP-1	3382	1002	-7.5	11		<del>-</del>				
-2	3512	1703	-7.5	e 1		<del></del>			<u> </u>	
5	1642	1237	-7	*1						
-4	0596	2842	-7.5	11	<u> </u>					
<u>-</u>							-			1200
CLIENT NOTIFICATION	/RESOLUTION						Field Data	a Required?	☐Yes ☐N	0
Person Co					Date/Ti	me:				
Comments/Re	solution:		·				, <u></u>		-	
			· · · · · · · · · · · · · · · · · · ·				<u> </u>			
Project Manager Revie	w. Vindl	M. Hay	Dend			Date: 5	/1/2019			<u>.</u>
Froject ivianager Kevie	w 11/1/1/94/1/	11/0 11/19	VIV /V/I							

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

### Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 12/18)

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Notice: Use this form to request a written response (on agency letterhead) from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39. Wis. Stats.].

### Definitions

- "Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.
- "Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55. Wis. Stats.
- "Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.
- "Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

### Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

### Do not use this form if one of the following applies:

- Request for an off-site liability exemption or clarification for Property that has been or is perceived to be contaminated by one
  or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site
  Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the Lender Liability Exemption, s 292.21, Wis. Stats., if no response or review by DNR is requested. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an exemption to develop on a historic fill site or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- Request for closure for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

### Instructions

- 1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
- 2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
- 3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
- 4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf\*

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

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Section 1. Contact and Recip	pient Information				
Requester Information					
This is the person requesting tecl	hnical assistance or a post-ontified as the requester in S	closure ection	e modification review, that his or her liability to 7. DNR will address its response letter to thi	oe clarif s perso	ied or a n.
Last Name	First	MI	Organization/ Business Name		
Roth	Randall		Endeavour Corp Inc.		
Mailing Address			City	State	ZIP Code
330 East Kilbourn Avenue, St	uite 1160		Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 331-1939			randy@end-corp.com		
The requester listed above: (selection)	ct all that apply)				
Is currently the owner		1	Is considering selling the Property		
Is renting or leasing the Pro	pperty		Is considering acquiring the Property		
Is a lender with a mortgage	e interest in the Property				
Other. Explain the status of	the Property with respect to	o the a	pplicant:		
responsible party for the en	vironmental work		•		
Contact Information (to be contact Last Name	ontacted with questions a First	about MI	Organization/ Business Name	ct if san	ne as requester
Schoen	Toni	'''	Key Engineering Group, Ltd		
Mailing Address	10111		City	State	ZIP Code
735 North Water Street, Suite	510		Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email	1 111	33202
(414) 225-0594	(414) 224-8383		tschoen@keyengineering.com		
Environmental Consultant	(if applicable)				
Contact Last Name	First	МІ	Organization/ Business Name		
Schoen	Toni		Key Engineering Group, Ltd		
Mailing Address			City	State	ZIP Code
735 North Water Street, Suite			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)		Email		
(414) 225-0594	(414) 224-8383		tschoen@keyengineering.com		
Property Owner (if different					
Contact Last Name	First	MI	Organization/ Business Name		
Roth	Randall		TR Partners LLC	Ta	
Mailing Address			City	i	ZIP Code
330 East Kilbourn Avenue, Su			Milwaukee	WI	53202
	Fax # (include area code)		Email		
(414) 331-1939			randy@end-corp.com		

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Section 2. Property Inforn	nation					
Property Name			FID No. (if	f knowr	1)	
1681-1683 North Van Bu	341143220					
BRRTS No. (if known)	Parcel Identification Number					
02-41-562442		3600006100				
Street Address		City State ZIP Code				
1681 North Van Buren St		Milwaukee WI 53202			1	
County	Municipality where the Property is loca	ated	Property is com	•		perty Size Acres
Milwaukee	● City ○ Town ○ Village of Milw	aukee	Single tax parcel	) Multiple to parcels	0	
Is a response needed by a plan accordingly.     No Yes     Date reques     Reason:	a specific date? (e.g., Property closing o	date) Note: Most re	equests are com	oleted with	in 60 d	lays. Please
<ul> <li>No. Include the fee the Yes. Do not include a</li> <li>Fill out the information in Section 3. Technical A</li> </ul>	d as a Voluntary Party in the Voluntary I nat is required for your request in Sec a separate fee. This request will be bille on Section 3, 4 or 5 which correspond assistance or Post-Closure Modificat arification; or Section 5. Specialized A	ction 3, 4 or 5.  ed separately through the type of type of the type of ty	igh the VPLE Pr			
Section 3. Request for Te	chnical Assistance or Post-Closure	Modification				
Select the type of technical a	assistance requested: [Numbers in bra	ckets are for WI I	ONR Use]			
to an immediate ac Review of Site Inve Review of Site Inve Approval of a Site-inve Review of a Remed Review of a Remed Review of a Remed Review of a Remed	Letter (NFA) (Immediate Actions) - NR ction after a discharge of a hazardous sestigation Work Plan - NR 716.09, [135] estigation Report - NR 716.15, [137] - Specific Soil Cleanup Standard - NR 72 dial Action Options Report - NR 722.13 dial Action Design Report - NR 724.09, dial Action Documentation Report - NR erm Monitoring Plan - NR 724.17, [25] attion and Maintenance Plan - NR 724.1	ubstance occurs. ( - Include a fee of \$ 20.10 or 12, [67] - , [143] - Include a [148] - Include a 724.15, [152] - Include a fee o	Generally, these f \$700. 1050: NOFE Include a fee of a fee of \$1050. fee of \$1050. actude a fee of \$ f \$425.	are for a c	for a wone-tim	rritten response e spill event.
Other Technical Assistan	ce - s. 292.55, Wis. Stats. [97] (For req	uest to build on an	abandoned land	lfill use Fo	rm 440	10-226)
Schedule a Technic	cal Assistance Meeting - Include a fee	of \$700.				
Hazardous Waste I	Determination - Include a fee of \$700.					
Other Technical As	sistance - <b>Include a fee of \$700</b> . Expl	ain your request ir	an attachment.			
Post-Closure Modification	ne - NR 727 [181]					
Post-Closure Modi	fications: Modification to Property boun e GIS Registry. This also includes remo	daries and/or cont oval of a site or Pro	nuing obligation perty from the G	s of a close SIS Registr	ed site y. <b>Incl</b> i	or Property; ude a fee of
Include a fee of	\$300 for sites with residual soil contam	nination; and				
Include a fee of obligations.	f \$350 for sites with residual groundwat	er contamination,	monitoring wells	or for vapo	or intru	sion continuing
to a Property, site o	n of the changes you are proposing, and or continuing obligation will result in revi ater in the approval process, on a case	sed maps, mainte				

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Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

for	
	ction 4. Request for Liability Clarification
	t the type of liability clarification requested. Use the available space given or attach information, explanations, or specific tions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. [Numbers in brackets are for DNR Use]
	"Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]
	❖ Include a fee of \$700.
1	Provide the following documentation:
	(1) ownership status of the real Property, and/or the personal Property and fixtures;
(	(2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
	(3) the date the environmental assessment was conducted by the lender;
(	(4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
(	(5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
(	(6) a copy of the Property deed with the correct legal description; and,
(	(7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
(	(8) If no sampling was done, please provide reasoning as to why it was <b>not</b> conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,hi., Wis. Stats.:
	h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
	i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.
☐ '	"Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]
•	❖ Include a fee of \$700.
ı	Provide the following documentation:
(	(1) ownership status of the Property;
(	(2) the date of Property acquisition by the representative;
(	(3) the means by which the Property was acquired;
(	(4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
(	(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
(	(6) a copy of the Property deed with the correct legal description.
	Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)
	hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];
	Perceived environmental contamination - [649];
	hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or
	solid waste - s. 292.23 (2), Wis. Stats. [649].
•	Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:
	(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
•	(2) current and proposed ownership status of the Property;
	(3) date and means by which the Property was acquired by the LGU, where applicable;
	(4) a map and the ¼, ¼ section location of the Property;
-	(5) summary of current uses of the Property;
-	(6) intended or potential use(s) of the Property;
(	(7) descriptions of other investigations that have taken place on the Property; and

(8) (for solid waste clarifications) a summary of the license history of the facility.

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	Request for Liability Clarification (cont.)
	ase liability clarification - s. 292.55, Wis. Stats. [646]
	Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:
	a copy of the proposed lease;
	the name of the current owner of the Property and the person who will lease the Property;
(3)	a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
(4)	map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
(5)	a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
(6)	all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.
Genera ••	al or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below. Include a fee of \$700 and an adequate summary of relevant environmental work to date.
П№	Action Required (NAR) - NR 716.05, [682]
	Include a fee of \$700.
	where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further
ass	ressment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has en conducted; the assessment reports should be submitted with this form. This is not a closure letter.
Cla	rify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]
*	Include a fee of \$700.
- Includ	le a copy of any closure documents if a state agency other than DNR approved the closure.
Lico thin or	pace or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.
Section 5	. Request for a Specialized Agreement
Select the	type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of flore information and model draft agreements are available at: <a href="mailto:dnr.wi.gov/topic/Brownfields/lgu.html#tabx4">dnr.wi.gov/topic/Brownfields/lgu.html#tabx4</a> .
☐ Tax	cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]
become	Include a fee of \$700, and the information listed below:
	Phase I and II Environmental Site Assessment Reports,
	a copy of the Property deed with the correct legal description.
□ ∧ar	eement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]
	Include a fee of \$700, and the information listed below:
, ,	Phase I and II Environmental Site Assessment Reports,
(2)	a copy of the Property deed with the correct legal description.
☐ Neg	otiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630] Include a fee of \$1400, and the information listed below:

(1) a draft schedule for remediation; and,

(2) the name, mailing address, phone and email for each party to the agreement.

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Section 6. Other Information Submitted					
Identify all materials that are included with this request.					
Send both a paper copy of the signed form and all reports and suppand all reports, including Environmental Site Assessment Reports,					
Include one copy of any document from any state agency files that request. The person submitting this request is responsible for contreports or information.					
Phase I Environmental Site Assessment Report - Date:					
Phase II Environmental Site Assessment Report - Date:					
Legal Description of Property (required for all liability requests and specialized agreements)					
Map of the Property (required for all liability requests and specialized agreements)					
Analytical results of the following sampled media: Select all that apply and include date of collection.					
☐ Groundwater    ☐ Sediment    ☐ Other medium - Describe: vaport					
Date of Collection:					
A copy of the closure letter and submittal materials					
Draft tax cancellation agreement					
Draft agreement for assignment of tax foreclosure judgment					
Other report(s) or information - Describe:					
For Property with newly identified discharges of hazardous substances only: been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?  Yes - Date (if known):  No	Has a notification of a discharge of a hazardous substance				
Note: The Notification for Hazardous Substance Discharge (non-emergency dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.	/) form is available at:				
Section 7. Certification by the Person who completed this form					
I am the person submitting this request (requester)					
☑ I prepared this request for:					
Requester Name	<del>-</del>				
I certify that I am familiar with the information submitted on this request, and true, accurate and complete to the best of my knowledge. I also certify I have this request.					
Lou Schoen	8-19-19				
Signature	Date Signed				
Senior Project Manager	(414) 225-0594				
Title	Telephone Number (include area code)				

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### Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a <u>DNR regional brownfields specialist</u> with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <a href="http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf">http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf</a>.

### **DNR NORTHERN REGION**

Attn: RR Program Assistant Department of Natural Resources 223 E Steinfest Rd Antigo, WI 54409

### **DNR NORTHEAST REGION**

Attn: RR Program Assistant Department of Natural Resources 2984 Shawano Avenue Green Bay WI 54313

### **DNR SOUTH CENTRAL REGION**

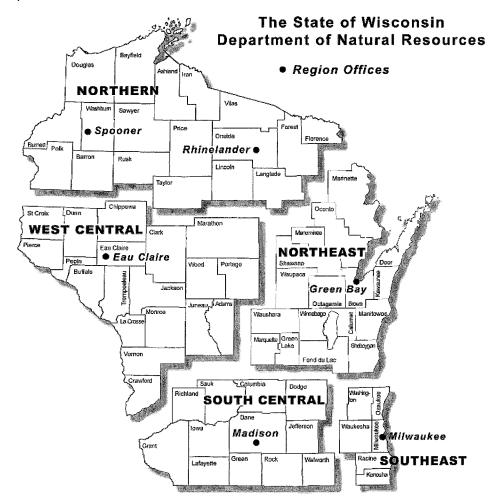
Attn: RR Program Assistant Department of Natural Resources 3911 Fish Hatchery Road Fitchburg WI 53711

### **DNR SOUTHEAST REGION**

Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

### **DNR WEST CENTRAL REGION**

Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only										
Date Received	Date Assigned		BRRTS Activity Code	BRRTS No. (if used)						
DNR Reviewer		Comm	ents							
	Fee Amount		Into Additional Information Democrated	Data Dawyarta Law DND Dawyara Lawa						
Fee Enclosed?	ree Amount		Date Additional Information Requested	Date Requested for DNR Response Letter						
◯ Yes ◯ No	\$									
Date Approved	Final Determination		<u> </u>							