

Chapter NR 716 Site Investigation Work Plan

Five Points Development MLK Drive
3317-3345 N. Dr. Martin Luther King Jr. Drive
Milwaukee, Wisconsin

BRRTS #02-41-589558
FID #341350240



PREPARED FOR

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Project Number – 20457

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Table of Contents

Certifications	i
1. Introduction	1
1.1 Site Location	1
1.2 Site Information	2
1.3 Site Contact Information	3
1.4 Purpose	3
1.5 Site Regulatory History.....	3
1.6 Geotechnical Investigation.....	4
1.7 Phase II Environmental Site Assessment.....	4
1.7.1 Sigma Phase II ESA Activities	4
1.7.2 Sigma Phase II ESA Results	5
2. Site Setting	7
2.1 Topography and Drainage	7
2.2 Hydrogeologic Setting	7
2.2.1 Regional Geology	7
2.2.2 Regional Hydrogeology	7
2.3 Potential Migration Pathways and Receptors.....	7
2.3.1 Utility Review	7
2.3.2 Surface Water and Water Wells.....	8
3. Site Investigation Work Plan	9
3.1 Additional Site Investigation Scope of Work.....	9
3.1.1 Utility Clearance	9
3.1.2 Soil Investigation	9
3.1.3 Groundwater Investigation	9
3.1.4 Vapor Investigation	10
3.1.5 Surveying.....	10
3.1.6 Disposal of Investigative-Derived Waste.....	10
3.1.7 Emerging Contaminant Evaluation.....	10
3.1.8 Quality Assurance	11
3.2 Ch. NR 716 Site Investigation Report	11

Tables

1. Water Level Elevations
2. Soil Analytical Results Table
3. Groundwater Analytical Results Table

Figures

1. Site Location Map
2. Detailed Site Plan Map
3. Proposed Additional Site Investigation Map

Appendices

- A. Soil Boring Logs
- B. Abandonment Forms
- C. Soil Laboratory Analytical Reports
- D. Groundwater Laboratory Analytical Report
- E. Standard Operating Procedures

Certifications

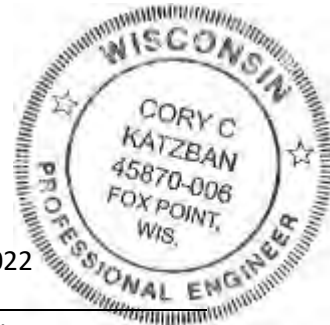
"I, Cory C. Katzban, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code;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



Cory C. Katzban, P.E.
Project Engineer

May 11, 2022

Date and Stamp



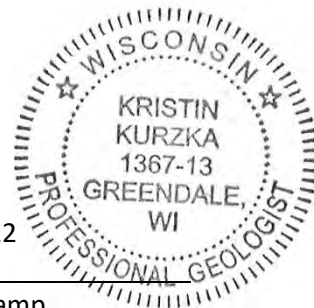
"I, Kristin Kurzka, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best 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."



Kristin Kurzka, P.E., P.G.
Geosciences Manager

May 11, 2022

Date and Stamp



1. Introduction

The Sigma Group, Inc. (Sigma), on behalf of Five Points MLKEDC, LLC (5 Points), submits this Chapter (ch.) NR 716.09 Site Investigation Work Plan (SIWP) to the Wisconsin Department of Natural Resources (WDNR) for the Five Points Development – MLK Drive property located at 3317 – 3345 North Doctor Martin Luther King Jr. Drive in the City of Milwaukee, Milwaukee County, Wisconsin. The property is hereinafter referred to as the “site.” A site location map is provided as **Figure 1**. This SIWP has been prepared as part of the requisite ch. NR 716 Site Investigation of previously identified subsurface polycyclic aromatic hydrocarbon (PAH), and Resource Conservation and Recovery Act (RCRA) metal impacts to soil and groundwater detected within historic fill material identified at the site.

The proposed scope of investigation described in this SIWP is intended to evaluate the degree and extent of subsurface soil and groundwater impacts identified during a Phase II Environmental Site Assessment (ESA) completed by Sigma in February 2022. The Phase II ESA subsurface investigation work was completed to assess potential subsurface soil and groundwater impacts associated with historic fill material and historic/closed WDNR cases located at the site prior to proposed site redevelopment activities, which are scheduled for late summer 2022.

A Notification of Hazardous Substance Discharge was submitted to the WDNR on April 4, 2022, in addition to pertinent data and information obtained during Sigma’s Phase II ESA.

1.1 Site Location

The site is located in the northwest $\frac{1}{4}$ of the southeast $\frac{1}{4}$ of Section 08, Township 07 North, Range 22 East. A site location map and a detailed site plan map are included as **Figure 1** and **Figure 2**, respectively. The site is bounded by:

- North – A mixed use commercial/retail and residential properties.
- South – A mixed use commercial/residential building bounded by West Concordia Avenue right-of-way (ROW), followed by various residential and commercial properties.
- East – North Doctor Martin Luther King Jr. Drive ROW, followed by mixed commercial buildings and residential properties.
 - WDNR BRRTS Case #02-41-578975 Bader Philanthropies Headquarters (Closed ERP) is located in the residential neighborhood to the east.
- West – Various mixed use commercial and residential properties, bounded by North 6th Street ROW.

The approximate geographic coordinates (in the Wisconsin Transverse Mercator [WTM] system) of the site boundary corners are as follows:

- Northeast corner: 689570, 291782
- Southeast corner: 689579, 291687
- Southwest corner: 689566, 291688
- Northwest corner: 689520, 291782

The coordinates were determined using the WDNR interactive Geographic Information System (GIS) internet website and zooming in at a scale of 1:990.

1.2 Site Information

The site consists of five parcels located near the intersection of N. Dr. Martin Luther King Jr. Drive and W. Concordia Avenue in the City of Milwaukee, Milwaukee County, Wisconsin, with a total area of approximately 1.12 acres. At the time of this assessment, all of the parcels were unimproved and unoccupied. Historically, the parcels were improved as follows:

- The 3317-3329 N. Dr. Martin Luther King Jr. Drive parcel (parcel #282-1209-100) comprises approximately 0.30 acres. Historically, the parcel was improved with multiple buildings:
 - The southernmost section of the parcel, historically listed as 3317 N. Dr. Martin Luther King Jr. Drive, was improved with two houses constructed by 1894. The front house was razed sometime between 1910 and 1914 and replaced with a single-story commercial building. The rear house was razed in 1958 and the commercial building was razed in 1980. The parcel was occupied by private residents and various retail stores.
 - The middle section of the parcel, historically listed as 3321-3325 N. Dr. Martin Luther King Jr. Drive, was improved with a two-story commercial building constructed sometime between 1894 and 1910, expanded sometime between 1910 and 1937, and razed in 1980. The parcel was occupied by an auto supply store, offices, a grocery store, a church, a doctor's office, various retail stores, a paint store, and repair shops for pianos and refrigerators.
 - The northernmost section of the parcel, historically listed as 3327-3329 N. Dr. Martin Luther King Jr. Drive, was improved with a single-story commercial building constructed sometime between 1910 and 1937 and razed in 1976. The parcel was occupied by various retail stores, a grocery store, and a church. In 1980, this address was listed as Henry Flipper Memorial Park.
- The 3333-3335 N. Dr. Martin Luther King Jr. Drive parcel (parcel #282-1206-100) comprises approximately 0.10 acres. Historically, the parcel was improved with a two-story commercial building constructed sometime between 1894 and 1910 and razed sometime between 1981 and 1986. The parcel was occupied by a dentist's office, various retail stores, and private residents.
- The 3341 N. Dr. Martin Luther King Jr. Drive parcel (parcel #282-1205-000) comprises approximately 0.18 acres. Historically, the parcel was improved with a single-story building constructed by 1894, which was razed and replaced with a new building in 1903. A barn, shed, and warehouse were constructed behind the building in 1903, 1907, and 1916. These buildings were razed in 1940. The parcel was then improved with a single-story commercial building constructed in 1941 and razed in 2011. The parcel was occupied by various retail/grocery stores and a roller-skating center.
- The 3345-3349 N. Dr. Martin Luther King Jr. Drive parcel (parcel #282-1204-100) comprises approximately 0.14 acres. Historically, the parcel was improved with a commercial building constructed in 1894 and razed sometime between 2010 and 2013. The parcel was occupied by private residents, retail stores, and restaurants.
- The 456 W. Concordia Avenue parcel (parcel #282-2782-110) comprises approximately 0.41 acres. Historically, the parcel was improved with a house constructed by 1894 and razed sometime between 1951 and 1955. The parcel was also improved with several garages constructed

sometime between 1910 and 1937 and razed sometime between 1951 and 1955. The parcel was occupied by a retail store and private residents before being converted to a city-owned parking lot in 1955. Aerial photographs indicate that the parking lot has been closed and vacant since the 1980s.

Historical records indicate that the site occupants included a printing operation and a paint store/service. Sanborn fire insurance maps indicate that gasoline engines were in place in the 3341 and 3345-3349 N. Dr. Martin Luther King Jr. Drive buildings in 1910 and city records indicate that kerosene was being stored in drums in the 3327-3329 N. Dr. Martin Luther King Jr. Drive building in 1958. City records indicate that the historical buildings on the 3317-3329, 3341, and 3345-3349 N. Dr. Martin Luther King Jr. Drive parcels utilized fuel oil for heating. With the exception of two basement aboveground storage tanks (ASTs), no descriptions of fuel tanks were included in the available records.

The Elliot Finch spill (BRRTS #04-41-552743) occurred on the 3333 N. Dr. Martin Luther King Jr. Drive parcel in June 2007. A person had been using the property to illegally store and sell paint since at least 2006 and possibly since 1999. City complaint records stated that the paint had been seeping into the ground. In 2007, the stored paint caught fire, resulting in a spill of approximately 100 gallons of paint. The WDNR oversaw the cleanup, which was carried out by Veolia. The 779 paint containers left on-site were collected and taken off-site for disposal and an area of the ground surface was scraped to remove residual paint. No documentation of soil testing was included in the case file.

1.3 Site Contact Information

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

Owner/Developer

Five Points MLK EDC, LLC
2745 N. MLK Jr. Drive
Milwaukee, WI 53212
Telephone: (414) 207-8569
Email: nrobbins@mlkedcmke.org
Contact: Nicole Robbins
Executive Director

Environmental Consultant

The Sigma Group, Inc.
1300 W. Canal Street
Milwaukee, WI 53233
Telephone: (414) 643-4200
Email: ckatzban@thesigmagroup.com
Contact: Cory C. Katzban, P.E.
Project Engineer

1.4 Purpose

Sigma's Phase II ESA completed in February 2022 identified PAH and RCRA metal impacts to soil and/or groundwater in subsurface fill material identified across the site. The purpose of this SIWP is to present a scope of work to 1) define the degree and extent of subsurface impacts identified on-site, 2) to obtain groundwater data and hydrogeologic information and assess groundwater quality, 3) determine potential risks to viable receptors, human health, and the environment, and 4) develop remediation strategies to meet the remediation objectives for the site.

1.5 Site Regulatory History

One closed WDNR case is associated with the site; The Elliot Finch spill (BRRTS #04-41-552743) occurred on the 3333 N. Dr. Martin Luther King Jr. Drive parcel in June 2007.

1.6 Geotechnical Investigation

GESTRA Engineering, Inc. (GESTRA) conducted a geotechnical investigation of the site in February and March 2022.

GESTRA's Geotechnical Engineering Report noted that the site contains subsurface historic fill material, as observed in each geotechnical soil boring advanced by GESTRA at the site. The fill material was noted to contain variable amounts of sand, clay, and gravel soil. In addition, to significant amounts of non-soil inclusions including debris, brick, and possible foundry sand. GESTRA geotechnical soil boring log are included in **Appendix A**.

1.7 Phase II Environmental Site Assessment

Sigma's Phase II ESA was conducted with the objective of determining if subsurface soil and groundwater impacts related to historic occupancy and Recognized Environmental Conditions (RECs) identified during Sigma's Phase I ESA are present at the site.

1.7.1 Sigma Phase II ESA Activities

A general summary describing the Phase II ESA activities and results is included below. Additionally, field procedures and sampling methodologies are described in more detail throughout this report.

Utility Clearance

Sigma contacted Digger's Hotline prior to initiating field activities to locate public utility lines at the site. Final soil boring locations were chosen to avoid conflict with marked utilities.

Soil Boring Advancement and Soil Sampling

On February 15, 2022, eight Geoprobe® soil borings (SB-1 through SB-8) were advanced at the locations shown in **Figure 2**. The soil boring locations were determined based on REC's identified during Sigma's Phase I ESA. The soil borings were advanced to depths of approximately six to 20 feet below ground surface (bgs). Soil samples were collected continuously described and classified in general accordance with the Unified Soil Classification System (USCS) and field screened with a calibrated photoionization detector (PID). The soil classifications, sampling intervals, and field screening results are presented on the soil boring logs included in **Appendix A**.

Two soil samples per soil boring were collected from soil borings SB-1 through SB-8 and submitted for laboratory analysis of volatile organic compounds (VOCs), PAHs, and RCRA metals. Additionally, Sigma collected one soil sample per boring from GESTRA geotechnical investigation borings B-4, B-6, B7, and B-8. Soil sample intervals selected for laboratory analysis were based on field screening results or other possible signs of impacts. If no obvious signs of impacts were noted, soil samples were collected from within the direct contact interval (the upper four feet of the soil column) and at the base of the unsaturated depth of the borehole (just above the water table).

Temporary Monitoring Well Installation

Following soil boring advancement, temporary monitoring wells TW-1, TW-2, TW-5, TW-7, and TW-8 were installed within soil borings SB-1, SB-2, SB-5, SB-7, and SB-8, respectively. Each temporary monitoring well consisted of 10 feet of well screen connected to an appropriate length of one-inch diameter riser pipe that was lowered to the bottom of each borehole to allow for the collection of grab groundwater samples. The temporary monitoring well construction details are included in the soil boring logs included in **Appendix A**.

Borehole Abandonment

Soil borings SB-3, SB-4, and SB-6 were abandoned in accordance with WDNR Chapter (ch.) NR 141 following soil sample collection. The temporary monitoring wells were abandoned in March 2022, following the collection of groundwater samples. The borehole abandonment forms are included in **Appendix B**.

Groundwater Sampling

Following temporary well installation, Sigma collected grab groundwater samples from the following temporary monitoring wells: TW-1, TW-2, TW-5, and TW-8. Samples were submitted for laboratory analysis of VOCs, PAHs, and/or dissolved RCRA metals. Temporary well TW-7 did not have sufficient water for sample recovery.

Surveying

The locations and elevations of soil borings and temporary monitoring wells were surveyed by Sigma following field sampling activities. Soil boring elevation and location data are included on the soil boring logs in **Appendix A**.

Investigative-Derived Waste

De minimis amounts of non-hazardous soil cuttings produced during Geoprobe advancement, Geoprobe acetate liners, used sampling equipment, and used personal protective equipment (PPE) were disposed of at a licensed landfill facility as solid waste.

1.7.2 Sigma Phase II ESA Results

A general summary describing the Phase II ESA activities and results are discussed below.

Geology

Surficial composition of the site consists of topsoil with grass, limited brush and trees, and select areas of gravel. Subsurface soils generally consisted of reworked soil/fill material overlying native undisturbed soil. The thickness and composition of the reworked soil/fill material varied across the site between approximately 3 and 12 feet. The native soil underlying the fill material on-site generally consisted of a layer of silty clay to clay with trace gravel to the termination depth of each soil boring.

Hydrogeology

Water level measurements were collected at each of the temporary monitoring wells on February 18, 2022. Groundwater depths ranged from 6 (TW-8) to 14 (TW-5) feet bgs and elevations of approximately 716 to 724 feet above Mean Sea Level (MSL). The groundwater elevation data collected during the Phase II ESA are variable; however, groundwater flow is expected to follow topography and site slope east towards MLK Drive, the Milwaukee River, and Lake Michigan (**Figure 1**). The groundwater elevation data are summarized in **Table 1**.

Soil Quality Results.

A total of 20 soil samples were collected during the Phase II ESA and geotechnical sampling; two samples from soil borings SB-1 through SB-8, and one sample from geotechnical investigation borings B-4, B-6, B7, and B-8. Each sample was submitted for the above-described laboratory analyses. The soil analytical data are summarized in **Table 2** and are compared to WDNR ch. NR 720 Residual Contaminant Levels (RCLs) for the groundwater pathway (GP) and human health by non-industrial and industrial direct contact (DC). The Wisconsin Background Threshold Values (BTVs) for select RCRA metals are included. Copies of the soil laboratory analytical reports are included as **Appendix C**. Soil analytical results are summarized below:

- VOCs – No VOCs were detected above the laboratory limit of detection (LOD) within the soil samples collected for analysis.
- PAHs – Multiple PAHs were detected at concentrations greater than ch. NR 720 RCLs within soil samples collected from the layer of reworked soil/historic fill material across the site. The concentrations of PAHs within soil samples collected from deeper native soils were less than LODs and/or ch. NR 720 RCLs.
- RCRA Metals – Select RCRA metals were detected within each of the soil samples submitted for analysis. Cadmium, lead, and selenium were detected at concentrations greater than their ch. NR 720 groundwater pathway RCLs and their respective BTVs within soil samples SB-4 (2-4'), SB-6 (10-12'), SB-8 (2-4'), B-6 (4-6'), and B-8 (8-10').

Groundwater Quality Results.

The laboratory analytical data for grab groundwater samples are summarized in **Table 3** and compared to ch. NR 140 Enforcement Standards (ESs) and Preventive Action Limits (PALs) for screening purposes. A copy of the groundwater laboratory analytical report is included as **Appendix D**. The groundwater analytical results are summarized below:

- VOCs – VOCs were not detected above the laboratory LOD within the temporary wells sampled.
- PAHs – Two groundwater samples (TW-1 & TW-2) were collected and analyzed for PAHs. Concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were reported greater than ch. NR 140 PALs or ESs. The ch. NR 140 PAL exceedances for these specific PAHs within the grab groundwater sample collected from TW-1 are low-level less than the laboratory limits of quantitation (LOQ) and are not statistically valid PAL exceedances. The concentrations of these specific PAHs within the grab groundwater sample collected from TW-2 exceed their ch. NR 140 PAL (benzo(a)pyrene) ESs (benzo(b)fluoranthene and chrysene).

It should be noted that the grab groundwater samples collected were slightly turbid and it is likely that suspended sediment (soil/fill material) entrained within the water column contributed to the presence of PAH concentrations within groundwater samples.

- Dissolved RCRA Metals – Three groundwater samples (TW-1, TW-2, and TW-5) were collected and analyzed for dissolved RCRA metals. Select dissolved RCRA metals were detected within each groundwater sample collected. Cadmium was detected at a concentration greater than its ch. NR 140 PAL within TW-1; however, the concentration was reported less than the laboratory LOQ.

2. Site Setting

2.1 Topography and Drainage

The site is relatively flat with minor topographic changes across the site with surface elevations ranging from approximately 724 to 730 feet MSL. Runoff and drainage at the site infiltrates the surface and/or flows east toward the MLK Drive ROW and catch basins to the City of Milwaukee combined sewer system.

2.2 Hydrogeologic Setting

2.2.1 Regional Geology

The surficial deposits in Milwaukee County consist of till and outwash deposits interbedded with fine-grained and stratified lake sediments. Deposited by the glacial Lake Michigan Lobe (or a sublobe) and its associated meltwater streams, the till is generally represented by the Oak Creek Formation. The Oak Creek Formation includes fine-grained till; lacustrine clay, silt, and sand; and some glaciofluvial sand and gravel. Beneath the glacial deposits lies undifferentiated dolomites which are underlain by a series of sedimentary rocks consisting largely of sandstones.

2.2.2 Regional Hydrogeology

Hydrogeologically, Milwaukee County is included in District No. 4 (Eastern Drift Paleozoic), as designated by the WGNHS. The aquifers of this district are described as a thick productive multilayered complex of Paleozoic sandstone and dolomite interbedded with non-productive layers and locally overlain by productive water-bearing sand and gravel. Groundwater in Milwaukee County moves within two (2) systems: a shallow water-table system and a deep artesian system. Regionally, within the shallow system (sand/gravel and Niagara), the groundwater flow is toward nearby lakes and streams. Groundwater flow within the deeper sandstone aquifer is generally from the west to east across the county.

2.3 Potential Migration Pathways and Receptors

2.3.1 Utility Review

Information regarding utilities is based on surveyed field markings provided by Diggers Hotline representatives and a private utility locator, an American Land Title Association (ALTA) survey map created by Sigma in 2022, a site survey conducted by Sigma, observations by Sigma personnel, and prior reports reviewed by Sigma.

- **Water:** A buried potable water main is located within the N. Dr. MLK Jr. Drive ROW to the east of the site and W. Concordia Avenue to the south of the site. The water main services are inactive due to the site being a vacant lot.
- **Sewer:** Buried combined sewer lines are located within the N. Dr. MLK Jr. Drive ROW and W. Concordia Avenue. Storm sewer catch basins are located within the ROWs.
- **Electric:** Buried electric lines are located in the N. Dr. MLK Jr. Drive ROW. Overhead electric lines are located within the southern portion edges of the site.
- **Gas:** A buried gas utility enters the southeast corner of the site from the N. Dr. MLK Jr. Drive ROW.
- **Communication/Fiber Optic:** Buried telephone lines are located in the N. Dr. MLK Jr. Drive ROW and may be part of the overhead lines within the southwest portion of the site.

2.3.2 Surface Water and Water Wells

The nearest surface water body, the Milwaukee River, is located approximately 1.2 miles east of the site, as identified on the U.S.G.S. 7.5-minute series topographic map (**Figure 1**). Regional surface water flow would likely flow toward the Milwaukee River and subsequently to Lake Michigan, which is approximately 2.3 miles east of the site.

According to the WDNR's Well Construction Information System website (<https://dnr.wi.gov/WellConstructionSearch/#!/PublicSearch/Index>), reviewed in May 2022, no water supply wells are located within 1,200 feet of the site.

The site and surrounding properties are supplied potable water via the Milwaukee municipal water supply, which obtains treated water from Lake Michigan.

3. Site Investigation Work Plan

Based on the results of the Phase II ESA activities and site-specific information obtained to date, additional sampling and analysis is required to determine the full degree and extent of subsurface impacts, identify potential site risks, and develop an appropriate Remedial Action Plan (RAP), as appropriate. The following Scope of Work is proposed to further evaluate soil and groundwater quality conditions on-site, further characterize the degree and extent of soil and potential groundwater impacts and fill material, and determine hydrogeologic conditions.

3.1 Additional Site Investigation Scope of Work

A ch. NR 716 site investigation requires that the full degree and extent of impacts to site media including soil, groundwater, and vapor, be determined to evaluate potential risks to human health and the environment. The additional soil, groundwater, and vapor assessment activities intended to meet WDNR requirements are presented below.

3.1.1 Utility Clearance

Sigma will contact Digger's Hotline prior to initiating field activities to locate public utility lines at the site. Sigma will communicate with utility locators to verify that public utilities will be marked prior to drilling work. A private utility contractor will also be contracted to locate private utilities not identified by Diggers Hotline.

3.1.2 Soil Investigation

A total of six additional Geoprobe® soil borings are proposed to further evaluate the extent of PAH and RCRA metals soil impacts across the site. The proposed soil boring locations are depicted on **Figure 3**.

The soil borings will be advanced to depths of approximately 20 feet bgs. The soil borings will be advanced using a Geoprobe® drilling unit to further define the degree and extent of subsurface fill material and impacts and characterize material within areas that could potentially be disturbed during site redevelopment. Soil samples will be continuously collected to the termination depth of each boring and described on the basis of color, texture, grain size, and plasticity, classified in general accordance with the USCS, and screened in the field with a calibrated PID.

Up to three soil samples from each soil boring location will be submitted for laboratory analysis of PAHs and lead (impacts of concern). Soil samples collected during soil boring advancement will be containerized in laboratory supplied jars, preserved where necessary, and stored on ice for the duration of field activities. The samples will be placed in a cooler with ice for the duration of field activities and shipped to a Wisconsin-certified laboratory with chain-of-custody.

Three of the soil borings will be abandoned with bentonite chips in accordance with ch. NR 141 regulations following sample collection.

3.1.3 Groundwater Investigation

The purpose of this phase of investigation is to collect groundwater samples for an evaluation of groundwater quality with respect to the identified soil impacts.

Three NR 141-compliant monitoring wells will be advanced using hollow-stem auger (HSA) drilling techniques. The groundwater monitoring wells will be drilled to depths of approximately 20 feet bgs. The actual depths may be adjusted based on the depth of the observed groundwater table. The monitoring wells will be constructed within each borehole and will consist of one-inch diameter; schedule 40 PVC

risers connected to an appropriate length of 0.01-inch slotted PVC well screens. Upon positioning the screens and risers within the borings, the annular space between the screens and sides of the boreholes will be filled with a silica sand filter pack and filter seal. The remainder of the annular space will be filled with bentonite, and steel well vaults will be installed flush with the ground surface. The proposed monitoring well locations are depicted on **Figure 3**.

Following construction, the monitoring wells will be developed in accordance with the requirements of ch. NR 141. Monitoring well development will consist of surging with a bailer and purging the monitoring wells of approximately 10 well volumes of groundwater. If the monitoring wells bail dry, well development will consist of bailing the monitoring wells dry four times.

Approximately 48 hours after well development, groundwater samples will be collected from the monitoring wells. The groundwater samples will be collected using a combination of conventional bailer sampling methods and low-flow sampling techniques with a peristaltic pump. One to two rounds of groundwater samples will be collected from the NR 141-complaint monitoring wells and submitted for laboratory analysis of PAHs and dissolved lead.

The collected groundwater samples will be containerized in laboratory supplied jars, preserved where necessary, and stored on ice for the duration of field activities and receipt by the laboratory.

3.1.4 Vapor Investigation

As part of the site investigation, Sigma will complete vapor intrusion screening in accordance with WDNR guidance¹ to determine if the potential for vapor intrusion exists at the site. The screening will be performed based on the criteria for properties affected by petroleum volatile organic compounds (PVOC) and chlorinated volatile organic compounds (CVOC) contaminants. The vapor screening assessment will consist of a desktop review of available site records and analytical data to determine if the potential exists for vapor intrusion at the site which would require vapor field sampling be conducted. The soil and groundwater analytical results collected to date indicate no detectable concentrations of VOCs; therefore, vapor sampling and analysis is likely not expected.

3.1.5 Surveying

Sigma will survey the soil boring and monitoring well locations and elevations with a Trimble S6 Total Station and Trimble R12 GPS receiver. The locations, ground surface, casing elevations, and protective cover rim elevations of the monitoring wells will be surveyed to determine relative elevation for project documentation and WDNR reports.

3.1.6 Disposal of Investigative-Derived Waste

During the advancement of the soil borings and installation of the monitoring wells, soil spoil drill cuttings will be generated. These cuttings will be placed into labeled 55-gallon drums and staged on-site pending proper disposal coordination. Groundwater produced during monitoring well development and sampling activities will also be placed into labeled 55-gallon drums pending proper disposal coordination.

3.1.7 Emerging Contaminant Evaluation

A desktop evaluation of the potential for emerging contaminants, such as 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) will be completed as part of the site investigation activities. Discussions

¹ *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin* PUB-RR-800 by WDNR (dated January 2018).

and recommendations regarding the need to include emerging contaminants within the scope of the ch. NR 716 investigation activities will be provided upon completion of the screening process.

3.1.8 Quality Assurance

The proposed activities will be conducted in accordance with local, state, and federal, rules and regulations, industry standards, and Sigma's general Standards Operating Procedures (SOPs), which are included in **Appendix E**.

3.2 Ch. NR 716 Site Investigation Report

Pending completion of the site investigation activities, Sigma will prepare a ch. NR 716 Site Investigation Report (SIR) and Remedial Action Plan (RAP).

Tables

1. Water Level Elevations
2. Soil Analytical Results Table
3. Groundwater Analytical Results Table

Table 1
Water Level Elevations
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

TW-1							
Ground Elev.:		724.0 (feet MSL)			Screen Interval: 4.3 to 14.3 (feet bgs)		
TOC Elev.:		724.49 (feet MSL)			719.7 to 709.7 (feet MSL)		
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	8.75	14.75	6.00	---	715.74	8.3	Clear to turbid, no odor, fair recovery
3/28/22	6.59	14.65	8.06	2.06	717.90	6.1	Well abandoned

TW-2							
Ground Elev.:		727.0 (feet MSL)			Screen Interval: 4.3 to 14.3 (feet bgs)		
TOC Elev.:		727.38 (feet MSL)			722.7 to 712.7 (feet MSL)		
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	9.70	14.65	4.95	---	717.68	9.3	Clear to turbid, no odor, fair recovery
3/28/22	9.26	14.65	5.39	0.44	718.12	8.9	Well abandoned

TW-5							
Ground Elev.:		732.7 (feet MSL)			Screen Interval: 9.3 to 19.3 (feet bgs)		
TOC Elev.:		733.02 (feet MSL)			723.3 to 713.3 (feet MSL)		
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	14.15	19.70	5.55	---	718.87	13.8	Clear to turbid, no odor, fair recovery
3/28/22	8.68	19.65	10.97	5.42	724.34	8.3	Well abandoned

TW-7							
Ground Elev.:		726.8 (feet MSL)			Screen Interval: 3.9 to 13.9 (feet bgs)		
TOC Elev.:		727.39 (feet MSL)			722.9 to 712.9 (feet MSL)		
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	10.31	14.46	4.15	---	717.08	9.7	Clear to turbid, no odor, fair recovery
3/28/22	7.98	14.60	6.62	2.47	719.41	7.4	Well abandoned

TW-8							
Ground Elev.:		730.1 (feet MSL)			Screen Interval: 9.3 to 19.3 (feet bgs)		
TOC Elev.:		730.48 (feet MSL)			720.8 to 710.8 (feet MSL)		
Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
2/18/22	7.30	19.71	12.41	---	723.18	6.9	Clear to turbid, no odor, fair recovery
3/28/22	5.97	19.70	13.73	1.32	724.51	5.6	Well abandoned

Notes:

1. Temporary Monitoring Wells TW-1, 2, 5, 7, and 8 surveyed by The Sigma Group, Inc. on February 23, 2022.
2. feet MSL = feet above Mean Sea Level
3. feet bgs = feet below ground surface
4. feet TOC = feet below top of casing

Data entered / updated by: CCK Date: 4/27/2022
 Data checked by: JMD Date: 4/27/2022

Table 2
Soil Analytical Results Table
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

Soil Sample Location:		SB-1		SB-2		SB-3		SB-4			SB-5		SB-6		SB-7		SB-8		Groundwater Pathway RCL ⁴	Non-Industrial Direct Contact RCL ⁵	Industrial Direct Contact RCL ⁶	Background Threshold Value ⁷	
Sample Depth (feet bgs):		2-4'	8-10'	2-4'	8-10'	2-4'	10-12'	2-4'	10-12'	10-12' DUP	2-4'	12-14'	2-4'	10-12'	2-4'	10-12'	2-4'	12-14'					
Sample Collection Date:		2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22	2/15/22					
Native Soil (N) or Fill / Reworked Soil (F):		F	N	F	F	F	N/F	F	F	F	F	N	F	N	F	N	F	N					
Unsaturated/Smear Zone (U) or Saturated (S):		U	U	U	U	U	S	U	U	U	U	U	U	U	U	U	U						
Photoionization Detector	ppm	0.0	0.0	0.1	0.0	0.0	0.0	0.4	0.1	---	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	NS	NS	NS	NS
VOCs		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
PAHs																							
Acenaphthene	mg/kg	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	NA	<0.011	<0.011	<0.011	<0.011	0.48	<0.011	<0.011	<0.011	NS	3,590	45,200	NS	
Acenaphthylene	mg/kg	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	NA	<0.009	<0.009	<0.009	<0.009	0.0287 "J"	<0.009	<0.009	<0.009	NS	NS	NS	NS	
Anthracene	mg/kg	0.0247 "J"	<0.0071	0.06	0.0253 "J"	0.0152 "J"	0.032	<0.0071	<0.0071	NA	<0.0071	<0.0071	<0.0071	<0.0071	1.38	0.0124 "J"	<0.0071	<0.0071	196.9492	17,900	100,000	NS	
Benzo(a)anthracene	mg/kg	0.078	<0.0139	0.169	0.056	0.047 "J"	0.112	<0.0139	<0.0139	NA	<0.0139	<0.0139	0.0219 "J"	<0.0139	[1.54]	0.0253 "J"	0.02 "J"	<0.0139	NS	1.14	20.8	NS	
Benzo(a)pyrene	mg/kg	0.084	<0.0143	[0.22]	0.052 "J"	0.046 "J"	[0.115]	<0.0143	<0.0143	NA	<0.0143	<0.0143	0.0202 "J"	<0.0143	[1.67]	0.0179 "J"	0.0175 "J"	<0.0143	0.47	0.115	2.11	NS	
Benzo(b)fluoranthene	mg/kg	0.115	<0.008	0.32	0.073	0.068	0.157	0.0158 "J"	<0.008	NA	<0.008	<0.008	0.0249 "J"	<0.008	[1.97]	0.0254 "J"	0.0255 "J"	<0.008	0.4781	1.15	21.1	NS	
Benzo(ghi)perylene	mg/kg	0.076	<0.0125	0.21	0.049	0.044 "J"	0.103	<0.125	<0.0125	NA	<0.0125	<0.0125	0.0181 "J"	<0.0125	1.14	<0.0125	0.0168 "J"	<0.0125	NS	NS	NS	NS	
Benzo(k)fluoranthene	mg/kg	0.063	<0.0076	0.158	0.038	0.033	0.084	0.0094 "J"	<0.0076	NA	<0.0076	<0.0076	0.014 "J"	<0.0076	0.96	0.012 "J"	0.0133 "J"	<0.0076	NS	11.5	211	NS	
Chrysene	mg/kg	0.112	<0.0124	0.277	0.085	0.061	0.157	0.0146 "J"	<0.0124	NA	<0.0124	<0.0124	0.0267 "J"	<0.0124	1.92	0.032 "J"	0.0265 "J"	<0.0124	0.1442	115	2,110	NS	
Dibenzo(a,h)anthracene	mg/kg	0.0191 "J"	<0.0136	0.045 "J"	<0.0136	<0.0136	0.0206 "J"	<0.0136	<0.0136	NA	<0.0136	<0.0136	<0.0136	<0.0136	[0.242]	<0.0136	<0.0136	<0.0136	NS	0.115	2.11	NS	
Fluoranthene	mg/kg	0.181	<0.008	0.41	0.14	0.107	0.279	0.0168 "J"	<0.008	NA	<0.008	<0.008	0.035	<0.008	4.50	0.051	0.033	<0.008	88.8778	2,390	30,100	NS	
Fluorene	mg/kg	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	<0.0091	NA	<0.0091	<0.0091	<0.0091	<0.0091	0.42	<0.0091	<0.0091	<0.0091	14.8299	2,390	30,100	NS	
Indeno(1,2,3-cd)pyrene	mg/kg	0.09	<0.0152	0.247	0.051 "J"	0.048 "J"	0.114	<0.0152	<0.0152	NA	<0.0152	<0.0152	0.0166 "J"	<0.0152	[1.44]	0.0165 "J"	<0.0152	<0.0152	NS	1.15	21.1	NS	
1-Methylnaphthalene	mg/kg	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	<0.0118	NA	<0.0118	<0.0118	<0.0118	<0.0118	0.059	<0.0118	<0.0118	<0.0118	NS	17.6	72.7	NS	
2-Methylnaphthalene	mg/kg	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	NA	<0.0186	<0.0186	<0.0186	<0.0186	0.081	<0.0186	<0.0186	<0.0186	NS	239	3,010	NS	
Naphthalene	mg/kg	<0.0201	<0.0201	<0.0201	0.0293 "J"	<0.0201	<0.0201	<0.0201	<0.0201	NA	<0.0201	<0.0201	<0.0201	<0.0201	0.077 "J"	<0.0201	<0.0201	<0.0201	0.6582	5.52	24.1	NS	
Phenanthrene	mg/kg	0.081	<0.0089	0.18	0.106	0.05	0.131	0.0105 "J"	<0.0089	NA	<0.0089	0.016 "J"	0.0157 "J"	0.0235 "J"	4.40	0.032 "J"	0.0144 "J"	<0.0089	NS	NS	NS	NS	
Pyrene	mg/kg	0.151	<0.007	0.33	0.127	0.087	0.24	0.0149 "J"	<0.007	NA	<0.007	<0.007	0.031	<0.007	3.70	0.039	0.0298	<0.007	54.5455	1,790	22,600	NS	
RCRA Metals																							
Arsenic	mg/kg	3.01*	3.44*	3.77*	3.52*	3.4*	2.74*	5.19*	4.75*	NA	1.00 "J"	1.72 "J"	1.95*	4.6*	1.46 "J"	6.18*	4.86*	7.06*	0.584	0.677	3	8	
Barium	mg/kg	63.0	42.1	70.5	43.4	50.4	37.6	85.1	31.4	NA	36.1	41.8	74.6	32.9	67.1	17.2	85.0	32.3	164.8	15,300	100,000	364	
Cadmium	mg/kg	0.289	0.155 "J"	0.252	0.313	0.191	0.130 "J"	0.256	0.166 "J"	NA	0.145 "J"	0.149 "J"	0.132 "J"	1.57	0.195	0.070 "J"	0.231	0.066 "J"	0.752	71.1	985	1	
Chromium	mg/kg	17.6	14.9	19.1	16.1	15.6	13.6	27.4	15.8	NA	16.0	18.1	24.4	14.1	20.6	12.2	19.4	14.5	360,000	NS	NS	44	
Lead	mg/kg	23.6	9.46	30.3*	21.6	39.6*	11.7	55.0	11.1	NA	7.15	7.07	11.7	9.33	25.3	10.7	170	7.56	27	400	800	52	
Mercury	mg/kg	0.040 "J"	0.025 "J"	0.032 "J"	0.033 "J"	0.031 "J"	0.055 "J"	0.057 "J"	0.023 "J"	NA	0.024 "J"	0.022 "J"	0.031 "J"	0.021 "J"	0.027 "J"	<0.018	0.051 "J"	<0.018	0.208	3.13	3.13	NS	
Selenium	mg/kg	<0.764	<0.764	<0.764	<0.764	<0.764	<0.764	1.37 "J"	<0.764	NA	<0.764	<0.764	<0.764	<0.764	<0.764	<0.764	<0.764	<0.764	0.52	391	5,840	NS	
Silver	mg/kg	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	NA	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	<0.127	0.8491	391	5,840	NS	

Notes:

- Unsaturated/smear zone versus saturated soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, or (2) soil moisture conditions recorded on soil boring logs during drilling.
- Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- NA = not analyzed NS = no standard established ND = No detections
- Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Background Threshold Value = Non-outlier trace element maximum levels in Wisconsin surface soils from USGS report "Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements" (revised February 2013).
- Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
- Methanol blank results: 2/15/2022: All VOCs reported below laboratory detection limits.
- Exceedances:
 - BOLD** = Concentration exceeds Groundwater Pathway RCL
 - [] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
 - { } = Concentration exceeds Industrial Direct Contact RCL (any depth)
 - *

Data entered / updated by: MMG Date: 3/15/2022
Data checked by: CCK Date: 3/15/2022

Table 2
Soil Analytical Results Table
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

Soil Sample Location:		B-4	B-6		B-7	B-8	Groundwater Pathway RCL ⁴	Non-Industrial Direct Contact RCL ⁵	Industrial Direct Contact RCL ⁶	Background Threshold Value ⁷
Sample Depth (feet bgs):		2-4	2-4	4-6	2-4	8-10				
Sample Collection Date:		2/21/22	2/23/22	2/23/22	2/23/22	2/23/22				
Native Soil (N) or Fill / Reworked Soil (F):		F	F	F	F	F				
Unsaturated/Smear Zone (U) or Saturated (S):		U	U	U	U	U				
Photoionization Detector	ppm	0.2	3.7	2.6	1.3	6.7	NS	NS	NS	NS
VOCs		ND	ND	ND	ND	ND				
PAHs										
Acenaphthene	mg/kg	0.054	0.024 "J"	NA	0.067	0.053	NS	3,590	45,200	NS
Acenaphthylene	mg/kg	0.0157 "J"	0.0157 "J"	NA	0.0277 "J"	<0.009	NS	NS	NS	NS
Anthracene	mg/kg	0.39	0.071	NA	0.23	0.115	196,9492	17,900	100,000	NS
Benzo(a)anthracene	mg/kg	0.63	0.28	NA	0.55	0.114	NS	1.14	20.8	NS
Benzo(a)pyrene	mg/kg	[0.86]	[0.52]	NA	[1.04]	[0.17]	0.47	0.115	2.11	NS
Benzo(b)fluoranthene	mg/kg	[1.06]	0.72	NA	[1.33]	0.194	0.4781	1.15	21.1	NS
Benzo(ghi)perylene	mg/kg	0.47	0.36	NA	0.67	0.129	NS	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.46	0.307	NA	0.53	0.073	NS	11.5	211	NS
Chrysene	mg/kg	0.93	0.56	NA	0.96	0.16	0.1442	115	2,110	NS
Dibenzo(a,h)anthracene	mg/kg	0.102	0.069	NA	[0.12]	0.0228 "J"	NS	0.115	2.11	NS
Fluoranthene	mg/kg	1.66	0.88	NA	1.81	0.47	88.8778	2,390	30,100	NS
Fluorene	mg/kg	0.088	0.0181 "J"	NA	0.064	0.056	14.8299	2,390	30,100	NS
Indeno(1,2,3-cd)pyrene	mg/kg	0.65	0.45	NA	0.87	0.138	NS	1.15	21.1	NS
1-Methylnaphthalene	mg/kg	<0.0118	<0.0118	NA	<0.0118	<0.0118	NS	17.6	72.7	NS
2-Methylnaphthalene	mg/kg	<0.0186	<0.0186	NA	<0.0186	<0.0186	NS	239	3,010	NS
Naphthalene	mg/kg	<0.0201	<0.0201	NA	0.032 "J"	0.0201	0.6582	5.52	24.1	NS
Phenanthrene	mg/kg	1.00	0.39	NA	1.03	0.56	NS	NS	NS	NS
Pyrene	mg/kg	1.38	0.73	NA	1.55	0.38	54.5455	1,790	22,600	NS
RCRA Metals										
Arsenic	mg/kg	1.59 "J" *	NA	2.61*	3.13*	<1.1	0.584	0.677	3	8
Barium	mg/kg	56.1	NA	72.4	93.5	29.3	164.8	15,300	100,000	364
Cadmium	mg/kg	0.679	NA	0.765*	0.767*	1.07	0.752	71.1	985	1
Chromium	mg/kg	16.7	NA	16.2	14.9	11.2	360,000	NS	NS	44
Lead	mg/kg	33.5*	NA	120	14.7	9.76	27	400	800	52
Mercury	mg/kg	< 0.038	NA	0.098 "J"	0.142	<0.038	0.208	3.13	3.13	NS
Selenium	mg/kg	< 1.3	NA	<1.3	<1.3	<1.3	0.52	391	5,840	NS
Silver	mg/kg	< 0.113	NA	<0.113	<0.113	<0.113	0.8491	391	5,840	NS

Notes:

- Unsaturated/smear zone versus saturated soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, or (2) soil moisture conditions recorded on soil boring logs during drilling.
- Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- NA = not analyzed NS = no standard established ND = No detections
- Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014.
- Background Threshold Value = Non-outlier trace element maximum levels in Wisconsin surface soils from USGS report "Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements" (revised February 2013).
- Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
- Methanol blank results: 2/15/2022: All VOCs reported below laboratory detection limits.
- Exceedances:
 - BOLD** = Concentration exceeds Groundwater Pathway RCL
 - []** = Concentration exceeds Non-Industrial Direct Contact RCL (any depth) Data entered / updated by: MMG Date: 3/15/2022
 - { }** = Concentration exceeds Industrial Direct Contact RCL (any depth) Date checked by: CCK Date: 3/15/2022
 - *** = Concentration is below Background Threshold Value. NR 720 RCL exceedances are not indicated.

Table 3
Groundwater Analytical Results Table
5 Points Development - 3317-3345 North MLK Drive and 456 West Concordia Avenue, Milwaukee, WI
Sigma Project No. 20457

Well Location:	TW-1	TW-2	TW-5	TW-8	DUP	NR 140 ES	NR 140 PAL
Date:	2/18/22	2/18/22	2/18/22	2/21/22	2/21/22		
Water Elevation* (feet MSL):	NA	NA	NA	NA	NA		
VOCs							
1,4-Dioxane	µg/L	NA	NA	NA	NA	3	0.3
Benzene	µg/L	<0.3	<0.3	<0.3	<0.3	5	0.5
Bromobenzene	µg/L	<0.34	<0.34	<0.34	<0.34	NS	NS
Bromodichloromethane	µg/L	<0.36	<0.36	<0.36	<0.36	0.6	0.06
Bromoform	µg/L	<0.42	<0.42	<0.42	<0.42	4.4	0.44
tert-Butylbenzene	µg/L	<0.37	<0.37	<0.37	<0.37	NS	NS
sec-Butylbenzene	µg/L	<0.33	<0.33	<0.33	<0.33	NS	NS
n-Butylbenzene	µg/L	<0.71	<0.71	<0.71	<0.71	NS	NS
Carbon Tetrachloride	µg/L	<0.34	<0.34	<0.34	<0.34	5	0.5
Chlorobenzene	µg/L	<0.29	<0.29	<0.29	<0.29	100	20
Chloroethane	µg/L	<0.62	<0.62	<0.62	<0.62	400	80
Chloroform	µg/L	<0.33	<0.33	<0.33	<0.33	6	0.6
Chloromethane	µg/L	<0.74	<0.74	<0.74	<0.74	30	3
2-Chlorotoluene	µg/L	<0.34	<0.34	<0.34	<0.34	NS	NS
4-Chlorotoluene	µg/L	<0.4	<0.4	<0.4	<0.4	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	<0.74	<0.74	<0.74	<0.74	0.2	0.02
Dibromochloromethane	µg/L	<0.36	<0.36	<0.36	<0.36	60	6
1,4-Dichlorobenzene	µg/L	<0.49	<0.49	<0.49	<0.49	75	15
1,3-Dichlorobenzene	µg/L	<0.35	<0.35	<0.35	<0.35	600	120
1,2-Dichlorobenzene	µg/L	<0.4	<0.4	<0.4	<0.4	600	60
Dichlorodifluoromethane	µg/L	<0.3	<0.3	<0.3	<0.3	1,000	200
1,2-Dichloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	5	0.5
1,1-Dichloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	850	85
1,1-Dichloroethene	µg/L	<0.43	<0.43	<0.43	<0.43	7	0.7
cis-1,2-Dichloroethene	µg/L	<0.32	<0.32	<0.32	<0.32	70	7
trans-1,2-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	100	20
1,2-Dichloropropane	µg/L	<0.39	<0.39	<0.39	<0.39	5	0.5
1,3-Dichloropropane	µg/L	<0.38	<0.38	<0.38	<0.38	NS	NS
trans-1,3-Dichloropropene	µg/L	<0.41	<0.41	<0.41	<0.41	0.40	0.04
cis-1,3-Dichloropropene	µg/L	<0.41	<0.41	<0.41	<0.41	0.40	0.04
Di-isopropyl ether	µg/L	<0.48	<0.48	<0.48	<0.48	NS	NS
EDB (1,2-Dibromoethane)	µg/L	<0.39	<0.39	<0.39	<0.39	0.05	0.005
Ethylbenzene	µg/L	<0.33	<0.33	<0.33	<0.33	700	140
Hexachlorobutadiene	µg/L	<0.81	<0.81	<0.81	<0.81	NS	NS
Isopropylbenzene	µg/L	<0.34	<0.34	<0.34	<0.34	NS	NS
p-Isopropyltoluene	µg/L	<0.47	<0.47	<0.47	<0.47	NS	NS
Methylene Chloride	µg/L	<0.79	<0.79	<0.79	<0.79	5	0.5
Methyl-tert-butyl-ether	µg/L	<0.47	<0.47	<0.47	<0.47	60	12
Naphthalene	µg/L	<1.4	<1.4	<1.4	<1.4	100	10
n-Propylbenzene	µg/L	<0.39	<0.39	<0.39	<0.39	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	<0.43	<0.43	<0.43	<0.43	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.55	<0.55	<0.55	<0.55	70	7
Tetrachloroethene	µg/L	<0.47	<0.47	<0.47	<0.47	5	0.5
Toluene	µg/L	<0.33	<0.33	<0.33	<0.33	800	160
1,2,4-Trichlorobenzene	µg/L	<0.63	<0.63	<0.63	<0.63	70	14
1,2,3-Trichlorobenzene	µg/L	<1.4	<1.4	<1.4	<1.4	NS	NS
1,1,1-Trichloroethane	µg/L	<0.33	<0.33	<0.33	<0.33	200	40
1,1,2-Trichloroethane	µg/L	<0.42	<0.42	<0.42	<0.42	5	0.5
Trichloroethene (TCE)	µg/L	<0.38	<0.38	<0.38	<0.38	5	0.5
Trichlorofluoromethane	µg/L	<0.33	<0.33	<0.33	<0.33	3,490	698
1,2,4-Trimethylbenzene	µg/L	<0.35	<0.35	<0.35	<0.35	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.41	<0.41	<0.41	<0.41	NS	NS
Total Trimethylbenzene	µg/L	<0.76	<0.76	<0.76	<0.76	480	96
Vinyl Chloride	µg/L	<0.15	<0.15	<0.15	<0.15	0.2	0.02
Xylenes, Total	µg/L	<0.101	<0.101	<0.101	<0.101	2,000	400
PAHs							
Acenaphthene	µg/L	0.011 "J"	0.081	NA	NA	NS	NS
Acenaphthylene	µg/L	< 0.0156	< 0.0156	NA	NA	NS	NS
Anthracene	µg/L	< 0.015	0.079	NA	NA	3,000	600
Benzo(a)anthracene	µg/L	0.032 "J"	0.224	NA	NA	NS	NS
Benzo(a)pyrene	µg/L	0.0209 "J" **	0.174	NA	NA	0.2	0.02
Benzo(b)fluoranthene	µg/L	0.0201 "J" **	0.252	NA	NA	0.2	0.02
Benzo(ghi)perylene	µg/L	< 0.0142	0.105	NA	NA	NS	NS
Benzo(k)fluoranthene	µg/L	0.0181 "J"	0.126	NA	NA	NS	NS
Chrysene	µg/L	0.0284 "J" **	0.249	NA	NA	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	< 0.0173	0.0272 "J"	NA	NA	NS	NS
Fluoranthene	µg/L	0.0298	0.6	NA	NA	400	80
Fluorene	µg/L	0.015 "J"	0.045	NA	NA	400	80
Indeno(1,2,3-cd)pyrene	µg/L	< 0.0121	0.095	NA	NA	NS	NS
1-Methylnaphthalene	µg/L	< 0.0191	< 0.0191	NA	NA	NS	NS
2-Methylnaphthalene	µg/L	0.0217 "J"	< 0.0186	NA	NA	NS	NS
Naphthalene	µg/L	< 0.03	< 0.03	NA	NA	100	10
Phenanthrene	µg/L	0.042 "J"	0.206	NA	NA	NS	NS
Pyrene	µg/L	0.0258 "J"	0.35	NA	NA	250	50
Dissolved Metals							
Arsenic	µg/L	<4.4	<4.4	<4.4	NA	10	1
Barium	µg/L	44.1	26.6	63.6	NA	2,000	400
Cadmium	µg/L	0.762 "J" **	<0.479	<0.479	NA	5	0.5
Chromium	µg/L	<1.4	<1.4	2.75 "J"	NA	100	10
Lead	µg/L	<2.99	<2.99	<2.99	NA	15	1.5
Mercury	µg/L	<0.1	<0.1	<0.1	NA	2	0.2
Selenium	µg/L	<7.35	<7.35	<7.35	NA	50	10
Silver	µg/L	<1.54	<1.54	<1.54	NA	50	10

Notes:

- NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
- NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
- NS = no standard NA = Not Analyzed
- µg/L = micrograms per liter (equivalent to parts per billion, ppb)
- Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation.
- Trip blank results: 2/21/2022: All VOCs reported below laboratory detection limits.
- Equipment blank results: 2/21/2022: Not Collected
- Exceedances: **BOLD** = Concentration exceeds NR 140 ES
ITALICS = Concentration exceeds NR 140 PAL
- Special notes: * = monitoring well screen submerged below water table
** = not an NR 140 ES or PAL exceedance per NR 140.14(3)(c)

Data Entered By: JMD Date: 3/17/2022
Data Reviewed By: CCK Date: 3/17/2022

Figures

1. Site Location Map
2. Detailed Site Plan Map
3. Proposed Additional Site Investigation Map

DATE: 11/1/2021

CREATED BY: MSR

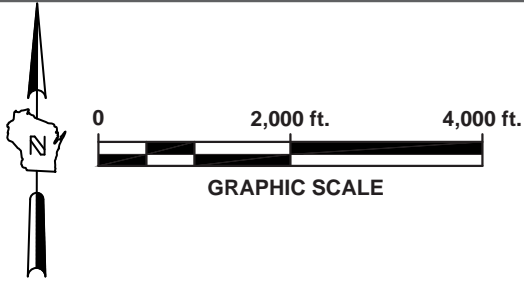
FILENAME: 20457_Fig 1_SLM.pdf

DIRECTORY: CAD

PROJECT: 20457



SUBJECT PROPERTY



LOCATED IN THE SE 1/4 OF SECTION 8, T07N, R22E
 MILWAUKEE, WISCONSIN MAP QUADRANGLE (2018)
 7.5 MINUTE, 1 : 24,000 TOPOGRAPHIC MAP COLLECTION



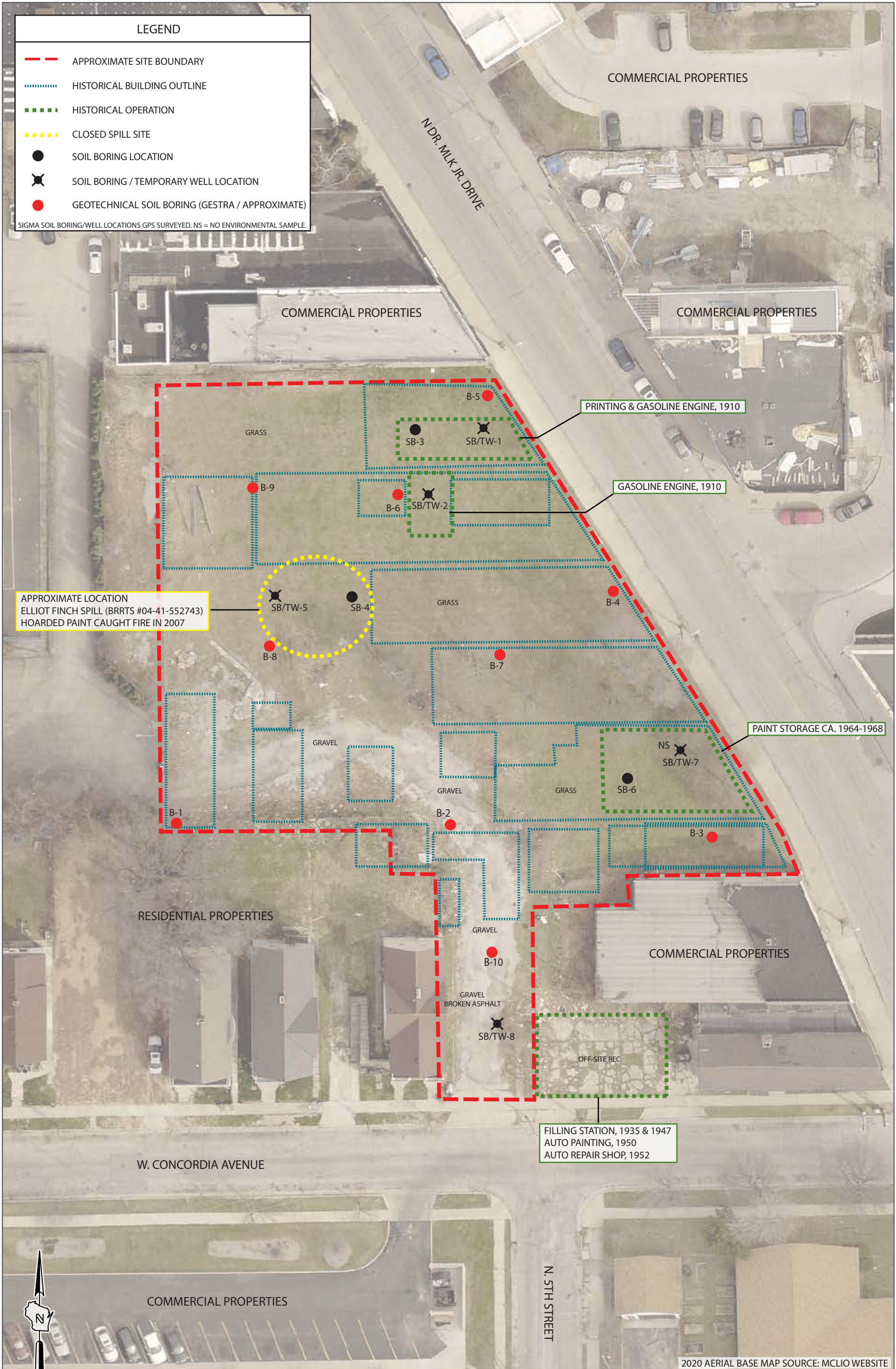
SITE LOCATION MAP
 3317-3345 N. MLK DRIVE & 456 W. CONCORDIA AVENUE, MILWAUKEE, WISCONSIN

FIGURE
1

LEGEND

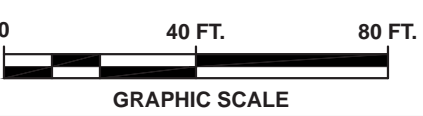
- APPROXIMATE SITE BOUNDARY
- HISTORICAL BUILDING OUTLINE
- HISTORICAL OPERATION
- CLOSED SPILL SITE
- SOIL BORING LOCATION
- ✕ SOIL BORING / TEMPORARY WELL LOCATION
- GEOTECHNICAL SOIL BORING (GESTRA / APPROXIMATE)

SIGMA SOIL BORING/WELL LOCATIONS GPS SURVEYED. NS = NO ENVIRONMENTAL SAMPLE.



2020 AERIAL BASE MAP SOURCE: MCLIO WEBSITE

PROJECT: 20457 | DIRECTORY: CAD | FILENAME: 20457_Master Map_17x11.ai | CREATED BY: JMD/CCK | DATE: 05/02/2022



THE SIGMA GROUP
Single Source. Sound Solutions.

DETAILED SITE PLAN MAP

5 POINTS DEVELOPMENT
 N. MLK DRIVE & W. CONCORDIA AVENUE
 MILWAUKEE, WISCONSIN

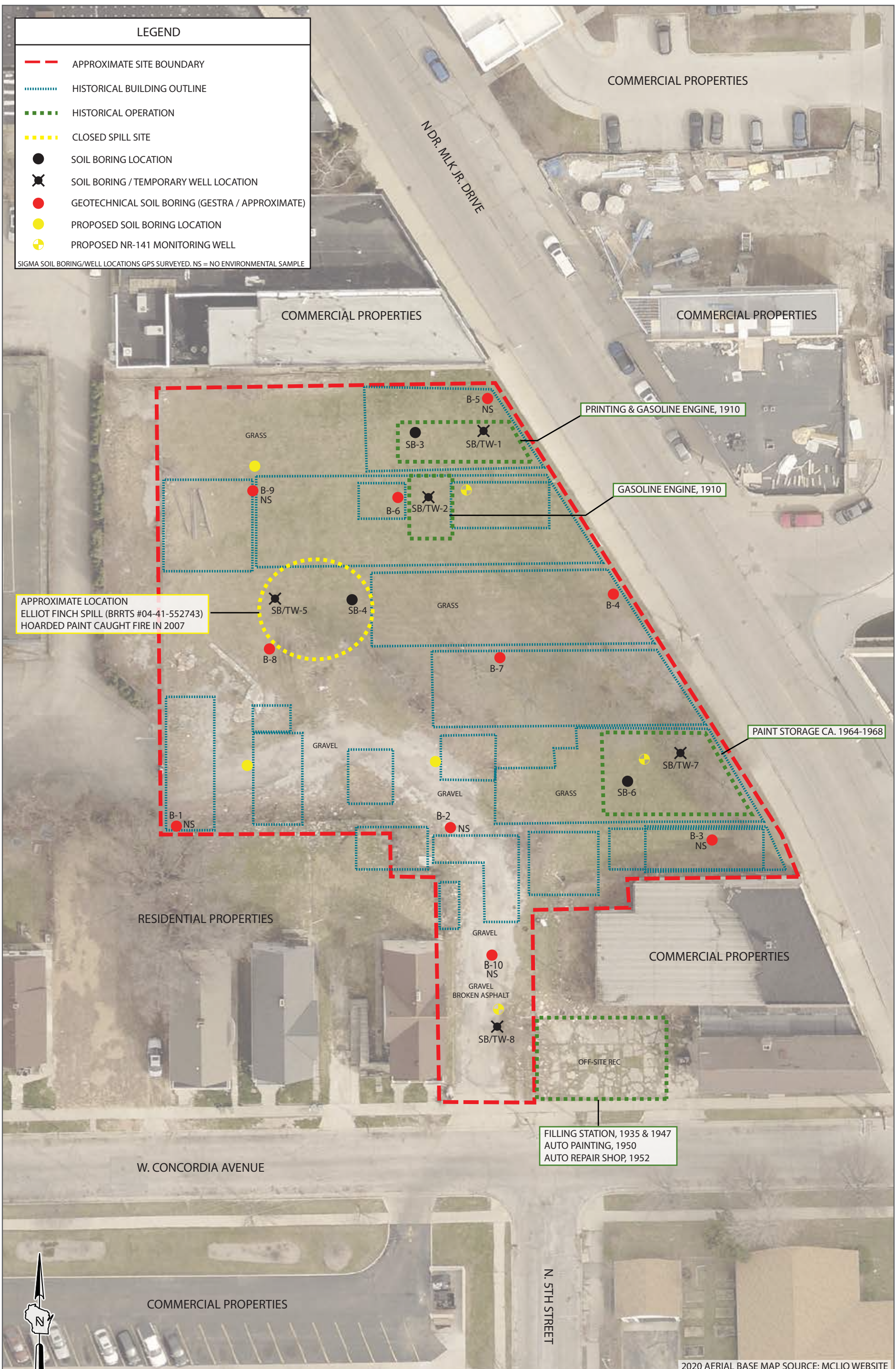
FIGURE

2

LEGEND

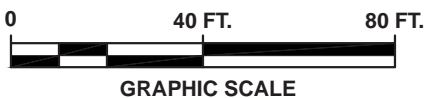
- APPROXIMATE SITE BOUNDARY
- HISTORICAL BUILDING OUTLINE
- HISTORICAL OPERATION
- CLOSED SPILL SITE
- SOIL BORING LOCATION
- ✕ SOIL BORING / TEMPORARY WELL LOCATION
- GEOTECHNICAL SOIL BORING (GESTRA / APPROXIMATE)
- PROPOSED SOIL BORING LOCATION
- ⊕ PROPOSED NR-141 MONITORING WELL

SIGMA SOIL BORING/WELL LOCATIONS GPS SURVEYED. NS = NO ENVIRONMENTAL SAMPLE



2020 AERIAL BASE MAP SOURCE: MCLIO WEBSITE

PROJECT: 20457 | DIRECTORY: CAD | FILENAME: 20457_Master Map_17x11.ai | CREATED BY: JMD/CCK | DATE: 05/02/2022



**PROPOSED ADDITIONAL
SITE INVESTIGATION MAP**
 5 POINTS DEVELOPMENT
 N. MLK DRIVE & W. CONCORDIA AVENUE
 MILWAUKEE, WISCONSIN

FIGURE
3

Appendix A


Soil Boring Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-1/TW-1		
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022		
Drilling Method Direct Push			WI Unique Well No.		DNR Well ID No.		
Common Well Name TW-1			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
Borehole Diameter 2.3 inches			Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location		
State Plane N, E S/C/N			Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		<input type="checkbox"/> N <input type="checkbox"/> E		
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 42	P U S H	0.0 - 1.5	Black, non-plastic silt loam (topsoil). Dry. Base course gravel.	TOPSOIL			0.0							
			1.5 - 4.5	Brown SILTY CLAY, some inclusions with SAND and angular GRAVEL, fine to coarse. Trace brick fragments. Dry to moist at 7' bgs. Fill.	FILL			0.0							Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals
2 GP	60 42	P U S H	4.5 - 9.0	Gray, stiff CLAY. Wet.				0.0							Sampled 8-10' bgs for VOCs, PAHs, and RCRA Metals
3 GP	60 30	P U S H	9.0 - 15.0	Installed 1" temporary monitoring well, set at 15' bgs, 10' screen.	CL			0.0							

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


Signature  Firm **The Sigma Group, Inc.** 1300 W Canal St Milwaukee, WI 53233
Tel: 414-643-4200 Fax: 414-643-4210

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-2/TW-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-2	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane N, E S/C/N			Lat ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long ° ' "		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1 GP	60 54	P U S H	0.0	Black, non-plastic silt loam (topsoil). Dry.	TOPSOIL			0.0								
			1.5	Brown SILTY CLAY, with some SAND and GRAVEL, fine to coarse. Trace brick fragments. Dry.												
2 GP	60 54	P U S H	3.0													
			4.5													
3 GP	60 24	P U S H	6.0													
			7.5	Black SAND, possible foundry material. Brick fragments.	FILL											
3 GP	60 24	P U S H	8.0	Crushed clear GRAVEL and SAND, with some brick fragments. Moist.	FILL											
			9.0													
3 GP	60 24	P U S H	10.5	SAND and GRAVEL with some brick fragments. Wet.	FILL											
			12.0													
3 GP	60 24	P U S H	13.5													
			15.0	Gray, stiff CLAY, wet. Native	CL											
				Installed 1" temporary monitoring well, set at 15' bgs, 10' screen.												

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


Signature 	Firm The Sigma Group, Inc. 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane N, E S/C/N			Lat <input type="checkbox"/> N <input type="checkbox"/> E			
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 30	P U S H	0.0	Black, non-plastic silt loam (topsoil).	TOPSOIL			0.0							
			1.5	Brown, SILTY CLAY with some inclusions of angular, fine to coarse GRAVEL, white towards bottom.					0.0					Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals.	
2 GP	60 36	P U S H	3.0					0.0							
			4.5		FILL			0.0							
3 GP	60 60	P U S H	6.0					0.0							
			7.5					0.0							
			9.0					0.0							
			10.5	Gray CLAY. Wet. Native.	CL			0.0					Sampled 10-12' bgs for VOCs, PAHs, and RCRA Metals		
			12.0					0.0							
			13.5					0.0							
			15.0	End of boring at 15' bgs. Abandoned with bentonite chips.				0.0							

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


Signature  Firm **The Sigma Group, Inc.**
1300 W Canal St Milwaukee, WI 53233 Tel: 414-643-4200 Fax: 414-643-4210

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-4		
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022		
Drilling Method Direct Push			WI Unique Well No.		DNR Well ID No.		
Common Well Name			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
Borehole Diameter 2.3 inches			Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location		
State Plane NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Lat _____ ' _____ "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 54	P U S H	0.0	Black, non-plastic silt loam (topsoil).	TOPSOIL			0.0							
			1.5	Brown SILTY CLAY, some inclusions of brick and angular, fine to coarse GRAVEL. Dry.	FILL			0.4						Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals.	
2 GP	60 60	P U S H	3.0	Brown SILTY CLAY, some inclusions of brick, and fine to coarse GRAVEL with trace wood fragments.	FILL			0.2							
			6.0	Moist at 9' bgs.	FILL			0.0							
3 GP	60 60	P U S H	9.0	Gray, SILTY CLAY. Native. Wet.	CL			0.1						Sampled 10-12' bgs for VOCs, PAHs, and RCRA Metals	
			12.0	End of boring at 15' bgs. Abandoned with bentonite chips.				0.0							
			15.0					0.0							

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


Signature 	Firm The Sigma Group, Inc. 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-5/TW-5	
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name TW-5	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane N, E S/C/N			Lat <input type="checkbox"/> N <input type="checkbox"/> E			
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60	PUSH	0.0	Black, non-plastic silt loam (topsoil).	TOPSOIL			0.0							
	60		1.5	Brown SILTY CLAY, trace GRAVEL, trace SAND. Dry.				0.1							
2 GP	60	PUSH	4.5	Gray, stiff CLAY, moist at 8' bgs.	FILL			0.0							Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals
			54					6.0							
3 GP	60	PUSH	7.5					0.1							Sampled 12-14' bgs for VOCs, PAH, and RCRA Metals
			60					10.5							
4 GP	60	PUSH	12.0	Wet at 15' bgs.	CL			0.0							
			60					15.0							
			16.5					0.0							
			18.0												

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

Signature 	Firm The Sigma Group, Inc. 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-6	
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022	
Drilling Method Direct Push						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane N, E S/C/N			Lat <input type="checkbox"/> N <input type="checkbox"/> E			
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long <input type="checkbox"/> S <input type="checkbox"/> W			
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 54	P U S H	0.0	Black, non-plastic silt loam (topsoil). Dry.	TOPSOIL			0.1							
			1.5	Brown SILT with some angular, fine to coarse GRAVEL, with trace brick fragments. Dry.	FILL			0.1						Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals.	
2 GP	60 60	P U S H	3.0	Brown, SILTY CLAY with trace GRAVEL. Moist at 8' bgs.				0.1							
			4.5					0.1							
3 GP	60 50	P U S H	6.0		FILL			0.1							
			7.5					0.1							
			9.0					0.1							
			10.5	Gray CLAY with trace GRAVEL, fine to coarse, angular to sub rounded. Wet at 14' bgs.	CL			0.1					Sampled 10-12' bgs for VOCs, PAHs, and RCRA Metals		
			12.0					0.0							
			13.5					0.0							
			15.0	End of boring at 15' bgs. Abandoned with bentonite chips.											

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


Signature 	Firm The Sigma Group, Inc. 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-7/TW-7			
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022			
Drilling Method Direct Push		WI Unique Well No.		DNR Well ID No.		Common Well Name TW-7		
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.3 inches				
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			State Plane N, E S/C/N			Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Lat _____"		Long _____"			
Facility ID		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 54	PUSH	0.0	Black, non-plastic silt loam (topsoil).	TOPSOIL			0.1							
			1.5	Brown, SILT with some GRAVEL, angular, fine to coarse with some concrete pieces.				0.0						Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals.	
2 GP	60 54	PUSH	3.0					0.0							
			4.5		FILL			0.0							
3 GP	60 48	PUSH	6.0					0.1						Sampled 10-12' bgs for VOCs, PAHs, and RCRA Metals	
			9.0	Moist at 9' bgs.				0.1							
			10.5	Stiff, gray CLAY with trace GRAVEL. Native. Wet.	CL			0.0							
			12.0					0.0							
			13.5					0.0							
			15.0	Installed 1" temporary monitoring well, set at 15' bgs, 10' screen.											

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


Signature  Firm **The Sigma Group, Inc.** 1300 W Canal St Milwaukee, WI 53233
Tel: 414-643-4200 Fax: 414-643-4210

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name KG Development - 5 Points Development			License/Permit/Monitoring Number		Boring Number SB-8/TW-8		
Boring Drilled By: Name of crew chief (first, last) and Firm Zach Frye GESTRA			Date Drilling Started 2/15/2022		Date Drilling Completed 2/15/2022		
Drilling Method Direct Push			WI Unique Well No.		DNR Well ID No.		
Common Well Name TW-8			Final Static Water Level Feet MSL		Surface Elevation Feet MSL		
Borehole Diameter 2.3 inches			Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location		
State Plane N, E S/C/N			Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		<input type="checkbox"/> N <input type="checkbox"/> E		
NW 1/4 of SE 1/4 of Section 8, T 7 N, R 22 E			Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Milwaukee		County Code 41		Civil Town/City/ or Village Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	60 48	P U S H	0.0	Black, non-plastic silt loam (topsoil).	TOPSOIL			0.0							
			1.5	Black and white SAND and GRAVEL. Dry.	FILL										
2 GP	60 48	P U S H	3.0	Brown SILT with trace GRAVEL, angular, fine to coarse.				0.1						Sampled 2-4' bgs for VOCs, PAHs, and RCRA Metals	
			4.5												
3 GP	60 48	P U S H	6.0		FILL			0.0						Sampled 12-14' bgs for VOCs, PAH, and RCRA Metals	
			7.5												
4 GP	60 60	P U S H	9.0	Moist at 9' bgs.				0.5							
			10.5												
			12.0	Gray, stiff CLAY with trace GRAVEL. Native. Wet.				0.1							
			13.5												
			15.0		CL			0.0							
			16.5												
			18.0					0.5							

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

Signature 	Firm The Sigma Group, Inc. 1300 W Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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GESTRA Engineering Inc.
191 W Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

SOIL BORING LOG

PAGE NUMBER		1 of 2
PROJECT NAME	DATE DRILLING STARTED	BORING NUMBER
Five Points Housing	2/28/2022	B-1
PROJECT LOCATION	DATE DRILLING ENDED	PROJECT NUMBER
Milwaukee, WI	2/28/2022	22024-10
BORING DRILLED BY		DRILLING RIG
FIRM: GESTRA CREW CHIEF: S. Gonyer		Diedrich D50 ATV
FIELD LOG	LATITUDE	DRILLING METHOD
C. Holtan		3 1/4" HSA
LAB LOG / QC	LONGITUDE	SURFACE ELEVATION
E. Jeske/C. Holtan		154.1 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
AU - 1						ASPHALT (4-inches)								
						BASE COURSE (6-inches)								
SS - 2	12	12 10 10	20			GRAVEL WITH SILT AND SAND, dark brown, moist to very moist, trace asphalt pieces, (FILL)								
						LEAN CLAY, brown, very stiff to hard, trace gravel				2.25			11	Sample made up of auger cuttings
SS - 3	11	11 10 11	21	5	150.0		CL			4.50			12.5	
SH - 4	11.5					With sand laminations and lenses in SH-4							15	
SS - 5	17	8 7 10	17	10	145.0	LEAN CLAY, gray, moist, hard, trace sand	CL			4.00			13.7	
SS - 6	18	3 3 7	10			LEAN CLAY, gray, moist, very stiff, trace sand				2.25			14.5	
SS - 7	18	2 4 5	9	15	140.0		CL			3.25			12.7	
SS - 8	18	2 6 7	13	20	135.0		CL			3.00			13.1	
SS - 9	19	4 5 9	14	25	130.0					3.75			14.5	

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-1
PROJECT NUMBER	22024-10
DRILLING RIG	Diedrich D50 ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	154.1 ft

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/28/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/28/2022

BORING DRILLED BY	FIELD LOG	LATITUDE
FIRM: GESTRA	C. Holtan	
CREW CHIEF: S. Gonyer	LAB LOG / QC	LONGITUDE
	E. Jeske/C. Holtan	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _c) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	15	6 5 10	15	125.0	LEAN CLAY, gray, moist, very stiff, trace sand	CL			3.50			17.4	
				120.0									
SS - 11	19	3 7 9	16	35	36 (118.1)				3.50			9.3	
End of Boring at 36.0 ft.													
				40									
				45									
				50									

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



GESTRA Engineering Inc.
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SOIL BORING LOG

PAGE NUMBER		1 of 2
PROJECT NAME	DATE DRILLING STARTED	BORING NUMBER
Five Points Housing	2/28/2022	B-2
PROJECT LOCATION	DATE DRILLING ENDED	PROJECT NUMBER
Milwaukee, WI	2/28/2022	22024-10
BORING DRILLED BY		DRILLING RIG
FIRM: GESTRA CREW CHIEF: Z. Frye		Diedrich D50 ATV
FIELD LOG	LATITUDE	DRILLING METHOD
C. Holtan		3 1/4" HSA
LAB LOG / QC	LONGITUDE	SURFACE ELEVATION
E. Jeske/C. Holtan		151.7 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
AU - 1				150.0		ASPHALT (4-Inches) BASE COURSE (6-inches) LEAN CLAY, dark brown to dark gray, moist, (FILL)								Sample made up of auger cuttings
SS - 2	11	7 8 6	14			Trace possible foundry materials, black, odor							8	
SS - 3	11	2 3 3	6	5		LEAN CLAY, brown, moist, trace sand and gravel, (FILL)							18.8	
SS - 4	14	2 3 7	10		145.0	LEAN CLAY, brown, moist, very stiff	CL			(2.8)	25	10	18.6	γ _d = 118.4 pcf γ _T = 140.3 pcf
SS - 5	16	2 4 5	9	10		LEAN CLAY, gray, moist, very stiff, trace sand and gravel				2.00			13.4	
SS - 6	18	2 4 5	9		140.0		CL			2.00			12.7	
SS - 7	16	2 3 5	8	15		Sand lamination in SS-7				2.25			12.6	
SS - 8	18	3 5 6	11	20		LEAN CLAY, gray, moist, very stiff							15.1	
SS - 9	9	3 6 7	13	25			CL			2.00			14	

WATER & CAVE-IN OBSERVATION DATA

WATER ENCOUNTERED DURING DRILLING: NE ft.	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
WATER LEVEL AT COMPLETION: NE	CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
WATER LEVEL AFTER 0 HOURS: NE		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-2
PROJECT NUMBER	22024-10
DRILLING RIG	Diedrich D50 ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	151.7 ft

GESTRA Engineering Inc.
 191 W Edgerton Avenue
 Milwaukee, WI 53207
 Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
2/28/2022

DATE DRILLING ENDED
2/28/2022

BORING DRILLED BY

FIRM: GESTRA
 CREW CHIEF: Z. Frye

FIELD LOG
 C. Holtan

LAB LOG / QC
 E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	24	6 8 9	17	125.0	LEAN CLAY, gray, moist, very stiff	CL			3.25			12.5	
				30									
SS - 11	21	4 6 8	14	120.0	Silt lens in SS-11				2.25			14.9	
				35									
				115.0	End of Boring at 36.0 ft.								
				40									
				110.0									
				45									
				105.0									
				50									
				100.0									

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER
1 of 2

BORING NUMBER
B-2A

PROJECT NUMBER
22024-10

DRILLING RIG
CME LX55 ATV

DRILLING METHOD
4 1/4" HSA w/ RW

SURFACE ELEVATION
151.7 ft

GESTRA Engineering Inc.
191 W Edgerton Avenue
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PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
3/4/2022

DATE DRILLING ENDED
3/4/2022

BORING DRILLED BY

FIRM: **GESTRA**
CREW CHIEF: **A. Woerpel**

FIELD LOG
J. Metzinger

LAB LOG / QC
E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	15	3 5 5	10	150.0	Refer to boring B-2 for starta profile from 0-feet to 10-feet								Boring drilled offset within 5-feet of boring location B-2, offset direction not recorded Blind drill 0-feet to 10-feet
				145.0									
SH - 2	24			140.0	LEAN CLAY, gray, moist, trace sand and gravel Driller note: possible COBBLES at 12-feet				2.0 - 3.0				Pressuremeter test #1 at 15-feet
				135.0									
				130.0	5-inches thick, silty sand layer at the top of sample SH-2				(2)			13	γ _d = 126.2 pcf γ _T = 142.7 pcf
				25									Pressuremeter test #2 at 23.5-feet

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER
2 of 2

BORING NUMBER
B-2A

PROJECT NUMBER
22024-10

DRILLING RIG
CME LX55 ATV

DRILLING METHOD
4 1/4" HSA w/ RW

SURFACE ELEVATION
151.7 ft

GESTRA Engineering Inc.
191 W Edgerton Avenue
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PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
3/4/2022

DATE DRILLING ENDED
3/4/2022


BORING DRILLED BY
FIRM: **GESTRA**
CREW CHIEF: **A. Woerpel**

FIELD LOG
J. Metzinger

LAB LOG / QC
E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SH - 3	22			125.0	LEAN CLAY, gray, moist, trace sand and gravel								Pressuremeter test #3 at 32.5-feet
				115.0	Wet silty sand layer at the top of SH-3				1.75-2.5				
				38 (113.7)	End of Boring at 38.0 ft.								

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



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SOIL BORING LOG

PAGE NUMBER		1 of 2
PROJECT NAME	DATE DRILLING STARTED	BORING NUMBER
Five Points Housing	2/28/2022	B-3
PROJECT LOCATION	DATE DRILLING ENDED	PROJECT NUMBER
Milwaukee, WI	2/28/2022	22024-10
BORING DRILLED BY		DRILLING RIG
FIRM: GESTRA CREW CHIEF: S. Gonyer		Diedrich D50 ATV
FIELD LOG	LATITUDE	DRILLING METHOD
C. Holtan		3 1/4" HSA
LAB LOG / QC	LONGITUDE	SURFACE ELEVATION
E. Jeske/C. Holtan		145.9 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _c) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	18	7 12 10 14	22	145.0	TOPSOIL (3-Inches) LEAN CLAY, red brown with light brown, trace gravel, (FILL)				0.3 (145.6)			13.6	Frost depth = 10-inches
	14	6 8 11	19		Color change to brown mottled gray in sample SS-2							14.4	
SS - 3	8	3 8 11	19	140.0	LEAN CLAY WITH SAND, brown, moist, trace decomposed wood, brick pieces, (FILL)				6.1 (139.8)			13.8	
	16	5 7 11	18		LEAN CLAY, brown, moist, very stiff				8.9 (137)			18.1	
SS - 5	14	2 5 6	11	135.0	Sand lamination in SS-5	CL			3.00			16.3	
	9	3 6 3	9		LEAN CLAY, gray, moist, stiff to very stiff, with sand, trace gravel				3.50			15	
SS - 7	11	2 3 2	5	130.0	Very moist silt layer in sample SS-7	CL			2.00			13.7	
	17	2 4 7	11	125.0	LEAN CLAY, gray, moist, very stiff to hard, trace gravel				3.25			10.7	
SS - 9	18	4 7 11	18	120.0	Silt lens in sample SS-9	CL			4.50			13.9	

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER
2 of 2

BORING NUMBER
B-3

PROJECT NUMBER
22024-10

DRILLING RIG
Diedrich D50 ATV

DRILLING METHOD
3 1/4" HSA

SURFACE ELEVATION
145.9 ft

GESTRA Engineering Inc.
191 W Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
2/28/2022

DATE DRILLING ENDED
2/28/2022

BORING DRILLED BY
FIRM: **GESTRA**
CREW CHIEF: **S. Gonyer**

FIELD LOG
C. Holtan

LAB LOG / QC
E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	18	269	15	30	LEAN CLAY, gray, moist, very stiff to hard, trace gravel	CL			4.00			13.1	
				115.0									
SS - 11	9	414	26	35	End of Boring at 36.0 ft.				3.00			8.8	
				110.0									
				40									
				105.0									
				45									
				100.0									
				50									
				95.0									

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER
1 of 2

BORING NUMBER
B-4

PROJECT NUMBER
22024-10

DRILLING RIG
Geoprobe ATV

GESTRA Engineering Inc.
191 W Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
2/22/2022

DATE DRILLING ENDED
2/22/2022

BORING DRILLED BY
FIRM: **GESTRA**
CREW CHIEF: **Z. Frye**

FIELD LOG
P. Chavez

LATITUDE

LONGITUDE

DRILLING METHOD
3 1/4" HSA

SURFACE ELEVATION
145.3 ft

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	18	9 11 10 9	21	145.0		TOPSOIL (4")								Frost depth = 9-inches
						LEAN CLAY, dark brown, moist, trace to with sand, trace gravel, (FILL)							16.3	
SS - 2	15	2 3 3	6			Black clay with organic layer in SS-2							15.1	
SS - 3	4	2 2 2	4	5	140.0	Red brick piece in sample SS-3							19.5	
SS - 4	9	0 0 2	2			With dark gray in sample SS-4, trace root hairs							28.3	
SS - 5	3	50/5"	R	10	135.0	CLAYEY SAND, gray, wet, trace gravel, (FILL)							23.2	Driller noted auger refusal at 10-feet; driller offset boring 7-feet south; blinded to 12-feet and resumed sampling.
SS - 6	18	3 8 9	17			LEAN CLAY, gray, moist, very stiff to hard, trace sand				4.00			12.9	
SS - 7	18	3 5 8	13	15	130.0		CL			3.00			12	
SS - 9	18	6 9 10	19	25	120.0								14	Driller forgot to take sample from 19.5-feet to 21-feet

WATER & CAVE-IN OBSERVATION DATA

WATER ENCOUNTERED DURING DRILLING: 9.5 ft.	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
WATER LEVEL AT COMPLETION: NMR	CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
WATER LEVEL AFTER 0 HOURS: NMR		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-4
PROJECT NUMBER	22024-10
DRILLING RIG	Geoprobe ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	145.3 ft

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/22/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/22/2022
BORING DRILLED BY	FIRM: GESTRA CREW CHIEF: Z. Frye	FIELD LOG	P. Chavez
		LAB LOG / QC	E. Jeske
		LATITUDE	
		LONGITUDE	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	18	7	29	30	115.0	LEAN CLAY, gray, moist, very stiff to hard, trace sand	CL			2.00			12.8	
		12		17										
SS - 11	18	5	24	35	110.0	Trace gravel, with silt lens in sample SS-11				3.00			15.4	
		12				36 (109.3)								
End of Boring at 36.0 ft.														
				40	105.0									
				45	100.0									
				50	95.0									

WATER & CAVE-IN OBSERVATION DATA

WATER ENCOUNTERED DURING DRILLING: 9.5 ft.	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
WATER LEVEL AT COMPLETION: NMR	CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
WATER LEVEL AFTER 0 HOURS: NMR		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



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SOIL BORING LOG

PAGE NUMBER		1 of 2
BORING NUMBER	B-5	
PROJECT NUMBER	22024-10	
DRILLING RIG	CME LX55 ATV	
DRILLING METHOD	4 1/4" HSA w/ RW	
SURFACE ELEVATION	143.8 ft	

PROJECT NAME	DATE DRILLING STARTED
Five Points Housing	2/28/2022
PROJECT LOCATION	DATE DRILLING ENDED
Milwaukee, WI	2/28/2022

BORING DRILLED BY
FIRM: GESTRA
CREW CHIEF: A. Woerpel

FIELD LOG	LATITUDE
J. Metzinger/ J. Pierce	
LAB LOG / QC	LONGITUDE
E. Jeske/C. Holtan	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	18	8 3 3 3	8			LEAN CLAY, brown, moist to wet, trace gravel (FILL)							16.2	Frost depth = 10-inches
SS - 2	2	1 3 2	5		140.0	Gravel pieces in sample SS-2							33.6	Poor recovery
SS - 3	10	1 1 1	2			SILTY CLAY WITH SAND, brown, very moist, very soft, wet silt layer	CL-ML						14.1	
SS - 4	16	11 11 3	14			SILTY CLAY WITH SAND, gray, very moist, soft to very stiff, with wet silt laminations				0.50			16.7 15	
SS - 5	18	4 2 4	6		135.0					(1)			12.1	$\gamma_d = 139.3$ pcf $\gamma_T = 156.1$ pcf
														Pressuremeter Test #1 at 13.5-feet
SH - 6	0													No recovery from SH-6
SS - 7	12	4 4 5	9		125.0					1.75 - 2.0 (0.6)	18	6	12.8	$\gamma_d = 133.5$ pcf $\gamma_T = 150.6$ pcf
														Pressuremeter Test #2 at 21.5-feet
SS - 8	14	8 8 7	15		120.0	LEAN CLAY, gray, moist, very stiff to hard, trace sand and gravel	CL							
														Light rig chatter 24-feet to 25-feet
						Possible large gravel and/or cobble at 24 to 25 feet								

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-5
PROJECT NUMBER	22024-10
DRILLING RIG	CME LX55 ATV
DRILLING METHOD	4 1/4" HSA w/ RW
SURFACE ELEVATION	143.8 ft

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/28/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/28/2022
BORING DRILLED BY	J. Metzinger/ J. Pierce	LATITUDE	
FIRM: GESTRA CREW CHIEF: A. Woerpel	E. Jeske/C. Holtan	LONGITUDE	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 9	18	5 9 9	18	115.0	LEAN CLAY, gray, moist, very stiff to hard, trace sand and gravel				2.5 - 3.5				
				30										Wet sand layer in sample SS-9	CL	4.50	14	Pressuremeter Test #3 at 31.5-feet
SS - 10	9	9 11 14	25	110.0	With silt lens in sample SS-10				2.5 - 3.0			14.4	
				35										End of Boring at 37.5 ft.	37.5 (106.3)
				105.0									
				40									
				100.0									
				45									
				95.0									
				50									

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

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SOIL BORING LOG

PAGE NUMBER
1 of 2

BORING NUMBER
B-6

PROJECT NUMBER
22024-10

DRILLING RIG
CME LX55 ATV

DRILLING METHOD
3 1/4" HSA

SURFACE ELEVATION
146.9 ft

GESTRA Engineering Inc.
191 W Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
2/23/2022

DATE DRILLING ENDED
2/23/2022

BORING DRILLED BY
FIRM: **GESTRA**
CREW CHIEF: **A. Woerpel**

FIELD LOG
C. Dietz

LAB LOG / QC
E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	16	7 8 6 5	14	145.0	TOPSOIL (4-Inches)								Frost depth = 15-inches
					LEAN CLAY WITH SAND, dark brown with gray, moist, trace gravel, (FILL)							18.7	
SS - 2	14	2 4 5	9									19.6	
SS - 3	14	2 3 6	9	5	Trace brick pieces in SS-3							12.9	
SS - 4				140.0	BRICK PIECES, (FILL)								
SS - 4	9	3 2 2	4										
SS - 5	9	2 2 2	4	10	SILTY CLAYEY SAND, gray, wet, with brick pieces and possible foundry material, trace to with gravel, (FILL)								
SS - 6				135.0									
SS - 6	10	4 9 8	17										
SS - 7	8	2 5 3	8	15									
SS - 8				130.0	LEAN CLAY, gray, moist, stiff to very stiff, trace sand								
SS - 8	21	2 4 5	9	20									
SS - 8				125.0		CL				1.50		14.7	
SS - 9	16	6 7 8	15	25								14.4	

WATER & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 10 ft.	☒	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
▽	WATER LEVEL AT COMPLETION: 10 ft.		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
▽	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-6
PROJECT NUMBER	22024-10
DRILLING RIG	CME LX55 ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	146.9 ft

GESTRA Engineering Inc.
 191 W Edgerton Avenue
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 Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/23/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/23/2022

BORING DRILLED BY
 FIRM: GESTRA
 CREW CHIEF: A. Woerpel

FIELD LOG	C. Dietz	LATITUDE	
LAB LOG / QC	E. Jeske/C. Holtan	LONGITUDE	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	18	3 5 9	14	120.0	LEAN CLAY, gray, moist, stiff to very stiff, trace sand	CL			2.00			16.5	
				30									
SS - 11	16	4 5 8	13	115.0	Silt lens in SS-11				2.00			14.9	
				35									
				36 (110.9)	End of Boring at 36.0 ft.								
				110.0									
				40									
				105.0									
				45									
				100.0									
				50									
				95.0									

WATER & CAVE-IN OBSERVATION DATA

▼	WATER ENCOUNTERED DURING DRILLING: 10 ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
▼	WATER LEVEL AT COMPLETION: 10 ft.	<input type="checkbox"/>	CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
▼	WATER LEVEL AFTER 0 HOURS: NMR	<input type="checkbox"/>		WET <input type="checkbox"/>
		<input type="checkbox"/>		DRY <input type="checkbox"/>

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SOIL BORING LOG

PAGE NUMBER
1 of 2

BORING NUMBER
B-7

PROJECT NUMBER
22024-10

DRILLING RIG
CME LX55 ATV

DRILLING METHOD
3 1/4" HSA

SURFACE ELEVATION
146.9 ft

GESTRA Engineering Inc.
191 W Edgerton Avenue
Milwaukee, WI 53207
Phone: 414-933-7444, Fax: 414-933-7844

PROJECT NAME
Five Points Housing

PROJECT LOCATION
Milwaukee, WI

DATE DRILLING STARTED
2/23/2022

DATE DRILLING ENDED
2/23/2022

BORING DRILLED BY
FIRM: **GESTRA**
CREW CHIEF: **A. Woerpel**

FIELD LOG
C. Dietz

LAB LOG / QC
E. Jeske/C. Holtan

LATITUDE

LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	23	9 8 8 7	16	145.0	No topsoil measurement recorded 0.3 (146.6) LEAN CLAY WITH SAND, dark brown, moist, (FILL)								Frost depth = 15-inches
	10	2 10 8	18										
SS - 2													
	12	1 2 4	6	5	4.5 (142.4) SANDY CLAY, dark, brown, moist, (FILL)								
SS - 3													
	12	3 26 50/5"	R	140.0	6.3 (140.6) CLAYEY SAND, gray, moist, trace to with gravel, (FILL)								
SS - 4													
	13	1 2 2	4	10	8.8 (138.1) LEAN CLAY WITH SAND, gray, moist, trace gravel, (FILL)				1.5			16.3	
SS - 5													
	16	2 3 4	7	135.0	11.3 (135.6) LEAN CLAY, gray, moist, trace gravel, stiff to very stiff, trace sand and gravel				(1.7)	21	8	15.9	γ _d = 125.7 pcf γ _T = 145.7 pcf
SS - 6													
	18	2 3 5	8	15					2.5			13.8	
SS - 7													
	22	2 4 5	9	20					1.5			13	
SS - 8													
	21	3 5 7	12	25					3.0			13.4	

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-7
PROJECT NUMBER	22024-10
DRILLING RIG	CME LX55 ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	146.9 ft

GESTRA Engineering Inc.
 191 W Edgerton Avenue
 Milwaukee, WI 53207
 Phone: 414-933-7444, Fax: 414-933-7844
 BORING DRILLED BY
 FIRM: GESTRA
 CREW CHIEF: A. Woerpel

PROJECT NAME
Five Points Housing
 PROJECT LOCATION
Milwaukee, WI
 FIELD LOG
 C. Dietz
 LAB LOG / QC
 E. Jeske/C. Holtan

DATE DRILLING STARTED
2/23/2022
 DATE DRILLING ENDED
2/23/2022
 LATITUDE
 LONGITUDE

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft) Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	17	4	9	120.0	LEAN CLAY, gray, moist, trace gravel, stiff to very stiff, trace sand and gravel	CL			2.0			13.8	
		4		30									
SS - 11	12	9	20	115.0								12.4	
		10		35									
		10		36 (110.9)	End of Boring at 36.0 ft.								
				110.0									
				40									
				105.0									
				45									
				100.0									
				50									
				95.0									

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NMR		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NMR			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



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SOIL BORING LOG

PAGE NUMBER		1 of 2
BORING NUMBER	B-8	
PROJECT NUMBER	22024-10	
DRILLING RIG	CME LX55 ATV	
DRILLING METHOD	3 1/4" HSA	
SURFACE ELEVATION	152.2 ft	

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/23/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/23/2022

BORING DRILLED BY
FIRM: GESTRA
CREW CHIEF: A. Woerpel

FIELD LOG	C. Dietz	LATITUDE	
LAB LOG / QC	E. Jeske/C. Holtan	LONGITUDE	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _c) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS-1	22	8 12 10 8	22			TOPSOIL (3-Inches)								
					150.9	0.3 (151.9) LEAN CLAY, brown to dark brown, moist, trace sand and gravel, (FILL)				4.5			15.6	Boring drilled offset 7-feet north due to access Frost depth = 16-inches
SS-2	17	4 7 7	14							4.5			13.2	
SS-3	8	10 4 1	5	5		4.5 (147.7) LEAN CLAY WITH SAND, dark brown trace black, moist, trace gravel, (FILL) Fractured rock pieces in SS-3							23.3	
SS-4	14	1 4 7	11		145.0	6.1 (146.1) LEAN CLAY, brown mottled gray, moist, very stiff	CL			3.0			12.4	
SS-5	16	4 8 7	15	10		8.8 (143.4) LEAN CLAY, gray, moist, very stiff, trace to with sand, trace gravel, with silt lenses				2.5			14	
SS-6	15	18 16 18	34		140.0	Gravel in sample SS-6	CL						10.7	
SH-7	20			15						(3.4)			13.2	γ _d = 126.9 pcf γ _T = 143.7 pcf
SS-8	21	4 7 13	20		135.0	18 (134.2) LEAN CLAY WITH SAND, gray, moist, stiff to hard, trace gravel								
						Silt and sand laminations in SS-8							16	
SS-9	18	4 7 11	18	25	130.0	Very moist silt lens in SS-9	CL			2.0			16.8	

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



SOIL BORING LOG

PAGE NUMBER	2 of 2
BORING NUMBER	B-8
PROJECT NUMBER	22024-10
DRILLING RIG	CME LX55 ATV
DRILLING METHOD	3 1/4" HSA
SURFACE ELEVATION	152.2 ft

PROJECT NAME	Five Points Housing	DATE DRILLING STARTED	2/23/2022
PROJECT LOCATION	Milwaukee, WI	DATE DRILLING ENDED	2/23/2022

BORING DRILLED BY	FIELD LOG	LATITUDE
FIRM: GESTRA CREW CHIEF: A. Woerpel	C. Dietz	
	LAB LOG / QC	LONGITUDE
	E. Jeske/C. Holtan	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 10	21	4 6 8	14	30	125.0	LEAN CLAY WITH SAND, gray, moist, stiff to hard, trace gravel	CL			1.5			11.4	
SS - 11	14	5 6 8	14	35	120.0	Decrease in sand content in SS-11				1.5			14.7	
				36	116.2	End of Boring at 36.0 ft.								
				40	115.0									
				45	110.0									
				50	105.0									

WATER & CAVE-IN OBSERVATION DATA

WATER ENCOUNTERED DURING DRILLING: NMR ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
			DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



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SOIL BORING LOG

PAGE NUMBER		1 of 1
BORING NUMBER	B-9	
PROJECT NUMBER	22024-10	
DRILLING RIG	CME LX55 ATV	
DRILLING METHOD	3 1/4" HSA	
SURFACE ELEVATION	151.3 ft	

PROJECT NAME	DATE DRILLING STARTED
Five Points Housing	2/23/2022
PROJECT LOCATION	DATE DRILLING ENDED
Milwaukee, WI	2/23/2022

BORING DRILLED BY
FIRM: GESTRA
CREW CHIEF: A. Woerpel

FIELD LOG	LATITUDE
C. Dietz	
LAB LOG / QC	LONGITUDE
E. Jeske/C. Holtan	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	18	8 8 5 4	13	150.0	150.0	TOPSOIL (5") LEAN CLAY WITH SAND, brown to dark brown, moist, trace gravel (FILL)				0.4 (150.9)			27.8	Frost depth = 13-inches
	10	2 3 5	8								36	17	18.6	
	9	2 3 3	6	145.0	145.0	LEAN CLAY WITH SAND, gray, moist (FILL)				6.1 (145.2)			18.8	
	6	1 2 1	3										21.3	
	9	1 1 2	3	140.0	140.0	End of Boring at 11.0 ft.				11 (140.3)			21.2	
				15										
				135.0										
				20										
				130.0										
				25										

WATER & CAVE-IN OBSERVATION DATA

<input checked="" type="checkbox"/>	WATER ENCOUNTERED DURING DRILLING: NE ft.	<input checked="" type="checkbox"/>	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AT COMPLETION: NE		CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
<input checked="" type="checkbox"/>	WATER LEVEL AFTER 0 HOURS: NE			WET <input type="checkbox"/>
				DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.



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SOIL BORING LOG

PAGE NUMBER		1 of 1
BORING NUMBER	B-10	
PROJECT NUMBER	22024-10	
DRILLING RIG	Geoprobe ATV	
DRILLING METHOD	2 1/4" HSA	
SURFACE ELEVATION	150.1 ft	

PROJECT NAME	DATE DRILLING STARTED
Five Points Housing	2/28/2022
PROJECT LOCATION	DATE DRILLING ENDED
Milwaukee, WI	2/28/2022

BORING DRILLED BY	FIELD LOG	LATITUDE
	C. Dietz	
FIRM: GESTRA	LAB LOG / QC	LONGITUDE
CREW CHIEF: Z. Frye	E. Jeske/C. Holtan	

Number and Type	Recovery (in)	Blow Counts	N - Value	Depth (ft)	Elevation	Soil Description and Geological Origin for Each Major Unit	USCS Classification	Graphic	Well Diagram	Unconfined Comp. Strength (Q _u or Q _p) (tsf)	Liquid Limit	Plasticity Index	Moisture Content (%)	Comments
SS - 1	17	25 17 13	30			ASPHALT (4-Inches)								Frost depth = 10-inches
						0.3 (149.8)								
SS - 2	5	30 50/4				LEAN CLAY WITH SAND, brown trace black, moist, trace gravel, (FILL)							16.1	Hard drilling 3-feet to 4-feet
						2 (148.1)								
SS - 3	13	1 2 3	5	5	145.0	CLAYEY SAND, dark gray, moist, trace gravel, (FILL)							18.1	Hard drilling 3-feet to 4-feet
						Possible rubble 3-feet to 4-feet								
SS - 4	13	1 2 2	4			LEAN CLAY, brown, moist, soft to medium stiff				0.50			20.5	Hard drilling 3-feet to 4-feet
						4.5 (145.6)	CL							
SS - 5	18	3 4 6	10	10	140.0	With gray mottles in SS-4				0.25			17.5	Hard drilling 3-feet to 4-feet
						9 (141.1)	CL							
						LEAN CLAY, brown, moist, very stiff				2.25			16.3	Hard drilling 3-feet to 4-feet
						11 (139.1)								
						End of Boring at 11.0 ft.								
				15	135.0									
				20	130.0									
				25	125.0									

WATER & CAVE-IN OBSERVATION DATA

WATER ENCOUNTERED DURING DRILLING: NE ft.	CAVE DEPTH AT COMPLETION: NMR	WET <input type="checkbox"/>
WATER LEVEL AT COMPLETION: NE	CAVE DEPTH AFTER 0 HOURS: NMR	DRY <input type="checkbox"/>
WATER LEVEL AFTER 0 HOURS: NE		WET <input type="checkbox"/>
		DRY <input type="checkbox"/>

NOTE: Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.

Appendix B

Abandonment Forms

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

<input type="checkbox"/> Verification Only of Fill and Seal <h2 style="text-align: center; margin: 0;">SB-1/TW-1</h2>	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other _____
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1. Well Location Information	2. Facility / Owner Information
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County Milwaukee	WI Unique Well # of Removed Well	Hicap #	Facility Name KG Development - 5 Points Development	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W		Method Code (see instructions)	Facility ID (FID or PWS)	
1/4 / 1/4 NW	1/4 SE	Section 8	Township 7	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22
Well Street Address 3317 North Dr. MLK Jr. Drive			License/Permit/Monitoring #	
Well City, Village or Town Milwaukee			Original Well Owner	
Subdivision Name			Present Well Owner	
Well ZIP Code 53212			Mailing Address of Present Owner	
Lot #			City of Present Owner	State ZIP Code

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason For Removal From Service	WI Unique Well # of Replacement Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)		
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		
Total Well Depth From Ground Surface (ft) 14.7	Casing Diameter (in.) 1.00			
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) 14.7			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				
If yes, to what depth (feet)?	Depth to Water (feet) 6.6			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By	
Street or Route 1300 West Canal Street		Telephone Number 414-643-4200		Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 		Date Signed 5/6/2022

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

<input type="checkbox"/> Verification Only of Fill and Seal <h2 style="text-align: center; margin: 0;">SB-2/TW-2</h2>	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other _____
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1. Well Location Information	2. Facility / Owner Information
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County Milwaukee	WI Unique Well # of Removed Well	Hicap #	Facility Name KG Development - 5 Points Development	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W		Method Code (see instructions)	Facility ID (FID or PWS)	
1/4 / 1/4 NW or Gov't Lot #	1/4 SE	Section 8	Township 7	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22
Well Street Address 3317 North Dr. MLK Jr. Drive			License/Permit/Monitoring #	
Well City, Village or Town Milwaukee			Original Well Owner	
Subdivision Name			Present Well Owner	
Well ZIP Code 53212			Mailing Address of Present Owner	
Lot #			City of Present Owner	State ZIP Code

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason For Removal From Service	WI Unique Well # of Replacement Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Lined <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Screened <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)		
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		
Total Well Depth From Ground Surface (ft) 14.7	Casing Diameter (in.) 1.00			
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) 14.7			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				
If yes, to what depth (feet)?	Depth to Water (feet) 9.3			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By	
Street or Route 1300 West Canal Street		Telephone Number 414-643-4200		Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 		Date Signed 5/6/2022

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

Verification Only of Fill and Seal

SB-3

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development			
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)			
° ' " N ° ' " W						License/Permit/Monitoring #			
1/4 / 1/4 NW		1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E	Original Well Owner	
or Gov't Lot #							<input type="checkbox"/> W	Present Well Owner	
Well Street Address 3317 North Dr. MLK Jr. Drive						Mailing Address of Present Owner			
Well City, Village or Town Milwaukee				Well ZIP Code 53212		City of Present Owner		State	ZIP Code
Subdivision Name				Lot #					

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)					
Construction Type:		If a Well Construction Report is available, please attach.		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips					
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push				For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry					
Formation Type:									
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock									
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)							
Lower Drillhole Diameter (in.)		Casing Depth (ft.)							
2.0									
Was well annular space grouted?		Depth to Water (feet)							
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown									
If yes, to what depth (feet)?									

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022	Date Received	Noted By
Street or Route 1300 West Canal Street		Telephone Number 414-643-4200		Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022	

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

Verification Only of Fill and Seal
SB-4

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development					
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W			Method Code (see instructions)			Facility ID (FID or PWS)					
1/4 / 1/4 NW 1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #					
Well Street Address 3317 North Dr. MLK Jr. Drive						Original Well Owner					
Well City, Village or Town Milwaukee						Present Well Owner					
Subdivision Name						Well ZIP Code 53212		Mailing Address of Present Owner			
Reason For Removal From Service						WI Unique Well # of Replacement Well		City of Present Owner		State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well		Original Construction Date	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Drillhole / Borehole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022		Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200		Comments	
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 		Date Signed 5/6/2022

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

<input type="checkbox"/> Verification Only of Fill and Seal <h2 style="text-align: center; margin: 0;">SB-5/TW-5</h2>	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other _____
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1. Well Location Information	2. Facility / Owner Information
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County <u>Milwaukee</u>	WI Unique Well # of Removed Well	Hicap #	Facility Name <u>KG Development - 5 Points Development</u>	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W		Method Code (see instructions)		Facility ID (FID or PWS)
1/4 / 1/4 NW	1/4 SE	Section <u>8</u>	Township <u>7</u>	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W <u>22</u>
Well Street Address <u>3317 North Dr. MLK Jr. Drive</u>			License/Permit/Monitoring #	
Well City, Village or Town <u>Milwaukee</u>			Original Well Owner	
Subdivision Name			Present Well Owner	
Well ZIP Code <u>53212</u>			Mailing Address of Present Owner	
Lot #			City of Present Owner	
			State	
			ZIP Code	

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason For Removal From Service	WI Unique Well # of Replacement Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Direct Push</u>		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Total Well Depth From Ground Surface (ft) <u>19.7</u>	Casing Diameter (in.) <u>1.00</u>		
Lower Drillhole Diameter (in.) <u>2.0</u>	Casing Depth (ft.) <u>19.7</u>		
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) <u>8.7</u>	

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>3/8" Bentonite Chips</u>	<u>Surface</u>	<u>20.0</u>	<u>0.75</u>	<u>N/A</u>

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>The Sigma Group, Inc.</u>		License #	Date of Filling & Sealing (mm/dd/yyyy) <u>3/28/2022</u>	Date Received	Noted By
Street or Route <u>1300 West Canal Street</u>		Telephone Number <u>414-643-4200</u>		Comments	
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53233</u>	Signature of Person Doing Work 	Date Signed <u>5/6/2022</u>	

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

Verification Only of Fill and Seal

SB-6

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development			
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)			
° ' " N ° ' " W						License/Permit/Monitoring #			
1/4 / 1/4 NW		1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E	Original Well Owner	
or Gov't Lot #								Present Well Owner	
Well Street Address 3317 North Dr. MLK Jr. Drive						Mailing Address of Present Owner			
Well City, Village or Town Milwaukee				Well ZIP Code 53212		City of Present Owner		State	ZIP Code
Subdivision Name				Lot #					

3. Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)					
Construction Type:		If a Well Construction Report is available, please attach.		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips					
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push				For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry					
Formation Type:									
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock									
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)							
Lower Drillhole Diameter (in.)		Casing Depth (ft.)							
2.0									
Was well annular space grouted?		Depth to Water (feet)							
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown									

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200	Comments	
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022

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

<input type="checkbox"/> Verification Only of Fill and Seal <div style="font-size: 24pt; font-weight: bold; text-align: center;">SB-7/TW-7</div>	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other _____
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1. Well Location Information	2. Facility / Owner Information
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County <u>Milwaukee</u>	WI Unique Well # of Removed Well	Hicap #	Facility Name <u>KG Development - 5 Points Development</u>	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W		Method Code (see instructions)	Facility ID (FID or PWS)	
1/4 / 1/4 NW	1/4 SE	Section <u>8</u>	Township <u>7</u>	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W <u>22</u>
Well Street Address <u>3317 North Dr. MLK Jr. Drive</u>		License/Permit/Monitoring #		
Well City, Village or Town <u>Milwaukee</u>		Original Well Owner		
Subdivision Name		Well ZIP Code <u>53212</u>		Present Well Owner
Reason For Removal From Service		WI Unique Well # of Replacement Well		Mailing Address of Present Owner
		Lot #		City of Present Owner State ZIP Code

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Direct Push</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft) <u>14.6</u>	Casing Diameter (in.) <u>1.00</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) <u>2.0</u>	Casing Depth (ft.) <u>14.6</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Depth to Water (feet) <u>8.0</u>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>3/8" Bentonite Chips</u>	<u>Surface</u>	<u>15.0</u>	<u>0.5</u>	<u>N/A</u>

6. Comments	
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7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>The Sigma Group, Inc.</u>	License #	Date of Filling & Sealing (mm/dd/yyyy) <u>3/28/2022</u>	Date Received	Noted By
Street or Route <u>1300 West Canal Street</u>		Telephone Number <u>414-643-4200</u>	Comments	
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53233</u>	Signature of Person Doing Work 	Date Signed <u>5/6/2022</u>

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

Verification Only of Fill and Seal
SB-8/TW-8

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development			
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W			Method Code (see instructions)			Facility ID (FID or PWS)			
1/4 / 1/4 NW		1/4 SE	Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E	<input type="checkbox"/> W	License/Permit/Monitoring #	
Well Street Address 3317 North Dr. MLK Jr. Drive						Original Well Owner			
Well City, Village or Town Milwaukee				Well ZIP Code 53212		Present Well Owner			
Subdivision Name				Lot #		City of Present Owner		State	ZIP Code
Reason For Removal From Service		WI Unique Well # of Replacement Well				4. Pump, Liner, Screen, Casing & Sealing Material			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well		Original Construction Date	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Drillhole / Borehole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <u>Direct Push</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft) 19.7		Casing Diameter (in.) 1.00	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) 19.7	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 6.0	

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	20.0	0.75	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200	Comments	
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022

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

Verification Only of Fill and Seal
SB-1/TW-1

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development							
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)							
° ' " N ° ' " W						License/Permit/Monitoring #							
1/4 / 1/4 NW		1/4 SE		Section 8		Township 7		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22		Original Well Owner			
Well Street Address 3317 North Dr. MLK Jr. Drive						Present Well Owner							
Well City, Village or Town Milwaukee						Mailing Address of Present Owner							
Subdivision Name						Well ZIP Code 53212				City of Present Owner		State	ZIP Code
Reason For Removal From Service						WI Unique Well # of Replacement Well							

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 2/15/2022	
Construction Type:		If a Well Construction Report is available, please attach.	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type:		<input type="checkbox"/> Bedrock	
<input checked="" type="checkbox"/> Unconsolidated Formation			
Total Well Depth From Ground Surface (ft.) 14.7		Casing Diameter (in.) 1.00	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) 14.7	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 6.6	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #		Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022		Date Received		Noted By	
Street or Route 1300 West Canal Street				Telephone Number 414-643-4200		Comments			
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 			Date Signed 5/6/2022		

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

Verification Only of Fill and Seal
SB-2/TW-2

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development					
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)					
° ' " N						License/Permit/Monitoring #					
° ' " W						Original Well Owner					
1/4 / 1/4 NW		1/4 SE		Section 8		Township 7		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22		Present Well Owner	
Well Street Address 3317 North Dr. MLK Jr. Drive						Mailing Address of Present Owner					
Well City, Village or Town Milwaukee				Well ZIP Code 53212		City of Present Owner				State ZIP Code	
Subdivision Name				Lot #							

Reason For Removal From Service		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material							
---------------------------------	--	--------------------------------------	--	--	--	--	--	--	--	--	--

3. Well / Drillhole / Borehole Information		Original Construction Date 2/15/2022	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		If a Well Construction Report is available, please attach.	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft) 14.7		Casing Diameter (in.) 1.00	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) 14.7	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 9.3	

Pump and piping removed?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Screen removed?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material				
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)		
(Bentonite Chips)				
Sealing Materials				
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:				
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200		Comments
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022

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Verification Only of Fill and Seal

SB-3

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development					
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W			Method Code (see instructions)			Facility ID (FID or PWS)					
1/4 / 1/4 NW 1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #					
Well Street Address 3317 North Dr. MLK Jr. Drive						Original Well Owner					
Well City, Village or Town Milwaukee						Present Well Owner					
Subdivision Name						Well ZIP Code 53212		Mailing Address of Present Owner			
Reason For Removal From Service						WI Unique Well # of Replacement Well		City of Present Owner		State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 2/15/2022	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		If a Well Construction Report is available, please attach.	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)	
Lower Drillhole Diameter (in.) 2.0		Casing Diameter (in.)	
Casing Depth (ft.)		Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured	<input type="checkbox"/> Other (Explain)		
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022		Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200		Comments	
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 		Date Signed 5/6/2022

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

Verification Only of Fill and Seal
SB-4

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development					
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W			Method Code (see instructions)			Facility ID (FID or PWS)					
1/4 / 1/4 NW 1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #					
Well Street Address 3317 North Dr. MLK Jr. Drive						Original Well Owner					
Well City, Village or Town Milwaukee						Present Well Owner					
Subdivision Name						Well ZIP Code 53212		Mailing Address of Present Owner			
Reason For Removal From Service						WI Unique Well # of Replacement Well		City of Present Owner		State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well		Original Construction Date 2/15/2022	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Drillhole / Borehole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200		Comments
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022

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

<input type="checkbox"/> Verification Only of Fill and Seal <h2 style="text-align: center; margin: 0;">SB-5/TW-5</h2>	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other _____
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1. Well Location Information	2. Facility / Owner Information
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County Milwaukee	WI Unique Well # of Removed Well	Hicap #	Facility Name KG Development - 5 Points Development	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W		Method Code (see instructions)		Facility ID (FID or PWS)
1/4 / 1/4 NW	1/4 SE	Section 8	Township 7	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22
Well Street Address 3317 North Dr. MLK Jr. Drive			License/Permit/Monitoring #	
Well City, Village or Town Milwaukee			Original Well Owner	
Subdivision Name			Present Well Owner	
Well ZIP Code 53212			Mailing Address of Present Owner	
Lot #			City of Present Owner	
			State	
			ZIP Code	

3. Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason For Removal From Service	WI Unique Well # of Replacement Well	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date 2/15/2022 If a Well Construction Report is available, please attach.	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)		
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		
Total Well Depth From Ground Surface (ft) 19.7	Casing Diameter (in.) 1.00			
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) 19.7			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				
If yes, to what depth (feet)?		Depth to Water (feet) 8.7		

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	20.0	0.75	N/A

6. Comments

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7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200	Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022	

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

Verification Only of Fill and Seal

SB-6

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development					
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)					
° ' " N ° ' " W						License/Permit/Monitoring #					
1/4 / 1/4 NW		1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner		
Well Street Address 3317 North Dr. MLK Jr. Drive						Present Well Owner					
Well City, Village or Town Milwaukee						Mailing Address of Present Owner					
Subdivision Name						Well ZIP Code 53212		City of Present Owner		State	ZIP Code
Reason For Removal From Service						WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 2/15/2022
Construction Type:		If a Well Construction Report is available, please attach.
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push		
Formation Type:		
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	
2.0		
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)	

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 2/15/2022	Date Received	Noted By
Street or Route 1300 West Canal Street		Telephone Number 414-643-4200		Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022	

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

Verification Only of Fill and Seal
SB-7/TW-7

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information			2. Facility / Owner Information			
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County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development	
Latitude / Longitude (Degrees and Minutes) ° ' " N ° ' " W			Method Code (see instructions)			Facility ID (FID or PWS)	
1/4 / 1/4 NW 1/4 SE		Section 8	Township 7	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #	
Well Street Address 3317 North Dr. MLK Jr. Drive						Original Well Owner	
Well City, Village or Town Milwaukee				Well ZIP Code 53212		Present Well Owner	
Subdivision Name				Lot #		Mailing Address of Present Owner	
Reason For Removal From Service				WI Unique Well # of Replacement Well		City of Present Owner	
						State ZIP Code	

4. Pump, Liner, Screen, Casing & Sealing Material			
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<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 2/15/2022 If a Well Construction Report is available, please attach.	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft) 14.6		Casing Diameter (in.) 1.00	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) 14.6	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8.0	
Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Screen removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)			
Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15.0	0.5	N/A

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #	Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022	Date Received	Noted By
Street or Route 1300 West Canal Street			Telephone Number 414-643-4200	Comments	
City Milwaukee	State WI	ZIP Code 53233	Signature of Person Doing Work 	Date Signed 5/6/2022	

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

Verification Only of Fill and Seal
SB-8/TW-8

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name KG Development - 5 Points Development							
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)			Facility ID (FID or PWS)							
° ' " N ° ' " W						License/Permit/Monitoring #							
1/4 / 1/4 NW		1/4 SE		Section 8		Township 7		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W 22		Original Well Owner			
Well Street Address 3317 North Dr. MLK Jr. Drive						Present Well Owner							
Well City, Village or Town Milwaukee						Mailing Address of Present Owner							
Subdivision Name						Well ZIP Code 53212				City of Present Owner		State	ZIP Code
Reason For Removal From Service						WI Unique Well # of Replacement Well							

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 2/15/2022	
Construction Type:		If a Well Construction Report is available, please attach.	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) Direct Push			
Formation Type:		<input type="checkbox"/> Bedrock	
<input checked="" type="checkbox"/> Unconsolidated Formation			
Total Well Depth From Ground Surface (ft) 19.7		Casing Diameter (in.) 1.00	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.) 19.7	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 6.0	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Screen removed?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	20.0	0.75	N/A

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing The Sigma Group, Inc.		License #		Date of Filling & Sealing (mm/dd/yyyy) 3/28/2022		Date Received		Noted By	
Street or Route 1300 West Canal Street				Telephone Number 414-643-4200		Comments			
City Milwaukee		State WI	ZIP Code 53233	Signature of Person Doing Work 			Date Signed 5/6/2022		

Appendix C

Soil Laboratory Analytical Reports

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

CORY KATZBAN
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 03-Mar-22

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520A
Sample ID BLANK
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/17/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/17/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/17/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/17/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/17/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/17/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/17/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/17/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/17/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520A
Sample ID BLANK
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/17/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/17/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/17/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/17/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/17/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/17/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/17/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/17/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/17/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	110	Rec %			1	8260B		2/17/2022	CJR	1
SUR - Toluene-d8	92	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 4-Bromofluorobenzene	84	Rec %			1	8260B		2/17/2022	CJR	1
SUR - Dibromofluoromethane	122	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520B
Sample ID SB-1 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.0	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.01	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	63.0	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.289	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	17.6	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	23.6	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.040 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1 86
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.0247 "J"	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.078	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.084	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.115	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.076	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.063	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.112	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	0.0191 "J"	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.181	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.09	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.081	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.151	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/17/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/17/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/17/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520B
Sample ID SB-1 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/17/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/17/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/17/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/17/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/17/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/17/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/17/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/17/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/17/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/17/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/17/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/17/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/17/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/17/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/17/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			1	8260B		2/17/2022	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		2/17/2022	CJR	1
SUR - Dibromofluoromethane	112	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520B
Sample ID SB-1 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	86	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520C
Sample ID SB-1 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.44	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	42.1	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.155 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	14.9	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	9.46	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.025 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/17/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/17/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/17/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520C
Sample ID SB-1 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/17/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/17/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/17/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/17/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/17/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/17/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/17/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/17/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/17/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/17/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/17/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/17/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/17/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/17/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/17/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	98	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 4-Bromofluorobenzene	87	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520C
Sample ID SB-1 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	102	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520D
Sample ID SB-2 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.6	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.77	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	70.5	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.252	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	19.1	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	30.3	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.032 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.06	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.169	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.22	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.32	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.21	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.158	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.277	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	0.045 "J"	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.41	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.247	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.18	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.33	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/17/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/17/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/17/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520D
Sample ID SB-2 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/17/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/17/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/17/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/17/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/17/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/17/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/17/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/17/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/17/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/17/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/17/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/17/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/17/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/17/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/17/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		2/17/2022	CJR	1
SUR - Dibromofluoromethane	105	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520D
Sample ID SB-2 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	88	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520E
Sample ID SB-2 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.52	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	43.4	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.313	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	16.1	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	21.6	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.033 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.0253 "J"	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.056	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.052 "J"	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.073	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.049	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.038	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.085	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.14	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.051 "J"	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	0.0293 "J"	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.106	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.127	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/17/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/17/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/17/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520E
Sample ID SB-2 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/17/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/17/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/17/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/17/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/17/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/17/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/17/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/17/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/17/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/17/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/17/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/17/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/17/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/17/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/17/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/17/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/17/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/17/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/17/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/17/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/17/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/17/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/17/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/17/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/17/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/17/2022	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 4-Bromofluorobenzene	80	Rec %			1	8260B		2/17/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520E
Sample ID SB-2 8-10
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	93	Rec %			1	8260B		2/17/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
 Project # 20457

Invoice # E40520

Lab Code 5040520F
 Sample ID SB-3 2-4
 Sample Matrix Soil
 Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.2	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.40	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	50.4	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.191	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	15.6	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	39.6	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.031 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.0152 "J"	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.047 "J"	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.046 "J"	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.068	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.044 "J"	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.033	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.061	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.107	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.048 "J"	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.05	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.087	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520F
Sample ID SB-3 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	80	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	115	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520F
Sample ID SB-3 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	92	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520G
Sample ID SB-3 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.9	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.74	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	37.6	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.130 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	13.6	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	11.7	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.055 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.032	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.112	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.115	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.157	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.103	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.084	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.157	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	0.0206 "J"	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.279	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	2
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.114	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.131	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.24	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	2
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520G
Sample ID SB-3 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Toluene-d8	94	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	85	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520G
Sample ID SB-3 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	96	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520H
Sample ID SB-4 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.0	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	5.19	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	85.1	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.256	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	27.4	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	55.0	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.057 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	1.37 "J"	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.0158 "J"	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.0094 "J"	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.0146 "J"	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.0168 "J"	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.0105 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.0149 "J"	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520H
Sample ID SB-4 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	90	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	95	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520H
Sample ID SB-4 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	96	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520I
Sample ID SB-4 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.7	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.75	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	31.4	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.166 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	15.8	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	11.1	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.023 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520I
Sample ID SB-4 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Toluene-d8	92	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520I
Sample ID SB-4 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	87	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520J
Sample ID DUP
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520J
Sample ID DUP
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Toluene-d8	92	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	112	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	87	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
 Project # 20457

Invoice # E40520

Lab Code 5040520K
 Sample ID SB-5 2-4
 Sample Matrix Soil
 Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.3	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.00 "J"	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	36.1	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.145 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	16.0	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	7.15	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.024 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520K
Sample ID SB-5 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	84	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	109	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520K
Sample ID SB-5 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	92	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520L
Sample ID SB-5 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.4	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.72 "J"	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	41.8	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.149 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	18.1	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	7.07	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.022 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.016 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520L
Sample ID SB-5 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	85	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520L
Sample ID SB-5 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	96	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
 Project # 20457

Invoice # E40520

Lab Code 5040520M
 Sample ID SB-6 2-4
 Sample Matrix Soil
 Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.3	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.95	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	74.6	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.132 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	24.4	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	11.7	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.031 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.0219 "J"	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.0202 "J"	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.0249 "J"	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.0181 "J"	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.014 "J"	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.0267 "J"	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.035	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.0166 "J"	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.0157 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.031	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520M
Sample ID SB-6 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	93	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	88	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520M
Sample ID SB-6 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	95	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520N
Sample ID SB-6 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	99.5	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.60	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	32.9	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	1.57	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	14.1	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	9.33	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.021 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.0235 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520N
Sample ID SB-6 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	83	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520N
Sample ID SB-6 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	94	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 50405200
Sample ID SB-7 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.46 "J"	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	67.1	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.195	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	20.6	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	25.3	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.027 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	0.48	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	0.0287 "J"	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	1.38	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	1.54	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	1.67	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	1.97	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	1.14	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.96	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	1.92	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	0.242	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	4.50	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	0.42	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	1.44	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	0.059	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	0.081	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	0.077 "J"	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	4.40	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	3.70	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 50405200
Sample ID SB-7 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	86	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 50405200
Sample ID SB-7 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	91	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520P
Sample ID SB-7 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	6.18	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	17.2	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.070 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	12.2	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	10.7	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	< 0.018	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	0.0124 "J"	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.0253 "J"	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.0179 "J"	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.0254 "J"	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.012 "J"	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.032 "J"	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.051	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.0165 "J"	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.032 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.039	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520P
Sample ID SB-7 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	84	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	113	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520P
Sample ID SB-7 10-12
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	94	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520Q
Sample ID SB-8 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	4.86	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	85.0	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.231	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	19.4	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	170	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	0.051 "J"	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	0.02 "J"	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	0.0175 "J"	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	0.0255 "J"	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	0.0168 "J"	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	0.0133 "J"	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	0.0265 "J"	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	0.033	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	0.0144 "J"	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	0.0298	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520Q
Sample ID SB-8 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		2/18/2022	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520Q
Sample ID SB-8 2-4
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	85	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520R
Sample ID SB-8 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.6	%			1	5021		2/17/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	7.06	mg/kg	0.518	1.73	1	6010B		2/24/2022	PCE	1
Barium, Total	32.3	mg/kg	0.0852	0.284	1	6010B		2/24/2022	PCE	1
Cadmium, Total	0.066 "J"	mg/kg	0.0471	0.157	1	6010B		2/24/2022	PCE	1
Chromium, Total	14.5	mg/kg	0.133	0.443	1	6010B		2/24/2022	PCE	1
Lead, Total	7.56	mg/kg	0.208	0.693	1	6010B		2/24/2022	PCE	1
Mercury, Total	< 0.018	mg/kg	0.018	0.06	1	7471		2/24/2022	PCE	1
Selenium, Total	< 0.764	mg/kg	0.764	2.55	1	6010B		2/24/2022	PCE	1
Silver, Total	< 0.127	mg/kg	0.127	0.423	1	6010B		2/24/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	< 0.011	mg/kg	0.011	0.042	1	M8270C	2/24/2022	2/25/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Anthracene	< 0.0071	mg/kg	0.0071	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)anthracene	< 0.0139	mg/kg	0.0139	0.053	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(b)fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(g,h,i)perylene	< 0.0125	mg/kg	0.0125	0.048	1	M8270C	2/24/2022	2/25/2022	NJC	1
Benzo(k)fluoranthene	< 0.0076	mg/kg	0.0076	0.029	1	M8270C	2/24/2022	2/25/2022	NJC	1
Chrysene	< 0.0124	mg/kg	0.0142	0.055	1	M8270C	2/24/2022	2/25/2022	NJC	1
Dibenzo(a,h)anthracene	< 0.0136	mg/kg	0.0136	0.052	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluoranthene	< 0.008	mg/kg	0.008	0.031	1	M8270C	2/24/2022	2/25/2022	NJC	1
Fluorene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	2/24/2022	2/25/2022	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0152	mg/kg	0.0152	0.058	1	M8270C	2/24/2022	2/25/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	2/24/2022	2/25/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	2/24/2022	2/25/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	2/24/2022	2/25/2022	NJC	1
Phenanthrene	< 0.0089	mg/kg	0.0089	0.034	1	M8270C	2/24/2022	2/25/2022	NJC	1
Pyrene	< 0.007	mg/kg	0.007	0.027	1	M8270C	2/24/2022	2/25/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		2/18/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		2/18/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		2/18/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520R
Sample ID SB-8 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		2/18/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		2/18/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		2/18/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		2/18/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		2/18/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		2/18/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		2/18/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		2/18/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		2/18/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		2/18/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		2/18/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		2/18/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		2/18/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		2/18/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		2/18/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		2/18/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		2/18/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		2/18/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		2/18/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		2/18/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		2/18/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		2/18/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		2/18/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		2/18/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		2/18/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		2/18/2022	CJR	1
SUR - Toluene-d8	93	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B		2/18/2022	CJR	1
SUR - 4-Bromofluorobenzene	85	Rec %			1	8260B		2/18/2022	CJR	1

Project Name KG DEV/ MLK DRIVE
Project # 20457

Invoice # E40520

Lab Code 5040520R
Sample ID SB-8 12-14
Sample Matrix Soil
Sample Date 2/15/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	107	Rec %			1	8260B		2/18/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

- 1 Laboratory QC within limits.
- 2 Relative percent difference failed for laboratory spiked samples.
- 86 The analyte failed the method required serial dilution test. Indicates matrix interference:
PCE denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Michael J. Steel

Sample Handling Request

Rush Analysis Date Required: _____

(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. #
 QUOTE # :
 Project #: 20457
 Sampler: (signature)

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcbc.com

Project (Name / Location): **KL Dev / MLK Drive**
 Reports To: **Cory Katzbar, P.E.** Invoice To: **Same**
 Company: **The Sigma Group, Inc.** Company:
 Address: **1300 W. Canal St** Address:
 City State Zip: **Milwaukee, WI 53233** City State Zip:
 Phone: **414-643-4200** Phone:
 Email: **c.katzbar@thesigmagroup.com** Email:

Analysis Requested										Other Analysis					
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 824.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/ FID

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5040520	Blank			N	91	S	MeOH
B	SB-1(2-4)	2/15/22	1430		4	S	MeOH/WA
C	SB-1(8-10)		1450				
D	SB-2(2-4)		1455				
E	SB-2(8-10)		1500				
F	SB-3(2-4)		1505				
G	SB-3(10-12)		1570				
H	SB-4(2-4)		1515				
I	SB-4(10-12)		1520				
J	DVP						
K	SB-5(2-4)	2/15/22	1530				
L	SB-5(12-14)		1535				

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Plunger for dry wt.

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: CS
 Temp. of Temp. Blank: _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time: 1700 Date: 2/16/22
 Received By: (sign) _____ Time: _____ Date: _____
 Received in Laboratory By: [Signature] Time: 8:00 Date: 2/17/22

Environmental Lab, Inc.

www.synergy-lab.net

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request

Rush Analysis Date Required: _____

(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
 QUOTE # : _____
 Project #: 20457
 Sampler: (signature) 

Project (Name / Location): KB Dev / MLK Drive

Reports To: Cory Katzban, P.E.

Invoice To: Same

Company The Sigma Group, Inc.

Company _____

Address 1300 W. Canal St.

Address _____

City State Zip Milwaukee, WI 53233

City State Zip _____

Phone 414-643-4200

Phone _____

Email ckatzban@thesigmagroup.com

Email _____

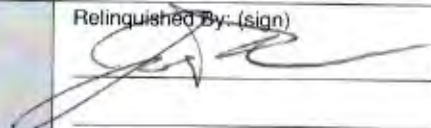

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOG (EPA 8021)	PVOG + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/ FID	
		Date	Time																					
S040520M	SB-6(2-4)	2/15/22	1540	N	4	S	4.0H/N/A																	
N	SB-6(10-12)		1550																					0.1
O	SB-7(2-4)		1553																					0.1
P	SB-7(10-12)		1600																					0.1
Q	SB-8(2-4)		1605																					0.1
R	SB-8(12-14)		1610																					0.1

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Plunger for dry wt.

Sample Integrity - To be completed by receiving lab. Method of Shipment: <u>CS</u> Temp. of Temp. Blank: _____ °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign)  Time: 1700 Date: 2/16/22	Received By: (sign) _____ Time: _____ Date: _____
	Received in Laboratory By:  Time: 8:00 Date: 2/17/22	

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

CORY KATZBAN
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 10-Mar-22

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557A
Sample ID B-4
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.7	%			1	5021		2/25/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	1.59 "J"	mg/kg	1.1	3.7	1	6010B		3/8/2022	SL	1
Barium, Total	56.1	mg/kg	2.1	7	1	6010B		3/8/2022	SL	1
Cadmium, Total	0.679	mg/kg	0.075	0.25	1	6010B		3/8/2022	SL	1
Chromium, Total	16.7	mg/kg	0.116	0.39	1	6010B		3/8/2022	SL	1
Lead, Total	33.5	mg/kg	0.6	2	1	6010B		3/8/2022	SL	1
Mercury, Total	< 0.038	mg/kg	0.038	0.127	1	7470A		3/4/2022	PCE	1
Selenium, Total	< 1.3	mg/kg	1.3	4.33	1	6010B		3/8/2022	SL	1
Silver, Total	< 0.113	mg/kg	0.113	0.38	1	6010B		3/8/2022	SL	1
Organic										
PAH SIM										
Acenaphthene	0.054	mg/kg	0.011	0.042	1	M8270C	3/3/2022	3/4/2022	NJC	1
Acenaphthylene	0.0157 "J"	mg/kg	0.009	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Anthracene	0.39	mg/kg	0.0071	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)anthracene	0.63	mg/kg	0.0139	0.053	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)pyrene	0.86	mg/kg	0.0143	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(b)fluoranthene	1.06	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(g,h,i)perylene	0.47	mg/kg	0.0125	0.048	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(k)fluoranthene	0.46	mg/kg	0.0076	0.029	1	M8270C	3/3/2022	3/4/2022	NJC	1
Chrysene	0.93	mg/kg	0.0142	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Dibenzo(a,h)anthracene	0.102	mg/kg	0.0136	0.052	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluoranthene	1.66	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluorene	0.088	mg/kg	0.0091	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557A
Sample ID B-4
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Indeno(1,2,3-cd)pyrene	0.65	mg/kg	0.0152	0.058	1	M8270C	3/3/2022	3/4/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/3/2022	3/4/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	3/3/2022	3/4/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	3/3/2022	3/4/2022	NJC	1
Phenanthrene	1.00	mg/kg	0.0089	0.034	1	M8270C	3/3/2022	3/4/2022	NJC	1
Pyrene	1.38	mg/kg	0.007	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		3/4/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/4/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		3/4/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		3/4/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		3/4/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		3/4/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		3/4/2022	CJR	1
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		3/4/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		3/4/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		3/4/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		3/4/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		3/4/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/4/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		3/4/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		3/4/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		3/4/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		3/4/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		3/4/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		3/4/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		3/4/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		3/4/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/4/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557A
Sample ID B-4
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		3/4/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		3/4/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		3/4/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		3/4/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		3/4/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		3/4/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		3/4/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		3/4/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
SUR - Toluene-d8	104	Rec %			1	8260B		3/4/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		3/4/2022	CJR	1
SUR - 4-Bromofluorobenzene	90	Rec %			1	8260B		3/4/2022	CJR	1
SUR - Dibromofluoromethane	101	Rec %			1	8260B		3/4/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557B
Sample ID B-6
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	70.9	%			1	5021		2/25/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	2.61	mg/kg	1.1	3.7	1	6010B		3/8/2022	SL	1
Barium, Total	72.4	mg/kg	2.1	7	1	6010B		3/8/2022	SL	1
Cadmium, Total	0.765	mg/kg	0.075	0.25	1	6010B		3/8/2022	SL	1
Chromium, Total	16.2	mg/kg	0.116	0.39	1	6010B		3/8/2022	SL	1
Lead, Total	120	mg/kg	0.6	2	1	6010B		3/8/2022	SL	1
Mercury, Total	0.098 "J"	mg/kg	0.038	0.127	1	7470A		3/4/2022	PCE	1
Selenium, Total	< 1.3	mg/kg	1.3	4.33	1	6010B		3/8/2022	SL	1
Silver, Total	< 0.113	mg/kg	0.113	0.38	1	6010B		3/8/2022	SL	1
Organic										
PAH SIM										
Acenaphthene	0.024 "J"	mg/kg	0.011	0.042	1	M8270C	3/3/2022	3/4/2022	NJC	1
Acenaphthylene	0.0157 "J"	mg/kg	0.009	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Anthracene	0.071	mg/kg	0.0071	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)anthracene	0.28	mg/kg	0.0139	0.053	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)pyrene	0.52	mg/kg	0.0143	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(b)fluoranthene	0.72	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(g,h,i)perylene	0.36	mg/kg	0.0125	0.048	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(k)fluoranthene	0.307	mg/kg	0.0076	0.029	1	M8270C	3/3/2022	3/4/2022	NJC	1
Chrysene	0.56	mg/kg	0.0142	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Dibenzo(a,h)anthracene	0.069	mg/kg	0.0136	0.052	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluoranthene	0.88	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluorene	0.0181 "J"	mg/kg	0.0091	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.45	mg/kg	0.0152	0.058	1	M8270C	3/3/2022	3/4/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/3/2022	3/4/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	3/3/2022	3/4/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	3/3/2022	3/4/2022	NJC	1
Phenanthrene	0.39	mg/kg	0.0089	0.034	1	M8270C	3/3/2022	3/4/2022	NJC	1
Pyrene	0.73	mg/kg	0.007	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		3/4/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/4/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		3/4/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		3/4/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		3/4/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		3/4/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		3/4/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557B
Sample ID B-6
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		3/4/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		3/4/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		3/4/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		3/4/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		3/4/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/4/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		3/4/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		3/4/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		3/4/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		3/4/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/4/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		3/4/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		3/4/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		3/4/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		3/4/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/4/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/4/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		3/4/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		3/4/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		3/4/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		3/4/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		3/4/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		3/4/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		3/4/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/4/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/4/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		3/4/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		3/4/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/4/2022	CJR	1
SUR - Dibromofluoromethane	102	Rec %			1	8260B		3/4/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			1	8260B		3/4/2022	CJR	1
SUR - 4-Bromofluorobenzene	84	Rec %			1	8260B		3/4/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557B
Sample ID B-6
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	102	Rec %			1	8260B		3/4/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557C
Sample ID B-7
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		2/25/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	3.13	mg/kg	1.1	3.7	1	6010B		3/8/2022	SL	1
Barium, Total	93.5	mg/kg	2.1	7	1	6010B		3/8/2022	SL	1
Cadmium, Total	0.767	mg/kg	0.075	0.25	1	6010B		3/8/2022	SL	1
Chromium, Total	14.9	mg/kg	0.116	0.39	1	6010B		3/8/2022	SL	1
Lead, Total	14.7	mg/kg	0.6	2	1	6010B		3/8/2022	SL	1
Mercury, Total	0.142	mg/kg	0.038	0.127	1	7470A		3/4/2022	PCE	1
Selenium, Total	< 1.3	mg/kg	1.3	4.33	1	6010B		3/8/2022	SL	1
Silver, Total	< 0.113	mg/kg	0.113	0.38	1	6010B		3/8/2022	SL	1
Organic										
PAH SIM										
Acenaphthene	0.067	mg/kg	0.011	0.042	1	M8270C	3/3/2022	3/4/2022	NJC	1
Acenaphthylene	0.0277 "J"	mg/kg	0.009	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Anthracene	0.23	mg/kg	0.0071	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)anthracene	0.55	mg/kg	0.0139	0.053	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)pyrene	1.04	mg/kg	0.0143	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(b)fluoranthene	1.33	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(g,h,i)perylene	0.67	mg/kg	0.0125	0.048	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(k)fluoranthene	0.53	mg/kg	0.0076	0.029	1	M8270C	3/3/2022	3/4/2022	NJC	1
Chrysene	0.96	mg/kg	0.0142	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Dibenzo(a,h)anthracene	0.12	mg/kg	0.0136	0.052	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluoranthene	1.81	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluorene	0.064	mg/kg	0.0091	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.87	mg/kg	0.0152	0.058	1	M8270C	3/3/2022	3/4/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/3/2022	3/4/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	3/3/2022	3/4/2022	NJC	1
Naphthalene	0.032 "J"	mg/kg	0.0201	0.077	1	M8270C	3/3/2022	3/4/2022	NJC	1
Phenanthrene	1.03	mg/kg	0.0089	0.034	1	M8270C	3/3/2022	3/4/2022	NJC	1
Pyrene	1.55	mg/kg	0.007	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		3/5/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/5/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		3/5/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		3/5/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		3/5/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		3/5/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		3/5/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557C
Sample ID B-7
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		3/5/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		3/5/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		3/5/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		3/5/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		3/5/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/5/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		3/5/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		3/5/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		3/5/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		3/5/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		3/5/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		3/5/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		3/5/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		3/5/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/5/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		3/5/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		3/5/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		3/5/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		3/5/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		3/5/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		3/5/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		3/5/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		3/5/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
SUR - Toluene-d8	104	Rec %			1	8260B		3/5/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	93	Rec %			1	8260B		3/5/2022	CJR	1
SUR - 4-Bromofluorobenzene	88	Rec %			1	8260B		3/5/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557C
Sample ID B-7
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	95	Rec %			1	8260B		3/5/2022	CJR	1

Project Name KG DEV/MLK DRIVE
 Project # 20457

Invoice # E40557

Lab Code 5040557D
 Sample ID B-8
 Sample Matrix Soil
 Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		2/25/2022	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 1.1	mg/kg	1.1	3.7	1	6010B		3/8/2022	SL	1
Barium, Total	29.3	mg/kg	2.1	7	1	6010B		3/8/2022	SL	1
Cadmium, Total	1.07	mg/kg	0.075	0.25	1	6010B		3/8/2022	SL	1
Chromium, Total	11.2	mg/kg	0.116	0.39	1	6010B		3/8/2022	SL	1
Lead, Total	9.76	mg/kg	0.6	2	1	6010B		3/8/2022	SL	1
Mercury, Total	< 0.038	mg/kg	0.038	0.127	1	7470A		3/4/2022	PCE	1
Selenium, Total	< 1.3	mg/kg	1.3	4.33	1	6010B		3/8/2022	SL	1
Silver, Total	< 0.113	mg/kg	0.113	0.38	1	6010B		3/8/2022	SL	1
Organic										
PAH SIM										
Acenaphthene	0.053	mg/kg	0.011	0.042	1	M8270C	3/3/2022	3/4/2022	NJC	1
Acenaphthylene	< 0.009	mg/kg	0.009	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Anthracene	0.115	mg/kg	0.0071	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)anthracene	0.114	mg/kg	0.0139	0.053	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(a)pyrene	0.17	mg/kg	0.0143	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(b)fluoranthene	0.194	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(g,h,i)perylene	0.129	mg/kg	0.0125	0.048	1	M8270C	3/3/2022	3/4/2022	NJC	1
Benzo(k)fluoranthene	0.073	mg/kg	0.0076	0.029	1	M8270C	3/3/2022	3/4/2022	NJC	1
Chrysene	0.16	mg/kg	0.0142	0.055	1	M8270C	3/3/2022	3/4/2022	NJC	1
Dibenzo(a,h)anthracene	0.0228 "J"	mg/kg	0.0136	0.052	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluoranthene	0.47	mg/kg	0.008	0.031	1	M8270C	3/3/2022	3/4/2022	NJC	1
Fluorene	0.056	mg/kg	0.0091	0.035	1	M8270C	3/3/2022	3/4/2022	NJC	1
Indeno(1,2,3-cd)pyrene	0.138	mg/kg	0.0152	0.058	1	M8270C	3/3/2022	3/4/2022	NJC	1
1-Methyl naphthalene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/3/2022	3/4/2022	NJC	1
2-Methyl naphthalene	< 0.0186	mg/kg	0.0186	0.071	1	M8270C	3/3/2022	3/4/2022	NJC	1
Naphthalene	< 0.0201	mg/kg	0.0201	0.077	1	M8270C	3/3/2022	3/4/2022	NJC	1
Phenanthrene	0.56	mg/kg	0.0089	0.034	1	M8270C	3/3/2022	3/4/2022	NJC	1
Pyrene	0.38	mg/kg	0.007	0.027	1	M8270C	3/3/2022	3/4/2022	NJC	1
VOC's										
Benzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
Bromobenzene	< 0.04	mg/kg	0.04	0.16	1	8260B		3/5/2022	CJR	1
Bromodichloromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/5/2022	CJR	1
Bromoform	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
tert-Butylbenzene	< 0.033	mg/kg	0.033	0.14	1	8260B		3/5/2022	CJR	1
sec-Butylbenzene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
n-Butylbenzene	< 0.029	mg/kg	0.029	0.12	1	8260B		3/5/2022	CJR	1
Carbon Tetrachloride	< 0.032	mg/kg	0.032	0.13	1	8260B		3/5/2022	CJR	1
Chlorobenzene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
Chloroethane	< 0.1	mg/kg	0.1	0.41	1	8260B		3/5/2022	CJR	1
Chloroform	< 0.032	mg/kg	0.032	0.13	1	8260B		3/5/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557D
Sample ID B-8
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloromethane	< 0.064	mg/kg	0.064	0.26	1	8260B		3/5/2022	CJR	1
2-Chlorotoluene	< 0.034	mg/kg	0.034	0.14	1	8260B		3/5/2022	CJR	1
4-Chlorotoluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.055	mg/kg	0.055	0.22	1	8260B		3/5/2022	CJR	1
Dibromochloromethane	< 0.038	mg/kg	0.038	0.16	1	8260B		3/5/2022	CJR	1
1,4-Dichlorobenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
1,3-Dichlorobenzene	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
1,2-Dichlorobenzene	< 0.026	mg/kg	0.026	0.11	1	8260B		3/5/2022	CJR	1
Dichlorodifluoromethane	< 0.046	mg/kg	0.046	0.19	1	8260B		3/5/2022	CJR	1
1,2-Dichloroethane	< 0.042	mg/kg	0.042	0.17	1	8260B		3/5/2022	CJR	1
1,1-Dichloroethane	< 0.033	mg/kg	0.033	0.13	1	8260B		3/5/2022	CJR	1
1,1-Dichloroethene	< 0.049	mg/kg	0.049	0.2	1	8260B		3/5/2022	CJR	1
cis-1,2-Dichloroethene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
trans-1,2-Dichloroethene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,2-Dichloropropane	< 0.04	mg/kg	0.04	0.16	1	8260B		3/5/2022	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
trans-1,3-Dichloropropene	< 0.027	mg/kg	0.027	0.11	1	8260B		3/5/2022	CJR	1
cis-1,3-Dichloropropene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
Di-isopropyl ether	< 0.028	mg/kg	0.028	0.11	1	8260B		3/5/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
Ethylbenzene	< 0.023	mg/kg	0.023	0.096	1	8260B		3/5/2022	CJR	1
Hexachlorobutadiene	< 0.1	mg/kg	0.1	0.42	1	8260B		3/5/2022	CJR	1
Isopropylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
p-Isopropyltoluene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
Methylene chloride	< 0.1	mg/kg	0.1	0.42	1	8260B		3/5/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
Naphthalene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/5/2022	CJR	1
n-Propylbenzene	< 0.025	mg/kg	0.025	0.1	1	8260B		3/5/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.041	mg/kg	0.041	0.17	1	8260B		3/5/2022	CJR	1
Tetrachloroethene	< 0.039	mg/kg	0.039	0.16	1	8260B		3/5/2022	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.045	mg/kg	0.045	0.18	1	8260B		3/5/2022	CJR	1
1,2,3-Trichlorobenzene	< 0.18	mg/kg	0.18	0.56	1	8260B		3/5/2022	CJR	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
1,1,2-Trichloroethane	< 0.037	mg/kg	0.037	0.15	1	8260B		3/5/2022	CJR	1
Trichloroethene (TCE)	< 0.039	mg/kg	0.039	0.16	1	8260B		3/5/2022	CJR	1
Trichlorofluoromethane	< 0.066	mg/kg	0.066	0.27	1	8260B		3/5/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.035	mg/kg	0.035	0.14	1	8260B		3/5/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.031	mg/kg	0.031	0.13	1	8260B		3/5/2022	CJR	1
Vinyl Chloride	< 0.036	mg/kg	0.036	0.15	1	8260B		3/5/2022	CJR	1
m&p-Xylene	< 0.062	mg/kg	0.062	0.25	1	8260B		3/5/2022	CJR	1
o-Xylene	< 0.03	mg/kg	0.03	0.12	1	8260B		3/5/2022	CJR	1
SUR - Toluene-d8	97	Rec %			1	8260B		3/5/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			1	8260B		3/5/2022	CJR	1
SUR - 4-Bromofluorobenzene	84	Rec %			1	8260B		3/5/2022	CJR	1

Project Name KG DEV/MLK DRIVE
Project # 20457

Invoice # E40557

Lab Code 5040557D
Sample ID B-8
Sample Matrix Soil
Sample Date 2/22/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	100	Rec %			1	8260B		3/5/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code ***Comment***

1 Laboratory QC within limits.

PCE denotes sub contract lab - Certification #998093910

SL denotes sub contract lab - Certification #399089350

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Lab I.D. #

QUOTE #: Standard Rates

Project #: 20457

Sampler: (signature) Meleser

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcabc.com

Sample Handling Request

Rush Analysis Date Required:
 (Rushes accepted only with prior authorization)
 Normal Turn Around

Project (Name / Location): KG DW / MLK Drive Milwaukee WI

Reports To: Cory Katzban Invoice To:

Company: The Sigma Group Company:

Address: 1300 W. Canal St Address: SAME

City State Zip: Milwaukee, WI 53233 City State Zip:

Phone: 414-643-4200 Phone:

Email: C.katzban@thesigmagroup.com Email:

Analysis Requested											Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/FID

Lab I.D.	Sample I.D.	Collection Date	Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>S040557H</u>	<u>B-4</u>	<u>2/22</u>	<u>12:15</u>	<u>N</u>	<u>4</u>	<u>S</u>	<u>MOH/NONE</u>
<u>B</u>	<u>B-6</u>	<u>2/23</u>	<u>3:50</u>		↓	<u>S</u>	↓
<u>C</u>	<u>B-7</u>	<u>2/23</u>	↓		↓	<u>S</u>	↓
<u>D</u>	<u>B-8</u>	<u>2/23</u>	↓		↓	<u>S</u>	↓

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: CS

Temp. of Temp. Blank: _____ °C On Ice:

Cooler seal intact upon receipt: Yes _____ No

Relinquished By: (sign) [Signature] Time 2:40 pm Date 2/24/22

Received By: (sign) _____ Time _____ Date _____

Received in Laboratory By: [Signature] Time: 8:00 Date: 2/25/22

Appendix D

Groundwater Laboratory Analytical Report

Synergy Environmental Lab, LLC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

CORY KATZBAN
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 16-Mar-22

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536A
Sample ID TW-1
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 4.4	ug/l	4.4	14.7	1	EPA 6010B		2/25/2022	PCE	1
Barium, Dissolved	44.1	ug/l	0.736	2.45	1	EPA 6010B		2/25/2022	PCE	1
Cadmium, Dissolved	0.762 "J"	ug/l	0.479	1.6	1	EPA 6010B		2/25/2022	PCE	1
Chromium, Dissolved	< 1.4	ug/l	1.4	4.67	1	EPA 6010B		2/25/2022	PCE	1
Lead, Dissolved	< 2.99	ug/l	2.99	9.97	1	EPA 6010B		2/25/2022	PCE	1
Mercury, Dissolved	< 0.1	ug/l	0.1	0.33	1	7470A		2/28/2022	PCE	1
Selenium, Dissolved	< 7.35	ug/l	7.35	24.5	1	EPA 6010B		2/25/2022	PCE	1
Silver, Dissolved	< 1.54	ug/l	1.54	5.13	1	EPA 6010B		2/25/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	0.011 "J"	ug/l	0.0094	0.03	1	M8270C	3/15/2022	3/15/2022	NJC	34
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	3/15/2022	3/15/2022	NJC	34
Anthracene	< 0.015	ug/l	0.015	0.0478	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(a)anthracene	0.032 "J"	ug/l	0.02	0.067	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(a)pyrene	0.0209 "J"	ug/l	0.0167	0.0531	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(b)fluoranthene	0.0201 "J"	ug/l	0.016	0.0509	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(g,h,i)perylene	< 0.0142	ug/l	0.0142	0.0451	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(k)fluoranthene	0.0181 "J"	ug/l	0.0146	0.0463	1	M8270C	3/15/2022	3/15/2022	NJC	34
Chrysene	0.0284 "J"	ug/l	0.0157	0.0499	1	M8270C	3/15/2022	3/15/2022	NJC	34
Dibenzo(a,h)anthracene	< 0.0173	ug/l	0.0173	0.0549	1	M8270C	3/15/2022	3/15/2022	NJC	34
Fluoranthene	0.0298	ug/l	0.0088	0.0281	1	M8270C	3/15/2022	3/15/2022	NJC	34
Fluorene	0.015 "J"	ug/l	0.0079	0.0251	1	M8270C	3/15/2022	3/15/2022	NJC	34
Indeno(1,2,3-cd)pyrene	< 0.0121	ug/l	0.0121	0.0385	1	M8270C	3/15/2022	3/15/2022	NJC	34
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	3/15/2022	3/15/2022	NJC	34
2-Methyl naphthalene	0.0217 "J"	ug/l	0.0186	0.059	1	M8270C	3/15/2022	3/15/2022	NJC	34

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536A
Sample ID TW-1
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	3/15/2022	3/15/2022	NJC	34
Phenanthrene	0.042 "J"	ug/l	0.0143	0.0456	1	M8270C	3/15/2022	3/15/2022	NJC	34
Pyrene	0.0258 "J"	ug/l	0.0121	0.0386	1	M8270C	3/15/2022	3/15/2022	NJC	34
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/24/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/24/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/24/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/24/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/24/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/24/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/24/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/24/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/24/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/24/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/24/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/24/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/24/2022	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/24/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/24/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/24/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/24/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/24/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/24/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/24/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/24/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/24/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/24/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/24/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/24/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/24/2022	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/24/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/24/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/24/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/24/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/24/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536A
Sample ID TW-1
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/24/2022	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/24/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/24/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/24/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/24/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/24/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		2/24/2022	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			1	8260B		2/24/2022	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		2/24/2022	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536B
Sample ID TW-2
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 4.4	ug/l	4.4	14.7	1	EPA 6010B		2/25/2022	PCE	1
Barium, Dissolved	26.6	ug/l	0.736	2.45	1	EPA 6010B		2/25/2022	PCE	1
Cadmium, Dissolved	< 0.479	ug/l	0.479	1.6	1	EPA 6010B		2/25/2022	PCE	1
Chromium, Dissolved	< 1.4	ug/l	1.4	4.67	1	EPA 6010B		2/25/2022	PCE	1
Lead, Dissolved	< 2.99	ug/l	2.99	9.97	1	EPA 6010B		2/25/2022	PCE	1
Mercury, Dissolved	< 0.1	ug/l	0.1	0.33	1	7470A		2/28/2022	PCE	1
Selenium, Dissolved	< 7.35	ug/l	7.35	24.5	1	EPA 6010B		2/25/2022	PCE	1
Silver, Dissolved	< 1.54	ug/l	1.54	5.13	1	EPA 6010B		2/25/2022	PCE	1
Organic										
PAH SIM										
Acenaphthene	0.081	ug/l	0.0094	0.03	1	M8270C	3/15/2022	3/15/2022	NJC	34
Acenaphthylene	< 0.0156	ug/l	0.0156	0.0495	1	M8270C	3/15/2022	3/15/2022	NJC	34
Anthracene	0.079	ug/l	0.015	0.0478	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(a)anthracene	0.224	ug/l	0.02	0.067	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(a)pyrene	0.174	ug/l	0.0167	0.0531	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(b)fluoranthene	0.252	ug/l	0.016	0.0509	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(g,h,i)perylene	0.105	ug/l	0.0142	0.0451	1	M8270C	3/15/2022	3/15/2022	NJC	34
Benzo(k)fluoranthene	0.126	ug/l	0.0146	0.0463	1	M8270C	3/15/2022	3/15/2022	NJC	34
Chrysene	0.249	ug/l	0.0157	0.0499	1	M8270C	3/15/2022	3/15/2022	NJC	34
Dibenzo(a,h)anthracene	0.0272 "J"	ug/l	0.0173	0.0549	1	M8270C	3/15/2022	3/15/2022	NJC	34
Fluoranthene	0.60	ug/l	0.0088	0.0281	1	M8270C	3/15/2022	3/15/2022	NJC	34
Fluorene	0.045	ug/l	0.0079	0.0251	1	M8270C	3/15/2022	3/15/2022	NJC	34
Indeno(1,2,3-cd)pyrene	0.095	ug/l	0.0121	0.0385	1	M8270C	3/15/2022	3/15/2022	NJC	34
1-Methyl naphthalene	< 0.0191	ug/l	0.0191	0.0609	1	M8270C	3/15/2022	3/15/2022	NJC	34
2-Methyl naphthalene	< 0.0186	ug/l	0.0186	0.059	1	M8270C	3/15/2022	3/15/2022	NJC	34
Naphthalene	< 0.03	ug/l	0.03	0.1	1	M8270C	3/15/2022	3/15/2022	NJC	34
Phenanthrene	0.206	ug/l	0.0143	0.0456	1	M8270C	3/15/2022	3/15/2022	NJC	34
Pyrene	0.35	ug/l	0.0121	0.0386	1	M8270C	3/15/2022	3/15/2022	NJC	34
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/24/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/24/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/24/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/24/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/24/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/24/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/24/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/24/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/24/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/24/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/24/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/24/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536B
Sample ID TW-2
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/24/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/24/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/24/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/24/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/24/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/24/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/24/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/24/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/24/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/24/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/24/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/24/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/24/2022	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/24/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/24/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/24/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/24/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/24/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/24/2022	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/24/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/24/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/24/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/24/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/24/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/24/2022	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		2/24/2022	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		2/24/2022	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536C
Sample ID TW-5
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 4.4	ug/l	4.4	14.7	1	EPA 6010B		2/25/2022	PCE	1
Barium, Dissolved	63.6	ug/l	0.736	2.45	1	EPA 6010B		2/25/2022	PCE	1
Cadmium, Dissolved	< 0.479	ug/l	0.479	1.6	1	EPA 6010B		2/25/2022	PCE	1
Chromium, Dissolved	2.75 "J"	ug/l	1.4	4.67	1	EPA 6010B		2/25/2022	PCE	1
Lead, Dissolved	< 2.99	ug/l	2.99	9.97	1	EPA 6010B		2/25/2022	PCE	1
Mercury, Dissolved	< 0.1	ug/l	0.1	0.33	1	7470A		2/28/2022	PCE	1
Selenium, Dissolved	< 7.35	ug/l	7.35	24.5	1	EPA 6010B		2/25/2022	PCE	1
Silver, Dissolved	< 1.54	ug/l	1.54	5.13	1	EPA 6010B		2/25/2022	PCE	1
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/24/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/24/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/24/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/24/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/24/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/24/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/24/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/24/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/24/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/24/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/24/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/24/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/24/2022	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/24/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/24/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/24/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/24/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/24/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/24/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/24/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/24/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/24/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/24/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/24/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/24/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536C
Sample ID TW-5
Sample Matrix Water
Sample Date 2/18/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/24/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/24/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/24/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/24/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/24/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/24/2022	CJR	1
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/24/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/24/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/24/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/24/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/24/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/24/2022	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		2/24/2022	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		2/24/2022	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536D
Sample ID TW-8
Sample Matrix Water
Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/25/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/25/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/25/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/25/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/25/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/25/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/25/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/25/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/25/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/25/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/25/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/25/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/25/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/25/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/25/2022	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/25/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/25/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/25/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/25/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/25/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/25/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/25/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/25/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/25/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/25/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/25/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/25/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/25/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/25/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/25/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/25/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/25/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/25/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/25/2022	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/25/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/25/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/25/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/25/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/25/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/25/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/25/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536D
Sample ID TW-8
Sample Matrix Water
Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/25/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/25/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/25/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/25/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/25/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/25/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/25/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/25/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/25/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/25/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/25/2022	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		2/25/2022	CJR	1
SUR - Dibromofluoromethane	112	REC %			1	8260B		2/25/2022	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		2/25/2022	CJR	1

Project Name KG DEV., MLK DRIVE
 Project # 20457

Invoice # E40536

Lab Code 5040536E
 Sample ID DUPLICATE
 Sample Matrix Water
 Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/25/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/25/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/25/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/25/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/25/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/25/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/25/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/25/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/25/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/25/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/25/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/25/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/25/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/25/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/25/2022	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/25/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/25/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/25/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/25/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/25/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/25/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/25/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/25/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/25/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/25/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/25/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/25/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/25/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/25/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/25/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/25/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/25/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/25/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/25/2022	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/25/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/25/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/25/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/25/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/25/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/25/2022	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/25/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/25/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536E
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/25/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/25/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/25/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/25/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/25/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/25/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/25/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/25/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/25/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/25/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/25/2022	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		2/25/2022	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		2/25/2022	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		2/25/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536F
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.3	ug/l	0.3	1.25	1	8260B		2/24/2022	CJR	1
Bromobenzene	< 0.34	ug/l	0.34	1.4	1	8260B		2/24/2022	CJR	1
Bromodichloromethane	< 0.36	ug/l	0.36	1.47	1	8260B		2/24/2022	CJR	1
Bromoform	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
tert-Butylbenzene	< 0.37	ug/l	0.37	1.49	1	8260B		2/24/2022	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.9	1	8260B		2/24/2022	CJR	1
Carbon Tetrachloride	< 0.34	ug/l	0.34	1.39	1	8260B		2/24/2022	CJR	1
Chlorobenzene	< 0.29	ug/l	0.29	1.19	1	8260B		2/24/2022	CJR	1
Chloroethane	< 0.62	ug/l	0.62	2.54	1	8260B		2/24/2022	CJR	1
Chloroform	< 0.33	]	0.33	1.33	1	8260B		2/24/2022	CJR	1
Chloromethane	< 0.74	ug/l	0.74	30.3	1	8260B		2/24/2022	CJR	1
2-Chlorotoluene	< 0.34	ug/l	0.34	1.37	1	8260B		2/24/2022	CJR	1
4-Chlorotoluene	< 0.4	ug/l	0.4	1.63	1	8260B		2/24/2022	CJR	1
1,2-Dibromo-3-chloropropane	< 0.74	ug/l	0.74	3.01	1	8260B		2/24/2022	CJR	1
Dibromochloromethane	< 0.36	ug/l	0.36	1.46	1	8260B		2/24/2022	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	2.01	1	8260B		2/24/2022	CJR	1
1,3-Dichlorobenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,2-Dichlorobenzene	< 0.4	ug/l	0.4	1.65	1	8260B		2/24/2022	CJR	1
Dichlorodifluoromethane	< 0.3	ug/l	0.3	1.23	1	8260B		2/24/2022	CJR	1
1,2-Dichloroethane	< 0.43	ug/l	0.43	1.75	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethane	< 0.43	ug/l	0.43	1.74	1	8260B		2/24/2022	CJR	1
1,1-Dichloroethene	< 0.43	ug/l	0.43	1.76	1	8260B		2/24/2022	CJR	1
cis-1,2-Dichloroethene	< 0.32	ug/l	0.32	1.29	1	8260B		2/24/2022	CJR	1
trans-1,2-Dichloroethene	< 0.5	ug/l	0.5	2.02	1	8260B		2/24/2022	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.58	1	8260B		2/24/2022	CJR	1
1,3-Dichloropropane	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
trans-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
cis-1,3-Dichloropropene	< 0.41	ug/l	0.41	1.67	1	8260B		2/24/2022	CJR	1
Di-isopropyl ether	< 0.48	ug/l	0.48	1.96	1	8260B		2/24/2022	CJR	1
EDB (1,2-Dibromoethane)	< 0.39	ug/l	0.39	1.59	1	8260B		2/24/2022	CJR	1
Ethylbenzene	< 0.33	ug/l	0.33	1.37	1	8260B		2/24/2022	CJR	1
Hexachlorobutadiene	< 0.81	ug/l	0.81	3.44	1	8260B		2/24/2022	CJR	1
Isopropylbenzene	< 0.34	ug/l	0.34	1.38	1	8260B		2/24/2022	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Methylene chloride	< 0.79	ug/l	0.79	3.23	1	8260B		2/24/2022	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Naphthalene	< 1.4	ug/l	1.4	5.56	1	8260B		2/24/2022	CJR	1
n-Propylbenzene	< 0.39	ug/l	0.39	1.6	1	8260B		2/24/2022	CJR	1
1,1,2,2-Tetrachloroethane	< 0.43	ug/l	0.43	1.77	1	8260B		2/24/2022	CJR	1
1,1,1,2-Tetrachloroethane	< 0.55	ug/l	0.55	2.25	1	8260B		2/24/2022	CJR	1
Tetrachloroethene	< 0.47	ug/l	0.47	1.91	1	8260B		2/24/2022	CJR	1
Toluene	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trichlorobenzene	< 0.63	ug/l	0.63	2.57	1	8260B		2/24/2022	CJR	1

Project Name KG DEV., MLK DRIVE
Project # 20457

Invoice # E40536

Lab Code 5040536F
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 2/21/2022

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.4	ug/l	1.4	5.94	1	8260B		2/24/2022	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.34	1	8260B		2/24/2022	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.72	1	8260B		2/24/2022	CJR	1
Trichloroethene (TCE)	< 0.38	ug/l	0.38	1.55	1	8260B		2/24/2022	CJR	1
Trichlorofluoromethane	< 0.33	ug/l	0.33	1.35	1	8260B		2/24/2022	CJR	1
1,2,4-Trimethylbenzene	< 0.35	ug/l	0.35	1.44	1	8260B		2/24/2022	CJR	1
1,3,5-Trimethylbenzene	< 0.41	ug/l	0.41	1.66	1	8260B		2/24/2022	CJR	1
Vinyl Chloride	< 0.15	ug/l	0.15	0.61	1	8260B		2/24/2022	CJR	1
m&p-Xylene	< 0.64	ug/l	0.64	2.63	1	8260B		2/24/2022	CJR	1
o-Xylene	< 0.37	ug/l	0.37	1.51	1	8260B		2/24/2022	CJR	1
SUR - Toluene-d8	97	REC %				1	8260B	2/24/2022	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %				1	8260B	2/24/2022	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %				1	8260B	2/24/2022	CJR	1
SUR - Dibromofluoromethane	112	REC %				1	8260B	2/24/2022	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

- 1 Laboratory QC within limits.
- 34 Sample received past/too close to holding time expiration.
 PCE denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Environmental Lab, Inc.

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcbs.com

Sample Handling Request

Rush Analysis Date Required: _____
 (Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. #

QUOTE #: Standard Rates

Project #: 20457

Sampler: (signature) *Cory Katchan*

Project (Name / Location): KB Dev 9 MLK Drive Milwaukee, WI

Reports To: Cory Katchan

Invoice To:

Company: The Sigma Group, Inc

Company

Address: 1300 W. Canal St

Address

City State Zip: Milwaukee, WI 53233

City State Zip

Phone: 414-643-4200

Phone

Email: Cory Katchan

Email

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVC (EPA 8021)	PVC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-PCRA METALS	PID/ FID	
		Date	Time																					
5040536A	TW-1	2/18/22	9:30a	Y/N	5	GW	HCL/HNO3																	
B	TW-2		10:15a	Y/N	5	I	I																	
C	TW-5		10:30a	Y/N	5	I	I																	
	TW-7																							
D	TW-8	2/21/22	10:40	N	4	GW	HCL																	
E	Duplicate		I	N	3	I	I																	
F	Trip Blank		I	N	1	I	I																	

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

• HOLD PAH analysis pending Sigma request/authorization

Sample Integrity - To be completed by receiving lab.

Method of Shipment: CS

Temp. of Temp. Blank: _____ °C On Ice:

Cooler seal intact upon receipt: Yes No

Relinquished By: (sign)

[Signature]

Time Date
 1:00pm 2/21/22

Received By: (sign)

Time Date

Received in Laboratory By:

[Signature]

Time: 8:00

Date: 2/22/22

Appendix E

Standard Operating Procedures

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 1: Field Documentation

During the implementation of field tasks to complete the scope of work, detailed documentation of field activities will be completed. Field documentation will consist of bound field logbooks, sample collection forms, photographs, and electronically recorded field measurements, as needed.

The following is a list of equipment that may be necessary to carry out the procedures contained in this SOP. Additional equipment may be required, pending field conditions.

- Daily logs
- Chain-of-custody (COC) forms
- Field forms and records
- Bound field logbook
- Pen/ sharpie
- Camera/ cell phone
- Field monitoring equipment (as needed)

Field team members will keep a daily record of significant events, observations, and measurements on field forms. All field activities will be recorded on forms specific to the collection activity and will be maintained by the Field Team Leader. Field notes should be maintained for all field activities (e.g., the collection of samples or the gathering of environmental data). The on-site field representative will record on the daily log forms information pertinent to the investigation, including, at a minimum, the following information:

- Project name
- Field personnel on site
- Visitors
- Health and safety discussions
- Sample locations and unique identification
- Date and collection time of each sample
- Observations made during sample collection, including weather conditions, complications, and other details associated with the sampling effort
- Sampling method and description of activities
- Any deviations from the field sampling plan
- Conferences associated with field sampling activities

In addition to maintaining a daily log, sample collection forms or entries into the field database will be completed for each sample. In general, sufficient information will be recorded during sampling so that reconstruction of the event can occur without relying on the memory of field personnel.

Field notes should be kept on paper (logbook), and all field documentation will be made using an indelible, pen. Corrections will be made by drawing a single line through the error, writing in the correct information, then dating and initialing the change. Blank pages or lines in the field logbook will be lined-out, dated, and initialed at the end of each sampling day. The field forms will be scanned to retain electronic copies upon completion of each sampling event.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 3: Completion of Soil Borings

Hollow Stem Auger Drilling

Hollow stem augers and steel split-spoon samplers will be used to drill and sample select soil locations. The drilling activities will be completed in general accordance with ASTM standards: D420-87, D1452-80, and D-1586-84. All equipment that may come in contact with the soil samples (i.e., augers, drill rods, center bit, etc.) will be decontaminated with Alconox Solution before the drilling commences and between the borehole locations.

Soil samples will be collected in two-foot continuous intervals utilizing two-inch diameter and 18-inch long steel split spoons. To collect soil samples, first a hole will be drilled utilizing 4¼-inch inside diameter auger flights to a depth of the first sampling interval. Then, the inner rods and center drill bit will be removed leaving the auger flights in place to keep the borehole open. A clean split-spoon will be driven into the soil with a 140-pound hammer striking the drill rod assembly attached to the rod from a height of 30 inches or appropriate hydraulic hammer method. The number of hammer blows required to drive the split spoon into the soil for the last 12 inches will be counted and recorded as the standard penetration resistance (N value). When the split spoon reaches the bottom of the sampling interval, it will be retracted, disconnected from the inner drill rods, and opened to allow access to the soil sample. The inner rods and the center drill bit will then be inserted into the augers and the borehole will be drilled to the next sampling depth interval. The process will continue until the last soil sample is retrieved.

Prior to reinserting the split-spoon for retrieval of another soil sample, the split-spoon will be decontaminated to prevent cross-contamination between the sampling intervals. Sampling equipment decontamination procedures will follow the ***SOP: Cleaning/Decontamination of Equipment***.

The information collected during drilling will be presented on final borehole logs that will be prepared on *WDNR Form 4400-122*. The logs will include information on sampling intervals, N Value, and other pertinent information related to the drilling activities.

Following soil boring advancement, soil cuttings generated during drilling will be collected in 55-gallon drums. The drums will be properly labeled and left on site pending receipt of laboratory results and subsequent approval for disposal at a licensed facility.

Geoprobe Advancement

The soil borings will be advanced with a Geoprobe unit designed to retrieve a soil sample from a desired depth interval. The Geoprobe utilizes a two-inch diameter probe rod to reach the desired sampling depth. A clean disposable acetate liner dedicated to each four- or five-foot soil horizon is inserted into the sampling spoon. The sampling spoon is advanced to the desired soil horizon with a hydraulically driven percussion hammer.

When the liner containing soil is brought to the surface and removed from the sampling spoon, the liner is cut open to allow access to the soil. Soil samples will then be collected following ***SOP: Soil / Sediment Sample Collection and Analyses***.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

Prior to reinserting the sampling spoon for retrieval of another soil sample, the sampling spoon will be decontaminated to prevent cross-contamination between the sampling intervals. A new acetate liner will be inserted into the sampling spoon to be advanced to the next depth interval. The sampling procedure will be repeated at four- or five-foot continuous depth intervals until the termination depth of each boring.

The information collected during drilling will be presented on the final borehole logs that will be prepared on *WDNR Form 4400-122*. The logs will include information on sampling intervals and other pertinent information related to the Geoprobe drilling activities.

Following soil boring advancement, soil cuttings generated during drilling will be collected in 55-gallon drums. The drums will be properly labeled and left on site pending receipt of laboratory results and subsequent approval for disposal at a licensed facility. The used polyethylene liners will be disposed of as general solid waste at a licensed disposal facility.

Hand Auger Advancement

The hand auger is advanced manually by turning the hand auger handle in a clock-wise direction while applying a downward force.

Once the hand auger has been advanced to the desired depth, it is removed from the sampling location by pulling straight up. The hand auger containing the soil is then brought to the surface, and the soil is transferred to a Ziploc® bag for classification and temporary storage prior to laboratory containerization.

Prior to reinserting the hand auger for retrieval of another soil sample, the hand auger collection tube will be decontaminated to prevent cross-contamination between the sampling intervals. The sampling procedure will be repeated until the end of each boring.

The information collected during drilling will be presented on the final borehole logs that will be prepared on *WDNR Form 4400-122*. The logs will include information on sampling intervals and other pertinent information related to the hand auger activities.

Following hand auger advancement, soil cuttings generated during drilling will be collected in 55-gallon drums. The drums will be properly labeled and left on site pending receipt of laboratory results and subsequent approval for disposal at a licensed facility.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 4: Soil Classification

In order to provide consistent visual examination during logging of soil samples from soil borings, test pits, or other soil sample collection methodologies, the following standards shall be used by Sigma staff. These standards will provide uniform criteria and procedures for identifying and describing soils and therefore allow for accurate interpretations of geologic and hydrogeologic conditions to meet regulatory requirements.

The Unified Soil Classification System (USCS) is described in ASTM Standard D2487 *Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)*. However, in the field, ASTM Standard D2488 *Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)* is relied upon to classify soils in accordance with the USCS (without having laboratory analyses to support field classifications).

The USCS process starts with a basic determination of soil grain size: samples that contain 50% or more of clay and/or silt are fine-grained, while samples that contain 50% or more of sand and/or gravel are coarse-grained.

Sigma soil descriptions will include (1) consistency / density, (2) color, (3) fine grain / coarse grain constituents, (4) moisture, (5) other descriptive information, and (6) USCS symbol.

1. Consistency / Density

Fine Grain Soil (Consistency)	Terminology	Qualitative Determination
	Very soft	Squeezes between thumb and fingers when squeezed
	Soft	Molded by light finger pressure
	Medium stiff	Molded by strong finger pressure
	Stiff	Indented about ¼ inch by thumb with great effort
	Very stiff	Readily indented by thumbnail
	Hard	Indented with difficulty by thumbnail
Coarse Grain Soil (Density)	Terminology*	N-Value
	Very loose	0 – 4
	Loose	5 – 10
	Medium dense	11 – 30
	Dense	31 – 50
	Very Dense	>50
*Only can be used when using hollow stem auger with split spoon sampler. Density cannot be determined from Geoprobe samples.		

2. Color

Matrix color	Typical descriptors include: light brown, brown, dark brown; light gray, gray, dark gray; brownish-gray; olive gray; greenish-gray; black. Other colors might be encountered; describe as needed based on field conditions.
Secondary colors	Describe color, frequency, and/or size of mottling or coatings in cracks or fissures.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

3. Fine Grain / Coarse Grain Constituents
a. Major Constituents:

	Grain Size	Descriptors	Determination
Fine Grain Soil (> 50% silt and/or clay)	Clay*	High plasticity	Considerable time to knead the soil in order to roll into 1/8 inch thread (putty-like consistency when wet)
		Medium plasticity	1/8 inch thread easy to roll
	Silt*	Low plasticity	1/8 inch thread can barely be rolled
		Non-plastic	Cannot roll soil into 1/8 inch thread
Coarse Grain Soil (> 50% sand and/or gravel)	Sand**	Fine	0.075 – 0.425 mm
		Medium	0.425 – 2 mm
		Coarse	2 – 4.75 mm
	Gravel**	Fine	4.75 – 19 mm (approx. ¼ – ¾ inches)
		Coarse	19 – 75 mm (approx. ¾ – 3 inches)
	Cobbles	---	3 – 12 inches
Boulders	---	> 12 inches	

*Try rolling sample into a ¼ diameter string. Higher clay content will let you roll out the soil easily; higher silt content will cause the soil to break apart or smear instead of rolling.

**Terms “well-graded” and “poorly-graded” can be used to further describe distribution of fine / medium / coarse particle sizes of sands and gravels.

***Note any thin lenses / layers such as a 1-inch sand stringer in clay, or a 2-inch clay layer in sand.

b. Minor Constituents:

Terminology	Estimate of Percentage
Trace	< 5%
Little	6 – 15%
Some	16 – 30%
And	31 – 49%

4. Moisture

Terminology	Qualitative Determination
Dry	Absent of moisture
Moist	Damp but no visible water
Wet	Visible free water (usually just above the water table)
Saturated	Water is dripping from the sample (below water table)

5. Other Descriptive Information

Other information can be included, such as	
Grain shape	Angular, subangular, subrounded, rounded
Odors	Petroleum-like, solvent-like, etc.
Non-soil inclusions	Slag, metal, glass, wood, bricks, concrete, asphalt, other debris, etc.
Marine inclusions	Shells
Other information	As encountered

6. USCS Symbol

Utilize the ASTM D2488 Group Symbol that corresponds with the soil description.

Examples:

Stiff brown silty CLAY with trace olive mottling, trace coarse to fine sand, medium plasticity, moist, trace roots, slight petroleum-like odor (CL)

Loose grayish-brown coarse SAND, poorly graded, little silt, dry, trace glass and metal pieces (SP-SM) (FILL)

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 5: PID and FID Field Screening and Visual Soil Classification

A portion of each soil sample will be screened for volatile compound vapors, using a PID. The PID will be equipped with a 10.6 or 11.7 eV lamp. The PID will be zeroed, using ambient air, and then calibrated with 100 parts per million (ppm) isobutylene gas to benzene equivalent in accordance with the manufacturer's specifications prior to use in the field. The PID calibration data will be recorded in a calibration notebook designated for each PID unit.

At the discretion of Sigma's project manager, an FID may be used instead of the PID. If selected, the unit will be calibrated to the manufacturer's specifications prior to use in the field.

The volatile vapor scan technique with either a PID or FID is a screening method used to assess the presence of certain volatile compounds. Field screening will be performed within 15 minutes of sample collection by filling an eight-ounce jar or Ziploc bag approximately half full, sealing the jar/Ziploc bag, and allowing the sample to equilibrate. The probe of the PID/FID will be then inserted into the jar/Ziploc bag, and the highest stable PID/FID reading will be recorded. The appearance of the soil samples and any incidental odors will also be noted during field screening. The sample will be appropriately disposed of with the balance of the investigation derived waste.

Upon completion of visual soil classification, final borehole logs will be prepared on WDNR Form 4400-122 *Soil Boring Log Information* form. The logs will include information on soil type, gradation, color and moisture content, and field PID/FID readings.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 6: Soil / Sediment Sample Collection and Analyses

Field screening of the soil/sediment samples combined with visual and olfactory observations will aid in selecting samples for laboratory analysis. The selected soil/sediment samples will be submitted to the project laboratory for analyses as specified in a site-specific Sampling and Analysis Plan (SAP). These analyses may include diesel range organics (DRO), gasoline range organics (GRO), volatile organic compounds (VOCs), petroleum volatile organic compounds (PVOCs), polycyclic aromatic hydrocarbons (PAHs), semi-volatile organic compounds (SVOCs), total organic carbon (TOC), per- and polyfluoroalkyl substances (PFAS), Resource Conservation and Recovery Act (RCRA) metals, polychlorinated biphenyls (PCBs), cyanide, herbicides, pesticides, and/or waste characterization analyses depending on the specific site.

Upon opening of the soil/sediment sampling device (e.g. split spoon, Geoprobe sample tube, sediment sampling device), soil/sediment will be removed from the sampling device and divided up into two samples (of equal composition). One sample will be placed in a Ziploc® bag for volatile vapor screening within 15 minutes of sample collection, and the other sample will be placed directly into appropriate containers for the analytical parameters to be analyzed. Specific requirements for sample container type, preservation, and holding times per the approved analytical method will be reviewed and followed.

Generally, soil/sediment to be submitted for DRO, GRO, VOC, and/or PVOC analysis will be immediately collected (via the methods described below). Following the DRO/GRO/VOC/PVOC sample collection, the remainder of the soil/sediment will be divided among the appropriate jars for additional analytes (if applicable). A new pair of Nitrile gloves will be worn for each sampling interval. Sticks, rocks, and large debris will be removed from the soil/sediment samples submitted for laboratory analysis.

The soil/sediment sample collection, storage, and transportation will be performed in general accordance with ASTM and WDNR specifications and follow standard chain of custody requirements. Upon collection and preservation (if applicable), the samples will be placed on ice in a cooler. The sample collection time, sample location, sample interval depth, and sample number will be recorded on the chain of custody and on each container.

Diesel Range Organics/ Gasoline Range Organics/ Volatile Organic Compounds/ Petroleum Volatile Organic Compounds

In order to properly preserve the undisturbed sample, soil/sediment samples selected for VOC/GRO/PVOC analysis will be taken immediately following sample collection. DRO samples will be collected at the same time (if applicable).

Easy Draw Syringe

Sigma will fill the Easy Draw Syringe by placing it in a Power Stop handle, which has been calibrated, by the laboratory, to receive 13 grams of soil/sediment, and plunging it into an undisturbed part of the soil/sediment sample immediately following the sample collection. The soil/sediment contained in the syringe will then be expelled in a 40-ml vial containing 10-ml of methanol for VOC/GRO/PVOC samples, or no preservative for DRO, which has

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

been supplied by the laboratory. The threads of the vial will be cleaned prior to the placement of the cap. Then the vial will be gently swirled to immerse the sample in the methanol (if applicable).

The quantity of 13 grams of soil/sediment has been requested by the project laboratory to ensure that the minimum soil/sediment quantity necessary for laboratory analysis (10 grams to meet for 1 to 1 ratio) is provided. For VOC/GRO/PVOC samples, the laboratory will evaluate the methanol/sample ratio upon receipt of the sample and will adjust the methanol to meet the 1 to 1 ratio in the laboratory as needed.

Polycyclic Aromatic Hydrocarbons/ Semi-Volatile Organic Compounds/ Total Organic Carbon/ RCRA Metals/ Polychlorinated Biphenyls/ Cyanide/ Herbicides/ Pesticides

Soil/sediment will be packed into a non-preserved labeled container per the sample requirements and sealed with an appropriate lid.

Per- and Polyfluoroalkyl Substances

For PFAS analysis, Sigma will follow cross-contamination minimization and decontamination procedures as described in ***SOP: PFAS Field Sampling***. Soil/sediment will be packed into a non-preserved laboratory-supplied 250-ml or 4-ounce HDPE container.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 9: Groundwater Monitoring Well / Piezometer Installation

Groundwater monitoring wells and the piezometers will be constructed in accordance with Wisconsin Administrative Code NR 141. Generally, groundwater monitoring wells will be screened to intersect the water table as estimated during drilling and soil sample collection activities. Piezometers will be screened below the water table. Groundwater monitoring wells will be constructed using 10- to 15-foot screens consisting of 2-inch inside-diameter factory cut 0.010-inch slotted schedule 40 PVC pipe. Piezometers will be constructed using 5-foot screens consisting of the same type of pipe. For either groundwater monitoring wells or piezometers, the screens will be attached to a schedule 40 PVC riser pipe with flush threaded joints (no solvents or glues allowed), which will be solid (non-perforated) 2-inch inside-diameter PVC pipe. The length of the riser pipe will vary depending upon the total depth of the monitoring well/piezometer relative to the ground surface.

The borehole annulus surrounding the monitoring well/piezometer screen will consist of filter sand #30 Red Flint (or equivalent) filter pack. The filter pack will extend a minimum of 1 foot (and up to 2 feet) above the top of the screen. Above the filter pack, a minimum of 6 inches (and up to 2 feet) of washed silica fine sand #45-55 will be placed as part of the filter pack seal. Above the fine sand, a bentonite chip seal will be placed as an annular space seal to a depth of no less than 1.5 foot from the surface. The bentonite seal will be hydrated prior to completion of the monitoring well/piezometer installation.

All monitoring wells and piezometers will be finished with steel bolt-down flush mount protective covers or stick-up pipes concreted above the annular space seal to ground surface to restrict access to the groundwater monitoring well and minimize surface water infiltration. The depths of the borehole bottom, bottom of screen, top of screen, top of filter pack, top of fine sand, top of bentonite annular seal, and top of PVC riser will be measured. The volumes of both sand and bentonite required and used will be calculated and measured. Field data will be recorded on a *Monitoring Well Construction Form (WDNR Form 4400-113A)* for each groundwater monitoring well and piezometer.

All groundwater monitoring well/piezometer data for the site will be summarized on the *Groundwater Monitoring Well Information Form (WDNR Form 4400-89)*.

Upon completion of groundwater monitoring well/piezometer installation and in accordance with WDNR requirements, Sigma will assign Wisconsin Unique Well Numbers (WUWN) to all the monitoring wells/piezometers at the site. A self-adhesive label with the pre-printed WUWN will be placed on the well/piezometer casing for easy identification in the field. The WUWN will be recorded on the *Monitoring Well Construction Form (WDNR Form 4400-113A)*.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 10: Groundwater Monitoring Well Development

Groundwater monitoring wells constructed in accordance with Chapter NR 141 of the Wisconsin Administrative Code or approved with a Chapter NR 141 variance will be developed with plastic disposable bailers using single use Nitrile gloves and new single-use rope or using a peristaltic pump with single use tubing set to a low flow rate of less than 300 milliliters per minute (ml/min) or 0.1 gallons per minute (gal/min). The well development will be completed in accordance with Wisconsin Administrative Code Chapter NR 141.21. If a well cannot be purged dry, the wells will be surged and purged alternatively for a minimum of 30 minutes, and well development will consist of removing ten well volumes or until the water is free of sediment. If the well can be purged dry, the well will not be surged and well development will be considered complete when the well is purged dry three times. The well development procedures will be documented on the *Monitoring Well Development Form (WDNR Form 4400-113B)*.

Groundwater generated as a part of monitoring well development will be contained in drums, which will be properly labeled with the Bureau for Remediation and Redevelopment Tracking System activity number for the site, the site name, well number, initial date of collection, the contents, and Sigma's company name and phone number. The drums will be temporarily staged on-site pending receipt of groundwater analytical results. Free phase product generated during monitoring well development will be contained within separate, properly labeled drums on-site. Based on the laboratory analytical results, the drummed groundwater will be disposed of at an approved wastewater treatment plant or removed and disposed of off site by a licensed waste hauler. If groundwater does not contain any detectable contaminants, it will be dispersed on site. Drummed free product will be properly characterized, removed, and disposed of off-site by a licensed waste hauler.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 11: Groundwater Level Measurements at Monitoring Wells

To the extent practicable, static water level measurements will be conducted on all wells at the site as quickly as possible before any purging or sampling, and in the order of least-to-most contaminated wells. Prior to groundwater purging and sample collection at a monitoring well, the static water level measurements will be made using a Solinst Model 101 electronic water level indicator or equivalent. If the presence of light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPLs) layers are known or suspected, the depth to the immiscible layer and the static water level will be measured with a Solinst 122 Interface Meter or equivalent. Groundwater measurements will be recorded to the nearest 0.01-foot from a surveyed point on the top of the well casing. The water level indicators will be cleaned before and after each measurement with a solution of Alconox and water. (A solution of Simple Green and water will be used instead if Alconox is not available). The depth to water within each well will be recorded at the time the measurement is completed. The data will be recorded on Sigma's *Groundwater Services Summary Form*. The completed form will contain the following information: monitoring well number; date of the static water level measurement; depth to groundwater; type of measuring device used; initials of individuals collecting the data; project number; location of the site; weather conditions; and any additional observations noted.

The groundwater elevations at each well/piezometer will be calculated based on surveyed elevations for the measurement point at the top of the casing of each well/piezometer. If the top of casing is level, the measurement point will be the northern side of well casing. If the top of casing is not level, the measurement point shall be identified (e.g. notched or permanently marked) on the well itself. The survey will be completed using a Trimble GPS receiver (or total station if applicable) and referenced in feet above mean sea level to the USGS's North American Vertical Datum of 1988 (NAVD 1988). The survey data will be recorded on a *Monitoring Well Information Form (WDNR Form 4400-89)*.

If present, the thickness of measured LNAPL or DNAPL layers will be calculated based on the difference from the depth to the immiscible layer and the depth to static water level (or depth to the well bottom).

Groundwater water level measurements for drinking water supply wells are covered under a separate standard operating procedure.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 13: Groundwater Sample Collection and Analyses

The groundwater samples will be submitted to the project laboratory for analyses as specified in the SAP. These analyses will initially include volatile organic compounds (VOCs). Additional analyses such as per- and polyfluoroalkyl substances (PFAS), polycyclic aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals, and polychlorinated biphenyls (PCBs) may also be required depending on the specific site.

The groundwater samples may also be analyzed for natural attenuation parameters including ferrous iron during the quarterly groundwater monitoring, if conducted at the site. The ferrous iron will be tested in the field using a field kit. Standard field measurements including temperature, conductivity, pH, dissolved oxygen, and redox potential will also be collected during each quarterly sampling event using a calibrated handheld meter.

Groundwater samples will either be collected from a small-diameter well set in the Geoprobe borehole or from a permanent ch. NR 141 compliant groundwater monitoring well/piezometer. The dates and times of sample collection will be recorded on the sample containers and on the sampling log. The groundwater sample collection, storage, and transportation will be performed in general accordance with ASTM and WDNR specifications and followed standard chain of custody requirements. The specific requirements for sample container type, preservative, and holding times are presented in **Table 4** attached with this QAPP.

Purging Activities

In general, prior to groundwater sample collection, approximately four well volumes of groundwater will be removed from the small-diameter monitoring well or ch. NR 141 compliant monitoring well/piezometer using a disposable bailer or peristaltic pump set to less than 300 milliliters per minute (ml/min) or 0.1 gallons per minute (GPM). Other equipment, such as a Whale submersible electric pump, may be utilized depending on site conditions and the depth of the installed well.

For wells which do not purge dry, Sigma will monitor indicator parameters during the purging activities to ensure groundwater stability when sampling. Specifically, purging activities should continue until three consecutive readings, spaced approximately two minutes or 0.5 well volumes or more apart are within the following ranges for the following indicators parameters (as specified by the WDNR publication PUBL-DG-03896):

- Dissolved oxygen, +/- 0.2 mg/l
- Specific Conductance, +/- 5.0 μ mhos/cm for values < 1000 μ mhos/cm or +/- 10.0 μ mhos/cm for values > 1000 μ mhos/cm
- pH, 0.1 pH units
- Temperature, +/- 0.1 °C
- Turbidity < 5 NTUs (required if metal samples will not be filtered)

For wells which do purge dry, purge the monitoring well until the pump runs dry and the piezometer until the until the water well is below the top of the well screen.

THE SIGMA GROUP, INC.

STANDARD OPERATING PROCEDURES

Groundwater Sample Collection Methods

Groundwater samples from small-diameter monitoring wells will be collected by using ½-inch or ¾-inch diameter disposable bailers or peristaltic pump. If possible, groundwater samples for VOC analysis will be collected using a disposable bailer of appropriate diameter to fit the small diameter well. If sampling by bailer is not possible, or other analytes are requested, new ¼-inch. I.D. plastic tubing with peristaltic pump will be used.

Groundwater samples from the ch. NR 141 compliant groundwater monitoring wells/piezometers will be collected in accordance with the WDNR, Bureau of Drinking Water and Groundwater, *Groundwater Sampling Field Manual*, dated September 1996 (PUBL-DG-03896). Within the Field Manual, a copy of the entitled *Sampling Procedures for Monitoring Wells* is included in this QAPP.

Groundwater will be collected from the ch. NR 141 compliant groundwater monitoring wells/piezometers using a 1½-inch diameter disposable bailer for all samples, except, if PAH or dissolved RCRA metals analysis are requested, low flow purging and sampling techniques will be implemented.

Laboratory Analysis

Depending on the type of analyses requested, groundwater collected from the small-diameter monitoring well or ch. NR 141 compliant monitoring well/piezometer will be containerized as described below:

Volatile Organic Compounds

Groundwater collected for VOCs will be placed in three 40-milliliter (ml) glass vials with Teflon® lined lids preserved with hydrochloric acid. The water should form a positive meniscus at the brim of the sample containers and no air bubbles should be present once the sample container is sealed. Trip and field water blank samples will also be analyzed for VOCs to serve as QA checks.

Polycyclic Aromatic Hydrocarbons

Groundwater collected for PAHs will be placed in unpreserved 250-ml amber glass bottles sealed with Teflon® lined lids. Leave approximately ½ inch of air space when filling the sample bottles to allow for expansion. For laboratory QA/QC purposes, one out of every ten samples should be collected and submitted in triplicate.

Per- and Polyfluoroalkyl Substances

For PFAS analysis, Sigma will follow specific sample collection, cross-contamination minimization, and decontamination procedures as described in **SOP 6: PFAS Field Sampling**. Groundwater collected for PFAS will be placed in two unpreserved 250-ml HDPE bottles and sealed. Leave approximately ½ inch of air space when filling. For laboratory QA/QC purposes, one out of every ten samples should be collected and submitted in triplicate and a field reagent blank should be submitted per each sampling event.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

Dissolved RCRA Metals

Groundwater collected for metals will be field-filtered using a 0.45-micron pore size filter (allow 150 milliliters to pass through filter before sampling) and placed in 500-ml HDPE bottles, preserved with nitric acid and sealed.

Polychlorinated Biphenyls

Groundwater collected for PCBs will be placed in unpreserved 250-ml amber glass bottles sealed with Teflon® lined lids. Leave approximately ½ inch of air space when filling the sample bottles to allow for expansion.

Ferrous Iron

Ferrous iron will be measured in the field using a Hach kit (previously described).

All groundwater samples will be placed on ice in a cooler immediately following collection. Samples will be delivered to the laboratory at the end of the day when they have been collected or will be picked up from Sigma by the laboratory courier the next day.

Groundwater generated, as a part of permanent monitoring well/piezometer purging will be contained in labeled drums and temporarily staged pending receipt of groundwater analytical results. If based on the analytical results, the drummed water contains detectable concentrations of contaminants, the drummed groundwater will likely be disposed of at the Port Washington Waste Treatment Plant or off-site by a licensed waste hauler. If groundwater does not contain any detectable contaminants, it will be dispersed on-site. Due to small quantity, the groundwater evacuated from temporary wells set in Geoprobe boreholes will be dispersed on-site.

Attachment

WDNR PUBL-DG-038 96, Groundwater Sampling Field Manual

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STANDARD OPERATING PROCEDURES

SOP 16: Borehole / Groundwater Monitoring Well Abandonment

Upon completion of drilling activities, all soil borings that have not been converted to groundwater monitoring wells will be properly abandoned in accordance with Chapters NR 112 and NR 141 of the Wisconsin Administrative Code.

The protective covers and ground surface seals of any groundwater monitoring wells will be removed, and the well casings will be removed or cut off at least 30 inches below the ground surface. Boreholes will be abandoned with bentonite chips no greater than 3/8 inch in diameter or bentonite pellets. Granular bentonite may be used for abandonment of boreholes less than 25 feet deep. If borings were drilled through the existing pavement and repairs to the pavement are necessary, the boreholes will be capped with concrete or asphalt as appropriate to match the existing pavement. Any settling of the sealant material shall be topped off. Abandonment will be documented on *Well/Drillhole/Borehole Abandonment Form (WDNR Form 3300-5B)*.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 26: Cleaning / Decontamination of Equipment

The specific decontamination procedures for soil, sediment, and groundwater sampling equipment will be followed in the field to prevent cross-contamination of samples. It is assumed that the Level D personal protection will be sufficient for this project. Sigma field personnel will wear a hard hat, steel-toed boots, and gloves. Disposable coveralls will be made available to field personnel if warranted or required by the site-specific Health & Safety Plan. The water used during the decontamination procedures will not be contained. During the initial investigation, disposable gloves and coveralls, paper towels, and disposable bailers will be placed in trash containers.

Personnel Decontamination

Field personnel will perform the following decontamination at the end of the workday and when leaving the contaminated area.

- Wash boots in Alconox solution, then rise with water. If disposable latex booties are worn over boots, rinse with Alconox solution, remove and discard.
- Wash outer gloves in Alconox solution, rinse, remove and discard.
- Remove disposable coveralls (e.g. Tyvek) and discard.
- Remove inner gloves and discard.
- At the end of the workday, shower entire body including hair at home.

Sampling Equipment Decontamination

The soil/ sediment sampling equipment (split-spoons, spatulas, etc.) will be decontaminated between each sample using the following procedures:

- Scrape soil/ sediment from sampler.
- Wash sampler in Alconox solution or equivalent.
- Rinse with tap water.
- Spray rinse with DI water.
- Place on plastic and allow to air dry or wipe with clean paper towel.

Monitoring Equipment Decontamination

Monitoring equipment (including water level indicator) will be decontaminated between sampling locations by the following procedures:

- Wipe all surfaces that had possible contact with soil, sediment, or groundwater with a paper towel dampened with Alconox solution.
- Wipe all surfaces with a paper towel dampened with DI water.

Drill Rig and Equipment Decontamination

The drill rig and drilling equipment such as augers and drill rods will be decontaminated between boring locations by washing surfaces that have been in contact with soil, sediment, or groundwater using a pressurized steam cleaner.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 27: Chain of Custody

Custody procedures will be used to document the authenticity of data collected during the project. The data requiring custody procedures includes soil, sediment, groundwater, and vapor samples. The samples are considered in custody, if they are:

- In person's possession
- In view of the person after being in their possession
- Sealed in a manner that it cannot be tampered with after having been in physical possession
- In a secure area restricted to authorized personnel

A Chain of Custody form per project laboratory will be used to ensure proper custody of all samples collected and submitted for laboratory analysis.

Upon collection, soil, sediment, groundwater, and vapor samples will be cataloged on the appropriate Chain of Custody form using the unique sample identification codes. In addition, the date and time of collection, the number of containers for each type of sample, the type of sample preservation, and the type of analyses requested will be recorded on the Chain of Custody form.

Upon relinquishing the sample cooler to the project laboratory, Sigma field personnel will turn custody of the samples over to laboratory personnel by signing and dating the bottom of the Chain of Custody form. Sigma's data manager will retain one copy of the Chain of Custody form and the original will accompany the samples. The Chain of Custody forms will be sealed in a plastic bag and placed inside the sample cooler for transportation to the laboratory. A copy of the completed Chain of Custody form will be included with the laboratory report.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 28: Investigative Derived Waste

Investigation-derived waste will be generated as a part of site investigation activities. Groundwater generated as a part of monitoring well development and purging will be drummed and temporarily staged pending receipt of groundwater analytical results. If based on the analytical results, the drummed water contains detectable concentrations of contaminants, the drummed groundwater will likely be disposed of at a licensed waste water treatment facility by a licensed waste hauler. If groundwater does not contain any detectable contaminants, it will be dispersed on site.

Soil cuttings generated during drilling will be drummed and staged on site pending receipt of laboratory results and subsequent approval for disposal at a licensed facility.

General sampling supplies including disposable bailers, tubing, Geoprobe sample liners, and plastic bags will be disposed of as general solid waste at a licensed disposal facility.

THE SIGMA GROUP, INC.
STANDARD OPERATING PROCEDURES

SOP 29: Field Surveying

GNSS Survey:

Following the completion of other field procedures, Sigma personnel will complete a Global Navigation Satellite System (GNSS) survey of the project site. The GNSS survey will include measurement of the vertical and horizontal coordinates of objects installed as part of the site investigation including, but not limited to, soil borings, test pits, ground level and top-of-casing elevations for groundwater monitoring wells, and / or soil gas / sub-slab vapor sampling ports.

Other relevant site features and control points may also be surveyed to document current site conditions and layout and assist in creation of scaled site maps. Typical site features to be surveyed should include:

- Utility features including any marked utility lines, manholes, electrical boxes, fire hydrants, culverts, etc.
- Site improvement features including boundaries of parking lots or roads, building corners, etc.
- Other site-specific features including UST / AST locations, boundaries of staged soil piles, etc.

GNSS Survey Procedure:

The site survey will be completed using a Trimble GNSS system with the following components: GNSS Receiver, Data Collector, WiFi hotspot, and a survey rod. The GNSS Receiver collects location information from the satellite system which is corrected to survey grade accuracy via the WiFi internet connection. Prior to initiating field activities, the following actions should be taken to set up a file for the project on the Data Collector:

- Turn on the Data Collector.
- On the Data Collector menu, select "General Survey", then "Jobs", then the create new folder icon (looks like a file folder with an asterisk).
 - Name the new folder with the project number and name, i.e. "##### - Project Name".
- While in the new project folder, create a new file by clicking the new file icon (looks like a sheet of paper with an asterisk).
 - Name the new file as the date the field survey will occur.
 - Leave all project details / prompts as their default settings.

Following the completion of other field procedures, the field survey will be completed. The procedure to accurately activate, connect, and collect survey data is as follows:

- Insert one of the rechargeable batteries into the GNSS Receiver and turn it on.
- Connect the two halves of the survey rod and the metal tip (if disconnected) and attach the GNSS Receiver to the top of the rod. The survey rod is of a fixed height, which gives exactly 2 meters (6.56 feet) to the GNSS Receiver when attached.
- Turn on the WiFi hotspot. Keep the WiFi hotspot on you while surveying to maintain a solid connection with the data collector.

THE SIGMA GROUP, INC.

STANDARD OPERATING PROCEDURES

- Turn on the Data Collector. Attach the Data Collector holder to the Survey Rod and secure the Data Collector.
- On the Data Collector menu, select "General Survey", then "Jobs", and then select the appropriate project file. Files are organized by project number.
- Once the correct job is selected, follow these steps to initiate the survey:
 - Select "Measure" then "Measure Points".
 - When prompted, select the SIGMA Login that corresponds to the WiFi hotspot number. For example, SIGMA3 is to be selected when you have WiFi hotspot #3. This will connect to the WISCORS Network.
 - Select "Start Survey".
- Once the survey has been initiated, information can be filled into the following fields:
 - **Point Name:** This is a number. A running count of total survey points collected. Typically starts with 1000.
 - **Point Code:** Description of surveyed feature, i.e. monitoring well (MW-# toc, MW-# ground)_or boring name (GP-#, SB-#, etc.), utility feature, etc.
 - **Description 1:** Two fields for additional information
 - **Description 2:** Used to add pertinent information. i.e., "4' deep boring", "electric line runs to door", etc.
 - **Method:** Select "Topo Point" (Rapid Point is a 1 second measurement. Topo Point is a 5 second measurement)
 - **Antenna Height:** Enter 6.56 feet (you may also enter "2M" and it will convert to feet)
 - **Measured to:** Select "Bottom of antenna mount". This may change depending on what model receiver you have.
 - Click "Enter" to confirm the inputted information.
- Place the point of the survey rod on the feature to be surveyed. Click "Measure" to record survey data for the feature. Move on to the next feature to survey.

The site survey will record the vertical and horizontal coordinates of site features with a horizontal control accuracy of $\pm 0.03'$ + 2 ppm and a vertical accuracy of $\pm 0.06'$ + 2 ppm, referenced to a local United States Geologic Survey (USGS) datum in feet above Mean Sea Level (MSL).

GNSS Survey Data Download Procedure:

Once the site survey has been completed, the collected survey data will be downloaded from the Data Collector using the following procedure:

- Connect the Data Collector to a computer using a USB cord. The Data Collector will connect to the computer automatically. When prompted, click "Connect Without Setting Up Device".
- On the Data Collector, select "General Survey", "Jobs", "Import/Export", "Export Fixed Format".
- Use the on-screen prompts to select the desired data points to download, then click "Export". The select points will be exported to a .csv file.
- Access the correct job folder on the data collector using the file explorer on your

THE SIGMA GROUP, INC.

STANDARD OPERATING PROCEDURES

computer and copy the .csv file to your computer.

The collected data can then be transformed into a basic site map in CAD to be overlaid on figures in CAD or Adobe Illustrator.

Traditional Survey Procedure:

In situations where a site feature is located inside a building, a traditional survey will be performed to determine the feature's coordinates. The measurements recorded during the survey can be recorded on the attached Survey Data Sheet. The survey will be completed using the following procedure:

- Choose an exterior feature or location and survey the elevation following the procedure described above (Back Sight).
- Measure the distance and direction to the interior feature (Fore Sight) from the Back Sight, using a tape measure or survey wheel.
- Set up and level a surveyor's level and, using a leveling rod, measure the height of the instrument from the Back Sight. Record the height of the surveying level and set a leveling rod on the Fore Sight.
- Record the height of the leveling rod on the fore sight.
- Use the recorded measurements to calculate the vertical and horizontal difference of the Fore Sight in relation to the Back Sight. Use these values to calculate the elevation of the Fore Site.

Date: _____

Surveyor's Initials: _____

SURVEY DATA SHEET

Location	Backsite +	Height of Instrument	Foresite -	Elevation	Depth to GW	GW Elev.	Comments

- Notes:
- 1. $\text{Elevation} + \text{Backsite} = \text{Height of instrument}$
 - 2. $\text{Height of instrument} - \text{Foresite} = \text{Elevation}$