

**DEMOLITION AND REMEDIATION SPECIFICATIONS
EDCO PROPERTY
1101 EAST KIBBY STREET, LIMA, OHIO**

**PORT AUTHORITY OF ALLEN COUNTY AS FUNDED THROUGH THE
OHIO DEPARTMENT OF DEVELOPMENT BROWNFIELD
REMEDATION PROGRAM GRANT, AGREEMENT ODSA – 2022 -
189965**

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**PREPARED FOR:
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CEC Project 324-681

DATE: NOVEMBER 2022



Civil & Environmental Consultants, Inc.

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1.0 SITE DESCRIPTION AND EXISTING CONDITIONS

1.1 SITE LOCATION

The EDCO Property, located at 1101 East Kibby Street, Lima Ohio 45804, is a 12.67-acre parcel of industrial land (“Site”). The property is situated on the north side of East Kibby Street and west of Interstate 75 on the east side of Lima, Ohio. The location of the Site is shown on Figure 1.

1.2 SITE HISTORY

Industrial development began at the Site prior to 1939. In the 1950’s the Site was utilized by Davidson Enamel Products, Inc and Artkraft Manufacturing Corporation; Davidson Enamel Products Inc. occupied the west side of the Site and Artkraft Manufacturing Corporation occupied east and center portions of the Site. The two companies merged in 1957 under Davidson Enamel Products Inc and operated until sometime in the 1960s. In the 1970s through the 1980s the Site was occupied by several other entities (Fenstra Inc., Lawndale Industries, Inland-Ryerson Construction products, and Inryco Incorporated), which utilized all areas of the Site. In the late 1970s through 2018, EDCO Tool and Supply occupied the Site.

The Port Authority of Allen County currently has possession of the Site and is in the process of repurposing the Site for future industrial use.

While two buildings remain on the Site, the Site previously was developed with several additional structures. Only slabs, footers, docks and a partial basement remain from these former structures.

1.3 EXISTING SITE CONDITIONS

Depicted in Figure 2, the current Site conditions include:

- Two buildings (Manufacturing Building and Warehouse Building) from the former EDCO Tool and Supply operation remain on the west portion of the Site. The Manufacturing Building is approximately 32,000 square feet, is slab on grade with a steel frame, and predominately brick façade. The Warehouse Building is approximately 5,000 square feet with a steel frame and raised concrete slab. The south portion (approximately 6,000 SF) of the Manufacturing Building was damaged in a fire and is currently inaccessible due to structural concerns. The northern approximate 26,000 SF of building is accessible and was not significantly damaged by the fire; however is in deteriorated condition. The Manufacturing Building contains racks, tools, manufacturing equipment drummed materials, universal waste, general debris, and asbestos-containing material (ACM). The Warehouse Building located on the west side of the Site contains numerous pallets and boxes of tools.
- Approximately 350,000 square feet of concrete slabs and foundations, concrete filled pits, and loading dock platforms from former buildings located on the Site. On the northeast portion of the Site exists a descending stairway leading into a former partial basement.
- Asphalt paved areas are located on the southwest, western, and eastern portions of the Site totaling approximately 200,000 square feet.

- Remnants of a railroad spur along the east side of the foundations of the former structures.
- A disturbed soil/debris area on the northwest portion of the Site that is believed to have been a possible placement area containing lead-impacted soils.
- Several flush-mount groundwater monitoring wells (to be protected) are located across the Site.

1.4 SPECIAL WASTE

The following special waste materials have been identified at the Site:

- 20 uncharacterized drums of material located inside and outside of the manufacturing building;
- ACM found in the former manufacturing building and on the concrete slab at several locations on the Site;
- Universal wastes, including fluorescent light tubes, ballasts, capacitors, and manufacturing equipment inside the Manufacturing Building; and,
- Lead impacted soils located on the northwest portion of the Site.

1.5 PREVIOUS ENVIRONMENTAL ASSESSMENTS AND CLEANUP

A Phase I Property Assessment (PIPA) was completed in April of 2019 documenting nine Identified Areas (IA), of which four are potential off-Site sources of impact to the Site. Due to the IAs identified at the Site, a limited Phase II Environmental Site Assessment (ESA) was conducted in May 2020 and a supplemental Phase II was completed in October and November of 2020 to evaluate soil and groundwater impacts.

In April of 2021, an Asbestos Survey was completed for the two remaining structures on the Site. The Asbestos Survey included collection of seventeen samples, five of which identified Chrysotile Asbestos at concentrations at 2-15 percent. ACM within the Manufacturing Building included floor tile and transite. A copy of the asbestos report is provided in Appendix A. Photos included in Appendix B show areas where transite ceiling panels have fallen and have become intermingled with various other materials in the Manufacturing Building.

A Remedial Action Plan (RAP) was prepared in January of 2022 to address an area of soil on the northwest portion of the Site that exceeds applicable standards under the Ohio VAP for lead and to address the presence of building materials containing asbestos in the Manufacturing Building. The RAP recommends the removal and disposal of lead-impacted soils and of ACM as the remedies most likely to support the objectives of the project, which is property redevelopment. Section 3.2.3 of the RAP describes the proposed process for soil excavation, loading, transportation and disposal and Section 3.3.2 of the RAP describes the proposed process for abatement of ACM. Electronic copies of the Phase I, Phase II and RAP are available upon request.

2.0 PROJECT OBJECTIVE AND SEQUENCE

The overall objective of the project is to remove all existing buildings/structures (including concrete slabs/footers and aboveground and underground utilities), drums, and impacted soil from the Site to allow for future redevelopment. PAAC envisions the project proceeding in five (5) phases:

- **Phase I – Pre-Demolition Activities:** Attendance at a pre-construction meeting with the PAAC and their representative to review scope of work/pay items, budgets and schedules; Submit a Notice of Intent to the Ohio EPA for construction stormwater management and prepare or obtain a Sediment and Erosion Control Plan and a Stormwater Prevention Pollution Plan; Physically disconnect all site utilities (electric, gas, sewer, water, etc.); Obtain a Demolition Permit, including verification that utilities have been disconnected and capped; Submittals; Contractor mobilization; removal and disposal of all drums within and outside of existing structures, and removal and disposal of loose Site-wide ACM.
- **Phase II – Demolition, Complete:** Demolition and disposal of the entire Manufacturing Building including ACM and demolition and disposal of the entire warehouse structure;
- **Phase III – Soil Remediation:** Excavation of impacted soil, soil stockpiling (B-16 area only), soil amendment (B-16 area only), transportation, and disposal of impacted soils from northwest corner of the Site;
- **Phase IV – Concrete Removal and Crushing, Complete:** Clearing and disposal of vegetation around the Site; removal of the concrete slabs, foundations, and footers; and crushing of concrete to meet an Ohio Department of Transportation (ODOT) 304 grade, verification of concrete grade must be provided; and,
- **Phase V – Backfill:** Backfilling of the impacted soil area, basements, footers, and foundations using material generated in Phase IV.

This project is funded through the Ohio Department of Development's (Ohio DOD) Brownfield Remediation Program. A copy of the Grant Agreement between the PAAC and the Ohio DOD is provided in Appendix C. Prevailing wage rates apply to this project. Contractor shall comply with Ohio Revised Code Sections 4115.03 through 4115.06.

A description of the scope of work associated with each Phase, as well as general conditions for the project, are presented in Sections 4.0 and 5.0, respectively.

3.0 PROJECT ORGANIZATION AND RESPONSIBILITIES

This section presents the overall project organization and provides a general guideline for communications, reporting, and problem resolution during the execution of the Work. The key project personnel include the Owner (PAAC), the PAAC's on-Site Representative [Civil and Environmental Consultants, Inc. (CEC)], and the Contractor (and applicable subcontractors). A description of the roles and responsibilities of the key project personnel is provided below.

3.1 OWNER

PAAC is the owner of the property and will make all final decisions.

3.2 OWNER'S REPRESENTATIVE

CEC will serve as the Owner's Representative during the execution and Work, to ensure Contractor compliance with these specifications and PAAC requirements. CEC will report directly to PAAC, and will be responsible for the following:

- Serve as the primary point of contact for the Contractor and coordinate communications with appropriate PAAC representatives;
- Monitor Contractor's compliance with the project schedule;
- Maintain activity logs provided by the contractor, including written and photographic documentation of Work activities;
- Conduct meetings, as necessary, with the Contractor and PAAC representatives to discuss health and safety, operations, logistics, scheduling, or other project issues; and
- Maintain records associated with the completion of the Work, as described in Section 5.10, and provide to Owner as needed.

3.3 CONTRACTOR

The Contractor may elect to contract with a subcontractor(s) for completion of select portions of the Work. The Contractor will be responsible for all actions and compliance with project requirements of its employees and subcontractors. During the day-to-day execution of the Work, the Contractor will report directly to the Owner's Representative to resolve any scheduling, logistical, or operational conflicts. The Contractor will be responsible for the following:

- Filing all notifications and obtaining all necessary certifications and permits required to complete the Work;
- Performance of all Work in accordance with these specifications and other contract documents;
- Evaluation of the integrity of the on-site structures with regard to safe execution of the Work. The Owner makes no representations or assumes no responsibility for the condition of the structures. The conditions at the time of the Site pre-bid meeting will be maintained by the owner to the extent practical;
- Coordination of utility shut-offs and disconnection as required with applicable utility companies prior to commencing demolition activities;

- Health and safety of its workers and subcontractors, including compliance with all regulatory requirements [Occupational Safety and Health Administration (OSHA) and National Emission Standards for Hazardous Air Pollutants (NESHAP), etc.];
- Compliance with all applicable local, state, and federal laws and regulations;
- Providing an Asbestos Project Monitor (APM) that is licensed and specializes in Asbestos Abatement that will provide field oversight and monitoring during the execution of asbestos abatement activities to ensure Contractor compliance with these specifications and Ohio Department of Development Brownfield Remediation Program (ODDBRP) requirements. The APM shall monitor asbestos abatement work to ensure compliance with local, state, and federal regulatory requirements; and
- Coordination, scheduling, and management of all subcontractors.

3.4 RELATED DOCUMENTS

Documents related to and referenced in these Specifications include:

- PAAC Request for Quotation;
- PAAC Bid Sheet;
- PAAC Bid Bond Form;
- Previous Environmental Assessment documentation (available in electronic format by request, except for the Asbestos Survey, which is provided as Appendix A);
- Ohio Department of Development Brownfield Remediation Program Grant Agreement.

4.0 SCOPE OF WORK

The Contractor will provide all supervision, competent persons, labor, tools, materials, and equipment necessary for the completion of the Work described herein. All Work will be completed in accordance with these specifications and all applicable state, federal, and local laws and regulations.

4.1 PHASE I – PRE-DEMOLITION AND SITE PREPARATION ACTIVITIES

Pay Item 01-01: Obtain Demolition Permit; Mobilization; Utility Disconnect; General Conditions (Submittals and Erosion Control)

The Contractor will perform the following prior to initiating any demolition or cleanup work on the Site:

- Attend a pre-construction meeting with the PAAC and their representative to review the pay items, budget and schedule;
- Submit notification to Ohio EPA and Ohio Department of Health for Asbestos Abatement Work;
- Coordinate physical utility disconnects (*e.g.*, water, sewer, gas, electric, data/phone) and removal of utility poles with transformer;
- Obtain a demolition permit;
- Required Submittals (Health and Safety Plan, Work Plan); and
- Submit a Notice of Intent to Ohio EPA for construction stormwater management and prepare and implement a Sediment and Erosion Control Plan and a Stormwater Prevention Pollution Plan (SWPPP).

Pay Item 01-02: Drum Characterization/Transportation/Disposal; Collection/Transportation/Disposal of Loose Site-wide Asbestos Containing Material

The Contractor shall complete, or coordinate to have complete, the characterization, overpacking (where necessary), transportation and proper disposal of 20, 55-gallon drums located in and near the Manufacturing Building. The Contractor will provide proof of proper disposal to the PAAC once received by the disposal facility.

The Contractor will hand pick, bag, transport, and properly dispose of loose ACM (Transite) located across the Site, but most noticeably at the gate entrance to the Site and in proximity of the Manufacturing Building.

4.2 PHASE II – BUILDING DEMOLITION

Pay Item 02-01: Manufacturing Building, Demolition Complete

Approximately 6,000 square feet of the south end of the building has significant fire damage and is structurally unsound (see site photographs). Demolish south portion of the building “as is” and manage demolition debris as asbestos-contaminated debris at a licensed landfill. Abate, transport

and dispose of any remaining vinyl floor tile as ACM (see Appendix A, Rooms 8 and 11).

The remaining approximately 26,000 square feet of the Manufacturing Building is in a deteriorated condition with areas of the roof failing, causing transite panels to have fallen onto the floor and onto equipment and other structures in the building. Prior to demolition, the ACM (both remaining intact and fallen pieces) shall be properly removed/collected, transported and disposed of ACM at a licensed landfill (see ACM survey located in Appendix A). Remove remaining interior items in the Manufacturing Building (e.g., dispose, repurpose, and/or recycle). Demolish Manufacturing Building to the concrete slab, transport and recycle ferrous material/dispose waste as construction and demolition debris. *Note, the removal and crushing of the concrete slab and footers are addressed within Pay Items 04-02 and 04-03.*

Pay Item 02-02: Warehouse Building, Demolition Complete

Approximately 5,000 square feet, steel frame building with a raised concrete slab. Remove interior items in the Warehouse Building (e.g., dispose, repurpose, and/or recycle). Demolish Warehouse Building to the concrete slab, transport and recycle ferrous material/dispose waste as construction and demolition debris. *Note, the removal and crushing of the concrete slab, sub-slab, and footers are addressed within Pay Items 04-02 and 04-03.*

4.3 PHASE III – REMEDIATION OF IMPACTED SOILS

Pay Item 03-01: Area B-15

Excavate, load, transport, and dispose of an estimated 510 tons (approximately 1.5 tons/cubic yard) of lead-impacted soil at a licensed landfill. Analytical data showing the material is not hazardous for lead is provided in Appendix D. Predetermined bounds of excavation are estimated and shown on Figure 4 and measures approximately 50 ft. by 60 ft. by 3 ft. Once excavation to the predetermined bounds is complete, confirmation sampling will be completed by the Owner's Representative to verify the effectiveness of the remedy. If confirmation soil data identifies that additional excavation is necessary, the Contractor will complete additional excavation and will be reimbursed on a unit rate basis over 510 tons based on the weight tickets provided by the disposal facility. Backfill of Area B-15 is included in Pay Item 05-01.

Pay Item 03-02: Area B-16

Excavate and stockpile an estimated 610 tons (approximately 1.5 tons/cubic yard) of lead-impacted soil on Visqueen® or similar material and cover with same. Allow for the Owner's Representative to collect confirmation soil sampling along walls and floor of the B-16 excavation area. Based on analytical results, the Contractor may be required to excavate and stockpile additional soils. Once the Owner's Representative has determined the effectiveness of the remedy is complete, the Contractor shall amend the soil stockpile with Blastox 215® or similar material to stabilize the lead. The Owner's Representative will then sample the soil stockpile for waste characterization. Once the waste characterization sampling demonstrates the lead has been stabilized, the material will be managed as solid waste and will be disposed at a licensed landfill. It is the Contractor's responsibility to stabilize the material such that it does not exceed toxicity thresholds for lead. Predetermined bounds of excavation are estimated and shown on Figure 4 and measures approximately 60 ft. by 60 ft. by 3 ft. The Contractor shall provide a lump sum fee based on the estimated 610 tons of soil. The Contractor shall also provide unit rates (/ton) to stockpile, amend

and dispose of additional soil. The Contractor will be reimbursed on a unit rate basis over 610 tons based on the weight tickets provided by the disposal facility. Bulk soil analytical data and waste characterization data is provided in Appendix D. Backfill of Area B-16 is included in Pay Item 05-01.

4.4 PHASE IV REMOVAL OF VEGETATION, CONCRETE and ASPHALT

Pay Item 04-01: Vegetation Removal Complete

The Contractor is responsible for the removal, transportation and disposal of vegetation that is located within the paved areas of the Site, prior to removal of pavement. The Contractor may use hand tools, power tools, and manual labor to remove the vegetation. The Contractor will refrain from using herbicides or controlled burning as a means of vegetation removal. The Contractor is responsible for removing, loading, transporting, and disposing of the vegetation removed from the Site.

Pay Item 04-02: Concrete Removal and Stockpiling

The Contractor is responsible for the excavation of concrete slabs, footers, foundations, and supporting concrete structures. The Contractor will completely remove and stockpile all concrete from the ground. Approximately 350,000 square feet of concrete is estimated across the Site. Groundwater monitoring wells noted on Figure 2 shall be protected during concrete removal by saw-cutting a three ft. by three ft. square around the monitoring well head and leaving the concrete within the saw cut in place. Underground utilities encountered during concrete removal shall be cut and capped, following removal of catch basins.

Pay Item 04-03: Concrete Crushing to Meet ODOT 304 Gradation and Physical Requirements as defined in 703.17

The Contractor will mobilize a concrete crusher to be used at the Site for the crushing of concrete. The concrete crusher shall be equipment with a means of dust suppression and magnet belts to remove metal and the Contractor shall provide all necessary permits required to operate the crusher. Concrete shall be crushed to meet gradation and physical properties noted in Section 703.17 of ODOT's 2019 Construction Manual. The Contractor will be paid lump sum with confirmation of meeting the specification noted above. The Contractor must collect and analyze a minimum of three samples of material demonstrating compliance with Section 703.17.

Concrete crushed to meet the specification noted above will be used to backfill voids created by the removal of basements, foundations, footers, concrete slabs, and other concrete supporting structures. Concrete crushed to a 304 grade will also be used to backfill the soil remediation areas located on the northwest portion of the Site.

Excess material meeting the specification noted above shall become property of Owner. Material not meeting the specification noted above shall become property of the Contractor and shall be loaded, transported, and disposed of or recycled by the Contractor.

Pay Item 04-04: Removal and Offsite Disposal of Asphalt

Contractor shall remove, load, transport and dispose/recycle of approximately 200,000 square feet of asphalt pavement. Groundwater monitoring wells noted on Figure 2 shall be protected during asphalt removal by saw-cutting a three ft. by three ft. square around the monitoring well head and leaving the asphalt within the saw cut in place.

4.5 PHASE V – BACKFILLING

Pay item 05-01: Backfilling and Stabilization

The Contractor is responsible for backfilling all areas of the Site where basements, footers, foundations, and concrete structures have been removed and the area of the impacted soils with ODOT 304 concrete, produced in Phase IV. All voids and disturbed areas shall be backfilled to the surrounding grade. The Contractor shall ensure there are no low laying areas where water ponding can occur.

At the completion of debris removal, demolition, and backfilling activities, the Contractor shall ensure all backfilled areas are level with the surrounding terrain. No wire, rebar, conduit, or any other debris shall be left protruding from the grounds surface. Concrete that has been crushed to an ODOT 304 grade shall be used to as a method of stabilization for the Site. The Contractor shall follow the requirements specified in the applicable Site stormwater plans for stabilization of the ground surface to close-out plans and permits.

5.0 GENERAL REQUIREMENTS

5.1 SITE BOUNDARY AND WORK AREA

The Site boundary is shown on Figure 2. All work activities at the Site will be performed within the Site boundary unless approved in advance by the Oversight Consultant.

5.2 SITE FACILITIES

The Contractor is responsible for providing the following:

- Equipment;
- Equipment storage sheds/trailers;
- Portable toilet; and
- Fire protection.

The Contractor is responsible for the off-site removal of its temporary structures and disposal of any trash/rubbish it generates.

5.3 WORK RESTRICTIONS

Due the residential property's surrounding the Site, work will not begin prior to 7:00AM and will not extend past 5:00PM.

5.4 SITE SECURITY

The Owner provides no security or surveillance of the Site. The Contractor is responsible for the security of its equipment and materials stored at the Site. The Contractor may elect to install concrete barriers or fencing as a means of protection.

5.5 SITE MAINTENANCE AND HOUSEKEEPING

The Contractor will be responsible for keeping the Site clean and orderly. Upon completion of the Work, the Contractor will repair any damage caused to the Site or surrounding area by returning it, at a minimum, to its original condition, and will leave the Site free of any rubbish or waste materials.

5.6 DECONTAMINATION OF PERSONNEL, EQUIPMENT, AND VEHICLES

The Contractor is responsible for the decontamination of any equipment, vehicles, or personnel leaving the Site. The Contractor will provide all materials and equipment necessary to complete decontamination activities. All contaminated materials, including decontamination fluids (if any), will be collected, containerized, and disposed of properly by the Contractor.

5.7 ENVIRONMENTAL PROTECTION

For the purpose of these specifications, environmental protection is defined as the retention of the environment in its existing state to the extent possible. Environmental protection is the responsibility of the Contractor and includes protection of air (including dust control), water, and land.

5.7.1 Dust Control

The Contractor will control dust or other airborne emissions from work areas or roads wherever a dust nuisance or hazard occurs. Controls may include sprinkling or spraying with clean water in sufficient quantities to control dust emissions but not so excessive to cause runoff from work areas or roads. Use of commercial dust suppressants (other than water) must be approved by the Owner prior to their use.

5.7.2 Stormwater Runoff

In addition to installing erosion and sedimentation controls and implementation of a Stormwater Pollution Prevention Plan, the Contractor will prevent the transport or tracking of sediment or debris via surface water runoff from Site to the surrounding areas.

5.7.3 Spills or Releases

The Contractor will take the measures necessary to prevent the spillage or release of any hazardous materials or petroleum products to the ground surface. Should such a spill or release occur, the Contractor will immediately notify the Owner's Representative and remediate the affected area.

5.7.4 Burning

No on-site burning will be permitted.

5.8 REGULATORY COMPLIANCE

The Contractor is responsible for performing all Work in accordance with applicable federal, state, and local laws and regulations. The Contractor is responsible for any penalties or corrective actions imposed by regulatory authorities or governmental agencies for non-compliance with laws and regulations.

5.9 TRAINING, LICENSES, PERMITS, AND NOTIFICATION REQUIREMENTS

The Contractor will obtain all permits and registrations required for the Work by federal, state, and local jurisdictions and agencies. The Contractor will provide copies of applications, registrations, and permits to the Owner's Representative prior to beginning the Work.

The Contractor shall possess all licenses required for the Work by federal, state, and local jurisdictions and agencies. The Contractor's personnel shall possess any individual licenses

required for the Work in which the person is engaged. The Contractor shall maintain copies of all such licenses at the Site for the duration of the Work.

The Contractor shall ensure that its personnel working at the Site have all required training and medical certifications required for their positions and for performance of the work in which they are engaged. This includes any training required for persons defined as “competent persons” under applicable OSHA and other regulations. The Contractor shall maintain documentation of all such training and medical certifications at the Site for the duration of the Work.

5.10 RECORDKEEPING AND REPORTING REQUIREMENTS

On a weekly basis during the Work, the Contractor shall submit to the Owner’s Representative: manpower timesheets, equipment use, work log listing quantities of material removed, and work accomplished.

5.11 WASTE DISPOSAL

The Contractor shall be responsible for the loading, transportation, and disposal of all waste materials generated during the execution of the work in accordance with all disposal facility requirements. The Contractor is responsible for any penalties or corrective actions imposed by the disposal facilities for non-compliance with those requirements.

5.12 SUBMITTALS

5.12.1 Work Plan

The Contractor will submit a Work Plan to the Owner’s Representative for review and approval prior to the initiation of Work. The Work Plan will, at a minimum, provide:

- A list of subcontractors used to complete the Work;
- A list of required licenses, permits, and notifications required to complete the Work;
- Copies of licenses and training certifications necessary to complete the Work;
- Project approach and schedule, including: 1) Sequencing or phasing of work; 2) Coordination of subcontractors; and 3) Detailed schedule for completion (bar chart or equivalent) for individual phases/tasks;
- General procedures for removing ACM from existing structures;
- Procedures from demolishing remaining structures, including location of staging areas for demolition waste, and recyclable materials;
- Location and operation of concrete crushing equipment to meet the requirements for crushed concrete backfill described in Section 4.4;
- Procedures for waste handling, loading, transportation, and disposal, including the names of the permitted disposal facilities that will be used; and
- Recordkeeping, documentation, and reporting procedures in accordance with Section 5.10.

5.12.2 Health and Safety Plan

The Contractor is responsible for the health and safety of its employees and its subcontractors during all phases of the Work. The Contractor also shall comply with all applicable regulatory requirements pertaining to health and safety.

Prior to the initiation of the Work, Contractor must submit to the Owner's Representative a Health and Safety Plan prepared in accordance with OSHA and other applicable regulatory requirements that will be implemented during the project.

5.12.3 Weekly Progress Reports

On a weekly basis, the Contractor must maintain records and provide a work progress report and an updated project schedule as described in Section 5.10.

5.12.4 Waste Disposal Documentation

Submit weigh slips to the Owner's Representative from the disposal facility(s) used for the ultimate disposal of waste materials to document proper disposal. Slips must identify the project the waste was generated from, the name and address of the disposal facility, and the type of waste disposed.

5.12.5 Payroll Records

On a weekly basis, submit to the Owner payroll records necessary to satisfy requirements of the Ohio Prevailing Wage Law (Ohio Rev. §4115 Wages and Hours On Public Works).

5.13 PRICING AND PAYMENT

5.13.1 Pricing

The Contractor will provide lump sum costs for each bid item (task) listed on the Bid Sheet as well as a total lump sum cost to complete all Work described in these specifications. The Contractor will also provide unit rate costs on a per ton basis for soil emanating from the B-15 area and for soil emanating from the B-16 area. These unit rates will be used in the event that the total tonnage disposed from the Site exceeds the estimated amount.

This project is funded through the ODDBRP. A copy of the Grant Agreement between the PAAC and the Ohio DOD is provided in Attachment C. Prevailing wage rates apply to this project. Contractor shall comply with Ohio Revised Code Sections 4115.03 through 4115.06. The awarded contractor shall provide payroll records to the Owner on a weekly basis to verify compliance with these rates.

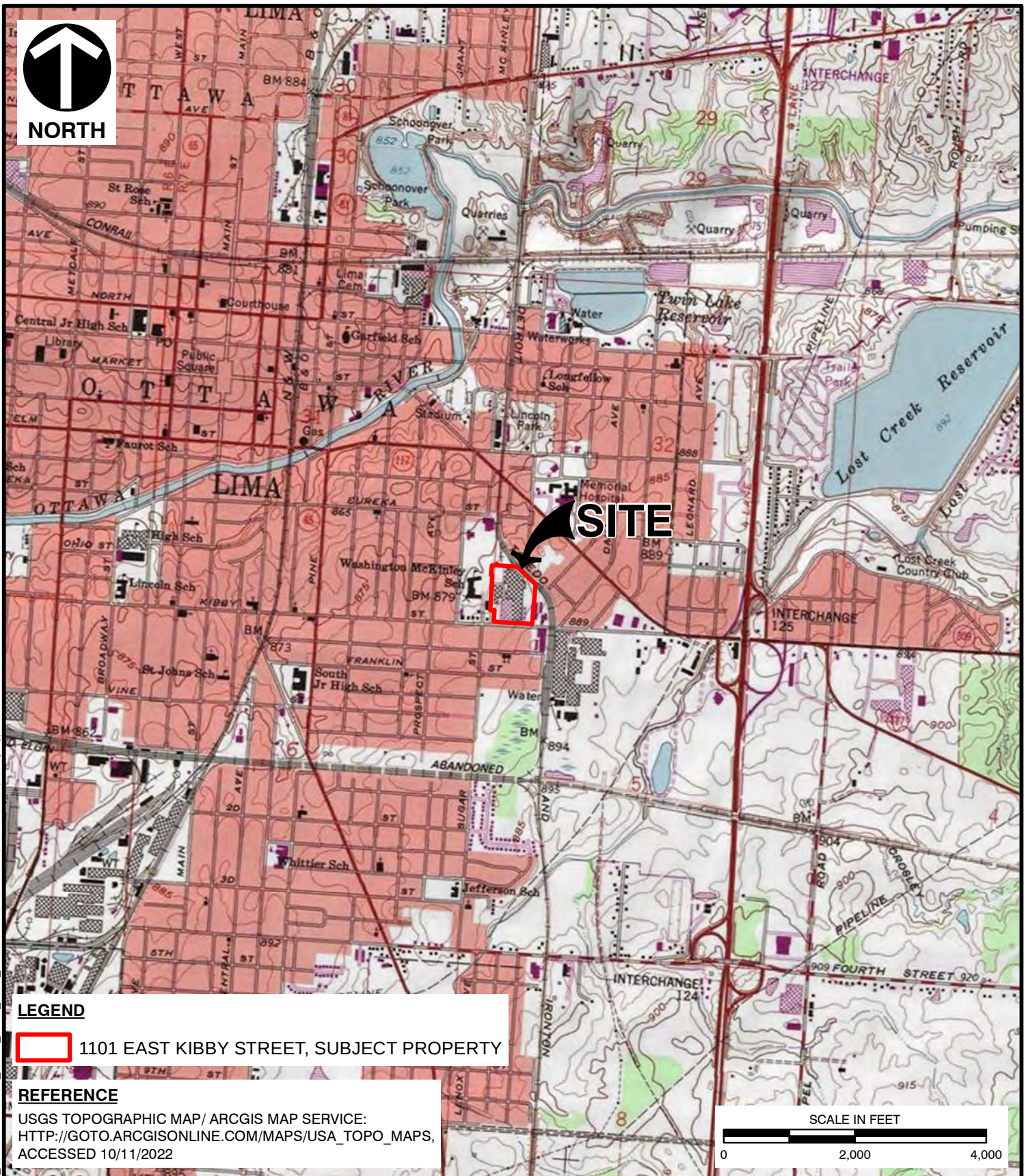
5.13.2 Basis of Payment

Contractor may submit an invoice to the Owner for each task (Bid Item on Bid Sheet) after the task has been completed and all required documentation (e.g., waste disposal receipts, payroll records, etc.) has been provided. Task completion will be determined and agreed upon by the Contractor and the Owner's Representative. Contractor may submit its final invoice after Project Closeout as described in Section 5.14.

5.14 PROJECT CLOSEOUT

The project will be considered complete after all Work has been completed, all materials and equipment have been removed from the Site (including erosion and sedimentation controls), and the disturbed ground has been stabilized. The contractor, Owner, and Owner's Representative will perform a final site inspection to determine whether the above conditions are met. If deficiencies are noted, the Contractor will correct the deficiencies before final payment is made.

FIGURES



LEGEND

 1101 EAST KIBBY STREET, SUBJECT PROPERTY

REFERENCE

USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS](http://gto.arcgisonline.com/maps/usa_topo_maps),
ACCESSED 10/11/2022



Civil & Environmental Consultants, Inc.

4841 Monroe Street, Suite 103 - Toledo, Ohio 43623

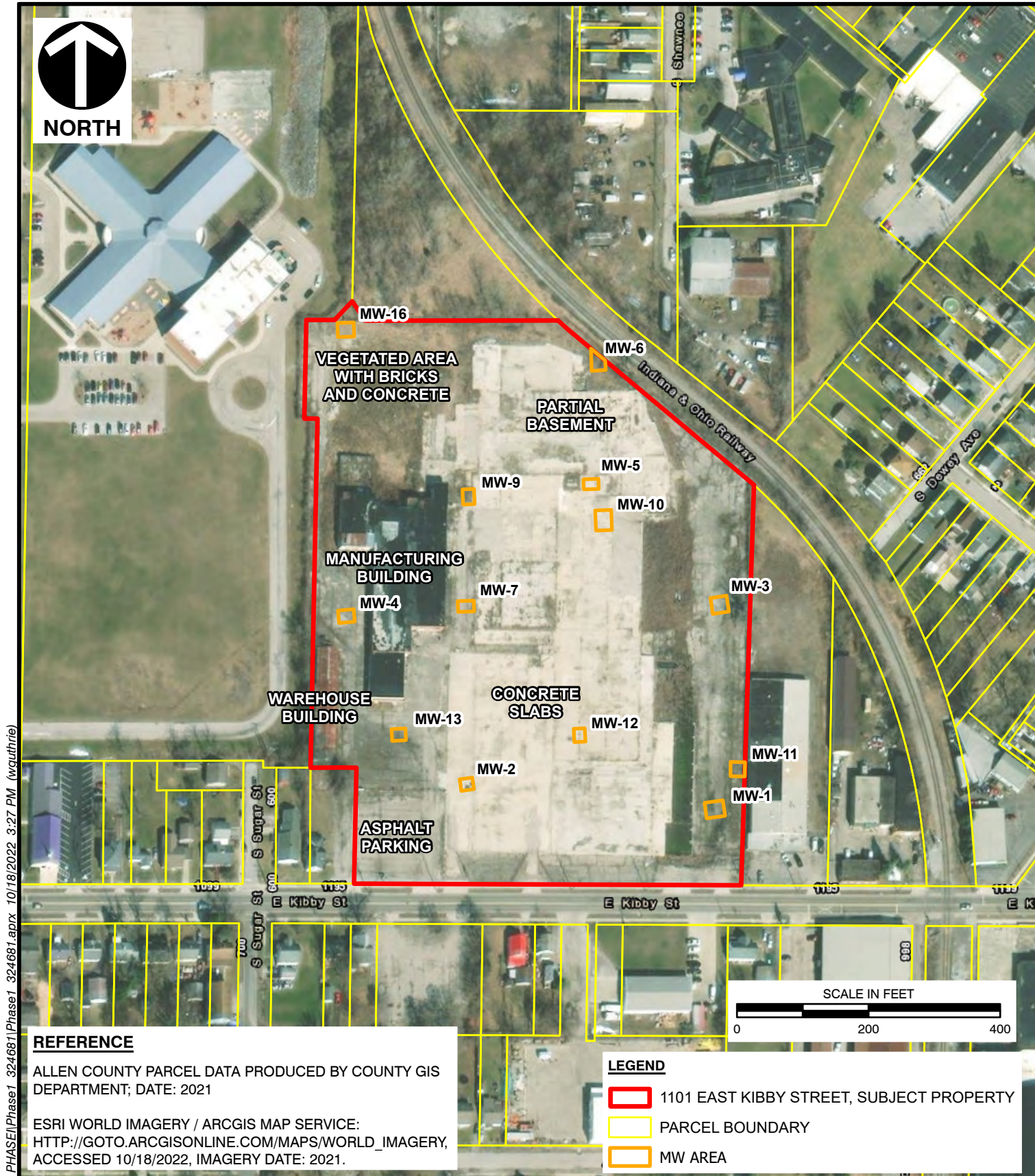
(419)-724-5281 • (419)-724-5286

www.cecinc.com

PORT AUTHORITY OF ALLEN COUNTY
1101 EAST KIBBY STREET
LIMA, ALLEN COUNTY, OHIO

SITE LOCATION MAP

DRAWN BY:	CBL	CHECKED BY:	MTC	APPROVED BY:	* Hand signature on file	DRAFT	FIGURE NO:	1
DATE:	10/11/2022	SCALE:	1" = 2,000'	PROJECT NO:	324-681			



REFERENCE

ALLEN COUNTY PARCEL DATA PRODUCED BY COUNTY GIS DEPARTMENT; DATE: 2021

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY](http://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY),
ACCESSSED 10/18/2022, IMAGERY DATE: 2021.

LEGEND

- 1101 EAST KIBBY STREET, SUBJECT PROPERTY
- PARCEL BOUNDARY
- MW AREA



Civil & Environmental Consultants, Inc.

4841 Monroe Street, Suite 103 - Toledo, Ohio 43623
(419)-724-5281 • (419)-724-5286

www.cecinc.com

PORT AUTHORITY OF ALLEN COUNTY
1101 EAST KIBBY STREET
LIMA, ALLEN COUNTY, OHIO

SITE LAYOUT MAP

DRAWN BY:	CBL	CHECKED BY:	MTC	APPROVED BY: * Hand signature on file	DRAFT	FIGURE NO:	2
DATE:	10/18/2022	SCALE:	1" = 200'	PROJECT NO:	324-681		



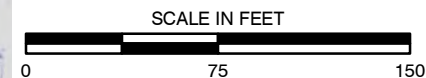
MANUFACTURING BUILDING

Area of Manufacturing Building Not
Damaged By Fire
Approximately 26,000 SF,
Slab on Grade, Steel Frame

Fire-Damaged Portion
of Manufacturing Building
Approximately 6,000 SF,
Slab on Grade, Steel Frame

WAREHOUSE BUILDING

Approximately
5,000 SF,
Raised Slab,
Steel Frame



REFERENCE

ALLEN COUNTY PARCEL DATA PRODUCED BY COUNTY GIS
DEPARTMENT; DATE: 2021

OHIO STATE IMAGERY PROGRAM (OSIP) 6 INCH RESOLUTION
WEB MAPPING IMAGERY SERVICE; IMAGE DATE: 2018

LEGEND

- 1101 EAST KIBBY STREET, SUBJECT PROPERTY
- PARCEL BOUNDARY



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PORT AUTHORITY OF ALLEN COUNTY
1101 EAST KIBBY STREET
LIMA, ALLEN COUNTY, OHIO

BUILDING OVERVIEW MAP

DRAWN BY:	CBL	CHECKED BY:	MTC	APPROVED BY: * Hand signature on file	DRAFT	FIGURE NO:	3
DATE:	10/12/2022	SCALE:	1" = 75'	PROJECT NO:	324-681		



X
B-16

REMEDY AREA B-16:
ESTIMATED AT 50 FT. BY
60 FT. BY 3 FT.

VEGETATED AREA
WITH BRICKS
AND CONCRETE

REMEDY AREA B-15:
ESTIMATED AT 60 FT. BY
60 FT. BY 3 FT.

X
B-15



REFERENCE

ALLEN COUNTY PARCEL DATA PRODUCED BY COUNTY GIS
DEPARTMENT; DATE: 2021

OHIO STATE IMAGERY PROGRAM (OSIP) 6 INCH RESOLUTION
WEB MAPPING IMAGERY SERVICE; IMAGE DATE: 2018

LEGEND

-  REMEDY AREA BOUNDARY
-  1101 EAST KIBBY STREET, SUBJECT PROPERTY
-  PARCEL BOUNDARY



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PORT AUTHORITY OF ALLEN COUNTY
1101 EAST KIBBY STREET
LIMA, ALLEN COUNTY, OHIO

VEGETATED AREA OVERVIEW

DRAWN BY:

CBL

CHECKED BY:

MTC

APPROVED BY:

* Hand signature
on file

DRAFT

FIGURE NO:

4

DATE:

10/12/2022

SCALE:

1" = 50'

PROJECT NO:

324-681

APPENDIX A

ASBESTOS SUMMARY DOCUMENTATION

H&H Sample # Lab Sample #	Homogeneous Area	Layers	Description/ Sample Location	PLM Result
L-01 P4121HHE.1-001	1	2	Office/Shop – 12” Tan Tile/Yellow Glue, Rm. 9 near Wall B	ND
L-02 P4121HHE.1-002	1	2	Office/Shop – 12” Tan Tile/Yellow Glue, Rm. 9 near Wall D	ND
L-03 P4121HHE.1-003	2	2	Office/Shop – 9” White Tile/Mastic, Rm. 8 near Wall B	2% - Chrysotile – 9” Tile ND - Mastic
L-04 P4121HHE.1-004	2	2	Office/Shop – 9” White Tile/Mastic, Center of Rm. 8	2% - Chrysotile – 9” Tile ND - Mastic
L-05 P4121HHE.1-005	3	2	Office/Shop – 9” Brown Tile/Mastic, Rm. 6 near Wall D	ND
L-06 P4121HHE.1-006	3	2	Office/Shop – 9” Brown Tile/Mastic, Rm. 6 near Wall C	ND
L-07 P4121HHE.1-007	4	1	Office/Shop – Ceiling Tile Glue Pucks, Rm. 5 near Wall B	ND
L-08 P4121HHE.1-008	4	1	Office/Shop – Ceiling Tile Glue Pucks, Rm. 5 center of Room	ND
L-09 P4121HHE.1-009	5	2	Office/Shop – Drywall/Compound, Ceiling Rm. 6 near Wall	ND

			C	
L-10 P4121HHE.1-010	5	2	Office/Shop – Drywall/Compound, Ceiling Rm. 6 near Center of Room	ND
L-11 P4121HHE.1-011	6	1	Office/Shop – Transite Ceiling, Rm. 16 entry Wall D	10% - Chrysotile
L-12 P4121HHE.1-012	6	1	Office/Shop – Transite Ceiling, Rm. 23 near Wall A	10% - Chrysotile
L-13 P4121HHE.1-013	7	1	Office/Shop – Build up Roofing, Rm. 20 Center of Room	ND
L-14 P4121HHE.1-014	7	1	Office/Shop – Build up Roofing, Rm. 20 near Wall C	ND
L-15 P4121HHE.1-015	8	1	Office/Shop – Transite Wall Panel, Rm. 22 Wall D	15% - Chrysotile
L-16 P4121HHE.1-016	9	1	Office/Shop - Window Glaze, Rm. 20 Wall D	ND
L-17 P4121HHE.1-017	9	1	Office/Shop – Window Glaze, Rm. 23 Wall B	ND

Summary:

Based on the analysis of suspected ACM samples, a number of the samples of homogeneous areas were determined to be asbestos-containing.

The approximate total of asbestos-containing materials are as follows:

ACM 9" Tile/Mastic Rm. 8, 11	572 sq. ft.
ACM Transite Ceilings Rm. 13-21, 23	26,800 sq. ft.
ACM Transite Wall Panel Rm. 22 – Wall C&D interior and Wall D exterior <i>Metal over interior walls.</i>	810 sq. ft.
ACM Transite Covering Windows Rm. 23 Wall B	450 sq. ft.
ACM Transite – Debris exterior of Rm. 22	

Among the material noted above, the **Transite (ceilings/wall panels/debris)** material must be removed by a licensed asbestos abatement contractor prior to demolition.

The **9" Tile & Mastic** is positive for asbestos and is considered Category 1 non-friable material. This material may remain for demolition given that this material is not in poor condition and will not be pulverized, crumbled, or reduced to powder during demolition activities and is taken to a standard C&D facility that accepts non-friable asbestos containing material.

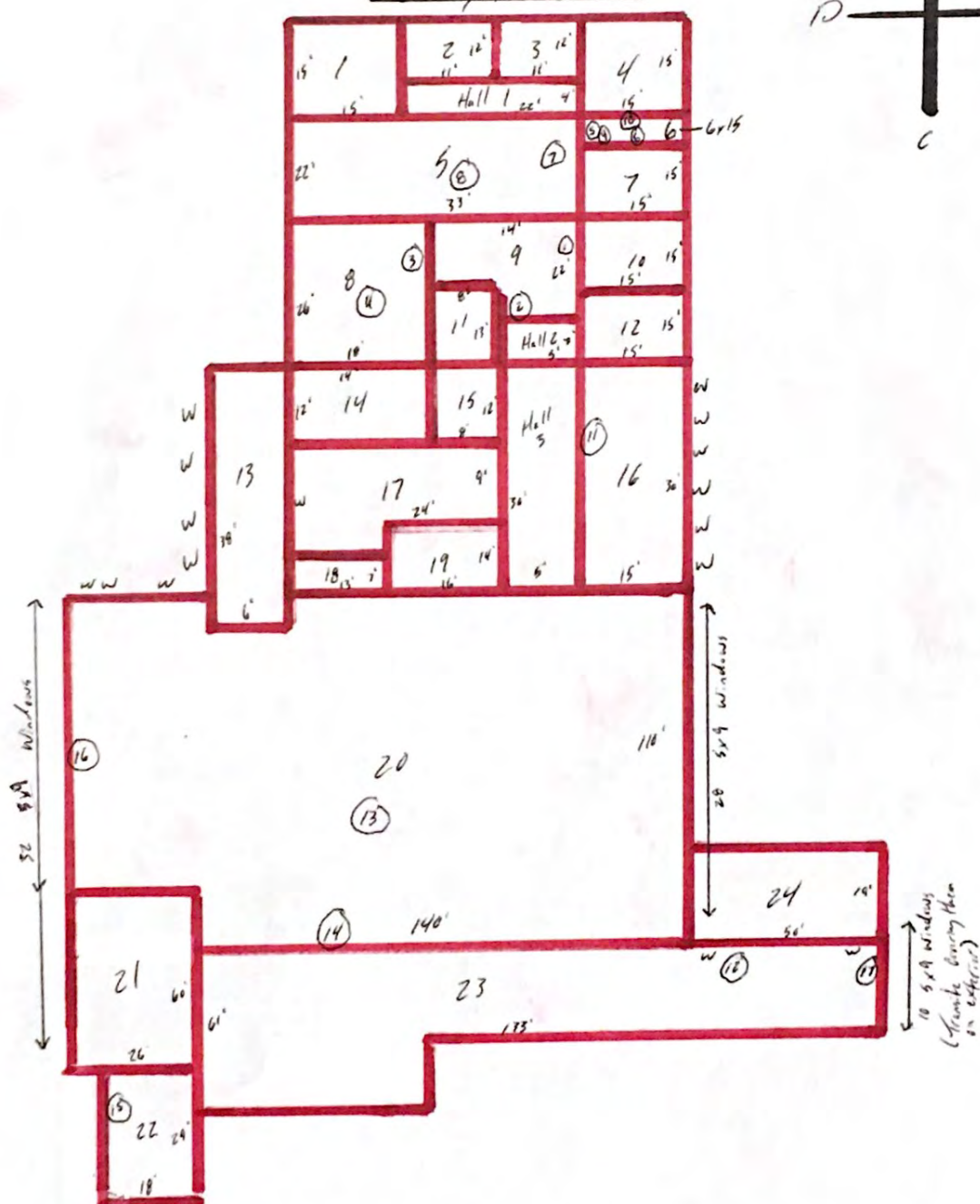
*Note: footage are approximate values and should be field verified prior to providing an abatement estimate.

Under current Ohio standards materials containing less than 1% are not "asbestos containing material". However, this material is still regulated under OSHA and must adhere to wet handling, prompt cleanup, disposal requirements set forth by 29 CFR 1926 as applies to demolition operations involving materials containing less than 1% asbestos.

Notice:

1100 E Kibby Lima OH 45804

Office/Shop



4-8-21

APPENDIX B

SITE PHOTOGRAPHS



Photograph 1: View of the concrete slab area (typical).



Photograph 2: View of the concrete slab area (typical).



Civil & Environmental Consultants, Inc.
Toledo, Ohio 43623

Phone: 419-724-5281 Toll Free: 855-274-2324

EDCO Property
1101 E. Kibby Street, Lima, Ohio
CEC Project: 324-681

Photographs Taken By: M. Coonfare on August 4 and September 12, 2022



Photograph 3: View of the fire damage to the Manufacturing Building.



Photograph 4: View of the east side of the Manufacturing Building, looking north.



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Photograph 5: View of the west side of the Former Manufacturing Building, looking southeast.



Photograph 6: View of the west side of the Former Manufacturing Building, looking north.



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Photographs Taken By: M. Coonfare on August 4 and September 12, 2022



Photograph 7: View of the Warehouse Building, looking south.



Photograph 8: View of the south parking area, looking east.



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Photograph 9: View of loose transite at the main gate.



Photograph 10: View of the interior of the Warehouse Building (typical).



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CEC Project: 324-681

Photographs Taken By: M. Coonfare on August 4 and September 12, 2022



Photograph 11: View of abandoned 55-gallon drums in the Manufacturing Building.



Photograph 12: View of the interior of the Manufacturing Building (typical).



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CEC Project: 324-681

Photographs Taken By: M. Coonfare on August 4 and September 12, 2022



Photograph 13: View of the interior of the Manufacturing Building (typical).



Photograph 14: View of loose transite on the floor in the Manufacturing Building.



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EDCO Property
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CEC Project: 324-681

Photographs Taken By: M. Coonfare on August 4 and September 12, 2022



Photograph 15:
Building.

View of a groundwater monitoring well to be protected located east of the Manufacturing



Photograph 16:

View of access to a former basement area.



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EDCO Property
1101 E. Kibby Street, Lima, Ohio
CEC Project: 324-681

Photographs Taken By: M. Coonfare on August 4 and September 12, 2022

APPENDIX C

PAAC/OHIO DOD GRANT AGREEMENT

**Ohio Department of Development
Brownfield Remediation Program
Grant Agreement**

This Grant Agreement (the "Agreement") is made and entered into between the Ohio Department of Development (the "Grantor"), located at 77 South High Street, Columbus, Ohio 43215 and **Port Authority of Allen County** (the "Grantee") for the period **January 1, 2022 to June 30, 2023**, set forth the terms and conditions upon which Grantor will provide financial assistance to Grantee and Grantee will use the financial assistance for costs of implementing the Brownfield Remediation Program in accordance with the terms of this Agreement, the Grant Application (the "Application"), which consists of the collective materials submitted by Grantee to Grantor via Grantor's online system, the contents of this Agreement (collectively, the "Project") and the Brownfield Remediation Program Guidelines. In the event there is a conflict between this Agreement and the Exhibits, the Exhibits control.

Statement of the Agreement

- 1. Award of Grant Funds.** Grantor hereby grants funds to Grantee in the amount of **\$860,500.00** (the "Grant Funds"), for the sole and express purpose of providing for the performance of the program listed above and undertaking the Project(s) as listed in **Application** which is incorporated herein by reference. Grantee may not use the Grant Funds for any purpose other than completion of the Project. The Grant Funds shall be further contingent upon the Special Conditions set forth in **Exhibit III: Special Conditions**, if applicable. Expenditures shall be supported by contracts, invoices, vouchers and other data as appropriate, including the reports listed in accordance with the schedule set forth in **Exhibit II: Reporting**, evidencing the costs incurred. If the Grant Funds are not expended in accordance with the terms, conditions and time period set forth in this Agreement or the total amount of the Grant Funds exceeds the eligible costs of the Project(s), the amounts improperly expended or not expended shall be returned to Grantor within 30 days after the expiration or termination of this Agreement. Grantee shall not pledge the Grant Funds as security for any loan or debt of any kind other than that described in this Agreement.
- 2. Funding Source.** The Brownfield Remediation Program was established in House Bill 110 of the 134th General Assembly, codified in Ohio Revised Code section 122.6511 and found in the Ohio Administrative Code sections 122:31-1-01 through 122:31-1-06. This program awards grants for the assessment or remediation of brownfield sites throughout Ohio.
- 3. Term of Agreement.** This Agreement shall be effective from the Beginning Date and shall continue through the Expiration Date set forth on page one of this Agreement, unless terminated earlier in accordance with Section 15 of this Agreement. Reporting and refund obligations shall continue in accordance with the schedules set forth in **Exhibit II** and until satisfactorily completed.
- 4. Scope of Work.** Grantee shall undertake the Project(s) as listed in the Application. Grantor may, from time to time, as it deems appropriate and necessary, communicate specific instructions and requests and provide guidance and direction to Grantee concerning the performance of the work described in this Agreement. Within a reasonable period of time, Grantee shall comply with such instructions and fulfill such requests to the satisfaction of Grantor. These instructions and requests are to ensure the satisfactory completion of the work contemplated under this Agreement. In no event shall the Grant Funds be used for any other purpose than that described in this Agreement.
- 5. Payment of Grant Funds.** Payment to Grantee of the Grant Funds shall be made upon the timely submission to Grantor of a financial reimbursement request. Grantee shall deposit all Grant Funds received under this Agreement in a Federal Deposit Insurance Corporation (FDIC) account and record in a separate account on the books of Grantee. Grantor reserves the right to suspend payments should Grantee fail to provide required reports in a timely and adequate fashion or if Grantee fails to meet other terms and conditions of this Agreement. Grantor may withhold payment requests if Grantee fails to comply with the above requirements until such compliance is demonstrated. If applicable, Grantor will not release the final 10% of funding until Grantee confirms matching funds are expended.

6. **Reporting Requirements.** Grantee shall submit to Grantor the reports required in **Exhibit II: Reporting.**
7. **Records, Access and Maintenance.** Grantee shall establish, and physically control for at least five years from the final close out of this Agreement such records as are required by Grantor, including but not limited to, financial reports, intake and participant information, program and audit reports. The parties further agree that records required by Grantor with respect to any questioned costs, audit disallowances, litigation or dispute between Grantor and Grantee shall be maintained for the time needed for the resolution of any such issue. If for any reason Grantor shall require a review of the records related to the Project(s), Grantee shall, at its own cost and expense, segregate all such records related to the Project(s) from its other records of operation.
8. **Audits.** Grantees receiving a state-funded grant award of less than \$500,000 do not have an audit requirement. Grantor may, at its option, choose to send department auditors to complete an audit of any state-funded grant award. Grantees receiving a state-funded grant award equal to or greater than \$500,000 are required to submit either a single audit or a grant specific audit report to Ohio Department of Development, Audit Office, P.O. Box 1001, Columbus, Ohio 43216-1001.
 - i. Single Audit: Grantee obtains an organization-wide audit. The report includes organization-wide financial statements, an opinion on the financial statements, a report on internal controls, and a report on compliance with the terms and conditions of the grant agreements. The audit report must include a schedule of federal grants. This report should include the division name, the grant name and number, the amount of cash received, the expenditures charged and the balance at the end of the audit period. The audit report must include a report on compliance with the terms and conditions of federal grants. Single audits must be performed by an independent public accountant. Single audits must be submitted to Grantor within 30 days of the date of the release, but no later than nine months after the end of the audit period.
 - ii. Grant Specific Audit: Grantee obtains an audit of a specific grant that is equal to or greater than \$500,000. The audit report must include a statement of revenues and expenditures for the grant, an opinion on the statements of revenues and expenditures, a report on internal controls as they relate to the grant, and a report on compliance with the terms and conditions of the grant agreement. A grant specific audit must be performed by an independent public accountant. Grant specific audits must be submitted to Grantor within 30 days of the date of the release, but no later than nine months after the end of the grant period.
 - iii. Audit Standards: Audits performed by independent public accountants must be performed in accordance with generally accepted auditing standards or generally accepted government auditing standards for financial and compliance audits, whichever is applicable.
9. **Monitoring, Evaluation and Audit Activities.** Grantor shall supervise, evaluate, and provide guidance and direction to Grantee in the conduct of the work and activities to be performed under the terms of this Agreement. Grantee's staff and all parties involved with the project shall cooperate with Grantor and its authorized representatives in their program monitoring and shall maintain and make available to Grantor all programmatic, fiscal, and performance records necessary for Grantor's monitoring and evaluation. Grantee shall submit to Grantor reports detailing the expenditures of the Grant Funds and such other reports as may be required by Grantor, including the reports listed and according to the schedule set forth in **Exhibit II: Reporting.**
10. **Reports and Records.**
 - a. **Performance Reports.** Grantor shall supervise, evaluate and provide guidance and direction to Grantee in the conduct of the work and activities to be performed under the terms of this Agreement.
 - b. **Signature and Costs.** The authorized representative on behalf of Grantee shall certify by his or her submission of each report required by **Exhibit II** that the information reported by Grantee is true, complete and correct.

11. **Rights of Inspection.** Grantee shall permit Grantor to inspect and copy, during normal business hours, any books and records necessary to ensure compliance with the terms and conditions of this Agreement. Grantee acknowledges and agrees that rights of inspection (1) extend to representatives and agents of Grantor and federal agencies that pass funds through Grantor including, but not limited to, the Auditor of State of Ohio, an appropriate inspector general appointed under applicable federal or state law, the Comptroller General of the United States and/or the Government Accountability Office; (2) include the rights to examine Grantee's corporate accounts or other accounts and/or funding sources within the control and/or name of Grantee when there is evidence (e.g., vouchers, invoices, canceled checks, descriptions, etc.) that these books contain original or substantial source documentation of the federal funds granted herein; (3) contain Grantee's covenant to make all fiscal records available to authorized audit personnel of Grantor and its federal agencies for inspection at any time and as often as Grantor may deem necessary and in a manner as not to interfere with the normal business operation of Grantee; and (4) include Grantee's undertaking to make available to Grantor for interview any officer or employee of Grantee or of any contractor or subcontractor of Grantee regarding the Grant Funds and any transaction involving the Grant Funds. Grantee shall also require each of its non-profit partners, contractors and subcontractors paid with Grant Funds to make its respective books and records available for inspection and copying in the same manner as described in this section for Grantee's books and records.
12. **Budget Alterations.** Grantee may make alterations to any line in its budget submitted with this Agreement as referenced in the **Application** so long as Grantee notifies Grantor of such budget alteration within the electronic application system 30 days prior to the date of the change and Grantor approves the proposed alteration within the electronic application system. Alterations to line items in Grantee's budget shall not increase the amount of Grant Funds awarded under this Agreement. Grantor shall respond to Grantee's request to approve a budget alteration within a reasonable period of time.
13. **Grantee Certifications and Assurances.** By signing this Agreement, Grantee certifies and assures the following:
- a. **Equal Employment Opportunity.** Grantee shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, disability, age, military status or ancestry. Grantee shall ensure that applicants for employment are considered for employment, and that employees are treated during employment, without regard to their race, religion, color, sex, national origin, disability, age, military status or ancestry. Grantee will incorporate the requirements of this paragraph in all of its contracts for any of the work undertaken on the Project (other than subcontracts for standard commercial supplies or raw materials), and Grantee will require all of its contractors for any part of such work to incorporate such requirements in all subcontracts for such work.
 - b. **Property and Equipment Purchases.** All items purchased by Grantee are and shall remain the property of Grantee, except if Grantor exercises its right to terminate this Agreement pursuant to paragraph 14, in which case all property and equipment purchased by Grantee with any Grant Funds herein awarded shall revert to Grantor. Grantee shall provide for the security and safekeeping of all items obtained through this Agreement.
 - c. **Accounting.** Accounting systems used by Grantee are in accordance with generally accepted accounting standards and other applicable local, state and federal statutes, regulations, policies, directives, and guidelines. Grantee has established procedures to ensure good fiscal and management practices to deposit and account for the Grant Funds. Grantee shall make appropriate documentation relating to the Grant Funds available to the Grantor and the U.S. Department of Treasury, the Comptroller General of the United States, or any of their duly authorized representatives, for examination or copying, upon a reasonable request.
 - d. **Insurance.** Grantee is and shall remain throughout the term of this Agreement insured by a surety or fidelity insurance to cover all individuals responsible for the security and control of the Grant Funds

covered under this Agreement. Grantee shall maintain on file and produce a copy at the request of the Grantor a Certification of Fidelity Bonding and Collateral Security of Deposits.

- e. **Minority Hiring Goal.** Grantee shall make a good faith effort to employ minority persons in the completion and operation of the Project in the same percentage as the average percentage of minority persons who reside in the county in which the Project is located and any contiguous Ohio counties.

14. Termination

- a. Grantor may immediately terminate this Agreement by giving reasonable written notice of termination to Grantee for any of the following occurrences:
 - i. Failure of Grantee to fulfill in a timely and proper manner any of its obligations under this Agreement.
 - ii. Failure of Grantee to submit any report required by this Agreement that is complete and accurate.
 - iii. Failure of Grantee to use the Grant Funds for the stated purposes in this Agreement.
 - iv. Failure to spend matching funds, if applicable.
- b. **Early Termination:** Grantor may also terminate this Agreement if Grantee (i) defaults under another Agreement between the Grantor and/or the Tax Credit Authority and Grantee (ii) admits Grantee's inability to pay its debts as such debts become due, (iii) Grantee commences a voluntary bankruptcy, (iv) an involuntary bankruptcy action occurs against Grantee which remains undismissed or unstayed for 60 days, (v) Grantee fails to meet the minimum funding requirements under the Employee Retirement Income Security Act or other such employee benefits plan, or (vi) Grantor has reason to believe Grantee has ceased operations at the Project location. The events permitting early termination by Grantor shall be considered a default by Grantee and subject to the Effects of Termination under Section 18 of this Agreement.

15. Remedies. Following a default by Grantee, Grantor may exercise one or more of the following remedies:

- a. **Discontinue Disbursements.** If the Grant Funds have not been fully disbursed, Grantor may terminate any and all of Grantor's obligations under this Agreement, including the obligation to make further disbursements of Grant Funds.
- b. **Suspension or Termination.** Grantor may withhold payment under this Agreement, suspend or terminate the Agreement in whole or in part for cause, which shall include, but is not limited to: (1) failure for any reason by Grantee to fulfill in a timely and proper manner its obligations under this Agreement, or other agreements entered into between the parties, including compliance with the approved program and any and all statutes, Executive Orders, regulations, directives, guidelines, plans or other requirements as may become generally applicable at any time; (2) Grantor determines that the nature or extent of noncompliance is extreme and warrants immediate termination of this Agreement; (3) Grantee ceases to exist or becomes legally incapable of performing its responsibilities under the Agreement; (4) Grantee has failed to comply with any timelines for the expenditure of Grant Funds as required by Grantor; (5) ineffective or improper use of the Grant Funds provided under this Agreement; (6) failure to comply with reporting requirements including, but not limited to, submission by Grantee to Grantor of reports that are incorrect or incomplete in any material respect; (7) suspension or termination of any funds provided under this Agreement, or the portion thereof delegated by this Agreement; and (8) cancellation of grant funds. Grantee acknowledges that timely performance and attainment of performance measurements are material to Grantee's compliance with this Agreement and a priority of the federal and state governments in the administration of the Grant Funds.

- c. **Demand Repayment of Grant Funds.** Under the circumstances described in Section 5 of this Agreement, demand repayment of Grant Funds improperly expended. Grantee shall not be required to refund Grant Funds in an amount that exceeds the Grant Funds awarded.
 - d. **Other Legal Remedies.** Pursue any other legal or equitable remedies Grantor may have under this Agreement or applicable law.
 - e. **Remedies Cumulative.** No remedy provided to Grantor under this Agreement or otherwise by law or in equity is exclusive of any other available remedy. No delay or omission by Grantor in exercising any right or power accruing upon any default shall impair any such right or power or be construed as a waiver, and each such right or power may be exercised from time to time as often as may be deemed by Grantor to be expedient.
- 16. Effects of Termination.** Within 60 days after termination of this Agreement, Grantee shall surrender all reports, documents, and other materials assembled and prepared pursuant to Agreement, which shall become the property of Grantor, unless otherwise directed by Grantor. After receiving written notice of termination, Grantee shall incur no new obligations and shall cancel as many outstanding obligations as possible. Upon compliance with this Section, Grantee shall receive compensation for all activities satisfactorily performed prior to the effective date of termination.
- 17. Liability.**
- a. **Public Agency or Governmental Entity.** If Grantee is a public agency or governmental entity, Grantee shall maintain liability and property insurance to cover actionable legal claims for liability or loss which are the result of injury to or death of any person and damage to property (including property of Grantor) caused by the negligent acts or omissions or negligent conduct of Grantee, to the extent permitted by law, in connection with the work and activities of this Agreement. Furthermore, as between the parties to this Agreement, each party agrees to be liable for the negligent acts or negligent omissions by or through itself and its respective employees, agents, and contractors. Each party to this Agreement further agrees to defend itself and pay any judgments and costs arising out of such negligent acts or omissions, and nothing in this Agreement shall impute or transfer any such liability from one party to the other.
- 18. Forbearance Not a Waiver.** No act of forbearance or failure to insist on the prompt performance by Grantee of its obligations under this Agreement, either express or implied, shall be construed as a waiver by Grantor of any of its rights hereunder.
- 19. Certification of Funds Available.** None of the rights, duties, and obligations described in this Agreement shall be binding upon either party until all statutory provisions of the Ohio Revised Code, including, but not limited to, Section 126.07, have been complied with, and until such time as all necessary funds have actually been made available and forthcoming from the appropriate state and/or federal agencies.
- 20. Budget Reductions.** Grantee acknowledges that Grantor is subject to State of Ohio budgetary constraints that could result in the reduction of the amount of Grant Funds provided under this Agreement. Should Grantor's funding levels be reduced, Grantor shall notify Grantee in writing of the extent of any reduction to the Grant Funds and reduce Grantee's commitments in a manner corresponding to the reduction of Grant Funds and such notice shall result in the Agreement being amended without further action by the parties. Grantee hereby irrevocably authorizes Grantor to reduce the amount of Grant Funds provided under this Agreement upon written notice to Grantee provided there is a corresponding reduction in commitments outlined on page 1 of this Agreement
- 21. Conflict of Interest.** No personnel of Grantee, contractor of Grantee or personnel of any such contractor, and no public official who exercises any functions or responsibilities in connection with the review or approval of any work completed under this Agreement, shall, prior to the completion of such work, voluntarily or involuntarily acquire any personal interest, direct or indirect, which is incompatible or in conflict with the

discharge or fulfillment of his or her functions or responsibilities with respect to the completion of the work contemplated under this Agreement. Grantee shall immediately disclose in writing to Grantor any such person who, prior to or after the execution of this Agreement, acquires any personal interest, voluntarily or involuntarily. Grantee shall cause any such person who, prior to or after the execution of this Agreement, acquires any personal interest, voluntarily or involuntarily, to immediately disclose such interest to Grantor in writing. Thereafter, such person shall not participate in any action affecting the work under this Agreement unless Grantor determines that, in light of the personal interest disclosed, his or her participation in any such action would not be contrary to the public interest.

22. Adherence to State and Federal Laws, Regulations.

- a. **General.** Grantee shall comply with all applicable federal, state, and local laws in the performance of Grantee's obligations under this Agreement, the completion of the Project and the operation of the Project as long as Grantee has any obligation to Grantor under this Agreement. Without limiting the generality of such obligation, Grantee shall pay or cause to be paid all unemployment compensation, insurance premiums, workers' compensation premiums, income tax withholding, social security withhold, and any and all other taxes or payroll deductions required for all employees engaged by Grantee in connection with the Project, and Grantee shall comply with all applicable environmental, zoning, planning and building laws and regulations.
- b. **Ethics.** Grantee, by its signature on this document, certifies: (1) it has reviewed and understands the Ohio ethics and conflict of interest laws including, without limitation, **ORC Sections 102.01 et seq., 2921.01, 2921.42, 2921.421, 2921.43, and 3517.13(I) and (J)**, and (2) will take no action inconsistent with those laws, as any of them may be amended or supplemented from time to time. Grantee understands that failure to comply with the ethics and conflict of interest laws, is in itself, grounds for termination of this Agreement and the grant of funds made pursuant to this Agreement and may result in the loss of other contracts or grants with the State of Ohio.

23. Outstanding Liabilities. Grantee represents and warrants that it does not owe: (1) any delinquent taxes to the State of Ohio (the "State") or a political subdivision of the State; (2) any amount to the State or a state agency for the administration or enforcement of any environmental laws of the State; and (3) any other amount to the State, a state agency or a political subdivision of the State that are past due, whether or not the amounts owed are being contested in a court of law.

24. Falsification of Information. Grantee represents and warrants that it has made no false statements to Grantor in the process of obtaining this award of the Grant Funds. If Grantee has knowingly made a false statement to Grantor to obtain this award of the Grant Funds, Grantee shall be required to return all the Grant Funds immediately pursuant to **ORC Section 9.66(C)(2)** and shall be ineligible for any future economic development assistance from the State, any state agency or a political subdivision pursuant to **ORC Section 9.66(C)(1)**. Any person who provides a false statement to secure economic development assistance may be guilty of falsification, a misdemeanor of the first degree, pursuant to **ORC 2921.13(F)(1)**, which is punishable by a fine of not more than \$1,000 and/or a term of imprisonment of not more than 180 days.

25. Public Records. Grantee acknowledges that this Agreement and other records in the possession or control of Grantor regarding the Project are public records under **ORC 149.43** and are open to public inspection unless a legal exemption applies.

26. Miscellaneous.

- a. **Forum and Venue.** Grantee irrevocably submits to the non-exclusive jurisdiction of any federal or state court sitting in Columbus, Ohio, in any action or proceeding arising out of or related to this Agreement, Grantee agrees that all claims in respect of such action or proceeding may be heard and determined in any such court, and Grantee irrevocably waives any objection it may now or hereafter have as to the venue of any such action or proceeding brought in such court or that such court is an

inconvenient forum. Nothing in this Agreement shall limit the right of Grantor to bring any action or proceedings against Grantee in the courts of any other jurisdiction. Any actions or proceedings by Grantee against Grantor or the State of Ohio involving, directly or indirectly, any matter in any way arising out of or related to this Agreement shall be brought only in a court in Columbus, Ohio.

b. **Entire Agreement.** This Agreement, including its exhibits and documents incorporated into it by reference, constitutes the entire agreement and understanding of the parties with respect to its subject matter. Any prior written or verbal agreement, understanding or representation between the parties or any of their respective officers, agents, or employees is superseded and no such prior agreement, understanding or representation shall be deemed to affect or modify any of the terms or conditions of this Agreement.

c. **Program Income.** Any funds that were billed to the property owner as part of a nuisance order or other means and subsequently paid by a property owner to Grantee for Project work that was billed/paid by Grantor with Grant Funds, shall be returned to Grantor.

27. **Severability.** Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Agreement is held to be prohibited by or invalid under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provisions of this Agreement.

28. **Pronouns.** The use of any gender pronoun shall be deemed to include all the other genders, and the use of any singular noun or verb shall be deemed to include the plural, and vice versa, whenever the context so requires.

29. **Headings.** Section headings contained in this Agreement are inserted for convenience only and shall not be deemed to be a part of this Agreement

30. **Counterparts; PDF Accepted.** This Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Copies of signatures sent by facsimile transmission or provided electronically in portable document format ("PDF") shall be deemed to be originals for purposes of execution and proof of this Agreement.

a. **Notices.** All notices, consents, demands, requests and other communications which may or are required to be given hereunder shall be in writing and shall be deemed duly given if personally delivered or sent by United States mail, registered or certified, return receipt requested, postage prepaid, to the addresses set forth hereunder or to such other address as the other party hereto may designate in written notice transmitted in accordance with this provision.

i. In the case of Grantor, to:

Ohio Department of Development
Office of Energy and Environment
77 South High Street, P.O. Box 1001
Columbus, Ohio 43216-1001
Attn: Deputy Chief

ii. In the case of Grantee, to:

Port Authority of Allen County
144 South Main Street Lima, Ohio 45801

Signature

Each of the parties has caused this Grant Agreement to be executed by its authorized representatives as of the dates set forth below their respective signatures.

Grantee:

Port Authority of Allen County

Authorized Official

Printed Name:

Title:

Date:

R. Baird Hardy
R. BAIRD HARDY
Sec. / Fiscal Officer
7-7-22

Grantor:

State of Ohio, Department of Development

E-SIGNED by Matthew McClellan
on 2022-07-27 04:47:41 EST

By:

Matthew McClellan

Printed Name:

Assistant Director

Title:

2022-07-27 04:47:41 UTC

Date:

EXHIBIT I

Scope of Work/Budget/Grant Application

Project scope of work and budget is located within Grantor electronic application system (Salesforce).

EXHIBIT II

Reporting

Grantee shall provide the information listed below by the date(s) specified herein or to be determined by Grantor. Grantor shall provide a format to submit the information and shall instruct Grantee in the proper completion of such documents. The reporting and recordkeeping requirements listed herein shall not be construed to limit Grantor from making additional requests or from changing or including additional detail. Failure to submit required reports will result in non-payment of monthly expenditures.

1. **Financial Reimbursement Requests:** all financial reimbursement requests must be submitted electronically to the Grantor on a monthly basis as costs are incurred. Supporting documentation for costs submitted for reimbursement must be uploaded and submitted within the electronic system as part of the request. If an advance of funds is being requested, provide a rational for the advance and anticipated uses. The rational should include supporting documentation for the requested costs.
2. **Program Reports:** Program reports must be submitted on a quarterly basis. Program reports must be submitted by close of business, on the third Friday at the end of each quarter. Program reports must include the following information:
 - a. Narrative summary of use of funds during the reporting period.
 - b. Update of outcomes projected in Grantee's Application. Examples may include an assessment initiated or completed, remediation work beginning on the site, additional testing completed and/or further development with the proposed end-use.
3. **Final Report:** A final project report must be submitted 15 days after the end of this Agreement.

EXHIBIT III

Special Conditions may be included within this Grant Agreement as agreed upon by Grantee and Grantor.

APPENDIX D

SOIL ANALYTICAL DATA

APPENDIX D-1

BULK SOIL ANALYTICAL DATA



29-Oct-2020

John Thornburg
The Mannik&Smith Group, Inc.
1160 Dublin Road
Suite 100
Columbus, OH 43215

Re: **EDCO, A4110001**

Work Order: **20100838**

Dear John,

ALS Environmental received 11 samples on 21-Oct-2020 02:23 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 77.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: The Mannik&Smith Group, Inc.
Project: EDCO, A4110001
Work Order: 20100838

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20100838-01	B-9 (8-10')	Soil		10/19/2020 12:45	10/21/2020 14:23	☐
20100838-02	B-14 (0-2')	Soil		10/19/2020 15:15	10/21/2020 14:23	☐
20100838-03	B-14 (8-10')	Soil		10/19/2020 15:30	10/21/2020 14:23	☐
20100838-04	B-15 (0-2')	Soil		10/19/2020 15:50	10/21/2020 14:23	☐
20100838-05	B-15 (6-8')	Soil		10/19/2020 16:00	10/21/2020 14:23	☐
20100838-06	B-16 (0-2')	Soil		10/20/2020 08:40	10/21/2020 14:23	☐
20100838-07	B-16 (2-4')	Soil		10/20/2020 08:45	10/21/2020 14:23	☐
20100838-08	B-11 (8-10')	Soil		10/20/2020 11:45	10/21/2020 14:23	☐
20100838-09	B-10 (1-3')	Soil		10/20/2020 13:50	10/21/2020 14:23	☐
20100838-10	B-12 (2-4')	Soil		10/20/2020 15:10	10/21/2020 14:23	☐
20100838-11	B-13 (1-3')	Soil		10/21/2020 09:05	10/21/2020 14:23	☐

Client: The Mannik&Smith Group, Inc.
Project: EDCO, A4110001
Work Order: 20100838

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements. Affidavits are available upon request.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-9 (8-10')

Lab ID: 20100838-01

Collection Date: 10/19/2020 12:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/22/20 16:46		Analyst: CAA
TPH C10-C20	28		17	mg/Kg-dry	1	10/23/2020 05:09 PM
TPH C20-C34	69		17	mg/Kg-dry	1	10/23/2020 05:09 PM
Surr: Nonane	70.9		22.6-112	%REC	1	10/23/2020 05:09 PM
Surr: Pentacosane	67.8		9.2-109	%REC	1	10/23/2020 05:09 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.3	mg/Kg-dry	1	10/23/2020 06:37 PM
Surr: Cyclooctane	98.0		55-135	%REC	1	10/23/2020 06:37 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	14			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39		Analyst: SLT
Mercury	ND		0.27	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47		Analyst: AZ
Arsenic	8.9		3.7	mg/Kg-dry	1	10/27/2020 11:43 AM
Barium	83		7.4	mg/Kg-dry	1	10/27/2020 11:43 AM
Cadmium	ND		0.74	mg/Kg-dry	1	10/27/2020 11:43 AM
Chromium	13		1.5	mg/Kg-dry	1	10/27/2020 11:43 AM
Lead	8.3		3.7	mg/Kg-dry	1	10/27/2020 11:43 AM
Selenium	ND		2.2	mg/Kg-dry	1	10/27/2020 11:43 AM
Silver	ND		0.74	mg/Kg-dry	1	10/27/2020 11:43 AM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/22/20 12:20		Analyst: RA
1-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
2-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Acenaphthene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Acenaphthylene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Anthracene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 09:52 AM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 09:52 AM
Benzo(b)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Benzo(g,h,i)perylene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Benzo(k)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Carbazole	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Chrysene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 09:52 AM
Dibenzofuran	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Fluorene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-9 (8-10')

Lab ID: 20100838-01

Collection Date: 10/19/2020 12:45 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 09:52 AM
Naphthalene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Phenanthrene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Pyrene	ND		230	µg/Kg-dry	1	10/28/2020 09:52 AM
Surr: 2-Fluorobiphenyl	63.3		30-116	%REC	1	10/28/2020 09:52 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Analyst: LAK		
1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
2-Butanone	ND		58	µg/Kg-dry	1	10/23/2020 02:39 AM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Acetone	ND		58	µg/Kg-dry	1	10/23/2020 02:39 AM
Benzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Bromoform	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.
Project: EDCO, A4110001
Sample ID: B-9 (8-10')
Collection Date: 10/19/2020 12:45 PM

Work Order: 20100838
Lab ID: 20100838-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Chloroform	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 02:39 AM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Methylene chloride	ND		23	µg/Kg-dry	1	10/23/2020 02:39 AM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Styrene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Toluene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/23/2020 02:39 AM
Xylenes, Total	ND		17	µg/Kg-dry	1	10/23/2020 02:39 AM
Surr: 4-Bromofluorobenzene	102		62.7-159	%REC	1	10/23/2020 02:39 AM
Surr: Dibromofluoromethane	97.2		88.4-146	%REC	1	10/23/2020 02:39 AM
Surr: Toluene-d8	98.3		83-124	%REC	1	10/23/2020 02:39 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-14 (0-2')

Lab ID: 20100838-02

Collection Date: 10/19/2020 03:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/22/20 16:46	Analyst: CAA	
TPH C10-C20	ND		19	mg/Kg-dry	1	10/23/2020 05:28 PM
TPH C20-C34	63		19	mg/Kg-dry	1	10/23/2020 05:28 PM
Surr: Nonane	73.6		22.6-112	%REC	1	10/23/2020 05:28 PM
Surr: Pentacosane	66.7		9.2-109	%REC	1	10/23/2020 05:28 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A		Analyst: CS	
TPH C6-C12	ND		2.6	mg/Kg-dry	1	10/23/2020 07:02 PM
Surr: Cyclooctane	93.4		55-135	%REC	1	10/23/2020 07:02 PM
PCBS			SW8082	Prep: SW3546 10/26/20 07:47	Analyst: TSA	
Aroclor 1016	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1262	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Aroclor 1268	ND		0.13	mg/Kg-dry	1	10/26/2020 08:10 PM
Surr: Decachlorobiphenyl	86.0		14.9-146	%REC	1	10/26/2020 08:10 PM
Surr: Tetrachloro-m-xylene	92.0		20.7-158	%REC	1	10/26/2020 08:10 PM
MOISTURE			SM2540B		Analyst: AZ	
Moisture	22			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39	Analyst: SLT	
Mercury	ND		0.32	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47	Analyst: AZ	
Arsenic	ND		4.4	mg/Kg-dry	1	10/27/2020 11:48 AM
Barium	45		8.7	mg/Kg-dry	1	10/27/2020 11:48 AM
Cadmium	ND		0.87	mg/Kg-dry	1	10/27/2020 11:48 AM
Chromium	12		1.7	mg/Kg-dry	1	10/27/2020 11:48 AM
Lead	14		4.4	mg/Kg-dry	1	10/27/2020 11:48 AM
Selenium	ND		2.6	mg/Kg-dry	1	10/27/2020 11:48 AM
Silver	ND		0.87	mg/Kg-dry	1	10/27/2020 11:48 AM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/22/20 12:20	Analyst: RA	
1-Methylnaphthalene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
2-Methylnaphthalene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Acenaphthene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Acenaphthylene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-14 (0-2')

Lab ID: 20100838-02

Collection Date: 10/19/2020 03:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Benzo(a)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 10:12 AM
Benzo(a)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 10:12 AM
Benzo(b)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Benzo(g,h,i)perylene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Benzo(k)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Carbazole	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Chrysene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Dibenzo(a,h)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 10:12 AM
Dibenzofuran	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Fluorene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Indeno(1,2,3-cd)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 10:12 AM
Naphthalene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Phenanthrene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Pyrene	ND		260	µg/Kg-dry	1	10/28/2020 10:12 AM
Surr: 2-Fluorobiphenyl	68.4		30-116	%REC	1	10/28/2020 10:12 AM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1,1-Trichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1,2,2-Tetrachloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1,2-Trichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,1-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2,3-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2,3-Trichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2,4-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2,4-Trimethylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2-Dibromo-3-chloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2-Dibromoethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,3,5-Trimethylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,3-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,3-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
1,4-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
2,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
2-Butanone	ND		64	µg/Kg-dry	1	10/23/2020 02:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-14 (0-2')

Collection Date: 10/19/2020 03:15 PM

Work Order: 20100838

Lab ID: 20100838-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
2-Hexanone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
4-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
4-Methyl-2-pentanone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Acetone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Benzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Bromobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Bromochloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Bromodichloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Bromoform	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Bromomethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Carbon disulfide	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Carbon tetrachloride	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Chlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Chloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Chloroform	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Chloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
cis-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
cis-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Dibromochloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Dibromomethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Dichlorodifluoromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Ethylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Hexachlorobutadiene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Isopropylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/23/2020 02:59 AM
Methyl tert-butyl ether	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Methylene chloride	ND		26	µg/Kg-dry	1	10/23/2020 02:59 AM
Naphthalene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
n-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
n-Propylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
o-Xylene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
p-Isopropyltoluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
sec-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Styrene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
tert-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Tetrachloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Toluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
trans-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
trans-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-14 (0-2')

Lab ID: 20100838-02

Collection Date: 10/19/2020 03:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Trichlorofluoromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Vinyl chloride	ND		6.4	µg/Kg-dry	1	10/23/2020 02:59 AM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/23/2020 02:59 AM
Surr: 4-Bromofluorobenzene	99.5		62.7-159	%REC	1	10/23/2020 02:59 AM
Surr: Dibromofluoromethane	97.2		88.4-146	%REC	1	10/23/2020 02:59 AM
Surr: Toluene-d8	99.3		83-124	%REC	1	10/23/2020 02:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-14 (8-10')

Lab ID: 20100838-03

Collection Date: 10/19/2020 03:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/22/20 16:46	Analyst: CAA	
TPH C10-C20	25		18	mg/Kg-dry	1	10/23/2020 02:50 PM
TPH C20-C34	77		18	mg/Kg-dry	1	10/23/2020 02:50 PM
Surr: Nonane	74.0		22.6-112	%REC	1	10/23/2020 02:50 PM
Surr: Pentacosane	69.0		9.2-109	%REC	1	10/23/2020 02:50 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A		Analyst: CS	
TPH C6-C12	ND		2.3	mg/Kg-dry	1	10/23/2020 07:28 PM
Surr: Cyclooctane	93.7		55-135	%REC	1	10/23/2020 07:28 PM
PCBS			SW8082	Prep: SW3546 10/26/20 07:47	Analyst: TSA	
Aroclor 1016	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1221	ND		0.23	mg/Kg-dry	1	10/26/2020
Aroclor 1232	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1242	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1248	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1254	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1260	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1262	ND		0.12	mg/Kg-dry	1	10/26/2020
Aroclor 1268	ND		0.12	mg/Kg-dry	1	10/26/2020
Surr: Decachlorobiphenyl	84.0		14.9-146	%REC	1	10/26/2020
Surr: Tetrachloro-m-xylene	88.0		20.7-158	%REC	1	10/26/2020
MOISTURE			SM2540B		Analyst: AZ	
Moisture	15			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39	Analyst: SLT	
Mercury	ND		0.32	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47	Analyst: AZ	
Arsenic	10		4.0	mg/Kg-dry	1	10/27/2020 11:52 AM
Barium	73		8.1	mg/Kg-dry	1	10/27/2020 11:52 AM
Cadmium	ND		0.81	mg/Kg-dry	1	10/27/2020 11:52 AM
Chromium	12		1.6	mg/Kg-dry	1	10/27/2020 11:52 AM
Lead	9.1		4.0	mg/Kg-dry	1	10/27/2020 11:52 AM
Selenium	ND		2.4	mg/Kg-dry	1	10/27/2020 11:52 AM
Silver	ND		0.81	mg/Kg-dry	1	10/27/2020 11:52 AM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/22/20 12:20	Analyst: RA	
1-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
2-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Acenaphthene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Acenaphthylene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-14 (8-10')

Collection Date: 10/19/2020 03:30 PM

Work Order: 20100838

Lab ID: 20100838-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 10:51 AM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 10:51 AM
Benzo(b)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Benzo(g,h,i)perylene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Benzo(k)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Carbazole	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Chrysene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 10:51 AM
Dibenzofuran	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Fluorene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 10:51 AM
Naphthalene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Phenanthrene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Pyrene	ND		230	µg/Kg-dry	1	10/28/2020 10:51 AM
Surr: 2-Fluorobiphenyl	56.2		30-116	%REC	1	10/28/2020 10:51 AM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1,1-Trichloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1,2,2-Tetrachloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1,2-Trichloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1-Dichloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1-Dichloroethene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,1-Dichloropropene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2,3-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2,3-Trichloropropane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2,4-Trichlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2,4-Trimethylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2-Dibromo-3-chloropropane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2-Dibromoethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2-Dichloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,2-Dichloropropane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,3,5-Trimethylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,3-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,3-Dichloropropane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
1,4-Dichlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
2,2-Dichloropropane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
2-Butanone	ND		59	µg/Kg-dry	1	10/23/2020 03:19 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-14 (8-10')

Collection Date: 10/19/2020 03:30 PM

Work Order: 20100838

Lab ID: 20100838-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
2-Hexanone	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
4-Chlorotoluene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
4-Methyl-2-pentanone	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Acetone	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Benzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Bromobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Bromochloromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Bromodichloromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Bromoform	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Bromomethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Carbon disulfide	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Carbon tetrachloride	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Chlorobenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Chloroethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Chloroform	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Chloromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
cis-1,2-Dichloroethene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
cis-1,3-Dichloropropene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Dibromochloromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Dibromomethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Dichlorodifluoromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Ethylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Hexachlorobutadiene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Isopropylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 03:19 AM
Methyl tert-butyl ether	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Methylene chloride	ND		23	µg/Kg-dry	1	10/23/2020 03:19 AM
Naphthalene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
n-Butylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
n-Propylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
o-Xylene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
p-Isopropyltoluene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
sec-Butylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Styrene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
tert-Butylbenzene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Tetrachloroethene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Toluene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
trans-1,2-Dichloroethene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
trans-1,3-Dichloropropene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-14 (8-10')

Lab ID: 20100838-03

Collection Date: 10/19/2020 03:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Trichlorofluoromethane	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Vinyl chloride	ND		5.9	µg/Kg-dry	1	10/23/2020 03:19 AM
Xylenes, Total	ND		18	µg/Kg-dry	1	10/23/2020 03:19 AM
Surr: 4-Bromofluorobenzene	100		62.7-159	%REC	1	10/23/2020 03:19 AM
Surr: Dibromofluoromethane	96.2		88.4-146	%REC	1	10/23/2020 03:19 AM
Surr: Toluene-d8	98.2		83-124	%REC	1	10/23/2020 03:19 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-15 (0-2')

Lab ID: 20100838-04

Collection Date: 10/19/2020 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546	10/26/20 12:16	Analyst: CAA
TPH C10-C20	ND		18	mg/Kg-dry	1	10/28/2020 03:04 PM
TPH C20-C34	47		18	mg/Kg-dry	1	10/28/2020 03:04 PM
Surr: Nonane	65.9		22.6-112	%REC	1	10/28/2020 03:04 PM
Surr: Pentacosane	66.2		9.2-109	%REC	1	10/28/2020 03:04 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.4	mg/Kg-dry	1	10/23/2020 07:53 PM
Surr: Cyclooctane	95.7		55-135	%REC	1	10/23/2020 07:53 PM
PCBS			SW8082	Prep: SW3546	10/26/20 07:47	Analyst: TSA
Aroclor 1016	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1221	ND		0.24	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1262	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Aroclor 1268	ND		0.12	mg/Kg-dry	1	10/26/2020 08:47 PM
Surr: Decachlorobiphenyl	84.0		14.9-146	%REC	1	10/26/2020 08:47 PM
Surr: Tetrachloro-m-xylene	354	S	20.7-158	%REC	1	10/26/2020 08:47 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	18			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471	10/27/20 07:39	Analyst: SLT
Mercury	ND		0.31	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B	10/27/20 07:47	Analyst: AZ
Arsenic	14		4.2	mg/Kg-dry	1	10/27/2020 11:56 AM
Barium	510		8.5	mg/Kg-dry	1	10/27/2020 11:56 AM
Cadmium	34		0.85	mg/Kg-dry	1	10/27/2020 11:56 AM
Chromium	31		1.7	mg/Kg-dry	1	10/27/2020 11:56 AM
Lead	2,300		4.2	mg/Kg-dry	1	10/27/2020 11:56 AM
Selenium	ND		2.5	mg/Kg-dry	1	10/27/2020 11:56 AM
Silver	1.1		0.85	mg/Kg-dry	1	10/27/2020 11:56 AM
PAH COMPOUNDS			SW8270C	Prep: SW3546	10/22/20 12:20	Analyst: RA
1-Methylnaphthalene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
2-Methylnaphthalene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Acenaphthene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Acenaphthylene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-15 (0-2')

Collection Date: 10/19/2020 03:50 PM

Work Order: 20100838

Lab ID: 20100838-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 11:11 AM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 11:11 AM
Benzo(b)fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Benzo(g,h,i)perylene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Benzo(k)fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Carbazole	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Chrysene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 11:11 AM
Dibenzofuran	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Fluorene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 11:11 AM
Naphthalene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Phenanthrene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Pyrene	ND		240	µg/Kg-dry	1	10/28/2020 11:11 AM
Surr: 2-Fluorobiphenyl	66.1		30-116	%REC	1	10/28/2020 11:11 AM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1,1-Trichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1,2,2-Tetrachloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1,2-Trichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,1-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2,3-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2,3-Trichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2,4-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2,4-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2-Dibromo-3-chloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2-Dibromoethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,3,5-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,3-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,3-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
1,4-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
2,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
2-Butanone	ND		61	µg/Kg-dry	1	10/23/2020 03:39 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-15 (0-2')

Collection Date: 10/19/2020 03:50 PM

Work Order: 20100838

Lab ID: 20100838-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
2-Hexanone	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
4-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
4-Methyl-2-pentanone	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Acetone	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Benzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Bromobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Bromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Bromodichloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Bromoform	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Bromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Carbon disulfide	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Carbon tetrachloride	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Chlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Chloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Chloroform	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Chloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
cis-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
cis-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Dibromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Dibromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Dichlorodifluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Ethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Hexachlorobutadiene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Isopropylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 03:39 AM
Methyl tert-butyl ether	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Methylene chloride	ND		24	µg/Kg-dry	1	10/23/2020 03:39 AM
Naphthalene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
n-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
n-Propylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
o-Xylene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
p-Isopropyltoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
sec-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Styrene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
tert-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Tetrachloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Toluene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
trans-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
trans-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-15 (0-2')

Lab ID: 20100838-04

Collection Date: 10/19/2020 03:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Trichlorofluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Vinyl chloride	ND		6.1	µg/Kg-dry	1	10/23/2020 03:39 AM
Xylenes, Total	ND		18	µg/Kg-dry	1	10/23/2020 03:39 AM
Surr: 4-Bromofluorobenzene	100		62.7-159	%REC	1	10/23/2020 03:39 AM
Surr: Dibromofluoromethane	98.1		88.4-146	%REC	1	10/23/2020 03:39 AM
Surr: Toluene-d8	100		83-124	%REC	1	10/23/2020 03:39 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-15 (6-8')

Lab ID: 20100838-05

Collection Date: 10/19/2020 04:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546	10/26/20 12:16	Analyst: CAA
TPH C10-C20	19		17	mg/Kg-dry	1	10/26/2020 02:55 PM
TPH C20-C34	57		17	mg/Kg-dry	1	10/26/2020 02:55 PM
Surr: Nonane	64.1		22.6-112	%REC	1	10/26/2020 02:55 PM
Surr: Pentacosane	63.5		9.2-109	%REC	1	10/26/2020 02:55 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.3	mg/Kg-dry	1	10/23/2020 08:44 PM
Surr: Cyclooctane	100		55-135	%REC	1	10/23/2020 08:44 PM
PCBS			SW8082	Prep: SW3546	10/26/20 07:47	Analyst: TSA
Aroclor 1016	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1221	ND		0.23	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1262	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Aroclor 1268	ND		0.12	mg/Kg-dry	1	10/26/2020 09:05 PM
Surr: Decachlorobiphenyl	86.0		14.9-146	%REC	1	10/26/2020 09:05 PM
Surr: Tetrachloro-m-xylene	88.0		20.7-158	%REC	1	10/26/2020 09:05 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	14			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471	10/27/20 07:39	Analyst: SLT
Mercury	ND		0.37	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B	10/27/20 07:47	Analyst: AZ
Arsenic	7.6		3.8	mg/Kg-dry	1	10/27/2020 12:01 PM
Barium	37		7.5	mg/Kg-dry	1	10/27/2020 12:01 PM
Cadmium	ND		0.75	mg/Kg-dry	1	10/27/2020 12:01 PM
Chromium	11		1.5	mg/Kg-dry	1	10/27/2020 12:01 PM
Lead	11		3.8	mg/Kg-dry	1	10/27/2020 12:01 PM
Selenium	ND		2.3	mg/Kg-dry	1	10/27/2020 12:01 PM
Silver	ND		0.75	mg/Kg-dry	1	10/27/2020 12:01 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546	10/22/20 12:20	Analyst: RA
1-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
2-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Acenaphthene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Acenaphthylene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-15 (6-8')

Lab ID: 20100838-05

Collection Date: 10/19/2020 04:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 11:31 AM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 11:31 AM
Benzo(b)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Benzo(g,h,i)perylene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Benzo(k)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Carbazole	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Chrysene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 11:31 AM
Dibenzofuran	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Fluorene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 11:31 AM
Naphthalene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Phenanthrene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Pyrene	ND		230	µg/Kg-dry	1	10/28/2020 11:31 AM
Surr: 2-Fluorobiphenyl	75.4		30-116	%REC	1	10/28/2020 11:31 AM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
2-Butanone	ND		58	µg/Kg-dry	1	10/23/2020 03:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-15 (6-8')

Collection Date: 10/19/2020 04:00 PM

Work Order: 20100838

Lab ID: 20100838-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Acetone	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Benzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Bromoform	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Chloroform	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 03:59 AM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Methylene chloride	ND		23	µg/Kg-dry	1	10/23/2020 03:59 AM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Styrene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Toluene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-15 (6-8')

Lab ID: 20100838-05

Collection Date: 10/19/2020 04:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/23/2020 03:59 AM
Xylenes, Total	ND		17	µg/Kg-dry	1	10/23/2020 03:59 AM
Surr: 4-Bromofluorobenzene	99.7		62.7-159	%REC	1	10/23/2020 03:59 AM
Surr: Dibromofluoromethane	98.2		88.4-146	%REC	1	10/23/2020 03:59 AM
Surr: Toluene-d8	99.2		83-124	%REC	1	10/23/2020 03:59 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (0-2')

Lab ID: 20100838-06

Collection Date: 10/20/2020 08:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546	10/26/20 12:16	Analyst: CAA
TPH C10-C20	1,500		98	mg/Kg-dry	5	10/27/2020 11:41 AM
TPH C20-C34	160		20	mg/Kg-dry	1	10/26/2020 04:32 PM
Surr: Nonane	66.7		22.6-112	%REC	1	10/26/2020 04:32 PM
Surr: Pentacosane	59.4		9.2-109	%REC	1	10/26/2020 04:32 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	520		100	mg/Kg-dry	40	10/26/2020 05:26 PM
Surr: Cyclooctane	106		55-135	%REC	40	10/26/2020 05:26 PM
PCBS			SW8082	Prep: SW3546	10/26/20 07:47	Analyst: TSA
Aroclor 1016	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1262	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Aroclor 1268	ND		0.13	mg/Kg-dry	1	10/26/2020 09:23 PM
Surr: Decachlorobiphenyl	84.0		14.9-146	%REC	1	10/26/2020 09:23 PM
Surr: Tetrachloro-m-xylene	64.0		20.7-158	%REC	1	10/26/2020 09:23 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	23			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471	10/27/20 07:39	Analyst: SLT
Mercury	ND		0.38	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B	10/27/20 07:47	Analyst: AZ
Arsenic	12		5.3	mg/Kg-dry	1	10/27/2020 12:05 PM
Barium	270		11	mg/Kg-dry	1	10/27/2020 12:05 PM
Cadmium	110		1.1	mg/Kg-dry	1	10/27/2020 12:05 PM
Chromium	36		2.1	mg/Kg-dry	1	10/27/2020 12:05 PM
Lead	1,200		5.3	mg/Kg-dry	1	10/27/2020 12:05 PM
Selenium	12		3.2	mg/Kg-dry	1	10/27/2020 12:05 PM
Silver	ND		1.1	mg/Kg-dry	1	10/27/2020 12:05 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546	10/22/20 12:20	Analyst: RA
1-Methylnaphthalene	1,300		260	µg/Kg-dry	1	10/28/2020 11:51 AM
2-Methylnaphthalene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Acenaphthene	480		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Acenaphthylene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (0-2')

Lab ID: 20100838-06

Collection Date: 10/20/2020 08:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Benzo(a)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 11:51 AM
Benzo(a)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 11:51 AM
Benzo(b)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Benzo(g,h,i)perylene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Benzo(k)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Carbazole	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Chrysene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Dibenzo(a,h)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 11:51 AM
Dibenzofuran	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Fluorene	480		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Indeno(1,2,3-cd)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 11:51 AM
Naphthalene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Phenanthrene	850		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Pyrene	ND		260	µg/Kg-dry	1	10/28/2020 11:51 AM
Surr: 2-Fluorobiphenyl	72.5		30-116	%REC	1	10/28/2020 11:51 AM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1,1-Trichloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1,2,2-Tetrachloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1,2-Trichloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1-Dichloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1-Dichloroethene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,1-Dichloropropene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2,3-Trichlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2,3-Trichloropropane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2,4-Trichlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2,4-Trimethylbenzene	810		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2-Dibromo-3-chloropropane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2-Dibromoethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2-Dichlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2-Dichloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,2-Dichloropropane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,3,5-Trimethylbenzene	1,100		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,3-Dichlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,3-Dichloropropane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
1,4-Dichlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
2,2-Dichloropropane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
2-Butanone	ND		320	µg/Kg-dry	5	10/23/2020 01:58 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-16 (0-2')

Collection Date: 10/20/2020 08:40 AM

Work Order: 20100838

Lab ID: 20100838-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
2-Hexanone	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
4-Chlorotoluene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
4-Methyl-2-pentanone	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Acetone	ND		320	µg/Kg-dry	5	10/23/2020 01:58 AM
Benzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Bromobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Bromochloromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Bromodichloromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Bromoform	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Bromomethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Carbon disulfide	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Carbon tetrachloride	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Chlorobenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Chloroethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Chloroform	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Chloromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
cis-1,2-Dichloroethene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
cis-1,3-Dichloropropene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Dibromochloromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Dibromomethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Dichlorodifluoromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Ethylbenzene	100		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Hexachlorobutadiene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Isopropylbenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
m,p-Xylene	130		65	µg/Kg-dry	5	10/23/2020 01:58 AM
Methyl tert-butyl ether	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Methylene chloride	ND		130	µg/Kg-dry	5	10/23/2020 01:58 AM
Naphthalene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
n-Butylbenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
n-Propylbenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
o-Xylene	210		32	µg/Kg-dry	5	10/23/2020 01:58 AM
p-Isopropyltoluene	530		32	µg/Kg-dry	5	10/23/2020 01:58 AM
sec-Butylbenzene	62		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Styrene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
tert-Butylbenzene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Tetrachloroethene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Toluene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
trans-1,2-Dichloroethene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
trans-1,3-Dichloropropene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (0-2')

Lab ID: 20100838-06

Collection Date: 10/20/2020 08:40 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Trichlorofluoromethane	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Vinyl chloride	ND		32	µg/Kg-dry	5	10/23/2020 01:58 AM
Xylenes, Total	340		97	µg/Kg-dry	5	10/23/2020 01:58 AM
Surr: 4-Bromofluorobenzene	166	S	62.7-159	%REC	5	10/23/2020 01:58 AM
Surr: Dibromofluoromethane	99.9		88.4-146	%REC	5	10/23/2020 01:58 AM
Surr: Toluene-d8	109		83-124	%REC	5	10/23/2020 01:58 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (2-4')

Lab ID: 20100838-07

Collection Date: 10/20/2020 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546	10/26/20 12:16	Analyst: CAA
TPH C10-C20	1,600		97	mg/Kg-dry	5	10/27/2020 12:00 PM
TPH C20-C34	410		19	mg/Kg-dry	1	10/26/2020 04:52 PM
Surr: Nonane	69.2		22.6-112	%REC	1	10/26/2020 04:52 PM
Surr: Pentacosane	63.4		9.2-109	%REC	1	10/26/2020 04:52 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	260		100	mg/Kg-dry	40	10/26/2020 05:51 PM
Surr: Cyclooctane	93.2		55-135	%REC	40	10/26/2020 05:51 PM
PCBS			SW8082	Prep: SW3546	10/26/20 07:47	Analyst: TSA
Aroclor 1016	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1262	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Aroclor 1268	ND		0.13	mg/Kg-dry	1	10/26/2020 09:41 PM
Surr: Decachlorobiphenyl	104		14.9-146	%REC	1	10/26/2020 09:41 PM
Surr: Tetrachloro-m-xylene	104		20.7-158	%REC	1	10/26/2020 09:41 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	22			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471	10/27/20 07:39	Analyst: SLT
Mercury	ND		0.36	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B	10/27/20 07:47	Analyst: AZ
Arsenic	ND		6.0	mg/Kg-dry	1	10/27/2020 12:10 PM
Barium	55		12	mg/Kg-dry	1	10/27/2020 12:10 PM
Cadmium	4.7		1.2	mg/Kg-dry	1	10/27/2020 12:10 PM
Chromium	10		2.4	mg/Kg-dry	1	10/27/2020 12:10 PM
Lead	110		6.0	mg/Kg-dry	1	10/27/2020 12:10 PM
Selenium	ND		3.6	mg/Kg-dry	1	10/27/2020 12:10 PM
Silver	ND		1.2	mg/Kg-dry	1	10/27/2020 12:10 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546	10/22/20 12:20	Analyst: RA
1-Methylnaphthalene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
2-Methylnaphthalene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Acenaphthene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Acenaphthylene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (2-4')

Lab ID: 20100838-07

Collection Date: 10/20/2020 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Benzo(a)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 12:10 PM
Benzo(a)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 12:10 PM
Benzo(b)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Benzo(g,h,i)perylene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Benzo(k)fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Carbazole	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Chrysene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Dibenzo(a,h)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 12:10 PM
Dibenzofuran	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Fluoranthene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Fluorene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Indeno(1,2,3-cd)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 12:10 PM
Naphthalene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Phenanthrene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Pyrene	ND		260	µg/Kg-dry	1	10/28/2020 12:10 PM
Surr: 2-Fluorobiphenyl	82.5		30-116	%REC	1	10/28/2020 12:10 PM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1,1-Trichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1,2,2-Tetrachloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1,2-Trichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,1-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2,3-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2,3-Trichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2,4-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2,4-Trimethylbenzene	12		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2-Dibromo-3-chloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2-Dibromoethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,3,5-Trimethylbenzene	22		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,3-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,3-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
1,4-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
2,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
2-Butanone	ND		64	µg/Kg-dry	1	10/23/2020 02:18 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-16 (2-4')

Collection Date: 10/20/2020 08:45 AM

Work Order: 20100838

Lab ID: 20100838-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
2-Hexanone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
4-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
4-Methyl-2-pentanone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Acetone	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Benzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Bromobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Bromochloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Bromodichloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Bromoform	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Bromomethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Carbon disulfide	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Carbon tetrachloride	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Chlorobenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Chloroethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Chloroform	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Chloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
cis-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
cis-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Dibromochloromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Dibromomethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Dichlorodifluoromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Ethylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Hexachlorobutadiene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Isopropylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/23/2020 02:18 AM
Methyl tert-butyl ether	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Methylene chloride	ND		26	µg/Kg-dry	1	10/23/2020 02:18 AM
Naphthalene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
n-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
n-Propylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
o-Xylene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
p-Isopropyltoluene	7.1		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
sec-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Styrene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
tert-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Tetrachloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Toluene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
trans-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
trans-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-16 (2-4')

Lab ID: 20100838-07

Collection Date: 10/20/2020 08:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Trichlorofluoromethane	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Vinyl chloride	ND		6.4	µg/Kg-dry	1	10/23/2020 02:18 AM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/23/2020 02:18 AM
Surr: 4-Bromofluorobenzene	123		62.7-159	%REC	1	10/23/2020 02:18 AM
Surr: Dibromofluoromethane	98.2		88.4-146	%REC	1	10/23/2020 02:18 AM
Surr: Toluene-d8	101		83-124	%REC	1	10/23/2020 02:18 AM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-11 (8-10')

Lab ID: 20100838-08

Collection Date: 10/20/2020 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546	10/26/20 12:16	Analyst: CAA
TPH C10-C20	ND		18	mg/Kg-dry	1	10/26/2020 05:11 PM
TPH C20-C34	57		18	mg/Kg-dry	1	10/26/2020 05:11 PM
Surr: Nonane	67.8		22.6-112	%REC	1	10/26/2020 05:11 PM
Surr: Pentacosane	59.8		9.2-109	%REC	1	10/26/2020 05:11 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.4	mg/Kg-dry	1	10/26/2020 06:17 PM
Surr: Cyclooctane	93.5		55-135	%REC	1	10/26/2020 06:17 PM
MOISTURE			SM2540B			Analyst: AZ
Moisture	17			% of sample	1	10/27/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471	10/27/20 07:39	Analyst: SLT
Mercury	ND		0.29	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B	10/27/20 07:47	Analyst: AZ
Arsenic	6.4		4.1	mg/Kg-dry	1	10/27/2020 12:22 PM
Barium	86		8.2	mg/Kg-dry	1	10/27/2020 12:22 PM
Cadmium	ND		0.82	mg/Kg-dry	1	10/27/2020 12:22 PM
Chromium	13		1.6	mg/Kg-dry	1	10/27/2020 12:22 PM
Lead	8.8		4.1	mg/Kg-dry	1	10/27/2020 12:22 PM
Selenium	ND		2.5	mg/Kg-dry	1	10/27/2020 12:22 PM
Silver	ND		0.82	mg/Kg-dry	1	10/27/2020 12:22 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546	10/22/20 12:20	Analyst: RA
1-Methylnaphthalene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
2-Methylnaphthalene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Acenaphthene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Acenaphthylene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Anthracene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 12:30 PM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 12:30 PM
Benzo(b)fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Benzo(g,h,i)perylene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Benzo(k)fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Carbazole	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Chrysene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 12:30 PM
Dibenzofuran	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Fluoranthene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Fluorene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-11 (8-10')

Lab ID: 20100838-08

Collection Date: 10/20/2020 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 12:30 PM
Naphthalene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Phenanthrene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Pyrene	ND		240	µg/Kg-dry	1	10/28/2020 12:30 PM
Surr: 2-Fluorobiphenyl	71.8		30-116	%REC	1	10/28/2020 12:30 PM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1,1-Trichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1,2,2-Tetrachloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1,2-Trichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,1-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2,3-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2,3-Trichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2,4-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2,4-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2-Dibromo-3-chloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2-Dibromoethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,3,5-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,3-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,3-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
1,4-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
2,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
2-Butanone	ND		61	µg/Kg-dry	1	10/23/2020 01:07 PM
2-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
2-Hexanone	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
4-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
4-Methyl-2-pentanone	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Acetone	ND		61	µg/Kg-dry	1	10/23/2020 01:07 PM
Benzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Bromobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Bromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Bromodichloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Bromoform	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Bromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Carbon disulfide	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-11 (8-10')

Lab ID: 20100838-08

Collection Date: 10/20/2020 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Chlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Chloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Chloroform	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Chloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
cis-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
cis-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Dibromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Dibromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Dichlorodifluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Ethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Hexachlorobutadiene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Isopropylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 01:07 PM
Methyl tert-butyl ether	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Methylene chloride	ND		24	µg/Kg-dry	1	10/23/2020 01:07 PM
Naphthalene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
n-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
n-Propylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
o-Xylene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
p-Isopropyltoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
sec-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Styrene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
tert-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Tetrachloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Toluene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
trans-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
trans-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Trichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Trichlorofluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Vinyl chloride	ND		6.1	µg/Kg-dry	1	10/23/2020 01:07 PM
Xylenes, Total	ND		18	µg/Kg-dry	1	10/23/2020 01:07 PM
Surr: 4-Bromofluorobenzene	100		62.7-159	%REC	1	10/23/2020 01:07 PM
Surr: Dibromofluoromethane	103		88.4-146	%REC	1	10/23/2020 01:07 PM
Surr: Toluene-d8	98.0		83-124	%REC	1	10/23/2020 01:07 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-10 (1-3')

Lab ID: 20100838-09

Collection Date: 10/20/2020 01:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	23		SM2540B	% of sample	1	Analyst: AZ 10/27/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	7.5		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 12:27 PM
Barium	91			mg/Kg-dry	1	10/27/2020 12:27 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 12:27 PM
Chromium	14			mg/Kg-dry	1	10/27/2020 12:27 PM
Lead	12			mg/Kg-dry	1	10/27/2020 12:27 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 12:27 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 12:27 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/22/20 12:20 Analyst: RA 10/28/2020 12:50 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Acenaphthene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Anthracene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Carbazole	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Chrysene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Fluoranthene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Fluorene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Naphthalene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Phenanthrene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Pyrene	ND			µg/Kg-dry	1	10/28/2020 12:50 PM
Surr: 2-Fluorobiphenyl	51.4		30-116	%REC	1	10/28/2020 12:50 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/23/2020 01:27 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/23/2020 01:27 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/23/2020 01:27 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-10 (1-3')

Collection Date: 10/20/2020 01:50 PM

Work Order: 20100838

Lab ID: 20100838-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,1-Dichloroethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,1-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,1-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2,3-Trichlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2,3-Trichloropropane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2,4-Trichlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2,4-Trimethylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2-Dibromo-3-chloropropane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2-Dibromoethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2-Dichloroethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,2-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,3,5-Trimethylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,3-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,3-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
1,4-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
2,2-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
2-Butanone	ND		65	µg/Kg-dry	1	10/23/2020 01:27 PM
2-Chlorotoluene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
2-Hexanone	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
4-Chlorotoluene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
4-Methyl-2-pentanone	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Acetone	ND		65	µg/Kg-dry	1	10/23/2020 01:27 PM
Benzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Bromobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Bromochloromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Bromodichloromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Bromoform	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Bromomethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Carbon disulfide	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Carbon tetrachloride	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Chlorobenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Chloroethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Chloroform	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Chloromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
cis-1,2-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
cis-1,3-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Dibromochloromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Dibromomethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-10 (1-3')

Collection Date: 10/20/2020 01:50 PM

Work Order: 20100838

Lab ID: 20100838-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Ethylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Hexachlorobutadiene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Isopropylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/23/2020 01:27 PM
Methyl tert-butyl ether	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Methylene chloride	ND		26	µg/Kg-dry	1	10/23/2020 01:27 PM
Naphthalene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
n-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
n-Propylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
o-Xylene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
p-Isopropyltoluene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
sec-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Styrene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
tert-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Tetrachloroethene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Toluene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
trans-1,2-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
trans-1,3-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Trichloroethene	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Trichlorofluoromethane	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Vinyl chloride	ND		6.5	µg/Kg-dry	1	10/23/2020 01:27 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/23/2020 01:27 PM
Surr: 4-Bromofluorobenzene	99.2		62.7-159	%REC	1	10/23/2020 01:27 PM
Surr: Dibromofluoromethane	99.6		88.4-146	%REC	1	10/23/2020 01:27 PM
Surr: Toluene-d8	97.1		83-124	%REC	1	10/23/2020 01:27 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-12 (2-4')

Lab ID: 20100838-10

Collection Date: 10/20/2020 03:10 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	27		SM2540B	% of sample	1	Analyst: AZ 10/27/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	9.0		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 12:31 PM
Barium	89			mg/Kg-dry	1	10/27/2020 12:31 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 12:31 PM
Chromium	12			mg/Kg-dry	1	10/27/2020 12:31 PM
Lead	120			mg/Kg-dry	1	10/27/2020 12:31 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 12:31 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 12:31 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/22/20 16:38 Analyst: RA 10/28/2020 05:07 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Acenaphthene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Anthracene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Carbazole	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Chrysene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Fluorene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Naphthalene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Phenanthrene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Pyrene	ND			µg/Kg-dry	1	10/28/2020 05:07 PM
Surr: 2-Fluorobiphenyl	56.3		30-116	%REC	1	10/28/2020 05:07 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/23/2020 01:47 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/23/2020 01:47 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/23/2020 01:47 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-12 (2-4')

Collection Date: 10/20/2020 03:10 PM

Work Order: 20100838

Lab ID: 20100838-10

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,1-Dichloroethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,1-Dichloroethene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,1-Dichloropropene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2,3-Trichlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2,3-Trichloropropane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2,4-Trichlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2,4-Trimethylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2-Dibromo-3-chloropropane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2-Dibromoethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2-Dichlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2-Dichloroethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,2-Dichloropropane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,3,5-Trimethylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,3-Dichlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,3-Dichloropropane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
1,4-Dichlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
2,2-Dichloropropane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
2-Butanone	ND		68	µg/Kg-dry	1	10/23/2020 01:47 PM
2-Chlorotoluene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
2-Hexanone	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
4-Chlorotoluene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
4-Methyl-2-pentanone	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Acetone	ND		68	µg/Kg-dry	1	10/23/2020 01:47 PM
Benzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Bromobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Bromochloromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Bromodichloromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Bromoform	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Bromomethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Carbon disulfide	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Carbon tetrachloride	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Chlorobenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Chloroethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Chloroform	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Chloromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
cis-1,2-Dichloroethene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
cis-1,3-Dichloropropene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Dibromochloromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Dibromomethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-12 (2-4')

Collection Date: 10/20/2020 03:10 PM

Work Order: 20100838

Lab ID: 20100838-10

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Ethylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Hexachlorobutadiene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Isopropylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
m,p-Xylene	ND		14	µg/Kg-dry	1	10/23/2020 01:47 PM
Methyl tert-butyl ether	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Methylene chloride	ND		27	µg/Kg-dry	1	10/23/2020 01:47 PM
Naphthalene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
n-Butylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
n-Propylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
o-Xylene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
p-Isopropyltoluene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
sec-Butylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Styrene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
tert-Butylbenzene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Tetrachloroethene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Toluene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
trans-1,2-Dichloroethene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
trans-1,3-Dichloropropene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Trichloroethene	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Trichlorofluoromethane	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Vinyl chloride	ND		6.8	µg/Kg-dry	1	10/23/2020 01:47 PM
Xylenes, Total	ND		21	µg/Kg-dry	1	10/23/2020 01:47 PM
Surr: 4-Bromofluorobenzene	97.3		62.7-159	%REC	1	10/23/2020 01:47 PM
Surr: Dibromofluoromethane	104		88.4-146	%REC	1	10/23/2020 01:47 PM
Surr: Toluene-d8	97.5		83-124	%REC	1	10/23/2020 01:47 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-13 (1-3')

Lab ID: 20100838-11

Collection Date: 10/21/2020 09:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	18		SM2540B	% of sample	1	Analyst: AZ 10/27/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	11		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 12:36 PM
Barium	67			mg/Kg-dry	1	10/27/2020 12:36 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 12:36 PM
Chromium	12			mg/Kg-dry	1	10/27/2020 12:36 PM
Lead	20			mg/Kg-dry	1	10/27/2020 12:36 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 12:36 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 12:36 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/22/20 16:38 Analyst: RA 10/28/2020 05:29 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Acenaphthene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Anthracene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Carbazole	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Chrysene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Fluoranthene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Fluorene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Naphthalene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Phenanthrene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Pyrene	ND			µg/Kg-dry	1	10/28/2020 05:29 PM
Surr: 2-Fluorobiphenyl	58.3		30-116	%REC	1	10/28/2020 05:29 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/23/2020 02:07 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/23/2020 02:07 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/23/2020 02:07 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Work Order: 20100838

Sample ID: B-13 (1-3')

Lab ID: 20100838-11

Collection Date: 10/21/2020 09:05 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,1-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,1-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,1-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2,3-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2,3-Trichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2,4-Trichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2,4-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2-Dibromo-3-chloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2-Dibromoethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2-Dichloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,3,5-Trimethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,3-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,3-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
1,4-Dichlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
2,2-Dichloropropane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
2-Butanone	ND		61	µg/Kg-dry	1	10/23/2020 02:07 PM
2-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
2-Hexanone	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
4-Chlorotoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
4-Methyl-2-pentanone	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Acetone	ND		61	µg/Kg-dry	1	10/23/2020 02:07 PM
Benzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Bromobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Bromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Bromodichloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Bromoform	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Bromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Carbon disulfide	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Carbon tetrachloride	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Chlorobenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Chloroethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Chloroform	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Chloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
cis-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
cis-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Dibromochloromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Dibromomethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO, A4110001

Sample ID: B-13 (1-3')

Collection Date: 10/21/2020 09:05 AM

Work Order: 20100838

Lab ID: 20100838-11

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Ethylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Hexachlorobutadiene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Isopropylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/23/2020 02:07 PM
Methyl tert-butyl ether	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Methylene chloride	ND		24	µg/Kg-dry	1	10/23/2020 02:07 PM
Naphthalene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
n-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
n-Propylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
o-Xylene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
p-Isopropyltoluene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
sec-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Styrene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
tert-Butylbenzene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Tetrachloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Toluene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
trans-1,2-Dichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
trans-1,3-Dichloropropene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Trichloroethene	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Trichlorofluoromethane	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Vinyl chloride	ND		6.1	µg/Kg-dry	1	10/23/2020 02:07 PM
Xylenes, Total	ND		18	µg/Kg-dry	1	10/23/2020 02:07 PM
Surr: 4-Bromofluorobenzene	98.4		62.7-159	%REC	1	10/23/2020 02:07 PM
Surr: Dibromofluoromethane	102		88.4-146	%REC	1	10/23/2020 02:07 PM
Surr: Toluene-d8	96.6		83-124	%REC	1	10/23/2020 02:07 PM

Note:

ALS Environmental

Date: 29-Oct-20

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69677** Instrument ID **GC5** Method: **SW8015B**

mbk Sample ID: MBLK-69677-69677				Units: mg/Kg		Analysis Date: 10/23/2020 11:34 AM				
Client ID:		Run ID: GC5_201023A		SeqNo: 2335812		Prep Date: 10/22/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	ND	15								
TPH C10-C20	12.47	15								J
TPH C20-C34	ND	15								
Surr: Nonane	5.496	0	8.333	0	66	22.6-112	0			
Surr: Pentacosane	4.849	0	8.333	0	58.2	9.2-109	0			

lcs Sample ID: LCS-69677-69677				Units: mg/Kg		Analysis Date: 10/23/2020 11:53 AM				
Client ID:		Run ID: GC5_201023A		SeqNo: 2335813		Prep Date: 10/22/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	74.1	15	83.33	0	88.9	49.2-132	0			
Surr: Nonane	6.006	0	8.333	0	72.1	22.6-112	0			
Surr: Pentacosane	5.673	0	8.333	0	68.1	9.2-109	0			

ms Sample ID: 20100838-03BMS				Units: mg/Kg		Analysis Date: 10/23/2020 03:09 PM				
Client ID: B-14 (8-10')		Run ID: GC5_201023A		SeqNo: 2335823		Prep Date: 10/22/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	84.6	15	82.92	31.62	63.9	15.3-133	0			
Surr: Nonane	6.437	0	8.292	0	77.6	22.6-112	0			
Surr: Pentacosane	5.782	0	8.292	0	69.7	9.2-109	0			

msd Sample ID: 20100838-03BMSD				Units: mg/Kg		Analysis Date: 10/23/2020 03:28 PM				
Client ID: B-14 (8-10')		Run ID: GC5_201023A		SeqNo: 2335824		Prep Date: 10/22/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	77.01	15	83.33	31.62	54.5	15.3-133	84.6	9.39	21	
Surr: Nonane	5.75	0	8.333	0	69	22.6-112	6.437	11.3		
Surr: Pentacosane	5.492	0	8.333	0	65.9	9.2-109	5.782	5.15		

The following samples were analyzed in this batch:

20100838-01B 20100838-02B 20100838-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69700** Instrument ID **GC5** Method: **SW8015B**

mbk	Sample ID: MBLK-69700-69700					Units: mg/Kg		Analysis Date: 10/26/2020 12:17 PM		
Client ID:	Run ID: GC5_201026A				SeqNo: 2337718		Prep Date: 10/26/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Diesel (total)	ND	15								
TPH C10-C20	12.33	15								J
TPH C20-C34	ND	15								
Surr: Nonane	5.238	0	8.333	0	62.9	22.6-112	0			
Surr: Pentacosane	4.79	0	8.333	0	57.5	9.2-109	0			

lcs	Sample ID: LCS-69700-69700					Units: mg/Kg		Analysis Date: 10/26/2020 12:36 PM		
Client ID:	Run ID: GC5_201026A				SeqNo: 2337719		Prep Date: 10/26/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Diesel (total)	78.04	15	83.33	0	93.6	49.2-132	0			
Surr: Nonane	6.259	0	8.333	0	75.1	22.6-112	0			
Surr: Pentacosane	5.94	0	8.333	0	71.3	9.2-109	0			

ms	Sample ID: 20100838-05BMS					Units: mg/Kg		Analysis Date: 10/26/2020 03:15 PM		
Client ID: B-15 (6-8')	Run ID: GC5_201026A				SeqNo: 2337726		Prep Date: 10/26/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Diesel (total)	71.17	15	83.33	26.68	53.4	15.3-133	0			
Surr: Nonane	5.693	0	8.333	0	68.3	22.6-112	0			
Surr: Pentacosane	5.231	0	8.333	0	62.8	9.2-109	0			

msd	Sample ID: 20100838-05BMSD					Units: mg/Kg		Analysis Date: 10/26/2020 03:34 PM		
Client ID: B-15 (6-8')	Run ID: GC5_201026A				SeqNo: 2337727		Prep Date: 10/26/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Diesel (total)	76.07	15	83.33	26.68	59.3	15.3-133	71.17	6.66	21	
Surr: Nonane	5.783	0	8.333	0	69.4	22.6-112	5.693	1.58		
Surr: Pentacosane	5.416	0	8.333	0	65	9.2-109	5.231	3.49		

The following samples were analyzed in this batch:

20100838-04B	20100838-05B	20100838-06B
20100838-07B	20100838-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
 Work Order: 20100838
 Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69702** Instrument ID **GC3** Method: **SW8082**

mbk Sample ID: MBLK-69702-69702				Units: mg/Kg		Analysis Date: 10/26/2020 07:16 PM				
Client ID:		Run ID: GC3_201026A		SeqNo: 2338072		Prep Date: 10/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Aroclor 1262	ND	0.10								
Aroclor 1268	ND	0.10								
Surr: Decachlorobiphenyl	0.086	0	0.1	0	86	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.084	0	0.1	0	84	20.7-158	0			

lcs Sample ID: LCS-69702-69702				Units: mg/Kg		Analysis Date: 10/26/2020 07:34 PM				
Client ID:		Run ID: GC3_201026A		SeqNo: 2338073		Prep Date: 10/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.534	0.10	2	0	76.7	58.2-144	0			
Surr: Decachlorobiphenyl	0.08	0	0.1	0	80	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.086	0	0.1	0	86	20.7-158	0			

ms Sample ID: 20100886-06A				Units: mg/Kg		Analysis Date: 10/26/2020 11:48 PM				
Client ID:		Run ID: GC3_201026A		SeqNo: 2338086		Prep Date: 10/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.852	0.10	2	0	92.6	25.9-135	0			
Surr: Decachlorobiphenyl	0.094	0	0.1	0	94	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.09	0	0.1	0	90	20.7-158	0			

msd Sample ID: 20100886-06A				Units: mg/Kg		Analysis Date: 10/27/2020 12:07 AM				
Client ID:		Run ID: GC3_201026A		SeqNo: 2338087		Prep Date: 10/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.836	0.10	2	0	91.8	25.9-135	1.852	0.868	53	
Surr: Decachlorobiphenyl	0.092	0	0.1	0	92	14.9-146	0.094	2.15		
Surr: Tetrachloro-m-xylene	0.088	0	0.1	0	88	20.7-158	0.09	2.25		

The following samples were analyzed in this batch:

20100838-02B	20100838-03B	20100838-04B
20100838-05B	20100838-06B	20100838-07B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182463**Instrument ID **GC6**Method: **SW8015A**

MBLK		Sample ID: MBLK-R182463				Units: mg/Kg		Analysis Date: 10/23/2020 01:56 PM		
Client ID:		Run ID: GC6_201023A				SeqNo: 2336180		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	ND	2.0								
<i>Surr: Cyclooctane</i>	443.4	0	500	0	88.7	55-135	0			

LCS		Sample ID: TPH LCS 20-R182463				Units: mg/Kg		Analysis Date: 10/23/2020 02:47 PM		
Client ID:		Run ID: GC6_201023A				SeqNo: 2336181		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	21.68	2.0	20	0	108	57.2-164	0			
<i>Surr: Cyclooctane</i>	534.9	0	500	0	107	55-135	0			

MS		Sample ID: 20100849-05A				Units: mg/Kg		Analysis Date: 10/23/2020 03:12 PM		
Client ID:		Run ID: GC6_201023A				SeqNo: 2336182		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	17.03	2.0	20	0.1	84.6	42.3-144	0			
<i>Surr: Cyclooctane</i>	491.5	0	500	0	98.3	55-135	0			

MSD		Sample ID: 20100849-05A				Units: mg/Kg		Analysis Date: 10/23/2020 03:38 PM		
Client ID:		Run ID: GC6_201023A				SeqNo: 2336183		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	15.58	2.0	20	0.1	77.4	42.3-144	17.03	8.89	15.7	
<i>Surr: Cyclooctane</i>	482	0	500	0	96.4	55-135	491.5	1.95		

The following samples were analyzed in this batch:

20100838-01A	20100838-02A	20100838-03A
20100838-04A	20100838-05A	20100838-06A
20100838-07A	20100838-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182514** Instrument ID **GC6** Method: **SW8015A**

MBLK		Sample ID: MBLK-R182514				Units: mg/Kg		Analysis Date: 10/26/2020 03:44 PM		
Client ID:		Run ID: GC6_201026C				SeqNo: 2337504		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	ND	2.0								
Surr: Cyclooctane	462.2	0	500	0	92.4	55-135	0			

LCS		Sample ID: TPH LCS 20-R182514				Units: mg/Kg		Analysis Date: 10/26/2020 04:09 PM		
Client ID:		Run ID: GC6_201026C				SeqNo: 2337505		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	19.69	2.0	20	0	98.4	57.2-164	0			
Surr: Cyclooctane	521	0	500	0	104	55-135	0			

MS		Sample ID: 20100977-01A				Units: mg/Kg		Analysis Date: 10/26/2020 04:35 PM		
Client ID:		Run ID: GC6_201026C				SeqNo: 2337506		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	10.65	2.0	20	0.2	52.2	42.3-144	0			
Surr: Cyclooctane	439.6	0	500	0	87.9	55-135	0			

MSD		Sample ID: 20100977-01A				Units: mg/Kg		Analysis Date: 10/27/2020 08:08 AM		
Client ID:		Run ID: GC6_201026C				SeqNo: 2337527		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	11.55	2.0	20	0	57.7	42.3-144	0			
Surr: Cyclooctane	457.6	0	500	0	91.5	55-135	0			

The following samples were analyzed in this batch:

20100838-06A 20100838-07A 20100838-08A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69731** Instrument ID **HG1** Method: **SW7471A**

MBLK		Sample ID: MBLK-69731-69731				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337741		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS		Sample ID: LCS-69731-69731				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337742		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.315 0.29 1.098 0 120 70.1-161 0

MS		Sample ID: 20100838-01B MS				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID: B-9 (8-10')		Run ID: HG1_201027A				SeqNo: 2337744		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.6717 0.25 0.6865 0.006345 96.9 69-147 0

MSD		Sample ID: 20100838-01B MSD				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID: B-9 (8-10')		Run ID: HG1_201027A				SeqNo: 2337745		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7625 0.27 0.7561 0.006345 100 69-147 0.6717 12.7 20

The following samples were analyzed in this batch:

20100838-01B	20100838-02B	20100838-03B
20100838-04B	20100838-05B	20100838-06B
20100838-07B	20100838-08B	20100838-09B
20100838-10B	20100838-11B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69730**

Instrument ID **ICP3**

Method: **SW6010B**

MBLK				Sample ID: MBLK-69730-69730				Units: mg/Kg		Analysis Date: 10/27/2020 11:30 AM		
Client ID:			Run ID: ICP3_201027A			SeqNo: 2337979		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Arsenic	ND	5.0										
Barium	ND	10										
Cadmium	ND	1.0										
Chromium	ND	2.0										
Lead	ND	5.0										
Selenium	ND	3.0										
Silver	ND	1.0										

LCS				Sample ID: LCS-69730-69730				Units: mg/Kg		Analysis Date: 10/27/2020 11:35 AM	
Client ID:			Run ID: ICP3_201027A			SeqNo: 2337980		Prep Date: 10/27/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	93.07	5.0	100	0	93.1	80-120	0				
Barium	98.47	10	100	0	98.5	81.6-112	0				
Cadmium	93.17	1.0	100	0	93.2	86-114	0				
Chromium	89.16	2.0	100	0	89.2	74.6-110	0				
Lead	94.73	5.0	100	0	94.7	82.9-117	0				
Selenium	93.6	3.0	100	0	93.6	86.2-110	0				
Silver	101.6	1.0	100	0	102	77.1-118	0				

LCSD				Sample ID: LCSD-69730-69730				Units: mg/Kg		Analysis Date: 10/27/2020 11:39 AM	
Client ID:			Run ID: ICP3_201027A			SeqNo: 2337981		Prep Date: 10/27/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	94.74	5.0	100	0	94.7	80-120	93.07	1.78	20		
Barium	100.2	10	100	0	100	81.6-112	98.47	1.74	20		
Cadmium	95.45	1.0	100	0	95.4	86-114	93.17	2.42	20		
Chromium	92.76	2.0	100	0	92.8	74.6-110	89.16	3.96	20		
Lead	96.38	5.0	100	0	96.4	82.9-117	94.73	1.73	20		
Selenium	96.58	3.0	100	0	96.6	86.2-110	93.6	3.13	20		
Silver	107.1	1.0	100	0	107	77.1-118	101.6	5.27	20		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69730**

Instrument ID **ICP3**

Method: **SW6010B**

MS				Sample ID: 20100978-03B MS			Units: mg/Kg		Analysis Date: 10/27/2020 12:57 PM	
Client ID:		Run ID: ICP3_201027A			SeqNo: 2337997		Prep Date: 10/27/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	76.58	4.6	91.74	6.474	76.4	75-125	0			
Barium	104.4	9.2	91.74	40.4	69.8	75-125	0			S
Cadmium	69.25	0.92	91.74	0.252	75.2	75-125	0			
Chromium	69.96	1.8	91.74	8.755	66.7	69.3-116	0			S
Lead	68.26	4.6	91.74	6.516	67.3	69.3-107	0			S
Selenium	65.6	2.8	91.74	-2.756	74.5	75-125	0			S
Silver	75.16	0.92	91.74	0.03048	81.9	75-125	0			

MSD				Sample ID: 20100978-03B MSD			Units: mg/Kg		Analysis Date: 10/27/2020 01:01 PM	
Client ID:		Run ID: ICP3_201027A			SeqNo: 2337998		Prep Date: 10/27/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	79.33	4.7	94.52	6.474	77.1	75-125	76.58	3.53	20	
Barium	115.9	9.5	94.52	40.4	79.9	75-125	104.4	10.4	20	
Cadmium	71.94	0.95	94.52	0.252	75.8	75-125	69.25	3.81	20	
Chromium	74.42	1.9	94.52	8.755	69.5	69.3-116	69.96	6.18	20	
Lead	72.81	4.7	94.52	6.516	70.1	69.3-107	68.26	6.45	20	
Selenium	67.58	2.8	94.52	-2.756	74.4	75-125	65.6	2.98	20	S
Silver	78.19	0.95	94.52	0.03048	82.7	75-125	75.16	3.96	20	

The following samples were analyzed in this batch:

20100838-01B	20100838-02B	20100838-03B
20100838-04B	20100838-05B	20100838-06B
20100838-07B	20100838-08B	20100838-09B
20100838-10B	20100838-11B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69662** Instrument ID **SVMS2** Method: **SW8270C**

mbk		Sample ID: MBLK-69662-69662				Units: µg/Kg		Analysis Date: 10/23/2020 01:00 PM		
Client ID:		Run ID: SVMS2_201023A				SeqNo: 2337420		Prep Date: 10/22/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	200								
2-Methylnaphthalene	2.667	200								J
Acenaphthene	ND	200								
Acenaphthylene	ND	200								
Anthracene	ND	200								
Benzo(a)anthracene	ND	100								
Benzo(a)pyrene	ND	100								
Benzo(b)fluoranthene	ND	200								
Benzo(g,h,i)perylene	ND	200								
Benzo(k)fluoranthene	ND	200								
Carbazole	ND	200								
Chrysene	ND	200								
Dibenzo(a,h)anthracene	ND	100								
Dibenzofuran	ND	200								
Fluoranthene	ND	200								
Fluorene	ND	200								
Indeno(1,2,3-cd)pyrene	ND	100								
Naphthalene	ND	200								
Phenanthrene	ND	200								
Pyrene	ND	200								
<i>Surr: 2-Fluorobiphenyl</i>	<i>1965</i>	<i>0</i>	<i>3330</i>		<i>0</i>	<i>59</i>	<i>30-116</i>	<i>0</i>		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69662**

Instrument ID **SVMS2**

Method: **SW8270C**

Ics	Sample ID: LCS-69662-69662				Units: µg/Kg		Analysis Date: 10/23/2020 01:22 PM			
Client ID:		Run ID: SVMS2_201023A			SeqNo: 2337421		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2351	200	3330		0	70.6	58.3-104	0		
2-Methylnaphthalene	2494	200	3330		0	74.9	54.9-103	0		
Acenaphthene	2601	200	3330		0	78.1	52-119	0		
Acenaphthylene	2739	200	3330		0	82.3	46-118	0		
Anthracene	2529	200	3330		0	76	53.8-114	0		
Benzo(a)anthracene	2006	100	3330		0	60.2	48-121	0		
Benzo(a)pyrene	2409	100	3330		0	72.4	40.1-114	0		
Benzo(b)fluoranthene	2485	200	3330		0	74.6	44-115	0		
Benzo(g,h,i)perylene	2703	200	3330		0	81.2	41.8-122	0		
Benzo(k)fluoranthene	2435	200	3330		0	73.1	39.5-116	0		
Carbazole	2646	200	3330		0	79.5	66-102	0		
Chrysene	2016	200	3330		0	60.5	49.2-115	0		
Dibenzo(a,h)anthracene	2673	100	3330		0	80.3	41.7-123	0		
Dibenzofuran	2515	200	3330		0	75.5	60.7-100	0		
Fluoranthene	2868	200	3330		0	86.1	52.7-118	0		
Fluorene	2500	200	3330		0	75.1	51.6-109	0		
Indeno(1,2,3-cd)pyrene	2886	100	3330		0	86.7	41.1-124	0		
Naphthalene	2154	200	3330		0	64.7	42.5-103	0		
Phenanthrene	2473	200	3330		0	74.3	49.7-100	0		
Pyrene	2840	200	3330		0	85.3	50.7-109	0		
Surr: 2-Fluorobiphenyl	2410	0	3330		0	72.4	30-116	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69662**

Instrument ID **SVMS2**

Method: **SW8270C**

ms				Sample ID: 20100849-06BMS			Units: µg/Kg		Analysis Date: 10/23/2020 03:09 PM	
Client ID:		Run ID: SVMS2_201023A			SeqNo: 2337426		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2060	200	3326	0	61.9	34.7-108	0			
2-Methylnaphthalene	2176	200	3326	0	65.4	38.6-102	0			
Acenaphthene	2384	200	3326	0	71.7	44-108	0			
Acenaphthylene	2526	200	3326	0	76	43.6-110	0			
Anthracene	2385	200	3326	0	71.7	39.5-104	0			
Benzo(a)anthracene	2183	100	3326	0	65.6	47-114	0			
Benzo(a)pyrene	2393	100	3326	0	72	43.8-115	0			
Benzo(b)fluoranthene	2438	200	3326	0	73.3	40-106	0			
Benzo(g,h,i)perylene	2671	200	3326	0	80.3	38.2-110	0			
Benzo(k)fluoranthene	2437	200	3326	0	73.3	48.6-107	0			
Carbazole	2372	200	3326	0	71.3	41.9-101	0			
Chrysene	2140	200	3326	0	64.3	18.8-140	0			
Dibenzo(a,h)anthracene	2720	100	3326	0	81.8	46-116	0			
Dibenzofuran	2300	200	3326	0	69.1	42.7-98.2	0			
Fluoranthene	2564	200	3326	0	77.1	35.1-111	0			
Fluorene	2308	200	3326	0	69.4	42.8-106	0			
Indeno(1,2,3-cd)pyrene	2640	100	3326	0	79.4	33-115	0			
Naphthalene	1893	200	3326	0	56.9	18.2-126	0			
Phenanthrene	2353	200	3326	0	70.8	31.2-127	0			
Pyrene	2521	200	3326	0	75.8	33.7-129	0			
Surr: 2-Fluorobiphenyl	2358	0	3326	0	70.9	30-116	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69662** Instrument ID **SVMS2** Method: **SW8270C**

msd				Sample ID: 20100849-06BMSD			Units: µg/Kg		Analysis Date: 10/23/2020 03:31 PM		
Client ID:			Run ID: SVMS2_201023A			SeqNo: 2337427		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	2033	200	3326	0	61.1	34.7-108	2060	1.3	20		
2-Methylnaphthalene	2157	200	3326	0	64.9	38.6-102	2176	0.891	20		
Acenaphthene	2339	200	3326	0	70.3	40-108	2384	1.92	20		
Acenaphthylene	2489	200	3326	0	74.8	43.6-110	2526	1.49	20		
Anthracene	2421	200	3326	0	72.8	39.5-104	2385	1.5	24		
Benzo(a)anthracene	2111	100	3326	0	63.5	47-114	2183	3.38	21		
Benzo(a)pyrene	2439	100	3326	0	73.3	43.8-115	2393	1.9	20		
Benzo(b)fluoranthene	2581	200	3326	0	77.6	40-106	2438	5.7	20		
Benzo(g,h,i)perylene	2568	200	3326	0	77.2	38.2-110	2671	3.94	20		
Benzo(k)fluoranthene	2407	200	3326	0	72.4	48.6-107	2437	1.21	24		
Carbazole	2393	200	3326	0	72	41.9-101	2372	0.866	20		
Chrysene	2051	200	3326	0	61.7	18.8-140	2140	4.26	19		
Dibenzo(a,h)anthracene	2587	100	3326	0	77.8	46-116	2720	5.04	20		
Dibenzofuran	2243	200	3326	0	67.4	42.7-98.2	2300	2.49	20		
Fluoranthene	2601	200	3326	0	78.2	35.1-111	2564	1.44	20		
Fluorene	2227	200	3326	0	67	42.8-106	2308	3.55	20		
Indeno(1,2,3-cd)pyrene	2533	100	3326	0	76.2	33-115	2640	4.14	20		
Naphthalene	1856	200	3326	0	55.8	18.2-126	1893	1.99	20		
Phenanthrene	2480	200	3326	0	74.6	31.2-127	2353	5.26	20		
Pyrene	2477	200	3326	0	74.5	33.7-129	2521	1.76	20		
Surr: 2-Fluorobiphenyl	2269	0	3326	0	68.2	30-116	2358	3.86			

The following samples were analyzed in this batch:

20100838-01B	20100838-02B	20100838-03B
20100838-04B	20100838-05B	20100838-06B
20100838-07B	20100838-08B	20100838-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69672** Instrument ID **SVMS1** Method: **SW8270C**

mbk		Sample ID: MBLK-69672-69672				Units: µg/Kg		Analysis Date: 10/26/2020 04:54 PM		
Client ID:		Run ID: SVMS1_201026A				SeqNo: 2337841		Prep Date: 10/22/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	200								
2-Methylnaphthalene	ND	200								
Acenaphthene	ND	200								
Acenaphthylene	ND	200								
Anthracene	ND	200								
Benzo(a)anthracene	ND	100								
Benzo(a)pyrene	ND	100								
Benzo(b)fluoranthene	ND	200								
Benzo(g,h,i)perylene	ND	200								
Benzo(k)fluoranthene	ND	200								
Carbazole	ND	200								
Chrysene	ND	200								
Dibenzo(a,h)anthracene	ND	100								
Dibenzofuran	ND	200								
Fluoranthene	ND	200								
Fluorene	ND	200								
Indeno(1,2,3-cd)pyrene	ND	100								
Naphthalene	ND	200								
Phenanthrene	4	200								J
Pyrene	ND	200								
<i>Surr: 2-Fluorobiphenyl</i>	<i>2514</i>	<i>0</i>	<i>3330</i>		<i>0</i>	<i>75.5</i>	<i>30-116</i>	<i>0</i>		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69672**

Instrument ID **SVMS1**

Method: **SW8270C**

Ics				Sample ID: LCS-69672-69672				Units: µg/Kg		Analysis Date: 10/26/2020 05:13 PM	
Client ID:			Run ID: SVMS1_201026A			SeqNo: 2337842		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	2132	200	3330	0	64	58.3-104	0				
2-Methylnaphthalene	2227	200	3330	0	66.9	54.9-103	0				
Acenaphthene	2340	200	3330	0	70.3	52-119	0				
Acenaphthylene	2619	200	3330	0	78.7	46-118	0				
Anthracene	2221	200	3330	0	66.7	53.8-114	0				
Benzo(a)anthracene	2292	100	3330	0	68.8	48-121	0				
Benzo(a)pyrene	2451	100	3330	0	73.6	40.1-114	0				
Benzo(b)fluoranthene	2433	200	3330	0	73.1	44-115	0				
Benzo(g,h,i)perylene	2534	200	3330	0	76.1	41.8-122	0				
Benzo(k)fluoranthene	2397	200	3330	0	72	39.5-116	0				
Carbazole	2419	200	3330	0	72.6	66-102	0				
Chrysene	2391	200	3330	0	71.8	49.2-115	0				
Dibenzo(a,h)anthracene	2613	100	3330	0	78.5	41.7-123	0				
Dibenzofuran	2265	200	3330	0	68	60.7-100	0				
Fluoranthene	2332	200	3330	0	70	52.7-118	0				
Fluorene	2200	200	3330	0	66.1	51.6-109	0				
Indeno(1,2,3-cd)pyrene	2815	100	3330	0	84.5	41.1-124	0				
Naphthalene	2046	200	3330	0	61.4	42.5-103	0				
Phenanthrene	2323	200	3330	0	69.8	49.7-100	0				
Pyrene	2255	200	3330	0	67.7	50.7-109	0				
Surr: 2-Fluorobiphenyl	2403	0	3330	0	72.2	30-116	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69672**

Instrument ID **SVMS1**

Method: **SW8270C**

MS				Sample ID: 20100824-07BMSS			Units: µg/Kg		Analysis Date: 10/26/2020 05:33 PM		
Client ID:			Run ID: SVMS1_201026A			SeqNo: 2337843		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	2033	200	3319	0	61.2	34.7-108	0				
2-Methylnaphthalene	2132	200	3319	0	64.2	38.6-102	0				
Acenaphthene	2267	200	3319	0	68.3	44-108	0				
Acenaphthylene	2515	200	3319	0	75.8	43.6-110	0				
Anthracene	2169	200	3319	0	65.4	39.5-104	0				
Benzo(a)anthracene	2267	100	3319	0	68.3	47-114	0				
Benzo(a)pyrene	2370	100	3319	0	71.4	43.8-115	0				
Benzo(b)fluoranthene	2423	200	3319	0	73	40-106	0				
Benzo(g,h,i)perylene	2450	200	3319	0	73.8	38.2-110	0				
Benzo(k)fluoranthene	2356	200	3319	0	71	48.6-107	0				
Carbazole	2356	200	3319	0	71	41.9-101	0				
Chrysene	2352	200	3319	0	70.9	18.8-140	0				
Dibenzo(a,h)anthracene	2567	100	3319	0	77.3	46-116	0				
Dibenzofuran	2185	200	3319	0	65.8	42.7-98.2	0				
Fluoranthene	2276	200	3319	0	68.6	35.1-111	0				
Fluorene	2142	200	3319	0	64.5	42.8-106	0				
Indeno(1,2,3-cd)pyrene	2672	100	3319	0	80.5	33-115	0				
Naphthalene	1894	200	3319	0	57.1	18.2-126	0				
Phenanthrene	2279	200	3319	0	68.7	31.2-127	0				
Pyrene	2195	200	3319	0	66.1	33.7-129	0				
Surr: 2-Fluorobiphenyl	2271	0	3319	0	68.4	30-116	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **69672** Instrument ID **SVMS1** Method: **SW8270C**

MSD				Sample ID: 20100824-07BMSDD			Units: µg/Kg		Analysis Date: 10/26/2020 05:52 PM	
Client ID:		Run ID: SVMS1_201026A			SeqNo: 2337844		Prep Date: 10/22/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2098	200	3319	0	63.2	34.7-108	2033	3.18	20	
2-Methylnaphthalene	2173	200	3319	0	65.5	38.6-102	2132	1.91	20	
Acenaphthene	2276	200	3319	0	68.6	40-108	2267	0.38	20	
Acenaphthylene	2540	200	3319	0	76.5	43.6-110	2515	0.973	20	
Anthracene	2135	200	3319	0	64.3	39.5-104	2169	1.61	24	
Benzo(a)anthracene	2237	100	3319	0	67.4	47-114	2267	1.36	21	
Benzo(a)pyrene	2365	100	3319	0	71.3	43.8-115	2370	0.225	20	
Benzo(b)fluoranthene	2369	200	3319	0	71.4	40-106	2423	2.25	20	
Benzo(g,h,i)perylene	2417	200	3319	0	72.8	38.2-110	2450	1.36	20	
Benzo(k)fluoranthene	2357	200	3319	0	71	48.6-107	2356	0.028	24	
Carbazole	2328	200	3319	0	70.1	41.9-101	2356	1.22	20	
Chrysene	2322	200	3319	0	70	18.8-140	2352	1.31	19	
Dibenzo(a,h)anthracene	2510	100	3319	0	75.6	46-116	2567	2.25	20	
Dibenzofuran	2179	200	3319	0	65.6	42.7-98.2	2185	0.274	20	
Fluoranthene	2270	200	3319	0	68.4	35.1-111	2276	0.263	20	
Fluorene	2149	200	3319	0	64.7	42.8-106	2142	0.31	20	
Indeno(1,2,3-cd)pyrene	2645	100	3319	0	79.7	33-115	2672	1.05	20	
Naphthalene	1997	200	3319	0	60.2	18.2-126	1894	5.29	20	
Phenanthrene	2282	200	3319	0	68.7	31.2-127	2279	0.117	20	
Pyrene	2167	200	3319	0	65.3	33.7-129	2195	1.25	20	
<i>Surr: 2-Fluorobiphenyl</i>	2264	0	3319	0	68.2	30-116	2271	0.293		

The following samples were analyzed in this batch:

20100838-10B	20100838-11B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182391** Instrument ID **vms5** Method: **SW8260B**

mblk				Sample ID: MBLK-R182391		Units: µg/Kg		Analysis Date: 10/22/2020 08:16 PM		
Client ID:			Run ID: VMS5_201022B			SeqNo: 2334966		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: R182391		Instrument ID vms5		Method: SW8260B				
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	20						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	15						
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.48</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>62.7-159</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.87</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>88.4-146</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>49.74</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>83-124</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182391**

Instrument ID **vms5**

Method: **SW8260B**

Ics				Sample ID: LCS-R182391		Units: µg/Kg		Analysis Date: 10/22/2020 08:36 PM		
Client ID:			Run ID: VMS5_201022B			SeqNo: 2334979		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.97	5.0	50	0	99.9	53.6-149	0			
1,1-Dichloroethene	54.81	5.0	50	0	110	38.8-176	0			
1,2-Dichloroethane	50.73	5.0	50	0	101	54.4-145	0			
1,3-Dichlorobenzene	50.66	5.0	50	0	101	54.2-137	0			
1,4-Dichlorobenzene	50.12	5.0	50	0	100	52.8-135	0			
Benzene	48.63	5.0	50	0	97.3	56-148	0			
Carbon tetrachloride	52.54	5.0	50	0	105	51.9-151	0			
Chlorobenzene	50.1	5.0	50	0	100	55.4-137	0			
Chloroform	52.36	5.0	50	0	105	51.1-147	0			
cis-1,2-Dichloroethene	51.9	5.0	50	0	104	47.6-149	0			
Ethylbenzene	49.1	5.0	50	0	98.2	55.8-142	0			
m,p-Xylene	99.45	10	100	0	99.4	57.6-141	0			
Styrene	50.89	5.0	50	0	102	59.6-143	0			
Tetrachloroethene	30.64	5.0	50	0	61.3	56.2-160	0			
Toluene	50.41	5.0	50	0	101	56-143	0			
Trichloroethene	50.71	5.0	50	0	101	56.5-143	0			
Surr: 4-Bromofluorobenzene	49.83	0	50	0	99.7	62.7-159	0			
Surr: Dibromofluoromethane	50.5	0	50	0	101	88.4-146	0			
Surr: Toluene-d8	49.88	0	50	0	99.8	83-124	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182391** Instrument ID **vms5** Method: **SW8260B**

ms				Sample ID: 20100849-01A		Units: µg/Kg		Analysis Date: 10/22/2020 08:56 PM		
Client ID:		Run ID: VMS5_201022B		SeqNo: 2334980		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.8	5.0	50	0	102	66.9-140	0			
1,1-Dichloroethene	55.71	5.0	50	0	111	41.4-161	0			
1,2-Dichloroethane	51.56	5.0	50	0	103	58.9-137	0			
1,3-Dichlorobenzene	41.44	5.0	50	0	82.9	56.3-126	0			
1,4-Dichlorobenzene	40.6	5.0	50	0	81.2	58.3-122	0			
Benzene	48.76	5.0	50	0	97.5	35.8-162	0			
Carbon tetrachloride	53.82	5.0	50	0	108	53.2-137	0			
Chlorobenzene	46.28	5.0	50	0	92.6	65.6-137	0			
Chloroform	52.32	5.0	50	0	105	58-130	0			
cis-1,2-Dichloroethene	52.24	5.0	50	0	104	52.9-138	0			
Ethylbenzene	45.46	5.0	50	0	90.9	57.5-134	0			
m,p-Xylene	91.24	10	100	0	91.2	56.4-135	0			
Styrene	45.9	5.0	50	0	91.8	60.9-135	0			
Tetrachloroethene	28.5	5.0	50	0	57	52.1-160	0			
Toluene	49.1	5.0	50	0	98.2	67.7-135	0			
Trichloroethene	58.63	5.0	50	0	117	56.5-136	0			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.41</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>62.7-159</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50.31</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>88.4-146</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>49.82</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>83-124</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182391**

Instrument ID **vms5**

Method: **SW8260B**

msd					Sample ID: 20100849-01A		Units: µg/Kg		Analysis Date: 10/22/2020 09:16 PM		
Client ID:			Run ID: VMS5_201022B			SeqNo: 2334981		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	48.67	5.0	50	0	97.3	66.9-140	50.8	4.28	31.2		
1,1-Dichloroethene	52.72	5.0	50	0	105	41.4-161	55.71	5.52	38.1		
1,2-Dichloroethane	49.03	5.0	50	0	98.1	58.9-137	51.56	5.03	26.2		
1,3-Dichlorobenzene	40.12	5.0	50	0	80.2	56.3-126	41.44	3.24	21		
1,4-Dichlorobenzene	39.6	5.0	50	0	79.2	58.3-122	40.6	2.49	28.7		
Benzene	46.25	5.0	50	0	92.5	35.8-162	48.76	5.28	23.6		
Carbon tetrachloride	50.86	5.0	50	0	102	53.2-137	53.82	5.66	32.3		
Chlorobenzene	44.46	5.0	50	0	88.9	65.6-137	46.28	4.01	20		
Chloroform	49.39	5.0	50	0	98.8	58-130	52.32	5.76	28.2		
cis-1,2-Dichloroethene	49.37	5.0	50	0	98.7	52.9-138	52.24	5.65	23.7		
Ethylbenzene	44.13	5.0	50	0	88.3	57.5-134	45.46	2.97	24.9		
m,p-Xylene	88.9	10	100	0	88.9	56.4-135	91.24	2.6	25.1		
Styrene	44.24	5.0	50	0	88.5	60.9-135	45.9	3.68	22.8		
Tetrachloroethene	27.88	5.0	50	0	55.8	52.1-160	28.5	2.2	24.7		
Toluene	46.79	5.0	50	0	93.6	67.7-135	49.1	4.82	20		
Trichloroethene	55.72	5.0	50	0	111	56.5-136	58.63	5.09	20		
Surr: 4-Bromofluorobenzene	51.24	0	50	0	102	62.7-159	50.41	1.63			
Surr: Dibromofluoromethane	50.73	0	50	0	101	88.4-146	50.31	0.831			
Surr: Toluene-d8	49.94	0	50	0	99.9	83-124	49.82	0.241			

The following samples were analyzed in this batch:

20100838-01A	20100838-02A	20100838-03A
20100838-04A	20100838-05A	20100838-06A
20100838-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182490** Instrument ID **vms5** Method: **SW8260B**

mbk Sample ID: MBLK-R182490				Units: µg/Kg		Analysis Date: 10/23/2020 09:25 AM				
Client ID:		Run ID: VMS5_201023A		SeqNo: 2336984		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: R182490		Instrument ID vms5		Method: SW8260B				
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	20						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	15						
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.08</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>62.7-159</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>52.63</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>88.4-146</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>49.23</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>83-124</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182490**

Instrument ID **vms5**

Method: **SW8260B**

Ics				Sample ID: LCS-R182490				Units: µg/Kg		Analysis Date: 10/23/2020 09:45 AM	
Client ID:			Run ID: VMS5_201023A			SeqNo: 2336985		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	45.54	5.0	50	0	91.1	53.6-149	0				
1,1-Dichloroethene	49.87	5.0	50	0	99.7	38.8-176	0				
1,2-Dichloroethane	48.47	5.0	50	0	96.9	54.4-145	0				
1,3-Dichlorobenzene	46.61	5.0	50	0	93.2	54.2-137	0				
1,4-Dichlorobenzene	45.98	5.0	50	0	92	52.8-135	0				
Benzene	47.27	5.0	50	0	94.5	56-148	0				
Carbon tetrachloride	40.65	5.0	50	0	81.3	51.9-151	0				
Chlorobenzene	45.54	5.0	50	0	91.1	55.4-137	0				
Chloroform	47.87	5.0	50	0	95.7	51.1-147	0				
cis-1,2-Dichloroethene	49.28	5.0	50	0	98.6	47.6-149	0				
Ethylbenzene	46.42	5.0	50	0	92.8	55.8-142	0				
m,p-Xylene	88.93	10	100	0	88.9	57.6-141	0				
Styrene	45.29	5.0	50	0	90.6	59.6-143	0				
Tetrachloroethene	30.46	5.0	50	0	60.9	56.2-160	0				
Toluene	46.53	5.0	50	0	93.1	56-143	0				
Trichloroethene	46.78	5.0	50	0	93.6	56.5-143	0				
Surr: 4-Bromofluorobenzene	49.96	0	50	0	99.9	62.7-159	0				
Surr: Dibromofluoromethane	50.14	0	50	0	100	88.4-146	0				
Surr: Toluene-d8	49.24	0	50	0	98.5	83-124	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182490** Instrument ID **vms5** Method: **SW8260B**

ms				Sample ID: 20100830-01A		Units: µg/Kg		Analysis Date: 10/23/2020 10:05 AM		
Client ID:			Run ID: VMS5_201023A			SeqNo: 2336986		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.63	5.0	50	0	83.3	66.9-140	0			
1,1-Dichloroethene	46.14	5.0	50	0	92.3	41.4-161	0			
1,2-Dichloroethane	43.23	5.0	50	0	86.5	58.9-137	0			
1,3-Dichlorobenzene	42.27	5.0	50	0	84.5	56.3-126	0			
1,4-Dichlorobenzene	41.73	5.0	50	0	83.5	58.3-122	0			
Benzene	42.39	5.0	50	0	84.8	35.8-162	0			
Carbon tetrachloride	37.43	5.0	50	0	74.9	53.2-137	0			
Chlorobenzene	40.77	5.0	50	0	81.5	65.6-137	0			
Chloroform	43.52	5.0	50	0	87	58-130	0			
cis-1,2-Dichloroethene	43.98	5.0	50	0	88	52.9-138	0			
Ethylbenzene	41.62	5.0	50	0	83.2	57.5-134	0			
m,p-Xylene	80.47	10	100	0	80.5	56.4-135	0			
Styrene	40.17	5.0	50	0	80.3	60.9-135	0			
Tetrachloroethene	27.41	5.0	50	0	54.8	52.1-160	0			
Toluene	41.99	5.0	50	0	84	67.7-135	0			
Trichloroethene	41.68	5.0	50	0	83.4	56.5-136	0			
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	62.7-159	0			
Surr: Dibromofluoromethane	51.6	0	50	0	103	88.4-146	0			
Surr: Toluene-d8	49.43	0	50	0	98.9	83-124	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182490** Instrument ID **vms5** Method: **SW8260B**

msd					Sample ID: 20100830-01A		Units: µg/Kg		Analysis Date: 10/23/2020 10:26 AM		
Client ID:			Run ID: VMS5_201023A			SeqNo: 2336987		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	52.5	5.0	50	0	105	66.9-140	41.63	23.1	31.2		
1,1-Dichloroethene	57.38	5.0	50	0	115	41.4-161	46.14	21.7	38.1		
1,2-Dichloroethane	54.78	5.0	50	0	110	58.9-137	43.23	23.6	26.2		
1,3-Dichlorobenzene	53.04	5.0	50	0	106	56.3-126	42.27	22.6	21	R	
1,4-Dichlorobenzene	52.15	5.0	50	0	104	58.3-122	41.73	22.2	28.7		
Benzene	53.69	5.0	50	0	107	35.8-162	42.39	23.5	23.6		
Carbon tetrachloride	47.32	5.0	50	0	94.6	53.2-137	37.43	23.3	32.3		
Chlorobenzene	52.46	5.0	50	0	105	65.6-137	40.77	25.1	20	R	
Chloroform	53.53	5.0	50	0	107	58-130	43.52	20.6	28.2		
cis-1,2-Dichloroethene	54.56	5.0	50	0	109	52.9-138	43.98	21.5	23.7		
Ethylbenzene	53.24	5.0	50	0	106	57.5-134	41.62	24.5	24.9		
m,p-Xylene	102.6	10	100	0	103	56.4-135	80.47	24.2	25.1		
Styrene	51.29	5.0	50	0	103	60.9-135	40.17	24.3	22.8	R	
Tetrachloroethene	35.22	5.0	50	0	70.4	52.1-160	27.41	24.9	24.7	R	
Toluene	52.8	5.0	50	0	106	67.7-135	41.99	22.8	20	R	
Trichloroethene	53.35	5.0	50	0	107	56.5-136	41.68	24.6	20	R	
Surr: 4-Bromofluorobenzene	48.95	0	50	0	97.9	62.7-159	49.6	1.32			
Surr: Dibromofluoromethane	50.34	0	50	0	101	88.4-146	51.6	2.47			
Surr: Toluene-d8	49.5	0	50	0	99	83-124	49.43	0.142			

The following samples were analyzed in this batch:

20100838-08A	20100838-09A	20100838-10A
20100838-11A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182513** Instrument ID **vms5** Method: **SW8260B**

MBLK				Sample ID: mblk-R182513		Units: µg/Kg		Analysis Date: 10/26/2020 03:06 PM		
Client ID:			Run ID: VMS5_201026A			SeqNo: 2337529		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100838
Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: R182513		Instrument ID vms5		Method: SW8260B				
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	20						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	15						
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.22</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>62.7-159</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.8</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>88.4-146</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>48.81</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>97.6</i>	<i>83-124</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182513**

Instrument ID **vms5**

Method: **SW8260B**

Ics				Sample ID: LCS-R182513				Units: µg/Kg		Analysis Date: 10/26/2020 03:26 PM		
Client ID:			Run ID: VMS5_201026A			SeqNo: 2337481		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
1,1,1-Trichloroethane	55.47	5.0	50	0	111	53.6-149	0					
1,1-Dichloroethene	58.45	5.0	50	0	117	38.8-176	0					
1,2-Dichloroethane	58.31	5.0	50	0	117	54.4-145	0					
1,3-Dichlorobenzene	54.08	5.0	50	0	108	54.2-137	0					
1,4-Dichlorobenzene	53.75	5.0	50	0	108	52.8-135	0					
Benzene	54.87	5.0	50	0	110	56-148	0					
Carbon tetrachloride	57.91	5.0	50	0	116	51.9-151	0					
Chlorobenzene	54.03	5.0	50	0	108	55.4-137	0					
Chloroform	55.78	5.0	50	0	112	51.1-147	0					
cis-1,2-Dichloroethene	56.53	5.0	50	0	113	47.6-149	0					
Ethylbenzene	55.46	5.0	50	0	111	55.8-142	0					
m,p-Xylene	106.6	10	100	0	107	57.6-141	0					
Styrene	53.25	5.0	50	0	106	59.6-143	0					
Tetrachloroethene	37	5.0	50	0	74	56.2-160	0					
Toluene	54.36	5.0	50	0	109	56-143	0					
Trichloroethene	56.41	5.0	50	0	113	56.5-143	0					
Surr: 4-Bromofluorobenzene	49.18	0	50	0	98.4	62.7-159	0					
Surr: Dibromofluoromethane	50.55	0	50	0	101	88.4-146	0					
Surr: Toluene-d8	49.05	0	50	0	98.1	83-124	0					

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182513**

Instrument ID **vms5**

Method: **SW8260B**

ms				Sample ID: 20100838-11A			Units: µg/Kg		Analysis Date: 10/26/2020 03:47 PM	
Client ID: B-13 (1-3')				Run ID: VMS5_201026A			SeqNo: 2337482		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.97	5.0	50	0	104	66.9-140	0			
1,1-Dichloroethene	55.3	5.0	50	0	111	41.4-161	0			
1,2-Dichloroethane	52.35	5.0	50	0	105	58.9-137	0			
1,3-Dichlorobenzene	49.49	5.0	50	0	99	56.3-126	0			
1,4-Dichlorobenzene	48.2	5.0	50	0	96.4	58.3-122	0			
Benzene	50.83	5.0	50	0	102	35.8-162	0			
Carbon tetrachloride	53.47	5.0	50	0	107	53.2-137	0			
Chlorobenzene	48.53	5.0	50	0	97.1	65.6-137	0			
Chloroform	52.49	5.0	50	0	105	58-130	0			
cis-1,2-Dichloroethene	52.89	5.0	50	0	106	52.9-138	0			
Ethylbenzene	50.85	5.0	50	0	102	57.5-134	0			
m,p-Xylene	97.59	10	100	0	97.6	56.4-135	0			
Styrene	47.36	5.0	50	0	94.7	60.9-135	0			
Tetrachloroethene	34.05	5.0	50	0	68.1	52.1-160	0			
Toluene	50.04	5.0	50	0	100	67.7-135	0			
Trichloroethene	50.84	5.0	50	0	102	56.5-136	0			
Surr: 4-Bromofluorobenzene	50.11	0	50	0	100	62.7-159	0			
Surr: Dibromofluoromethane	50.9	0	50	0	102	88.4-146	0			
Surr: Toluene-d8	49.27	0	50	0	98.5	83-124	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100838

Project: EDCO, A4110001

QC BATCH REPORT

Batch ID: **R182513**

Instrument ID **vms5**

Method: **SW8260B**

msd					Sample ID: 20100838-11A		Units: µg/Kg		Analysis Date: 10/26/2020 04:07 PM		
Client ID: B-13 (1-3')			Run ID: VMS5_201026A			SeqNo: 2337483		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	48.69	5.0	50	0	97.4	66.9-140	51.97	6.52	31.2		
1,1-Dichloroethene	52.77	5.0	50	0	106	41.4-161	55.3	4.68	38.1		
1,2-Dichloroethane	49.95	5.0	50	0	99.9	58.9-137	52.35	4.69	26.2		
1,3-Dichlorobenzene	43.64	5.0	50	0	87.3	56.3-126	49.49	12.6	21		
1,4-Dichlorobenzene	42.75	5.0	50	0	85.5	58.3-122	48.2	12	28.7		
Benzene	48	5.0	50	0	96	35.8-162	50.83	5.73	23.6		
Carbon tetrachloride	50.09	5.0	50	0	100	53.2-137	53.47	6.53	32.3		
Chlorobenzene	44.82	5.0	50	0	89.6	65.6-137	48.53	7.95	20		
Chloroform	49.68	5.0	50	0	99.4	58-130	52.49	5.5	28.2		
cis-1,2-Dichloroethene	50.56	5.0	50	0	101	52.9-138	52.89	4.5	23.7		
Ethylbenzene	46.63	5.0	50	0	93.3	57.5-134	50.85	8.66	24.9		
m,p-Xylene	89.97	10	100	0	90	56.4-135	97.59	8.13	25.1		
Styrene	43.36	5.0	50	0	86.7	60.9-135	47.36	8.82	22.8		
Tetrachloroethene	30.8	5.0	50	0	61.6	52.1-160	34.05	10	24.7		
Toluene	46.93	5.0	50	0	93.9	67.7-135	50.04	6.41	20		
Trichloroethene	46.79	5.0	50	0	93.6	56.5-136	50.84	8.3	20		
Surr: 4-Bromofluorobenzene	49.6	0	50	0	99.2	62.7-159	50.11	1.02			
Surr: Dibromofluoromethane	51.1	0	50	0	102	88.4-146	50.9	0.392			
Surr: Toluene-d8	49.6	0	50	0	99.2	83-124	49.27	0.668			

The following samples were analyzed in this batch:

20100838-11A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Project: EDCO, A4110001
WorkOrder: 20100838

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg-dry	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: **MANNIK&SMITH-COLUMBUS**

Date/Time Received: **21-Oct-20 14:23**

Work Order: **20100838**

Received by: **SRM**

Checklist completed by **Danielle Strasinger**

22-Oct-20

Reviewed by: **Rob Nieman**

23-Oct-20

eSignature

Date

eSignature

Date

Matrices:

Carrier name: **Courier**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.9

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Ship To: **ALS Environmental**
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242
Phone: (513) 733-5336
Fax: (513) 733-5347

Field Chain-of-Custody Record

Page ____ of ____

37453

20100838

☒ REGULAR Status	☐ RUSH Status	RESULTS REQUIRED BY: (Date) _____
OH VAP: ☒ YES ☐ NO		CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
		BUSTR: ☐ YES ☐ NO

Date: 10-20-20 Purchase Order No.: _____

Company Name: The Mannik + Smith Group Project No.: A4110001

Address: 1160 Dublin Rd Sampling Site: EDCO
Columbus OH 43215

City State Zip

Person to Contact: John Thornburg Billing Address (if different): _____

Email Address: thornburg@manniksmithgroup.com

Telephone 614: 425-7202

Alternate Contact: Larry Smith 614 314-7792

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED									
01	B-9 (2-10')	10/19/20	1245	9	S	2	1									
02	B-14 (0-2')	10/19/20	1515	9	S	2	1	1								
03	B-14 (2-10')	10/19/20	1530	9	S	2	1	1								
04	B-15 (0-2')	10/19/20	1550	9	S	2	1	1								
05	B-15 (6-8')	10/19/20	1600	9	S	2	1	1								
06	B-16 (0-2')	10/20/20	0840	9	S	2	1	1								
07	B-16 (2-4')	10/20/20	0845	9	S	2	1	1								
08	B-11 (2-10')	10/20/20	1145	9	S	2	1		1							
09	B-10 (1-3')	10/20/20	1350	9	S	2				1	1					
10	B-12 (2-4')	10/20/20	1510	9	S	2					1	1				

Notes:

Preservation Key: 1 - HCl 2 - HNO₃ 3 - H₂SO₄ 4 - NaOH 5 - Na₂S₂O₈ 6 - NaHSO₄ 7 - NaOH/ZnAcetate 8 - Other 9 - 4°C

Matrix Key: A - Air B - Bulk S - Soil W - Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>10/20/20 0905</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>0925 10/21/20</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>10/21/20 1420</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>10/21/20 1423</u>
Relinquished By: (Signature) _____	Time / Date _____	Received By: (Signature) _____	Time / Date _____

ALS LAB USE ONLY <u>IR#</u>			
COOLER TEMP: <u>3.9°C</u>	PH ADJUSTMENTS: <u>119059</u>		
COOLING METHOD: NONE <u>COOLER</u> WET ICE DRY ICE ICE PACK			
DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS			
STD MAIL PRY MAIL ALS COURIER OTHER:			
CUSTODY SEALS: NONE <u>COOLER</u> PACKAGE SAMPLES			
EQUIP. RETURNED:			

Ship To: **ALS Environmental**
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242

Phone: **(513) 733-5336**

Fax: **(513) 733-5347**

Field Chain-of-Custody Record

Page 2 of 2 37454

20100838

Date: 10/24/20 Purchase Order No.:
Company Name: The Mannitz & Smith Group Project No.: A4110001
Address: 1160 Dublin Rd Sampling Site: EPCO
Columbus OH 43215
City State Zip
Person to Contact: John Thornburg Billing Address (if different):
Email Address: jthornburg@mennitzsmithgroup.com
Telephone (614): 425-7202
Alternate Contact: Larry Smith 614 314-7798
ALS Lab ID:

☒ REGULAR Status	☐ RUSH Status	RESULTS REQUIRED BY: (Date) _____
CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES		
OH VAP: ☒ YES	☐ NO	BUSTR: ☐ YES ☐ NO

ANALYSIS REQUESTED

ALS Lab ID	Sample ID / Description	Date	Time
11	B-13 (1-3-)	10/24/20	0905

[illegible]

Notes:

Preservation Key: 1 - HCl 2 - HNO₃ 3 - H₂SO₄ 4 - NaOH 5 - Na₂S₂O₃ 6 - NaHSO₄ 7 - NaOH/ZnAcetate 8 - Other 9 - 4°C

Matrix Key: A - Air B - Bulk S - Soil W - Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.			
Relinquished By: (Signature)	Time / Date	Received By: (Signature)	Time / Date
Relinquished By: (Signature)	Time / Date	Received By: (Signature)	Time / Date
Relinquished By: (Signature)	Time / Date	Received By: (Signature)	Time / Date

ALS LAB USE ONLY

COOLER TEMP:		°C		pH ADJUSTMENTS:			
COOLING METHOD:		NONE	COOLER	WET ICE	DRY ICE	ICE PACK	
DELIVERY METHOD:		CLIENT	DROP BOX		FEDEX	UPS	
STD MAIL		PRTY MAIL	ALS	COURIER	OTHER:		
CUSTODY SEALS:		NONE	COOLER	PACKAGE	SAMPLES		
EQUIP. RETURNED:							



05-Nov-2020

John Thornburg
The Mannik&Smith Group, Inc.
1160 Dublin Road
Suite 100
Columbus, OH 43215

Re: **EDCO; A4110001**

Work Order: **20100978**

Dear John,

ALS Environmental received 10 samples on 23-Oct-2020 04:50 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 61.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



09-Nov-2020

John Thornburg
The Mannik&Smith Group, Inc.
1160 Dublin Road
Suite 100
Columbus, OH 43215

Re: **EDCO Phase II, A4110001**

Work Order: **20110020**

Dear John,

ALS Environmental received 9 samples on 02-Nov-2020 12:20 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: The Mannik&Smith Group, Inc.
Project: EDCO Phase II, A4110001
Work Order: 20110020

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20110020-01	MW-16	Water		10/30/2020 09:25	11/2/2020 12:20	☐
20110020-02	MW-8	Water		10/30/2020 10:05	11/2/2020 12:20	☐
20110020-03	MW-8D	Water		10/30/2020 10:05	11/2/2020 12:20	☐
20110020-04	MW-11	Water		10/30/2020 10:50	11/2/2020 12:20	☐
20110020-05	MW-6	Water		10/30/2020 11:10	11/2/2020 12:20	☐
20110020-06	MW-10	Water		10/30/2020 11:35	11/2/2020 12:20	☐
20110020-07	MW-9	Water		10/30/2020 12:20	11/2/2020 12:20	☐
20110020-08	MW-12	Water		10/30/2020 12:40	11/2/2020 12:20	☐
20110020-09	MW-13	Water		10/30/2020 13:05	11/2/2020 12:20	☐

Client: The Mannik&Smith Group, Inc.
Project: EDCO Phase II, A4110001
Work Order: 20110020

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Affidavits are available upon request.

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Samples for dissolved metals have been filtered. The samples were then prepared and analyzed for metals.

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-16

Collection Date: 10/30/2020 09:25 AM

Work Order: 20110020

Lab ID: 20110020-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	0.011		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:33 PM
Barium	0.25		0.10	mg/L	1	11/5/2020 04:33 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:33 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:33 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:33 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:33 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:33 PM
PAH COMPOUNDS						
1-Methylnaphthalene	4.6		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 04:05 PM
2-Methylnaphthalene	1.2		0.20	µg/L	1	11/4/2020 04:05 PM
Acenaphthene	0.33		0.20	µg/L	1	11/4/2020 04:05 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Benzo(a)pyrene	0.16		0.15	µg/L	1	11/4/2020 04:05 PM
Benzo(b)fluoranthene	0.16		0.15	µg/L	1	11/4/2020 04:05 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Dibenzo(a,h)anthracene	0.15		0.050	µg/L	1	11/4/2020 04:05 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Fluorene	0.20		0.20	µg/L	1	11/4/2020 04:05 PM
Indeno(1,2,3-cd)pyrene	0.16		0.15	µg/L	1	11/4/2020 04:05 PM
Naphthalene	0.56		0.20	µg/L	1	11/4/2020 04:05 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 04:05 PM
Surr: 2-Fluorobiphenyl	75.3		21.6-144	%REC	1	11/4/2020 04:05 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 04:47 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-16

Collection Date: 10/30/2020 09:25 AM

Work Order: 20110020

Lab ID: 20110020-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 04:47 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 04:47 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Acetone	ND		50	µg/L	1	11/3/2020 04:47 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-16

Collection Date: 10/30/2020 09:25 AM

Work Order: 20110020

Lab ID: 20110020-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 04:47 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 04:47 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 04:47 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 04:47 PM
Surr: 4-Bromofluorobenzene	102		61-131	%REC	1	11/3/2020 04:47 PM
Surr: Dibromofluoromethane	103		87-126	%REC	1	11/3/2020 04:47 PM
Surr: Toluene-d8	99.1		83.8-111	%REC	1	11/3/2020 04:47 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	0.012		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:37 PM
Barium	ND		0.10	mg/L	1	11/5/2020 04:37 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:37 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:37 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:37 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:37 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:37 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 04:23 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 04:23 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 04:23 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 04:23 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 04:23 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 04:23 PM
Surr: 2-Fluorobiphenyl	50.5		21.6-144	%REC	1	11/4/2020 04:23 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 05:10 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 05:10 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 05:10 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Acetone	ND		50	µg/L	1	11/3/2020 05:10 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 05:10 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 05:10 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 05:10 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 05:10 PM
Surr: 4-Bromofluorobenzene	103		61-131	%REC	1	11/3/2020 05:10 PM
Surr: Dibromofluoromethane	102		87-126	%REC	1	11/3/2020 05:10 PM
Surr: Toluene-d8	99.6		83.8-111	%REC	1	11/3/2020 05:10 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8D

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:41 PM
Barium	0.10		0.10	mg/L	1	11/5/2020 04:41 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:41 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:41 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:41 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:41 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:41 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 04:40 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 04:40 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 04:40 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 04:40 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 04:40 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 04:40 PM
Surr: 2-Fluorobiphenyl	63.2		21.6-144	%REC	1	11/4/2020 04:40 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 05:32 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8D

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 05:32 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 05:32 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Acetone	ND		50	µg/L	1	11/3/2020 05:32 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-8D

Collection Date: 10/30/2020 10:05 AM

Work Order: 20110020

Lab ID: 20110020-03

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 05:32 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 05:32 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 05:32 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 05:32 PM
Surr: 4-Bromofluorobenzene	100		61-131	%REC	1	11/3/2020 05:32 PM
Surr: Dibromofluoromethane	99.5		87-126	%REC	1	11/3/2020 05:32 PM
Surr: Toluene-d8	99.9		83.8-111	%REC	1	11/3/2020 05:32 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-11

Collection Date: 10/30/2020 10:50 AM

Work Order: 20110020

Lab ID: 20110020-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:46 PM
Barium	ND		0.10	mg/L	1	11/5/2020 04:46 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:46 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:46 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:46 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:46 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:46 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 04:57 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 04:57 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 04:57 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 04:57 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 04:57 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 04:57 PM
Surr: 2-Fluorobiphenyl	74.7		21.6-144	%REC	1	11/4/2020 04:57 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L		Analyst: TJH 11/3/2020 05:55 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-11

Collection Date: 10/30/2020 10:50 AM

Work Order: 20110020

Lab ID: 20110020-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 05:55 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 05:55 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Acetone	ND		50	µg/L	1	11/3/2020 05:55 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-11

Collection Date: 10/30/2020 10:50 AM

Work Order: 20110020

Lab ID: 20110020-04

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 05:55 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 05:55 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 05:55 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 05:55 PM
Surr: 4-Bromofluorobenzene	102		61-131	%REC	1	11/3/2020 05:55 PM
Surr: Dibromofluoromethane	102		87-126	%REC	1	11/3/2020 05:55 PM
Surr: Toluene-d8	99.3		83.8-111	%REC	1	11/3/2020 05:55 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-6

Collection Date: 10/30/2020 11:10 AM

Work Order: 20110020

Lab ID: 20110020-05

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:50 PM
Barium	ND		0.10	mg/L	1	11/5/2020 04:50 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:50 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:50 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:50 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:50 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:50 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 05:14 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 05:14 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 05:14 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 05:14 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 05:14 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 05:14 PM
Surr: 2-Fluorobiphenyl	66.8		21.6-144	%REC	1	11/4/2020 05:14 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 06:17 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.**Project:** EDCO Phase II, A4110001**Work Order:** 20110020**Sample ID:** MW-6**Lab ID:** 20110020-05**Collection Date:** 10/30/2020 11:10 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 06:17 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 06:17 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Acetone	ND		50	µg/L	1	11/3/2020 06:17 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-6

Collection Date: 10/30/2020 11:10 AM

Work Order: 20110020

Lab ID: 20110020-05

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 06:17 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 06:17 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 06:17 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 06:17 PM
Surr: 4-Bromofluorobenzene	102		61-131	%REC	1	11/3/2020 06:17 PM
Surr: Dibromofluoromethane	93.8		87-126	%REC	1	11/3/2020 06:17 PM
Surr: Toluene-d8	103		83.8-111	%REC	1	11/3/2020 06:17 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-10

Collection Date: 10/30/2020 11:35 AM

Work Order: 20110020

Lab ID: 20110020-06

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:54 PM
Barium	ND		0.10	mg/L	1	11/5/2020 04:54 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:54 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:54 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:54 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:54 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:54 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 05:31 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 05:31 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 05:31 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 05:31 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 05:31 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 05:31 PM
Surr: 2-Fluorobiphenyl	76.9		21.6-144	%REC	1	11/4/2020 05:31 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 06:40 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-10

Collection Date: 10/30/2020 11:35 AM

Work Order: 20110020

Lab ID: 20110020-06

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 06:40 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 06:40 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Acetone	ND		50	µg/L	1	11/3/2020 06:40 PM
Benzene	5.1		5.0	µg/L	1	11/3/2020 06:40 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-10

Collection Date: 10/30/2020 11:35 AM

Work Order: 20110020

Lab ID: 20110020-06

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 06:40 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 06:40 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 06:40 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 06:40 PM
Surr: 4-Bromofluorobenzene	101		61-131	%REC	1	11/3/2020 06:40 PM
Surr: Dibromofluoromethane	98.2		87-126	%REC	1	11/3/2020 06:40 PM
Surr: Toluene-d8	102		83.8-111	%REC	1	11/3/2020 06:40 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-9

Collection Date: 10/30/2020 12:20 PM

Work Order: 20110020

Lab ID: 20110020-07

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 04:59 PM
Barium	ND		0.10	mg/L	1	11/5/2020 04:59 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 04:59 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 04:59 PM
Lead	ND		0.015	mg/L	1	11/5/2020 04:59 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 04:59 PM
Silver	ND		0.010	mg/L	1	11/5/2020 04:59 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 05:49 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 05:49 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 05:49 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 05:49 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 05:49 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 05:49 PM
Surr: 2-Fluorobiphenyl	72.3		21.6-144	%REC	1	11/4/2020 05:49 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L	1	Analyst: TJH 11/3/2020 07:02 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-9

Collection Date: 10/30/2020 12:20 PM

Work Order: 20110020

Lab ID: 20110020-07

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 07:02 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 07:02 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Acetone	ND		50	µg/L	1	11/3/2020 07:02 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-9

Collection Date: 10/30/2020 12:20 PM

Work Order: 20110020

Lab ID: 20110020-07

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 07:02 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 07:02 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 07:02 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 07:02 PM
Surr: 4-Bromofluorobenzene	101		61-131	%REC	1	11/3/2020 07:02 PM
Surr: Dibromofluoromethane	100		87-126	%REC	1	11/3/2020 07:02 PM
Surr: Toluene-d8	96.2		83.8-111	%REC	1	11/3/2020 07:02 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-12

Collection Date: 10/30/2020 12:40 PM

Work Order: 20110020

Lab ID: 20110020-08

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 05:12 PM
Barium	ND		0.10	mg/L	1	11/5/2020 05:12 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 05:12 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 05:12 PM
Lead	ND		0.015	mg/L	1	11/5/2020 05:12 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 05:12 PM
Silver	ND		0.010	mg/L	1	11/5/2020 05:12 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C 0.20	µg/L	Prep: SW3510C 11/4/20 14:31 1	Analyst: RA 11/4/2020 06:06 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 06:06 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 06:06 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 06:06 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 06:06 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 06:06 PM
Surr: 2-Fluorobiphenyl	72.6		21.6-144	%REC	1	11/4/2020 06:06 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B 5.0	µg/L		Analyst: TJH 11/3/2020 07:25 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-12

Collection Date: 10/30/2020 12:40 PM

Work Order: 20110020

Lab ID: 20110020-08

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 07:25 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 07:25 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Acetone	ND		50	µg/L	1	11/3/2020 07:25 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-12

Collection Date: 10/30/2020 12:40 PM

Work Order: 20110020

Lab ID: 20110020-08

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 07:25 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 07:25 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 07:25 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 07:25 PM
Surr: 4-Bromofluorobenzene	103		61-131	%REC	1	11/3/2020 07:25 PM
Surr: Dibromofluoromethane	100		87-126	%REC	1	11/3/2020 07:25 PM
Surr: Toluene-d8	102		83.8-111	%REC	1	11/3/2020 07:25 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-13

Collection Date: 10/30/2020 01:05 PM

Work Order: 20110020

Lab ID: 20110020-09

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA (DISSOLVED)						
Mercury	ND		SW7470A 0.20	µg/L	Prep: SW7470A 11/5/20 13:43 1	Analyst: SLT 11/6/2020
METALS BY ICP (DISSOLVED)						
Arsenic	ND		SW6010B 0.010	mg/L	Prep: SW3010A 11/5/20 13:40 1	Analyst: AZ 11/5/2020 05:16 PM
Barium	0.12		0.10	mg/L	1	11/5/2020 05:16 PM
Cadmium	ND		0.0050	mg/L	1	11/5/2020 05:16 PM
Chromium	ND		0.020	mg/L	1	11/5/2020 05:16 PM
Lead	ND		0.015	mg/L	1	11/5/2020 05:16 PM
Selenium	ND		0.030	mg/L	1	11/5/2020 05:16 PM
Silver	ND		0.010	mg/L	1	11/5/2020 05:16 PM
PAH COMPOUNDS						
			SW8270C		Prep: SW3510C 11/4/20 14:31	Analyst: RA
1-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
2-Methylnaphthalene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Acenaphthene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Acenaphthylene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Anthracene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Benzo(a)anthracene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Benzo(a)pyrene	ND		0.15	µg/L	1	11/4/2020 06:23 PM
Benzo(b)fluoranthene	ND		0.15	µg/L	1	11/4/2020 06:23 PM
Benzo(g,h,i)perylene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Benzo(k)fluoranthene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Carbazole	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Chrysene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Dibenzo(a,h)anthracene	ND		0.050	µg/L	1	11/4/2020 06:23 PM
Dibenzofuran	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Fluoranthene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Fluorene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Indeno(1,2,3-cd)pyrene	ND		0.15	µg/L	1	11/4/2020 06:23 PM
Naphthalene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Phenanthrene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Pyrene	ND		0.20	µg/L	1	11/4/2020 06:23 PM
Surr: 2-Fluorobiphenyl	75.6		21.6-144	%REC	1	11/4/2020 06:23 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260B			Analyst: TJH
1,1,1,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,1,1-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.**Project:** EDCO Phase II, A4110001**Work Order:** 20110020**Sample ID:** MW-13**Lab ID:** 20110020-09**Collection Date:** 10/30/2020 01:05 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2,3-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2,3-Trichloropropane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2,4-Trichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2,4-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2-Dibromo-3-chloropropane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,3,5-Trimethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,3-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,3-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
1,4-Dichlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
2,2-Dichloropropane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
2-Butanone	ND		50	µg/L	1	11/3/2020 07:48 PM
2-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
2-Hexanone	ND		5.0	µg/L	1	11/3/2020 07:48 PM
4-Chlorotoluene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Acetone	ND		50	µg/L	1	11/3/2020 07:48 PM
Benzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Bromobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Bromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Bromodichloromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Bromoform	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Bromomethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Carbon disulfide	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Carbon tetrachloride	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Chlorobenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Chloroethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Chloroform	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Chloromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Dibromochloromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Dibromomethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Ethylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO Phase II, A4110001

Sample ID: MW-13

Collection Date: 10/30/2020 01:05 PM

Work Order: 20110020

Lab ID: 20110020-09

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Hexachlorobutadiene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Isopropylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
m,p-Xylene	ND		10	µg/L	1	11/3/2020 07:48 PM
Methyl tert-butyl ether	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Methylene chloride	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Naphthalene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
n-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
n-Propylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
o-Xylene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
p-Isopropyltoluene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
sec-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Styrene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
tert-Butylbenzene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Tetrachloroethene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Toluene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Trichloroethene	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	11/3/2020 07:48 PM
Vinyl chloride	ND		2.0	µg/L	1	11/3/2020 07:48 PM
Xylenes, Total	ND		15	µg/L	1	11/3/2020 07:48 PM
Surr: 4-Bromofluorobenzene	99.5		61-131	%REC	1	11/3/2020 07:48 PM
Surr: Dibromofluoromethane	100		87-126	%REC	1	11/3/2020 07:48 PM
Surr: Toluene-d8	99.0		83.8-111	%REC	1	11/3/2020 07:48 PM

Note:

ALS Environmental

Date: 09-Nov-20

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **69985** Instrument ID **HG1** Method: **SW7470A** (Dissolve)

MBLK				Sample ID: MBLK-69985-69985				Units: µg/L		Analysis Date: 11/6/2020		
Client ID:			Run ID: HG1_201106A			SeqNo: 2346019		Prep Date: 11/5/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Mercury	ND	0.20										

LCS				Sample ID: LCS-69985-69985				Units: µg/L		Analysis Date: 11/6/2020		
Client ID:			Run ID: HG1_201106A			SeqNo: 2346020		Prep Date: 11/5/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Mercury	4.68	0.20	5	0	93.6	80-120	0					

LCSD				Sample ID: LCSD-69985-69985				Units: µg/L		Analysis Date: 11/6/2020		
Client ID:			Run ID: HG1_201106A				SeqNo: 2346032		Prep Date: 11/5/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Mercury	4.93	0.20	5	0	98.6	80-120	4.68	5.2	20			

MS				Sample ID: 20110020-03C MS				Units: µg/L		Analysis Date: 11/6/2020		
Client ID: MW-8D				Run ID: HG1_201106A				SeqNo: 2346024		Prep Date: 11/5/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Mercury	4.7	0.20	5	0	94	75-125	0					

MSD				Sample ID: 20110020-03C MSD				Units: µg/L		Analysis Date: 11/6/2020			
Client ID: MW-8D				Run ID: HG1_201106A				SeqNo: 2346025		Prep Date: 11/5/2020		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Mercury		4.83	0.20	5	0	96.6	75-125	4.7	2.73	20			

The following samples were analyzed in this batch:

20110020-01C	20110020-02C	20110020-03C
20110020-04C	20110020-05C	20110020-06C
20110020-07C	20110020-08C	20110020-09C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **69984** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

MBLK Sample ID: MBLK-69984-69984				Units: mg/L		Analysis Date: 11/5/2020 04:20 PM				
Client ID:		Run ID: ICP3_201105B		SeqNo: 2345844		Prep Date: 11/5/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.010								
Barium	0.02203	0.10								J
Cadmium	ND	0.0050								
Chromium	ND	0.010								
Lead	ND	0.015								
Selenium	ND	0.030								
Silver	ND	0.010								

LCS Sample ID: LCS-69984-69984				Units: mg/L		Analysis Date: 11/5/2020 04:25 PM				
Client ID:		Run ID: ICP3_201105B		SeqNo: 2345845		Prep Date: 11/5/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.9972	0.010	1.1	0	90.6	80-120	0			
Barium	1.083	0.10	1.1	0	98.5	80-120	0			
Cadmium	1.026	0.0050	1.1	0	93.3	80-120	0			
Chromium	0.9878	0.010	1.1	0	89.8	80-120	0			
Lead	1.011	0.015	1.1	0	91.9	80-120	0			
Selenium	1.008	0.030	1.1	0	91.6	80-120	0			
Silver	1.082	0.010	1.1	0	98.3	80-120	0			

LCSD Sample ID: LCSD-69984-69984				Units: mg/L		Analysis Date: 11/5/2020 04:29 PM				
Client ID:		Run ID: ICP3_201105B		SeqNo: 2345846		Prep Date: 11/5/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.021	0.010	1.1	0	92.8	80-120	0.9972	2.33	20	
Barium	1.132	0.10	1.1	0	103	80-120	1.083	4.38	20	
Cadmium	1.053	0.0050	1.1	0	95.8	80-120	1.026	2.61	20	
Chromium	1.019	0.010	1.1	0	92.6	80-120	0.9878	3.11	20	
Lead	1.032	0.015	1.1	0	93.8	80-120	1.011	2.05	20	
Selenium	1.029	0.030	1.1	0	93.5	80-120	1.008	2.04	20	
Silver	1.124	0.010	1.1	0	102	80-120	1.082	3.87	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **69984** Instrument ID **ICP3** Method: **SW6010B** (Dissolve)

MS				Sample ID: 20110020-09C MS		Units: mg/L		Analysis Date: 11/5/2020 05:20 PM		
Client ID: MW-13				Run ID: ICP3_201105B		SeqNo: 2345856		Prep Date: 11/5/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.026	0.010	1.1	0.003873	92.9	75-125	0			
Barium	1.154	0.10	1.1	0.1228	93.7	75-125	0			
Cadmium	1.033	0.0050	1.1	0.001309	93.8	75-125	0			
Chromium	0.9742	0.010	1.1	0.002223	88.4	75-125	0			
Lead	0.9486	0.015	1.1	0.000671	86.2	75-125	0			
Selenium	1.024	0.030	1.1	0.0045	92.7	75-125	0			
Silver	1.081	0.010	1.1	0.000693	98.2	75-125	0			

MSD				Sample ID: 20110020-09C MSD		Units: mg/L		Analysis Date: 11/5/2020 05:24 PM		
Client ID: MW-13				Run ID: ICP3_201105B		SeqNo: 2345857		Prep Date: 11/5/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.033	0.010	1.1	0.003873	93.5	75-125	1.026	0.62	20	
Barium	1.192	0.10	1.1	0.1228	97.2	75-125	1.154	3.28	20	
Cadmium	1.042	0.0050	1.1	0.001309	94.6	75-125	1.033	0.848	20	
Chromium	0.9886	0.010	1.1	0.002223	89.7	75-125	0.9742	1.47	20	
Lead	0.9606	0.015	1.1	0.000671	87.3	75-125	0.9486	1.26	20	
Selenium	1.033	0.030	1.1	0.0045	93.5	75-125	1.024	0.909	20	
Silver	1.119	0.010	1.1	0.000693	102	75-125	1.081	3.4	20	

The following samples were analyzed in this batch:

20110020-01C	20110020-02C	20110020-03C
20110020-04C	20110020-05C	20110020-06C
20110020-07C	20110020-08C	20110020-09C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **69957** Instrument ID **SVMS3** Method: **SW8270C**

mbk		Sample ID: MBLK-69957-69957				Units: µg/L		Analysis Date: 11/4/2020 03:14 PM		
Client ID:		Run ID: SVMS3_201104A				SeqNo: 2345250		Prep Date: 11/4/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Anthracene	ND	0.20								
Benzo(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.15								
Benzo(b)fluoranthene	ND	0.15								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Carbazole	ND	0.20								
Chrysene	ND	0.20								
Dibenzo(a,h)anthracene	ND	0.050								
Dibenzofuran	ND	0.20								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.15								
Naphthalene	ND	0.20								
Phenanthrene	ND	0.20								
Pyrene	ND	0.20								
<i>Surr: 2-Fluorobiphenyl</i>	3.934	0	5	0	78.7	21.6-144	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **69957** Instrument ID **SVMS3** Method: **SW8270C**

Ics				Sample ID: LCS-69957-69957			Units: µg/L		Analysis Date: 11/4/2020 03:31 PM		
Client ID:			Run ID: SVMS3_201104A			SeqNo: 2345251		Prep Date: 11/4/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	3.693	0.20	5	0	73.9	42-103	0				
Acenaphthylene	4.08	0.20	5	0	81.6	39.6-123	0				
Anthracene	4.103	0.20	5	0	82.1	54-112	0				
Benzo(a)anthracene	3.441	0.20	5	0	68.8	49-128	0				
Benzo(a)pyrene	3.719	0.15	5	0	74.4	52.2-128	0				
Benzo(b)fluoranthene	3.798	0.15	5	0	76	41.4-95.1	0				
Benzo(g,h,i)perylene	3.461	0.20	5	0	69.2	41.5-127	0				
Benzo(k)fluoranthene	4.026	0.20	5	0	80.5	47-118	0				
Chrysene	3.4	0.20	5	0	68	51.1-125	0				
Dibenzo(a,h)anthracene	3.562	0.050	5	0	71.2	42.8-124	0				
Fluoranthene	3.666	0.20	5	0	73.3	52.9-111	0				
Fluorene	4.112	0.20	5	0	82.2	45.2-104	0				
Indeno(1,2,3-cd)pyrene	3.749	0.15	5	0	75	46.1-121	0				
Naphthalene	3.387	0.20	5	0	67.7	30.6-98.6	0				
Phenanthrene	3.82	0.20	5	0	76.4	50.7-111	0				
Pyrene	3.697	0.20	5	0	73.9	51-129	0				
Surr: 2-Fluorobiphenyl	3.862	0	5	0	77.2	21.6-144	0				

The following samples were analyzed in this batch:

20110020-01B	20110020-02B	20110020-03B
20110020-04B	20110020-05B	20110020-06B
20110020-07B	20110020-08B	20110020-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **R182838** Instrument ID **VMS1** Method: **SW8260B**

MBLK				Sample ID: BLK-R182838			Units: µg/L		Analysis Date: 11/3/2020 11:08 AM		
Client ID:			Run ID: VMS1_201103A			SeqNo: 2343760		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chlorotoluene	ND	5.0									
2-Hexanone	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Methyl-2-pentanone	ND	5.0									
Acetone	ND	50									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromochloromethane	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: R182838		Instrument ID VMS1		Method: SW8260B				
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	5.0						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
<i>Surr: 4-Bromofluorobenzene</i>	<i>52.71</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>61-131</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>53.38</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>87-126</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>49.4</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>83.8-111</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **R182838** Instrument ID **VMS1** Method: **SW8260B**

LCS				Sample ID: LCS-R182838			Units: µg/L		Analysis Date: 11/3/2020 10:23 AM		
Client ID:			Run ID: VMS1_201103A			SeqNo: 2343759		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	47.87	5.0	50	0	95.7	48.4-140		0			
1,1-Dichloroethene	52.01	5.0	50	0	104	45.5-150		0			
1,2-Dichloroethane	48.69	5.0	50	0	97.4	46.5-141		0			
1,3-Dichlorobenzene	51.93	5.0	50	0	104	42.5-133		0			
1,4-Dichlorobenzene	49.61	5.0	50	0	99.2	38.9-136		0			
Benzene	48.56	5.0	50	0	97.1	50.7-134		0			
Carbon tetrachloride	47.23	5.0	50	0	94.5	45.5-143		0			
Chlorobenzene	49.39	5.0	50	0	98.8	45-133		0			
Chloroform	51.11	5.0	50	0	102	52.4-136		0			
cis-1,2-Dichloroethene	51.35	5.0	50	0	103	49.7-138		0			
Ethylbenzene	50.51	5.0	50	0	101	37.8-145		0			
m,p-Xylene	100.6	10	100	0	101	25.1-163		0			
Methyl tert-butyl ether	41.59	5.0	50	0	83.2	26.7-174		0			
Styrene	51.42	5.0	50	0	103	26.3-172		0			
Tetrachloroethene	46.66	5.0	50	0	93.3	37.3-139		0			
Toluene	50.57	5.0	50	0	101	44-135		0			
Trichloroethene	47.96	5.0	50	0	95.9	45.9-140		0			
Xylenes, Total	152.8	15	150	0	102	47.3-132		0			
Surr: 4-Bromofluorobenzene	48.34	0	50	0	96.7	61-131		0			
Surr: Dibromofluoromethane	52.45	0	50	0	105	87-126		0			
Surr: Toluene-d8	49.87	0	50	0	99.7	83.8-111		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20110020

Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **R182838**

Instrument ID **VMS1**

Method: **SW8260B**

MS					Sample ID: 20100951-16A MS		Units: µg/L		Analysis Date: 11/3/2020 12:16 PM		
Client ID:			Run ID: VMS1_201103A			SeqNo: 2343763		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	38.65	5.0	50	0	77.3	40.4-134	0				
1,1-Dichloroethene	40.59	5.0	50	0	81.2	45.3-151	0				
1,2-Dichloroethane	42.52	5.0	50	0	85	37-139	0				
1,3-Dichlorobenzene	42.86	5.0	50	0	85.7	42.9-121	0				
1,4-Dichlorobenzene	41.99	5.0	50	0	84	53.4-129	0				
Benzene	41.64	5.0	50	0	83.3	37.4-144	0				
Carbon tetrachloride	36.92	5.0	50	0	73.8	33.8-150	0				
Chlorobenzene	42.17	5.0	50	0	84.3	52.4-132	0				
Chloroform	42.62	5.0	50	0	85.2	45.5-135	0				
cis-1,2-Dichloroethene	43.08	5.0	50	0	86.2	35.2-150	0				
Ethylbenzene	41.34	5.0	50	0	82.7	46.5-146	0				
m,p-Xylene	80.41	10	100	0	80.4	38.2-167	0				
Styrene	25.72	5.0	50	0	51.4	20.9-184	0				
Tetrachloroethene	40.01	5.0	50	0	80	55.2-134	0				
Toluene	43.15	5.0	50	0	86.3	32.7-140	0				
Trichloroethene	40.51	5.0	50	0	81	29.1-153	0				
Xylenes, Total	123.2	15	150	0	82.2	43.6-148	0				
Surr: 4-Bromofluorobenzene	49.47	0	50	0	98.9	61-131	0				
Surr: Dibromofluoromethane	49.32	0	50	0	98.6	87-126	0				
Surr: Toluene-d8	50.26	0	50	0	101	83.8-111	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20110020
Project: EDCO Phase II, A4110001

QC BATCH REPORT

Batch ID: **R182838** Instrument ID **VMS1** Method: **SW8260B**

MSD				Sample ID: 20100951-16A MSD			Units: µg/L		Analysis Date: 11/3/2020 12:38 PM	
Client ID:				Run ID: VMS1_201103A			SeqNo: 2343764		Prep Date:	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	35.14	5.0	50	0	70.3	40.4-134	38.65	9.51	20	
1,1-Dichloroethene	36.78	5.0	50	0	73.6	45.3-151	40.59	9.85	20	
1,2-Dichloroethane	42.09	5.0	50	0	84.2	37-139	42.52	1.02	20	
1,3-Dichlorobenzene	43.03	5.0	50	0	86.1	42.9-121	42.86	0.396	20	
1,4-Dichlorobenzene	41.84	5.0	50	0	83.7	53.4-129	41.99	0.358	20	
Benzene	40.39	5.0	50	0	80.8	37.4-144	41.64	3.05	20	
Carbon tetrachloride	32.52	5.0	50	0	65	33.8-150	36.92	12.7	20	
Chlorobenzene	39.54	5.0	50	0	79.1	52.4-132	42.17	6.44	20	
Chloroform	42.11	5.0	50	0	84.2	45.5-135	42.62	1.2	20	
cis-1,2-Dichloroethene	42.24	5.0	50	0	84.5	35.2-150	43.08	1.97	21	
Ethylbenzene	39.24	5.0	50	0	78.5	46.5-146	41.34	5.21	20	
m,p-Xylene	76.52	10	100	0	76.5	38.2-167	80.41	4.96	20	
Styrene	27.25	5.0	50	0	54.5	20.9-184	25.72	5.78	20	
Tetrachloroethene	35.83	5.0	50	0	71.7	55.2-134	40.01	11	20	
Toluene	41.18	5.0	50	0	82.4	32.7-140	43.15	4.67	20	
Trichloroethene	37.96	5.0	50	0	75.9	29.1-153	40.51	6.5	20	
Xylenes, Total	117.4	15	150	0	78.3	43.6-148	123.2	4.81	20	
<i>Surr: 4-Bromofluorobenzene</i>	49.19	0	50	0	98.4	61-131	49.47	0.568		
<i>Surr: Dibromofluoromethane</i>	53	0	50	0	106	87-126	49.32	7.19		
<i>Surr: Toluene-d8</i>	51.68	0	50	0	103	83.8-111	50.26	2.79		

The following samples were analyzed in this batch:

20110020-01A	20110020-02A	20110020-03A
20110020-04A	20110020-05A	20110020-06A
20110020-07A	20110020-08A	20110020-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Project: EDCO Phase II, A4110001
WorkOrder: 20110020

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/L	
mg/L	

Sample Receipt Checklist

Client Name: **MANNIK&SMITH-COLUMBUS**

Date/Time Received: **02-Nov-20 12:20**

Work Order: **20110020**

Received by: **JDM**

Checklist completed by **Rob Nieman**

05-Nov-20

Reviewed by: **Rob Nieman**

05-Nov-20

eSignature

Date

eSignature

Date

Matrices:

Carrier name: **ALSHN**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 5.3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes ☒ No ☐ No VOA vials submitted ☐

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☐

pH adjusted? Yes ☐ No ☐ N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Ship To: **ALS Environmental**
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242
Phone: (513) 733-5336
Fax: (513) 733-5347

Field Chain-of-Custody Record

Page 1 of 1

61668

REV 10/2017

2011020

Date: 10/30/20 Purchase Order No.:
Company Name: The Mannik + Smith Group Project No.: A4110001
Address: 1160 Dublin Road Sampling Site: ERCO
Columbus OH 43215
City State Zip
Person to Contact: John Thornburg Billing Address (if different):
Email Address: jthornburg@mnniksmithgroup.com
Telephone: 614 425-7202
Alternate Contact: Larry Smith 614 314-7798

☒ REGULAR Status ☐ RUSH Status RESULTS REQUIRED BY: (Date)
OH VAP: ☒ YES ☐ NO BUSTR: ☐ YES ☐ NO NELAC: ☐ YES ☐ NO
CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED									
	MW-16	<u>10/30/20</u>	<u>0925</u>													
	MW-8		<u>1005</u>													
	MW-80		<u>1005</u>													
	MW-11		<u>1050</u>													
	MW-6		<u>1110</u>													
	MW-10		<u>1135</u>													
	MW-9		<u>1220</u>													
	MW-12		<u>1240</u>													
	MW-13		<u>1305</u>													

Notes: * Samples for RCRA Metals to be filtered and preserved by The Lab

Preservation Key: 1 - HCl 2 - HNO₃ 3 - H₂SO₄ 4 - NaOH 5 - Na₂S₂O₈ 6 - NaHSO₄ 7 - NaOH/ZnAcetate 8 - Other 9 - 4°C Matrix Key: A - Air B - Bulk S - Soil W - Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>11/2/20</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>11-2-20</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>12:20 11/2</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>1220 11/2/20</u>
Relinquished By: (Signature)	Time / Date	Received By: (Signature)	Time / Date

ALS LAB USE ONLY				
COOLER TEMP: <u>5.3</u> °C	TAKEN WITH IR#: 119063 119059			
COOLING METHOD: NONE COOLER WET-ICE DRY-ICE ICE-PACK				
DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS				
STD MAIL PRY MAIL ALS COURIER OTHER:				
CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES				
pH ADJUSTMENTS:				

Client: The Mannik&Smith Group, Inc.
Project: EDCO; A4110001
Work Order: 20100978

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20100978-01	B-17 (0-2)	Soil		10/21/2020 11:10	10/22/2020 16:50	☐
20100978-02	B-18 (4-6)	Soil		10/21/2020 11:45	10/22/2020 16:50	☐
20100978-03	B-19 (6-8)	Soil		10/21/2020 12:15	10/22/2020 16:50	☐
20100978-04	B-21 (0-2)	Soil		10/21/2020 12:50	10/22/2020 16:50	☐
20100978-05	B-20 (0-2)	Soil		10/21/2020 13:05	10/22/2020 16:50	☐
20100978-06	B-20 (5-7)	Soil		10/21/2020 13:15	10/22/2020 16:50	☐
20100978-07	B-25 (0-2)	Soil		10/21/2020 13:30	10/22/2020 16:50	☐
20100978-08	B-22 (0-2)	Soil		10/21/2020 14:00	10/22/2020 16:50	☐
20100978-09	B-23 (5-7)	Soil		10/21/2020 14:20	10/22/2020 16:50	☐
20100978-10	B-24 (6-8)	Soil		10/21/2020 14:40	10/22/2020 16:50	☐

Client: The Mannik&Smith Group, Inc.
Project: EDCO; A4110001
Work Order: 20100978

Case Narrative

The analyses requested were analyzed according to Ohio Voluntary Action Program requirements. Affidavits are available upon request.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-17 (0-2)

Collection Date: 10/21/2020 11:10 AM

Work Order: 20100978

Lab ID: 20100978-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/27/20 16:14		Analyst: CAA
TPH C10-C20	42		19	mg/Kg-dry	1	10/28/2020 07:17 PM
TPH C20-C34	160		19	mg/Kg-dry	1	10/28/2020 07:17 PM
Surr: Nonane	59.9		22.6-112	%REC	1	10/28/2020 07:17 PM
Surr: Pentacosane	79.7		9.2-109	%REC	1	10/28/2020 07:17 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.5	mg/Kg-dry	1	10/27/2020 12:14 AM
Surr: Cyclooctane	91.6		55-135	%REC	1	10/27/2020 12:14 AM
MOISTURE			SM2540B			Analyst: AZ
Moisture	20			% of sample	1	11/4/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39		Analyst: SLT
Mercury	ND		0.34	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47		Analyst: AZ
Arsenic	9.4		5.7	mg/Kg-dry	1	10/27/2020 12:44 PM
Barium	83		11	mg/Kg-dry	1	10/27/2020 12:44 PM
Cadmium	ND		1.1	mg/Kg-dry	1	10/27/2020 12:44 PM
Chromium	13		2.3	mg/Kg-dry	1	10/27/2020 12:44 PM
Lead	42		5.7	mg/Kg-dry	1	10/27/2020 12:44 PM
Selenium	ND		3.4	mg/Kg-dry	1	10/27/2020 12:44 PM
Silver	ND		1.1	mg/Kg-dry	1	10/27/2020 12:44 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/26/20 11:13		Analyst: RA
1-Methylnaphthalene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
2-Methylnaphthalene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Acenaphthene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Acenaphthylene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Anthracene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Benzo(a)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 06:46 PM
Benzo(a)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 06:46 PM
Benzo(b)fluoranthene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Benzo(g,h,i)perylene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Benzo(k)fluoranthene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Carbazole	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Chrysene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Dibenzo(a,h)anthracene	ND		130	µg/Kg-dry	1	10/28/2020 06:46 PM
Dibenzofuran	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Fluoranthene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Fluorene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-17 (0-2)

Lab ID: 20100978-01

Collection Date: 10/21/2020 11:10 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		130	µg/Kg-dry	1	10/28/2020 06:46 PM
Naphthalene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Phenanthrene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Pyrene	ND		250	µg/Kg-dry	1	10/28/2020 06:46 PM
Surr: 2-Fluorobiphenyl	61.2		30-116	%REC	1	10/28/2020 06:46 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Analyst: LAK		
1,1,1,2-Tetrachloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1,1-Trichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1,2,2-Tetrachloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1,2-Trichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,1-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2,3-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2,3-Trichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2,4-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2,4-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2-Dibromo-3-chloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2-Dibromoethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,3,5-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,3-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,3-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
1,4-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
2,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
2-Butanone	ND		63	µg/Kg-dry	1	10/27/2020 07:58 PM
2-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
2-Hexanone	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
4-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
4-Methyl-2-pentanone	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Acetone	ND		63	µg/Kg-dry	1	10/27/2020 07:58 PM
Benzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Bromobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Bromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Bromodichloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Bromoform	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Bromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Carbon disulfide	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-17 (0-2)

Collection Date: 10/21/2020 11:10 AM

Work Order: 20100978

Lab ID: 20100978-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Chlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Chloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Chloroform	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Chloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
cis-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
cis-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Dibromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Dibromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Dichlorodifluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Ethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Hexachlorobutadiene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Isopropylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/27/2020 07:58 PM
Methyl tert-butyl ether	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Methylene chloride	ND		25	µg/Kg-dry	1	10/27/2020 07:58 PM
Naphthalene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
n-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
n-Propylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
o-Xylene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
p-Isopropyltoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
sec-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Styrene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
tert-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Tetrachloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Toluene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
trans-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
trans-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Trichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Trichlorofluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Vinyl chloride	ND		6.3	µg/Kg-dry	1	10/27/2020 07:58 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 07:58 PM
Surr: 4-Bromofluorobenzene	98.3		62.7-159	%REC	1	10/27/2020 07:58 PM
Surr: Dibromofluoromethane	108		88.4-146	%REC	1	10/27/2020 07:58 PM
Surr: Toluene-d8	99.4		83-124	%REC	1	10/27/2020 07:58 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-18 (4-6)

Lab ID: 20100978-02

Collection Date: 10/21/2020 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/27/20 16:14		Analyst: CAA
TPH C10-C20	20		17	mg/Kg-dry	1	10/28/2020 07:36 PM
TPH C20-C34	85		17	mg/Kg-dry	1	10/28/2020 07:36 PM
Surr: Nonane	55.0		22.6-112	%REC	1	10/28/2020 07:36 PM
Surr: Pentacosane	67.9		9.2-109	%REC	1	10/28/2020 07:36 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A			Analyst: CS
TPH C6-C12	ND		2.3	mg/Kg-dry	1	10/27/2020 12:40 AM
Surr: Cyclooctane	95.5		55-135	%REC	1	10/27/2020 12:40 AM
MOISTURE			SM2540B			Analyst: AZ
Moisture	14			% of sample	1	11/4/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39		Analyst: SLT
Mercury	ND		0.34	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47		Analyst: AZ
Arsenic	7.6		4.3	mg/Kg-dry	1	10/27/2020 12:48 PM
Barium	46		8.5	mg/Kg-dry	1	10/27/2020 12:48 PM
Cadmium	ND		0.85	mg/Kg-dry	1	10/27/2020 12:48 PM
Chromium	9.2		1.7	mg/Kg-dry	1	10/27/2020 12:48 PM
Lead	7.5		4.3	mg/Kg-dry	1	10/27/2020 12:48 PM
Selenium	ND		2.6	mg/Kg-dry	1	10/27/2020 12:48 PM
Silver	ND		0.85	mg/Kg-dry	1	10/27/2020 12:48 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/26/20 11:13		Analyst: RA
1-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
2-Methylnaphthalene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Acenaphthene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Acenaphthylene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Anthracene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 07:06 PM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 07:06 PM
Benzo(b)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Benzo(g,h,i)perylene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Benzo(k)fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Carbazole	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Chrysene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/28/2020 07:06 PM
Dibenzofuran	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Fluoranthene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Fluorene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-18 (4-6)

Lab ID: 20100978-02

Collection Date: 10/21/2020 11:45 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/28/2020 07:06 PM
Naphthalene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Phenanthrene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Pyrene	ND		230	µg/Kg-dry	1	10/28/2020 07:06 PM
Surr: 2-Fluorobiphenyl	65.9		30-116	%REC	1	10/28/2020 07:06 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Analyst: LAK		
1,1,1,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1,1-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1,2,2-Tetrachloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
2-Butanone	ND		58	µg/Kg-dry	1	10/27/2020 08:18 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Acetone	ND		58	µg/Kg-dry	1	10/27/2020 08:18 PM
Benzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Bromoform	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-18 (4-6)

Collection Date: 10/21/2020 11:45 AM

Work Order: 20100978

Lab ID: 20100978-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Chloroform	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/27/2020 08:18 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Methylene chloride	ND		23	µg/Kg-dry	1	10/27/2020 08:18 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Styrene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Toluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/27/2020 08:18 PM
Xylenes, Total	ND		17	µg/Kg-dry	1	10/27/2020 08:18 PM
Surr: 4-Bromofluorobenzene	96.9		62.7-159	%REC	1	10/27/2020 08:18 PM
Surr: Dibromofluoromethane	107		88.4-146	%REC	1	10/27/2020 08:18 PM
Surr: Toluene-d8	99.2		83-124	%REC	1	10/27/2020 08:18 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-19 (6-8)

Lab ID: 20100978-03

Collection Date: 10/21/2020 12:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	14		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	7.6		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 12:52 PM
Barium	47			mg/Kg-dry	1	10/27/2020 12:52 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 12:52 PM
Chromium	10			mg/Kg-dry	1	10/27/2020 12:52 PM
Lead	7.6			mg/Kg-dry	1	10/27/2020 12:52 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 12:52 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 12:52 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/26/20 11:13 Analyst: RA 10/28/2020 07:25 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Acenaphthene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Anthracene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Carbazole	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Chrysene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Fluoranthene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Fluorene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Naphthalene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Phenanthrene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Pyrene	ND			µg/Kg-dry	1	10/28/2020 07:25 PM
Surr: 2-Fluorobiphenyl	57.1		30-116	%REC	1	10/28/2020 07:25 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 08:38 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 08:38 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 08:38 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-19 (6-8)

Lab ID: 20100978-03

Collection Date: 10/21/2020 12:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
2-Butanone	ND		58	µg/Kg-dry	1	10/27/2020 08:38 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Acetone	ND		58	µg/Kg-dry	1	10/27/2020 08:38 PM
Benzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Bromoform	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Chloroform	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-19 (6-8)

Collection Date: 10/21/2020 12:15 PM

Work Order: 20100978

Lab ID: 20100978-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/27/2020 08:38 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Methylene chloride	ND		23	µg/Kg-dry	1	10/27/2020 08:38 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Styrene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Toluene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/27/2020 08:38 PM
Xylenes, Total	ND		18	µg/Kg-dry	1	10/27/2020 08:38 PM
Surr: 4-Bromofluorobenzene	98.5		62.7-159	%REC	1	10/27/2020 08:38 PM
Surr: Dibromofluoromethane	106		88.4-146	%REC	1	10/27/2020 08:38 PM
Surr: Toluene-d8	98.7		83-124	%REC	1	10/27/2020 08:38 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-21 (0-2)

Lab ID: 20100978-04

Collection Date: 10/21/2020 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	22		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	9.6		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 01:14 PM
Barium	54			mg/Kg-dry	1	10/27/2020 01:14 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 01:14 PM
Chromium	9.4			mg/Kg-dry	1	10/27/2020 01:14 PM
Lead	8.1			mg/Kg-dry	1	10/27/2020 01:14 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 01:14 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 01:14 PM
PAH COMPOUNDS						
1-Methylnaphthalene	470		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/28/20 11:33 Analyst: RA 10/30/2020 04:10 PM
2-Methylnaphthalene	590			µg/Kg-dry	1	10/30/2020 04:10 PM
Acenaphthene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Anthracene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Carbazole	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Chrysene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Fluorene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Naphthalene	360			µg/Kg-dry	1	10/30/2020 04:10 PM
Phenanthrene	300			µg/Kg-dry	1	10/30/2020 04:10 PM
Pyrene	ND			µg/Kg-dry	1	10/30/2020 04:10 PM
Surr: 2-Fluorobiphenyl	88.5		30-116	%REC	1	10/30/2020 04:10 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 08:59 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 08:59 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 08:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-21 (0-2)

Lab ID: 20100978-04

Collection Date: 10/21/2020 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,1-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,1-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,1-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2,3-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2,3-Trichloropropane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2,4-Trichlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2,4-Trimethylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2-Dibromo-3-chloropropane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2-Dibromoethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2-Dichloroethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,3,5-Trimethylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,3-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,3-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
1,4-Dichlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
2,2-Dichloropropane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
2-Butanone	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
2-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
2-Hexanone	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
4-Chlorotoluene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
4-Methyl-2-pentanone	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Acetone	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Benzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Bromobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Bromochloromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Bromodichloromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Bromoform	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Bromomethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Carbon disulfide	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Carbon tetrachloride	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Chlorobenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Chloroethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Chloroform	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Chloromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
cis-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
cis-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Dibromochloromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Dibromomethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-21 (0-2)

Lab ID: 20100978-04

Collection Date: 10/21/2020 12:50 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Ethylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Hexachlorobutadiene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Isopropylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/27/2020 08:59 PM
Methyl tert-butyl ether	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Methylene chloride	ND		26	µg/Kg-dry	1	10/27/2020 08:59 PM
Naphthalene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
n-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
n-Propylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
o-Xylene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
p-Isopropyltoluene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
sec-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Styrene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
tert-Butylbenzene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Tetrachloroethene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Toluene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
trans-1,2-Dichloroethene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
trans-1,3-Dichloropropene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Trichloroethene	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Trichlorofluoromethane	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Vinyl chloride	ND		6.4	µg/Kg-dry	1	10/27/2020 08:59 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 08:59 PM
Surr: 4-Bromofluorobenzene	101		62.7-159	%REC	1	10/27/2020 08:59 PM
Surr: Dibromofluoromethane	105		88.4-146	%REC	1	10/27/2020 08:59 PM
Surr: Toluene-d8	99.0		83-124	%REC	1	10/27/2020 08:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (0-2)

Lab ID: 20100978-05

Collection Date: 10/21/2020 01:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/27/20 16:14	Analyst: CAA	
TPH C10-C20	31		19	mg/Kg-dry	1	10/29/2020 01:20 PM
TPH C20-C34	220		19	mg/Kg-dry	1	10/29/2020 01:20 PM
Surr: Nonane	73.6		22.6-112	%REC	1	10/29/2020 01:20 PM
Surr: Pentacosane	72.5		9.2-109	%REC	1	10/29/2020 01:20 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A		Analyst: CS	
TPH C6-C12	ND		2.6	mg/Kg-dry	1	10/27/2020 01:57 AM
Surr: Cyclooctane	88.1		55-135	%REC	1	10/27/2020 01:57 AM
PCBS			SW8082	Prep: SW3546 10/28/20 15:00	Analyst: TSA	
Aroclor 1016	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1221	ND		0.26	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1232	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1242	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1248	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1254	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1260	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1262	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Aroclor 1268	ND		0.13	mg/Kg-dry	1	10/29/2020 10:31 PM
Surr: Decachlorobiphenyl	80.0		14.9-146	%REC	1	10/29/2020 10:31 PM
Surr: Tetrachloro-m-xylene	84.0		20.7-158	%REC	1	10/29/2020 10:31 PM
MOISTURE			SM2540B		Analyst: AZ	
Moisture	23			% of sample	1	11/4/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39	Analyst: SLT	
Mercury	ND		0.34	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47	Analyst: AZ	
Arsenic	78		4.5	mg/Kg-dry	1	10/27/2020 01:18 PM
Barium	810		9.1	mg/Kg-dry	1	10/27/2020 01:18 PM
Cadmium	46		0.91	mg/Kg-dry	1	10/27/2020 01:18 PM
Chromium	15		1.8	mg/Kg-dry	1	10/27/2020 01:18 PM
Lead	320		4.5	mg/Kg-dry	1	10/27/2020 01:18 PM
Selenium	ND		2.7	mg/Kg-dry	1	10/27/2020 01:18 PM
Silver	2.7		0.91	mg/Kg-dry	1	10/27/2020 01:18 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/26/20 11:13	Analyst: RA	
1-Methylnaphthalene	840		260	µg/Kg-dry	1	10/28/2020 07:45 PM
2-Methylnaphthalene	1,100		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Acenaphthene	ND		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Acenaphthylene	310		260	µg/Kg-dry	1	10/28/2020 07:45 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (0-2)

Lab ID: 20100978-05

Collection Date: 10/21/2020 01:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	290		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Benzo(a)anthracene	1,100		130	µg/Kg-dry	1	10/28/2020 07:45 PM
Benzo(a)pyrene	1,900		130	µg/Kg-dry	1	10/28/2020 07:45 PM
Benzo(b)fluoranthene	2,700		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Benzo(g,h,i)perylene	760		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Benzo(k)fluoranthene	890		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Carbazole	ND		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Chrysene	1,200		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Dibenzo(a,h)anthracene	290		130	µg/Kg-dry	1	10/28/2020 07:45 PM
Dibenzofuran	ND		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Fluoranthene	900		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Fluorene	ND		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Indeno(1,2,3-cd)pyrene	900		130	µg/Kg-dry	1	10/28/2020 07:45 PM
Naphthalene	860		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Phenanthrene	680		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Pyrene	1,100		260	µg/Kg-dry	1	10/28/2020 07:45 PM
Surr: 2-Fluorobiphenyl	68.5		30-116	%REC	1	10/28/2020 07:45 PM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1,1-Trichloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1,2,2-Tetrachloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1,2-Trichloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1-Dichloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,1-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2,3-Trichlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2,3-Trichloropropane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2,4-Trichlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2,4-Trimethylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2-Dibromo-3-chloropropane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2-Dibromoethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2-Dichloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,2-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,3,5-Trimethylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,3-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,3-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
1,4-Dichlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
2,2-Dichloropropane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
2-Butanone	ND		65	µg/Kg-dry	1	10/27/2020 09:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.**Project:** EDCO; A4110001**Work Order:** 20100978**Sample ID:** B-20 (0-2)**Lab ID:** 20100978-05**Collection Date:** 10/21/2020 01:05 PM**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
2-Hexanone	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
4-Chlorotoluene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
4-Methyl-2-pentanone	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Acetone	ND		65	µg/Kg-dry	1	10/27/2020 09:19 PM
Benzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Bromobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Bromochloromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Bromodichloromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Bromoform	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Bromomethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Carbon disulfide	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Carbon tetrachloride	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Chlorobenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Chloroethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Chloroform	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Chloromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
cis-1,2-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
cis-1,3-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Dibromochloromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Dibromomethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Dichlorodifluoromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Ethylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Hexachlorobutadiene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Isopropylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/27/2020 09:19 PM
Methyl tert-butyl ether	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Methylene chloride	ND		26	µg/Kg-dry	1	10/27/2020 09:19 PM
Naphthalene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
n-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
n-Propylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
o-Xylene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
p-Isopropyltoluene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
sec-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Styrene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
tert-Butylbenzene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Tetrachloroethene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Toluene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
trans-1,2-Dichloroethene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
trans-1,3-Dichloropropene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (0-2)

Lab ID: 20100978-05

Collection Date: 10/21/2020 01:05 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Trichlorofluoromethane	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Vinyl chloride	ND		6.5	µg/Kg-dry	1	10/27/2020 09:19 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 09:19 PM
Surr: 4-Bromofluorobenzene	98.2		62.7-159	%REC	1	10/27/2020 09:19 PM
Surr: Dibromofluoromethane	107		88.4-146	%REC	1	10/27/2020 09:19 PM
Surr: Toluene-d8	99.0		83-124	%REC	1	10/27/2020 09:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (5-7)

Lab ID: 20100978-06

Collection Date: 10/21/2020 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	14		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	15		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 01:22 PM
Barium	130			mg/Kg-dry	1	10/27/2020 01:22 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 01:22 PM
Chromium	13			mg/Kg-dry	1	10/27/2020 01:22 PM
Lead	11			mg/Kg-dry	1	10/27/2020 01:22 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 01:22 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 01:22 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/26/20 11:13 Analyst: RA 10/28/2020 08:05 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Acenaphthene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Anthracene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Carbazole	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Chrysene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Fluoranthene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Fluorene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Naphthalene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Phenanthrene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Pyrene	ND			µg/Kg-dry	1	10/28/2020 08:05 PM
Surr: 2-Fluorobiphenyl	71.6		30-116	%REC	1	10/28/2020 08:05 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 09:39 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 09:39 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 09:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (5-7)

Lab ID: 20100978-06

Collection Date: 10/21/2020 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
2-Butanone	ND		58	µg/Kg-dry	1	10/27/2020 09:39 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Acetone	ND		58	µg/Kg-dry	1	10/27/2020 09:39 PM
Benzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Bromoform	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Chloroform	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-20 (5-7)

Lab ID: 20100978-06

Collection Date: 10/21/2020 01:15 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/27/2020 09:39 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Methylene chloride	ND		23	µg/Kg-dry	1	10/27/2020 09:39 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Styrene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Tetrachloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Toluene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/27/2020 09:39 PM
Xylenes, Total	ND		17	µg/Kg-dry	1	10/27/2020 09:39 PM
Surr: 4-Bromofluorobenzene	98.2		62.7-159	%REC	1	10/27/2020 09:39 PM
Surr: Dibromofluoromethane	105		88.4-146	%REC	1	10/27/2020 09:39 PM
Surr: Toluene-d8	98.2		83-124	%REC	1	10/27/2020 09:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-25 (0-2)

Lab ID: 20100978-07

Collection Date: 10/21/2020 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS AND OIL RANGE ORGANICS			SW8015B	Prep: SW3546 10/27/20 16:14	Analyst: CAA	
TPH C10-C20	26		19	mg/Kg-dry	1	10/28/2020 08:15 PM
TPH C20-C34	130		19	mg/Kg-dry	1	10/28/2020 08:15 PM
Surr: Nonane	55.1		22.6-112	%REC	1	10/28/2020 08:15 PM
Surr: Pentacosane	70.9		9.2-109	%REC	1	10/28/2020 08:15 PM
GASOLINE RANGE ORGANICS (C6-C12)			SW8015A		Analyst: CS	
TPH C6-C12	ND		2.5	mg/Kg-dry	1	10/28/2020 04:28 AM
Surr: Cyclooctane	89.6		55-135	%REC	1	10/28/2020 04:28 AM
PCBS			SW8082	Prep: SW3546 10/28/20 15:00	Analyst: TSA	
Aroclor 1016	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1221	ND		0.25	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1232	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1242	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1248	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1254	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1260	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1262	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Aroclor 1268	ND		0.12	mg/Kg-dry	1	10/29/2020 10:49 PM
Surr: Decachlorobiphenyl	84.0		14.9-146	%REC	1	10/29/2020 10:49 PM
Surr: Tetrachloro-m-xylene	110		20.7-158	%REC	1	10/29/2020 10:49 PM
MOISTURE			SM2540B		Analyst: AZ	
Moisture	20			% of sample	1	11/4/2020
MERCURY BY CVAA			SW7471A	Prep: EPA 7471 10/27/20 07:39	Analyst: SLT	
Mercury	ND		0.36	mg/Kg-dry	1	10/27/2020
METALS BY ICP			SW6010B	Prep: SW3050B 10/27/20 07:47	Analyst: AZ	
Arsenic	8.8		4.8	mg/Kg-dry	1	10/27/2020 01:27 PM
Barium	69		9.6	mg/Kg-dry	1	10/27/2020 01:27 PM
Cadmium	ND		0.96	mg/Kg-dry	1	10/27/2020 01:27 PM
Chromium	12		1.9	mg/Kg-dry	1	10/27/2020 01:27 PM
Lead	23		4.8	mg/Kg-dry	1	10/27/2020 01:27 PM
Selenium	ND		2.9	mg/Kg-dry	1	10/27/2020 01:27 PM
Silver	ND		0.96	mg/Kg-dry	1	10/27/2020 01:27 PM
PAH COMPOUNDS			SW8270C	Prep: SW3546 10/26/20 11:13	Analyst: RA	
1-Methylnaphthalene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
2-Methylnaphthalene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Acenaphthene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Acenaphthylene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-25 (0-2)

Collection Date: 10/21/2020 01:30 PM

Work Order: 20100978

Lab ID: 20100978-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Anthracene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Benzo(a)anthracene	ND		120	µg/Kg-dry	1	10/29/2020 02:56 PM
Benzo(a)pyrene	ND		120	µg/Kg-dry	1	10/29/2020 02:56 PM
Benzo(b)fluoranthene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Benzo(g,h,i)perylene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Benzo(k)fluoranthene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Carbazole	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Chrysene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Dibenzo(a,h)anthracene	ND		120	µg/Kg-dry	1	10/29/2020 02:56 PM
Dibenzofuran	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Fluoranthene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Fluorene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Indeno(1,2,3-cd)pyrene	ND		120	µg/Kg-dry	1	10/29/2020 02:56 PM
Naphthalene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Phenanthrene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Pyrene	ND		250	µg/Kg-dry	1	10/29/2020 02:56 PM
Surr: 2-Fluorobiphenyl	57.6		30-116	%REC	1	10/29/2020 02:56 PM

VOLATILE ORGANIC COMPOUNDS

SW8260B

Analyst: LAK

1,1,1,2-Tetrachloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1,1-Trichloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1,2,2-Tetrachloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1,2-Trichloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1-Dichloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1-Dichloroethene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,1-Dichloropropene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2,3-Trichlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2,3-Trichloropropane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2,4-Trichlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2,4-Trimethylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2-Dibromo-3-chloropropane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2-Dibromoethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2-Dichlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2-Dichloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,2-Dichloropropane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,3,5-Trimethylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,3-Dichlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,3-Dichloropropane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
1,4-Dichlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
2,2-Dichloropropane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
2-Butanone	ND		62	µg/Kg-dry	1	10/27/2020 09:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-25 (0-2)

Collection Date: 10/21/2020 01:30 PM

Work Order: 20100978

Lab ID: 20100978-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Chlorotoluene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
2-Hexanone	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
4-Chlorotoluene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
4-Methyl-2-pentanone	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Acetone	73		62	µg/Kg-dry	1	10/27/2020 09:59 PM
Benzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Bromobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Bromochloromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Bromodichloromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Bromoform	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Bromomethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Carbon disulfide	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Carbon tetrachloride	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Chlorobenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Chloroethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Chloroform	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Chloromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
cis-1,2-Dichloroethene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
cis-1,3-Dichloropropene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Dibromochloromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Dibromomethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Dichlorodifluoromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Ethylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Hexachlorobutadiene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Isopropylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/27/2020 09:59 PM
Methyl tert-butyl ether	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Methylene chloride	ND		25	µg/Kg-dry	1	10/27/2020 09:59 PM
Naphthalene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
n-Butylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
n-Propylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
o-Xylene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
p-Isopropyltoluene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
sec-Butylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Styrene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
tert-Butylbenzene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Tetrachloroethene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Toluene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
trans-1,2-Dichloroethene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
trans-1,3-Dichloropropene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-25 (0-2)

Lab ID: 20100978-07

Collection Date: 10/21/2020 01:30 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Trichloroethene	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Trichlorofluoromethane	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Vinyl chloride	ND		6.2	µg/Kg-dry	1	10/27/2020 09:59 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 09:59 PM
Surr: 4-Bromofluorobenzene	96.6		62.7-159	%REC	1	10/27/2020 09:59 PM
Surr: Dibromofluoromethane	107		88.4-146	%REC	1	10/27/2020 09:59 PM
Surr: Toluene-d8	97.6		83-124	%REC	1	10/27/2020 09:59 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-22 (0-2)

Collection Date: 10/21/2020 02:00 PM

Work Order: 20100978

Lab ID: 20100978-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	14		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	2.8		SW7471A	mg/Kg-dry	2	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	15		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/27/20 07:47 Analyst: AZ 10/27/2020 01:31 PM
Barium	84			mg/Kg-dry	1	10/27/2020 01:31 PM
Cadmium	ND			mg/Kg-dry	1	10/27/2020 01:31 PM
Chromium	12			mg/Kg-dry	1	10/27/2020 01:31 PM
Lead	230			mg/Kg-dry	1	10/27/2020 01:31 PM
Selenium	ND			mg/Kg-dry	1	10/27/2020 01:31 PM
Silver	ND			mg/Kg-dry	1	10/27/2020 01:31 PM
PAH COMPOUNDS						
1-Methylnaphthalene	1,000		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/28/20 11:33 Analyst: RA 10/30/2020 04:32 PM
2-Methylnaphthalene	1,300			µg/Kg-dry	1	10/30/2020 04:32 PM
Acenaphthene	ND			µg/Kg-dry	1	10/30/2020 04:32 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/30/2020 04:32 PM
Anthracene	ND			µg/Kg-dry	1	10/30/2020 04:32 PM
Benzo(a)anthracene	500			µg/Kg-dry	1	10/30/2020 04:32 PM
Benzo(a)pyrene	480			µg/Kg-dry	1	10/30/2020 04:32 PM
Benzo(b)fluoranthene	760			µg/Kg-dry	1	10/30/2020 04:32 PM
Benzo(g,h,i)perylene	450			µg/Kg-dry	1	10/30/2020 04:32 PM
Benzo(k)fluoranthene	300			µg/Kg-dry	1	10/30/2020 04:32 PM
Carbazole	ND			µg/Kg-dry	1	10/30/2020 04:32 PM
Chrysene	600			µg/Kg-dry	1	10/30/2020 04:32 PM
Dibenzo(a,h)anthracene	130			µg/Kg-dry	1	10/30/2020 04:32 PM
Dibenzofuran	350			µg/Kg-dry	1	10/30/2020 04:32 PM
Fluoranthene	630			µg/Kg-dry	1	10/30/2020 04:32 PM
Fluorene	ND			µg/Kg-dry	1	10/30/2020 04:32 PM
Indeno(1,2,3-cd)pyrene	440			µg/Kg-dry	1	10/30/2020 04:32 PM
Naphthalene	850			µg/Kg-dry	1	10/30/2020 04:32 PM
Phenanthrene	1,100			µg/Kg-dry	1	10/30/2020 04:32 PM
Pyrene	540			µg/Kg-dry	1	10/30/2020 04:32 PM
Surr: 2-Fluorobiphenyl	81.5		30-116	%REC	1	10/30/2020 04:32 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 10:19 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 10:19 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 10:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-22 (0-2)

Lab ID: 20100978-08

Collection Date: 10/21/2020 02:00 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,1-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,1-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,1-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2,3-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2,3-Trichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2,4-Trichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2,4-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2-Dibromo-3-chloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2-Dibromoethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2-Dichloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,3,5-Trimethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,3-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,3-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
1,4-Dichlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
2,2-Dichloropropane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
2-Butanone	ND		58	µg/Kg-dry	1	10/27/2020 10:19 PM
2-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
2-Hexanone	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
4-Chlorotoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
4-Methyl-2-pentanone	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Acetone	ND		58	µg/Kg-dry	1	10/27/2020 10:19 PM
Benzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Bromobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Bromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Bromodichloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Bromoform	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Bromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Carbon disulfide	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Carbon tetrachloride	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Chlorobenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Chloroethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Chloroform	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Chloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
cis-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
cis-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Dibromochloromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Dibromomethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-22 (0-2)

Collection Date: 10/21/2020 02:00 PM

Work Order: 20100978

Lab ID: 20100978-08

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Ethylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Hexachlorobutadiene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Isopropylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
m,p-Xylene	ND		12	µg/Kg-dry	1	10/27/2020 10:19 PM
Methyl tert-butyl ether	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Methylene chloride	ND		23	µg/Kg-dry	1	10/27/2020 10:19 PM
Naphthalene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
n-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
n-Propylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
o-Xylene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
p-Isopropyltoluene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
sec-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Styrene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
tert-Butylbenzene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Tetrachloroethene	11		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Toluene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
trans-1,2-Dichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
trans-1,3-Dichloropropene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Trichloroethene	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Trichlorofluoromethane	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Vinyl chloride	ND		5.8	µg/Kg-dry	1	10/27/2020 10:19 PM
Xylenes, Total	ND		17	µg/Kg-dry	1	10/27/2020 10:19 PM
Surr: 4-Bromofluorobenzene	102		62.7-159	%REC	1	10/27/2020 10:19 PM
Surr: Dibromofluoromethane	110		88.4-146	%REC	1	10/27/2020 10:19 PM
Surr: Toluene-d8	98.4		83-124	%REC	1	10/27/2020 10:19 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-23 (5-7)

Lab ID: 20100978-09

Collection Date: 10/21/2020 02:20 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	21		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/27/20 07:39 Analyst: SLT 10/27/2020
METALS BY ICP						
Arsenic	9.5		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/29/20 12:07 Analyst: AZ 10/29/2020 07:18 PM
Barium	160			mg/Kg-dry	1	10/29/2020 07:18 PM
Cadmium	ND			mg/Kg-dry	1	10/29/2020 07:18 PM
Chromium	18			mg/Kg-dry	1	10/29/2020 07:18 PM
Lead	26			mg/Kg-dry	1	10/29/2020 07:18 PM
Selenium	ND			mg/Kg-dry	1	10/29/2020 07:18 PM
Silver	ND			mg/Kg-dry	1	10/29/2020 07:18 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/28/20 11:33 Analyst: RA 10/30/2020 04:54 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Acenaphthene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Anthracene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Carbazole	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Chrysene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Fluoranthene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Fluorene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Naphthalene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Phenanthrene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Pyrene	ND			µg/Kg-dry	1	10/30/2020 04:54 PM
Surr: 2-Fluorobiphenyl	83.2		30-116	%REC	1	10/30/2020 04:54 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 10:39 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 10:39 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 10:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-23 (5-7)

Collection Date: 10/21/2020 02:20 PM

Work Order: 20100978

Lab ID: 20100978-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,1-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,1-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,1-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2,3-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2,3-Trichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2,4-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2,4-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2-Dibromo-3-chloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2-Dibromoethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,3,5-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,3-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,3-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
1,4-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
2,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
2-Butanone	ND		63	µg/Kg-dry	1	10/27/2020 10:39 PM
2-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
2-Hexanone	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
4-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
4-Methyl-2-pentanone	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Acetone	ND		63	µg/Kg-dry	1	10/27/2020 10:39 PM
Benzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Bromobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Bromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Bromodichloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Bromoform	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Bromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Carbon disulfide	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Carbon tetrachloride	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Chlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Chloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Chloroform	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Chloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
cis-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
cis-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Dibromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Dibromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-23 (5-7)

Collection Date: 10/21/2020 02:20 PM

Work Order: 20100978

Lab ID: 20100978-09

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Ethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Hexachlorobutadiene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Isopropylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/27/2020 10:39 PM
Methyl tert-butyl ether	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Methylene chloride	ND		25	µg/Kg-dry	1	10/27/2020 10:39 PM
Naphthalene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
n-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
n-Propylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
o-Xylene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
p-Isopropyltoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
sec-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Styrene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
tert-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Tetrachloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Toluene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
trans-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
trans-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Trichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Trichlorofluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Vinyl chloride	ND		6.3	µg/Kg-dry	1	10/27/2020 10:39 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 10:39 PM
Surr: 4-Bromofluorobenzene	97.1		62.7-159	%REC	1	10/27/2020 10:39 PM
Surr: Dibromofluoromethane	107		88.4-146	%REC	1	10/27/2020 10:39 PM
Surr: Toluene-d8	98.5		83-124	%REC	1	10/27/2020 10:39 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-24 (6-8)

Lab ID: 20100978-10

Collection Date: 10/21/2020 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MOISTURE						
Moisture	21		SM2540B	% of sample	1	Analyst: AZ 11/4/2020
MERCURY BY CVAA						
Mercury	ND		SW7471A	mg/Kg-dry	1	Prep: EPA 7471 10/29/20 12:02 Analyst: SLT 10/30/2020
METALS BY ICP						
Arsenic	7.1		SW6010B	mg/Kg-dry	1	Prep: SW3050B 10/29/20 12:07 Analyst: AZ 10/29/2020 07:23 PM
Barium	83			mg/Kg-dry	1	10/29/2020 07:23 PM
Cadmium	ND			mg/Kg-dry	1	10/29/2020 07:23 PM
Chromium	16			mg/Kg-dry	1	10/29/2020 07:23 PM
Lead	10			mg/Kg-dry	1	10/29/2020 07:23 PM
Selenium	ND			mg/Kg-dry	1	10/29/2020 07:23 PM
Silver	ND			mg/Kg-dry	1	10/29/2020 07:23 PM
PAH COMPOUNDS						
1-Methylnaphthalene	ND		SW8270C	µg/Kg-dry	1	Prep: SW3546 10/28/20 11:33 Analyst: RA 10/30/2020 05:16 PM
2-Methylnaphthalene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Acenaphthene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Acenaphthylene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Anthracene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Benzo(a)anthracene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Benzo(a)pyrene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Benzo(b)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Benzo(g,h,i)perylene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Benzo(k)fluoranthene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Carbazole	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Chrysene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Dibenzo(a,h)anthracene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Dibenzofuran	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Fluoranthene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Fluorene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Indeno(1,2,3-cd)pyrene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Naphthalene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Phenanthrene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Pyrene	ND			µg/Kg-dry	1	10/30/2020 05:16 PM
Surr: 2-Fluorobiphenyl	76.1		30-116	%REC	1	10/30/2020 05:16 PM
VOLATILE ORGANIC COMPOUNDS						
1,1,1,2-Tetrachloroethane	ND		SW8260B	µg/Kg-dry	1	Analyst: LAK 10/27/2020 11:00 PM
1,1,1-Trichloroethane	ND			µg/Kg-dry	1	10/27/2020 11:00 PM
1,1,2,2-Tetrachloroethane	ND			µg/Kg-dry	1	10/27/2020 11:00 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Sample ID: B-24 (6-8)

Collection Date: 10/21/2020 02:40 PM

Work Order: 20100978

Lab ID: 20100978-10

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,1-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,1-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,1-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2,3-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2,3-Trichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2,4-Trichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2,4-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2-Dibromo-3-chloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2-Dibromoethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2-Dichloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,3,5-Trimethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,3-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,3-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
1,4-Dichlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
2,2-Dichloropropane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
2-Butanone	ND		63	µg/Kg-dry	1	10/27/2020 11:00 PM
2-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
2-Hexanone	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
4-Chlorotoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
4-Methyl-2-pentanone	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Acetone	ND		63	µg/Kg-dry	1	10/27/2020 11:00 PM
Benzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Bromobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Bromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Bromodichloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Bromoform	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Bromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Carbon disulfide	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Carbon tetrachloride	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Chlorobenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Chloroethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Chloroform	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Chloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
cis-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
cis-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Dibromochloromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Dibromomethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.

Project: EDCO; A4110001

Work Order: 20100978

Sample ID: B-24 (6-8)

Lab ID: 20100978-10

Collection Date: 10/21/2020 02:40 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Ethylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Hexachlorobutadiene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Isopropylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
m,p-Xylene	ND		13	µg/Kg-dry	1	10/27/2020 11:00 PM
Methyl tert-butyl ether	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Methylene chloride	ND		25	µg/Kg-dry	1	10/27/2020 11:00 PM
Naphthalene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
n-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
n-Propylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
o-Xylene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
p-Isopropyltoluene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
sec-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Styrene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
tert-Butylbenzene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Tetrachloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Toluene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
trans-1,2-Dichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
trans-1,3-Dichloropropene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Trichloroethene	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Trichlorofluoromethane	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Vinyl chloride	ND		6.3	µg/Kg-dry	1	10/27/2020 11:00 PM
Xylenes, Total	ND		19	µg/Kg-dry	1	10/27/2020 11:00 PM
Surr: 4-Bromofluorobenzene	97.1		62.7-159	%REC	1	10/27/2020 11:00 PM
Surr: Dibromofluoromethane	105		88.4-146	%REC	1	10/27/2020 11:00 PM
Surr: Toluene-d8	98.6		83-124	%REC	1	10/27/2020 11:00 PM

Note:

ALS Environmental

Date: 05-Nov-20

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69723** Instrument ID **GC5** Method: **SW8015B**

mbk Sample ID: MBLK-69723-69723				Units: mg/Kg		Analysis Date: 10/28/2020 01:51 PM				
Client ID:		Run ID: GC5_201028B		SeqNo: 2339625		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	14.79	15								J
TPH C10-C20	11.74	15								J
TPH C20-C34	ND	15								
Surr: Nonane	5.796	0	8.333	0	69.6	22.6-112	0			
Surr: Pentacosane	4.905	0	8.333	0	58.9	9.2-109	0			

lcs Sample ID: LCS-69723-69723				Units: mg/Kg		Analysis Date: 10/28/2020 02:45 PM				
Client ID:		Run ID: GC5_201028B		SeqNo: 2339627		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	68.14	15	83.33	0	81.8	49.2-132	0			
Surr: Nonane	5.545	0	8.333	0	66.5	22.6-112	0			
Surr: Pentacosane	5.063	0	8.333	0	60.8	9.2-109	0			

MS Sample ID: 20100966-01B MS				Units: mg/Kg		Analysis Date: 10/28/2020 05:01 PM				
Client ID:		Run ID: GC5_201028B		SeqNo: 2339633		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	89.02	15	82.78	18.97	84.6	15.3-133	0			
Surr: Nonane	5.419	0	8.278	0	65.5	22.6-112	0			
Surr: Pentacosane	5.089	0	8.278	0	61.5	9.2-109	0			

MSD Sample ID: 20100966-01B MSD				Units: mg/Kg		Analysis Date: 10/28/2020 05:20 PM				
Client ID:		Run ID: GC5_201028B		SeqNo: 2339634		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Diesel (total)	82.66	15	83.33	18.97	76.4	15.3-133	89.02	7.42	21	
Surr: Nonane	5.487	0	8.333	0	65.8	22.6-112	5.419	1.23		
Surr: Pentacosane	5.384	0	8.333	0	64.6	9.2-109	5.089	5.63		

The following samples were analyzed in this batch:

20100978-01B	20100978-02B	20100978-05B
20100978-07B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
 Work Order: 20100978
 Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69759** Instrument ID **GC3** Method: **SW8082**

MBLK Sample ID: MBLK-69759-69759				Units: mg/Kg		Analysis Date: 10/29/2020				
Client ID:		Run ID: GC3_201029A		SeqNo: 2341827		Prep Date: 10/28/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.20								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Aroclor 1262	ND	0.10								
Aroclor 1268	ND	0.10								
Surr: Decachlorobiphenyl	0.146	0	0.1	0	146	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.096	0	0.1	0	96	20.7-158	0			

LCS Sample ID: LCS-69759-69759				Units: mg/Kg		Analysis Date: 10/29/2020				
Client ID:		Run ID: GC3_201029A		SeqNo: 2341828		Prep Date: 10/28/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.98	0.10	2	0	99	58.2-144	0			
Surr: Decachlorobiphenyl	0.124	0	0.1	0	124	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.096	0	0.1	0	96	20.7-158	0			

ms Sample ID: 20100958-08B				Units: mg/Kg		Analysis Date: 10/29/2020 09:37 PM				
Client ID:		Run ID: GC3_201029A		SeqNo: 2341795		Prep Date: 10/28/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.76	0.099	1.984	0	88.7	25.9-135	0			
Surr: Decachlorobiphenyl	0.08929	0	0.09921	0	90	14.9-146	0			
Surr: Tetrachloro-m-xylene	0.09127	0	0.09921	0	92	20.7-158	0			

msd Sample ID: 20100958-08B				Units: mg/Kg		Analysis Date: 10/29/2020 09:55 PM				
Client ID:		Run ID: GC3_201029A		SeqNo: 2341796		Prep Date: 10/28/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	1.835	0.099	1.984	0	92.5	25.9-135	1.76	4.19	53	
Surr: Decachlorobiphenyl	0.09127	0	0.09921	0	92	14.9-146	0.08929	2.2		
Surr: Tetrachloro-m-xylene	0.09127	0	0.09921	0	92	20.7-158	0.09127	0		

The following samples were analyzed in this batch: 20100978-05B 20100978-07B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182514**

Instrument ID **GC6**

Method: **SW8015A**

MBLK		Sample ID: MBLK-R182514				Units: mg/Kg		Analysis Date: 10/26/2020 03:44 PM		
Client ID:		Run ID: GC6_201026C			SeqNo: 2337504		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	ND	2.0								
Surr: Cyclooctane	462.2	0	500	0	92.4	55-135	0			

LCS				Sample ID: TPH LCS 20-R182514				Units: mg/Kg		Analysis Date: 10/26/2020 04:09 PM	
Client ID:			Run ID: GC6_201026C			SeqNo: 2337505		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
TPH C6-C12	19.69	2.0	20	0	98.4	57.2-164	0				
<i>Surr: Cyclooctane</i>	521	0	500	0	104	55-135	0				

MS				Sample ID: 20100977-01A				Units: mg/Kg		Analysis Date: 10/26/2020 04:35 PM	
Client ID:			Run ID: GC6_201026C			SeqNo: 2337506		Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12		10.65	2.0	20	0.2	52.2	42.3-144		0		
Surr: Cyclooctane		439.6	0	500	0	87.9	55-135		0		

MSD				Sample ID: 20100977-01A				Units: mg/Kg		Analysis Date: 10/27/2020 08:08 AM			
Client ID:				Run ID: GC6_201026C				SeqNo: 2337527		Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
TPH C6-C12		11.55	2.0	20	0	57.7	42.3-144		0				
Surr: Cyclooctane		457.6	0	500	0	91.5	55-135		0				

The following samples were analyzed in this batch:

20100978-01A	20100978-02A	20100978-03A
20100978-04A	20100978-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182558** Instrument ID **GC6** Method: **SW8015A**

MBLK		Sample ID: MBLK-R182558				Units: mg/Kg		Analysis Date: 10/27/2020 08:23 PM		
Client ID:		Run ID: GC6_201027B				SeqNo: 2338378		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	ND	2.0								
Surr: Cyclooctane	451.3	0	500	0	90.3	55-135	0			

LCS		Sample ID: TPH LCS 20-R182558				Units: mg/Kg		Analysis Date: 10/27/2020 09:14 PM		
Client ID:		Run ID: GC6_201027B				SeqNo: 2338379		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	18.99	2.0	20	0	95	57.2-164	0			
Surr: Cyclooctane	453.8	0	500	0	90.8	55-135	0			

MS		Sample ID: 20100966-03A				Units: mg/Kg		Analysis Date: 10/27/2020 09:40 PM		
Client ID:		Run ID: GC6_201027B				SeqNo: 2338380		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	19.4	2.0	20	0.06	96.7	42.3-144	0			
Surr: Cyclooctane	486.8	0	500	0	97.4	55-135	0			

MSD		Sample ID: 20100966-03A				Units: mg/Kg		Analysis Date: 10/27/2020 10:05 PM		
Client ID:		Run ID: GC6_201027B				SeqNo: 2338381		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH C6-C12	17.09	2.0	20	0.06	85.2	42.3-144	19.4	12.7	15.7	
Surr: Cyclooctane	448.5	0	500	0	89.7	55-135	486.8	8.2		

The following samples were analyzed in this batch:

20100978-06A	20100978-07A	20100978-08A
20100978-09A	20100978-10A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69731** Instrument ID **HG1** Method: **SW7471A**

MBLK		Sample ID: MBLK-69731-69731				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337741		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS		Sample ID: LCS-69731-69731				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337742		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 1.315 0.29 1.098 0 120 70.1-161 0

MS		Sample ID: 20100838-01B MS				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337744		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.6717 0.25 0.6865 0.006345 96.9 69-147 0

MSD		Sample ID: 20100838-01B MSD				Units: mg/Kg		Analysis Date: 10/27/2020		
Client ID:		Run ID: HG1_201027A				SeqNo: 2337745		Prep Date: 10/27/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7625 0.27 0.7561 0.006345 100 69-147 0.6717 12.7 20

The following samples were analyzed in this batch:

20100978-01B	20100978-02B	20100978-03B
20100978-04B	20100978-05B	20100978-06B
20100978-07B	20100978-08B	20100978-09B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69790**

Instrument ID **HG1**

Method: **SW7471A**

MBLK		Sample ID: MBLK-69790-69790				Units: mg/Kg		Analysis Date: 10/30/2020		
Client ID:		Run ID: HG1_201030A		SeqNo: 2340923		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.30

LCS		Sample ID: LCS-69790-69790				Units: mg/Kg		Analysis Date: 10/30/2020		
Client ID:		Run ID: HG1_201030A		SeqNo: 2340924		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7791 0.30 1.116 0 69.8 69.5-161 0

MS		Sample ID: 20100958-08BMS				Units: mg/Kg		Analysis Date: 10/30/2020		
Client ID:		Run ID: HG1_201030A		SeqNo: 2340933		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.7808 0.28 0.7883 0.002594 98.7 69-147 0

MSD		Sample ID: 20100958-08BMSD				Units: mg/Kg		Analysis Date: 10/30/2020		
Client ID:		Run ID: HG1_201030A		SeqNo: 2340934		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.6681 0.25 0.7 0.002594 95.1 69-147 0.7808 15.6 20

The following samples were analyzed in this batch:

20100978-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69730**

Instrument ID **ICP3**

Method: **SW6010B**

MBLK				Sample ID: MBLK-69730-69730		Units: mg/Kg		Analysis Date: 10/27/2020 11:30 AM		
Client ID:		Run ID: ICP3_201027A		SeqNo: 2337979		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS				Sample ID: LCS-69730-69730		Units: mg/Kg		Analysis Date: 10/27/2020 11:35 AM		
Client ID:		Run ID: ICP3_201027A		SeqNo: 2337980		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	93.07	5.0	100	0	93.1	80-120	0			
Barium	98.47	10	100	0	98.5	81.6-112	0			
Cadmium	93.17	1.0	100	0	93.2	86-114	0			
Chromium	89.16	2.0	100	0	89.2	74.6-110	0			
Lead	94.73	5.0	100	0	94.7	82.9-117	0			
Selenium	93.6	3.0	100	0	93.6	86.2-110	0			
Silver	101.6	1.0	100	0	102	77.1-118	0			

LCSD				Sample ID: LCSD-69730-69730		Units: mg/Kg		Analysis Date: 10/27/2020 11:39 AM		
Client ID:		Run ID: ICP3_201027A		SeqNo: 2337981		Prep Date: 10/27/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	94.74	5.0	100	0	94.7	80-120	93.07	1.78	20	
Barium	100.2	10	100	0	100	81.6-112	98.47	1.74	20	
Cadmium	95.45	1.0	100	0	95.4	86-114	93.17	2.42	20	
Chromium	92.76	2.0	100	0	92.8	74.6-110	89.16	3.96	20	
Lead	96.38	5.0	100	0	96.4	82.9-117	94.73	1.73	20	
Selenium	96.58	3.0	100	0	96.6	86.2-110	93.6	3.13	20	
Silver	107.1	1.0	100	0	107	77.1-118	101.6	5.27	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69730** Instrument ID **ICP3** Method: **SW6010B**

MS				Sample ID: 20100978-03B MS			Units: mg/Kg		Analysis Date: 10/27/2020 12:57 PM	
Client ID: B-19 (6-8)				Run ID: ICP3_201027A			SeqNo: 2337997		Prep Date: 10/27/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	76.58	4.6	91.74	6.474	76.4	75-125	0			
Barium	104.4	9.2	91.74	40.4	69.8	75-125	0			S
Cadmium	69.25	0.92	91.74	0.252	75.2	75-125	0			
Chromium	69.96	1.8	91.74	8.755	66.7	69.3-116	0			S
Lead	68.26	4.6	91.74	6.516	67.3	69.3-107	0			S
Selenium	65.6	2.8	91.74	-2.756	74.5	75-125	0			S
Silver	75.16	0.92	91.74	0.03048	81.9	75-125	0			

MSD				Sample ID: 20100978-03B MSD			Units: mg/Kg		Analysis Date: 10/27/2020 01:01 PM	
Client ID: B-19 (6-8)				Run ID: ICP3_201027A			SeqNo: 2337998		Prep Date: 10/27/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	79.33	4.7	94.52	6.474	77.1	75-125	76.58	3.53	20	
Barium	115.9	9.5	94.52	40.4	79.9	75-125	104.4	10.4	20	
Cadmium	71.94	0.95	94.52	0.252	75.8	75-125	69.25	3.81	20	
Chromium	74.42	1.9	94.52	8.755	69.5	69.3-116	69.96	6.18	20	
Lead	72.81	4.7	94.52	6.516	70.1	69.3-107	68.26	6.45	20	
Selenium	67.58	2.8	94.52	-2.756	74.4	75-125	65.6	2.98	20	S
Silver	78.19	0.95	94.52	0.03048	82.7	75-125	75.16	3.96	20	

The following samples were analyzed in this batch:

20100978-01B	20100978-02B	20100978-03B
20100978-04B	20100978-05B	20100978-06B
20100978-07B	20100978-08B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69789** Instrument ID **ICP3** Method: **SW6010B**

MBLK Sample ID: MBLK-69789-69789				Units: mg/Kg		Analysis Date: 10/29/2020 06:07 PM				
Client ID:		Run ID: ICP3_201029C		SeqNo: 2340771		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	5.0								
Barium	ND	10								
Cadmium	ND	1.0								
Chromium	ND	2.0								
Lead	ND	5.0								
Selenium	ND	3.0								
Silver	ND	1.0								

LCS Sample ID: LCS-69789-69789				Units: mg/Kg		Analysis Date: 10/29/2020 06:12 PM				
Client ID:		Run ID: ICP3_201029C		SeqNo: 2340772		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	97.35	5.0	100	0	97.4	80-120	0			
Barium	103.4	10	100	0	103	81.6-112	0			
Cadmium	98.88	1.0	100	0	98.9	86-114	0			
Chromium	97.07	2.0	100	0	97.1	74.6-110	0			
Lead	98.8	5.0	100	0	98.8	82.9-117	0			
Selenium	98.9	3.0	100	0	98.9	86.2-110	0			
Silver	109.3	1.0	100	0	109	77.1-118	0			

LCSD Sample ID: LCSD-69789-69789				Units: mg/Kg		Analysis Date: 10/29/2020 06:16 PM				
Client ID:		Run ID: ICP3_201029C		SeqNo: 2340773		Prep Date: 10/29/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	94.37	5.0	100	0	94.4	80-120	97.35	3.11	20	
Barium	100.8	10	100	0	101	81.6-112	103.4	2.55	20	
Cadmium	96.7	1.0	100	0	96.7	86-114	98.88	2.23	20	
Chromium	93.08	2.0	100	0	93.1	74.6-110	97.07	4.2	20	
Lead	95.68	5.0	100	0	95.7	82.9-117	98.8	3.21	20	
Selenium	96.52	3.0	100	0	96.5	86.2-110	98.9	2.44	20	
Silver	104	1.0	100	0	104	77.1-118	109.3	4.97	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69789**

Instrument ID **ICP3**

Method: **SW6010B**

MS				Sample ID: 20100958-08B MS			Units: mg/Kg		Analysis Date: 10/29/2020 07:04 PM	
Client ID:		Run ID: ICP3_201029C			SeqNo: 2340782		Prep Date: 10/29/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	73.66	4.4	87.87	3.2	80.2	75-125	0			
Barium	82.71	8.8	87.87	10.13	82.6	75-125	0			
Cadmium	73.98	0.88	87.87	0.1588	84	75-125	0			
Chromium	73.31	1.8	87.87	5.203	77.5	69.3-116	0			
Lead	67.48	4.4	87.87	5.127	71	69.3-107	0			
Selenium	69.17	2.6	87.87	-1.166	80	75-125	0			
Silver	83.3	0.88	87.87	0.01257	94.8	75-125	0			

MSD				Sample ID: 20100958-08B MSD			Units: mg/Kg		Analysis Date: 10/29/2020 07:09 PM	
Client ID:		Run ID: ICP3_201029C			SeqNo: 2340783		Prep Date: 10/29/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	77.85	4.4	87.87	3.2	84.9	75-125	73.66	5.53	20	
Barium	92.88	8.8	87.87	10.13	94.2	75-125	82.71	11.6	20	
Cadmium	77.45	0.88	87.87	0.1588	88	75-125	73.98	4.58	20	
Chromium	75.46	1.8	87.87	5.203	79.9	69.3-116	73.31	2.88	20	
Lead	70.74	4.4	87.87	5.127	74.7	69.3-107	67.48	4.72	20	
Selenium	73.9	2.6	87.87	-1.166	85.4	75-125	69.17	6.61	20	
Silver	85.13	0.88	87.87	0.01257	96.9	75-125	83.3	2.17	20	

The following samples were analyzed in this batch:

20100978-09B 20100978-10B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69714** Instrument ID **SVMS2** Method: **SW8270C**

mbk		Sample ID: MBLK-69714-69714				Units: µg/Kg		Analysis Date: 10/28/2020 03:38 PM		
Client ID:		Run ID: SVMS2_201028A				SeqNo: 2339755		Prep Date: 10/26/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	250								
2-Methylnaphthalene	ND	250								
Acenaphthene	ND	250								
Acenaphthylene	5.833	250								J
Anthracene	3.333	250								J
Benzo(a)anthracene	ND	120								
Benzo(a)pyrene	ND	120								
Benzo(b)fluoranthene	ND	250								
Benzo(g,h,i)perylene	ND	250								
Benzo(k)fluoranthene	ND	250								
Carbazole	ND	250								
Chrysene	ND	250								
Dibenzo(a,h)anthracene	ND	120								
Dibenzofuran	ND	250								
Fluoranthene	ND	250								
Fluorene	ND	250								
Indeno(1,2,3-cd)pyrene	ND	120								
Naphthalene	ND	250								
Phenanthrene	6.667	250								J
Pyrene	4.167	250								J
<i>Surr: 2-Fluorobiphenyl</i>	3076	0	4162		0	73.9	30-116	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69714**

Instrument ID **SVMS2**

Method: **SW8270C**

Ics				Sample ID: LCS-69714-69714				Units: µg/Kg		Analysis Date: 10/28/2020 04:00 PM	
Client ID:			Run ID: SVMS2_201028A			SeqNo: 2339756		Prep Date: 10/26/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	2014	200	3330	0	60.5	58.3-104	0				
2-Methylnaphthalene	2146	200	3330	0	64.4	54.9-103	0				
Acenaphthene	2293	200	3330	0	68.9	52-119	0				
Acenaphthylene	2753	200	3330	0	82.7	46-118	0				
Anthracene	2328	200	3330	0	69.9	53.8-114	0				
Benzo(a)anthracene	2322	100	3330	0	69.7	48-121	0				
Benzo(a)pyrene	2316	100	3330	0	69.5	40.1-114	0				
Benzo(b)fluoranthene	2432	200	3330	0	73	44-115	0				
Benzo(g,h,i)perylene	2429	200	3330	0	72.9	41.8-122	0				
Benzo(k)fluoranthene	2367	200	3330	0	71.1	39.5-116	0				
Carbazole	2376	200	3330	0	71.4	66-102	0				
Chrysene	2333	200	3330	0	70.1	49.2-115	0				
Dibenzo(a,h)anthracene	2455	100	3330	0	73.7	41.7-123	0				
Dibenzofuran	2272	200	3330	0	68.2	60.7-100	0				
Fluoranthene	2335	200	3330	0	70.1	52.7-118	0				
Fluorene	2257	200	3330	0	67.8	51.6-109	0				
Indeno(1,2,3-cd)pyrene	3015	100	3330	0	90.5	41.1-124	0				
Naphthalene	1970	200	3330	0	59.2	42.5-103	0				
Phenanthrene	2287	200	3330	0	68.7	49.7-100	0				
Pyrene	2219	200	3330	0	66.6	50.7-109	0				
Surr: 2-Fluorobiphenyl	2219	0	3330	0	66.6	30-116	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69714** Instrument ID **SVMS2** Method: **SW8270C**

ms Sample ID: 20100965-01BMS				Units: µg/Kg		Analysis Date: 10/28/2020 04:22 PM				
Client ID:		Run ID: SVMS2_201028A		SeqNo: 2339757		Prep Date: 10/26/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2084	200	3341	1.339	62.3	34.7-108	0			
2-Methylnaphthalene	2137	200	3341	1.339	63.9	38.6-102	0			
Acenaphthene	2267	200	3341	0.6693	67.8	44-108	0			
Acenaphthylene	2643	200	3341	3.347	79	43.6-110	0			
Anthracene	2157	200	3341	4.016	64.4	39.5-104	0			
Benzo(a)anthracene	2179	100	3341	10.71	64.9	47-114	0			
Benzo(a)pyrene	2171	100	3341	0	65	43.8-115	0			
Benzo(b)fluoranthene	2245	200	3341	6.693	67	40-106	0			
Benzo(g,h,i)perylene	2272	200	3341	6.024	67.8	38.2-110	0			
Benzo(k)fluoranthene	2256	200	3341	2.008	67.4	48.6-107	0			
Carbazole	2129	200	3341	4.016	63.6	41.9-101	0			
Chrysene	2162	200	3341	4.685	64.6	18.8-140	0			
Dibenzo(a,h)anthracene	2312	100	3341	0.6693	69.2	46-116	0			
Dibenzofuran	2184	200	3341	2.008	65.3	42.7-98.2	0			
Fluoranthene	2150	200	3341	5.355	64.2	35.1-111	0			
Fluorene	2133	200	3341	2.677	63.8	42.8-106	0			
Indeno(1,2,3-cd)pyrene	2875	100	3341	2.677	86	33-115	0			
Naphthalene	1980	200	3341	2.677	59.2	18.2-126	0			
Phenanthrene	2129	200	3341	4.685	63.6	31.2-127	0			
Pyrene	2084	200	3341	5.355	62.2	33.7-129	0			
<i>Surr: 2-Fluorobiphenyl</i>	2193	0	3341	0	65.6	30-116	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69714** Instrument ID **SVMS2** Method: **SW8270C**

msd				Sample ID: 20100965-01BMSD			Units: µg/Kg		Analysis Date: 10/28/2020 04:45 PM	
Client ID:				Run ID: SVMS2_201028A			SeqNo: 2339758		Prep Date: 10/26/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1927	200	3337	1.339	57.7	34.7-108	2084	7.83	20	
2-Methylnaphthalene	1984	200	3337	1.339	59.4	38.6-102	2137	7.43	20	
Acenaphthene	2074	200	3337	0.6693	62.1	40-108	2267	8.88	20	
Acenaphthylene	2422	200	3337	3.347	72.5	43.6-110	2643	8.76	20	
Anthracene	2029	200	3337	4.016	60.7	39.5-104	2157	6.11	24	
Benzo(a)anthracene	1997	100	3337	10.71	59.5	47-114	2179	8.75	21	
Benzo(a)pyrene	2015	100	3337	0	60.4	43.8-115	2171	7.42	20	
Benzo(b)fluoranthene	2055	200	3337	6.693	61.4	40-106	2245	8.81	20	
Benzo(g,h,i)perylene	2059	200	3337	6.024	61.5	38.2-110	2272	9.83	20	
Benzo(k)fluoranthene	2057	200	3337	2.008	61.6	48.6-107	2256	9.22	24	
Carbazole	2018	200	3337	4.016	60.4	41.9-101	2129	5.36	20	
Chrysene	2041	200	3337	4.685	61	18.8-140	2162	5.76	19	
Dibenzo(a,h)anthracene	2120	100	3337	0.6693	63.5	46-116	2312	8.7	20	
Dibenzofuran	1993	200	3337	2.008	59.7	42.7-98.2	2184	9.13	20	
Fluoranthene	1980	200	3337	5.355	59.2	35.1-111	2150	8.26	20	
Fluorene	2002	200	3337	2.677	59.9	42.8-106	2133	6.34	20	
Indeno(1,2,3-cd)pyrene	2549	100	3337	2.677	76.3	33-115	2875	12	20	
Naphthalene	1804	200	3337	2.677	54	18.2-126	1980	9.32	20	
Phenanthrene	2037	200	3337	4.685	60.9	31.2-127	2129	4.43	20	
Pyrene	1962	200	3337	5.355	58.6	33.7-129	2084	6.02	20	
<i>Surr: 2-Fluorobiphenyl</i>	2097	0	3337	0	62.8	30-116	2193	4.5		

The following samples were analyzed in this batch:

20100978-01B	20100978-02B	20100978-03B
20100978-05B	20100978-06B	20100978-07B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69764**

Instrument ID **SVMS2**

Method: **SW8270C**

MBLK				Sample ID: MBLK-69764-69764				Units: µg/Kg		Analysis Date: 10/29/2020 03:38 PM	
Client ID:			Run ID: SVMS2_201029A			SeqNo: 2341119		Prep Date: 10/28/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	ND	200									
2-Methylnaphthalene	ND	200									
Acenaphthene	ND	200									
Acenaphthylene	ND	200									
Anthracene	2.667	200								J	
Benzo(a)anthracene	ND	100									
Benzo(a)pyrene	ND	100									
Benzo(b)fluoranthene	ND	200									
Benzo(g,h,i)perylene	ND	200									
Benzo(k)fluoranthene	ND	200									
Carbazole	ND	200									
Chrysene	ND	200									
Dibenzo(a,h)anthracene	ND	100									
Dibenzofuran	ND	200									
Fluoranthene	ND	200									
Fluorene	ND	200									
Indeno(1,2,3-cd)pyrene	ND	100									
Naphthalene	ND	200									
Phenanthrene	2.667	200								J	
Pyrene	2.667	200								J	
Surr: 2-Fluorobiphenyl	2264	0	3330	0	68	30-116	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69764**

Instrument ID **SVMS2**

Method: **SW8270C**

LCS				Sample ID: LCS-69764-69764		Units: µg/Kg		Analysis Date: 10/29/2020 04:00 PM		
Client ID:			Run ID: SVMS2_201029A			SeqNo: 2341120		Prep Date: 10/28/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2346	200	3330	0	70.5	58.3-104	0			
2-Methylnaphthalene	2436	200	3330	0	73.2	54.9-103	0			
Acenaphthene	2510	200	3330	0	75.4	52-119	0			
Acenaphthylene	2636	200	3330	0	79.2	46-118	0			
Anthracene	2528	200	3330	0	75.9	53.8-114	0			
Benzo(a)anthracene	2399	100	3330	0	72.1	48-121	0			
Benzo(a)pyrene	2543	100	3330	0	76.4	40.1-114	0			
Benzo(b)fluoranthene	2616	200	3330	0	78.6	44-115	0			
Benzo(g,h,i)perylene	2752	200	3330	0	82.6	41.8-122	0			
Benzo(k)fluoranthene	2514	200	3330	0	75.5	39.5-116	0			
Carbazole	2655	200	3330	0	79.7	66-102	0			
Chrysene	2510	200	3330	0	75.4	49.2-115	0			
Dibenzo(a,h)anthracene	2729	100	3330	0	82	41.7-123	0			
Dibenzofuran	2395	200	3330	0	71.9	60.7-100	0			
Fluoranthene	2599	200	3330	0	78	52.7-118	0			
Fluorene	2357	200	3330	0	70.8	51.6-109	0			
Indeno(1,2,3-cd)pyrene	2755	100	3330	0	82.7	41.1-124	0			
Naphthalene	2176	200	3330	0	65.3	42.5-103	0			
Phenanthrene	2479	200	3330	0	74.5	49.7-100	0			
Pyrene	2545	200	3330	0	76.4	50.7-109	0			
Surr: 2-Fluorobiphenyl	2776	0	3330	0	83.4	30-116	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69764** Instrument ID **SVMS2** Method: **SW8270C**

ms					Sample ID: 20100958-08BMS					Units: µg/Kg		Analysis Date: 10/29/2020 04:22 PM		
Client ID:			Run ID: SVMS2_201029A			SeqNo: 2341121		Prep Date: 10/28/2020		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
1-Methylnaphthalene	2719	200	3330	0	81.7	34.7-108	0							
2-Methylnaphthalene	2726	200	3330	0	81.9	38.6-102	0							
Acenaphthene	2751	200	3330	0	82.6	44-108	0							
Acenaphthylene	3018	200	3330	0	90.6	43.6-110	0							
Anthracene	2612	200	3330	0	78.4	39.5-104	0							
Benzo(a)anthracene	2617	100	3330	0	78.6	47-114	0							
Benzo(a)pyrene	2715	100	3330	0	81.5	43.8-115	0							
Benzo(b)fluoranthene	2740	200	3330	0	82.3	40-106	0							
Benzo(g,h,i)perylene	2922	200	3330	0	87.7	38.2-110	0							
Benzo(k)fluoranthene	2737	200	3330	0	82.2	48.6-107	0							
Carbazole	2619	200	3330	0	78.6	41.9-101	0							
Chrysene	2683	200	3330	0	80.6	18.8-140	0							
Dibenzo(a,h)anthracene	2905	100	3330	0	87.2	46-116	0							
Dibenzofuran	2663	200	3330	0	80	42.7-98.2	0							
Fluoranthene	2609	200	3330	0	78.3	35.1-111	0							
Fluorene	2589	200	3330	0	77.8	42.8-106	0							
Indeno(1,2,3-cd)pyrene	2909	100	3330	0	87.3	33-115	0							
Naphthalene	2359	200	3330	0	70.8	18.2-126	0							
Phenanthrene	2577	200	3330	0	77.4	31.2-127	0							
Pyrene	2603	200	3330	0	78.2	33.7-129	0							
Surr: 2-Fluorobiphenyl	3083	0	3330	0	92.6	30-116	0							

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **69764** Instrument ID **SVMS2** Method: **SW8270C**

msd				Sample ID: 20100958-08BMSD			Units: µg/Kg		Analysis Date: 10/29/2020 04:45 PM	
Client ID:				Run ID: SVMS2_201029A			SeqNo: 2341122		Prep Date: 10/28/2020	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	2527	200	3326	0	76	34.7-108	2719	7.32	20	
2-Methylnaphthalene	2636	200	3326	0	79.3	38.6-102	2726	3.36	20	
Acenaphthene	2763	200	3326	0	83.1	40-108	2751	0.447	20	
Acenaphthylene	2961	200	3326	0	89	43.6-110	3018	1.92	20	
Anthracene	2541	200	3326	0	76.4	39.5-104	2612	2.74	24	
Benzo(a)anthracene	2474	100	3326	0	74.4	47-114	2617	5.63	21	
Benzo(a)pyrene	2585	100	3326	0	77.7	43.8-115	2715	4.91	20	
Benzo(b)fluoranthene	2706	200	3326	0	81.4	40-106	2740	1.26	20	
Benzo(g,h,i)perylene	2856	200	3326	0	85.9	38.2-110	2922	2.28	20	
Benzo(k)fluoranthene	2526	200	3326	0	76	48.6-107	2737	8.01	24	
Carbazole	2605	200	3326	0	78.3	41.9-101	2619	0.516	20	
Chrysene	2503	200	3326	0	75.3	18.8-140	2683	6.94	19	
Dibenzo(a,h)anthracene	2796	100	3326	0	84.1	46-116	2905	3.83	20	
Dibenzofuran	2608	200	3326	0	78.4	42.7-98.2	2663	2.1	20	
Fluoranthene	2578	200	3326	0	77.5	35.1-111	2609	1.19	20	
Fluorene	2613	200	3326	0	78.6	42.8-106	2589	0.892	20	
Indeno(1,2,3-cd)pyrene	2748	100	3326	0	82.6	33-115	2909	5.69	20	
Naphthalene	2242	200	3326	0	67.4	18.2-126	2359	5.09	20	
Phenanthrene	2578	200	3326	0	77.5	31.2-127	2577	0.0221	20	
Pyrene	2498	200	3326	0	75.1	33.7-129	2603	4.13	20	
<i>Surr: 2-Fluorobiphenyl</i>	2975	0	3326	0	89.5	30-116	3083	3.54		

The following samples were analyzed in this batch:

20100978-04B	20100978-08B	20100978-09B
20100978-10B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182568** Instrument ID **vms5** Method: **SW8260B**

mbk Sample ID: MBLK-R182568				Units: µg/Kg		Analysis Date: 10/27/2020 06:38 PM				
Client ID:		Run ID: VMS5_201027B		SeqNo: 2338486		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0								
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0								
1,2,3-Trichlorobenzene	ND	5.0								
1,2,3-Trichloropropane	ND	5.0								
1,2,4-Trichlorobenzene	ND	5.0								
1,2,4-Trimethylbenzene	ND	5.0								
1,2-Dibromo-3-chloropropane	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
1,2-Dichloropropane	ND	5.0								
1,3,5-Trimethylbenzene	ND	5.0								
1,3-Dichlorobenzene	ND	5.0								
1,3-Dichloropropane	ND	5.0								
1,4-Dichlorobenzene	ND	5.0								
2,2-Dichloropropane	ND	5.0								
2-Butanone	ND	50								
2-Chlorotoluene	ND	5.0								
2-Hexanone	ND	5.0								
4-Chlorotoluene	ND	5.0								
4-Methyl-2-pentanone	ND	5.0								
Acetone	ND	50								
Benzene	ND	5.0								
Bromobenzene	ND	5.0								
Bromochloromethane	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Work Order: 20100978
Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: R182568		Instrument ID vms5		Method: SW8260B				
Dibromomethane	ND	5.0						
Dichlorodifluoromethane	ND	5.0						
Ethylbenzene	ND	5.0						
Hexachlorobutadiene	ND	5.0						
Isopropylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methyl tert-butyl ether	ND	5.0						
Methylene chloride	ND	20						
Naphthalene	ND	5.0						
n-Butylbenzene	ND	5.0						
n-Propylbenzene	ND	5.0						
o-Xylene	ND	5.0						
p-Isopropyltoluene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	15						
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.89</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>62.7-159</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>54.17</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>88.4-146</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>49.28</i>	<i>0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>83-124</i>	<i>0</i>	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182568**

Instrument ID **vms5**

Method: **SW8260B**

Ics				Sample ID: LCS-R182568		Units: µg/Kg		Analysis Date: 10/27/2020 06:58 PM			
Client ID:			Run ID: VMS5_201027B			SeqNo: 2338487		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	49.04	5.0	50	0	98.1	53.6-149	0				
1,1-Dichloroethene	51.79	5.0	50	0	104	38.8-176	0				
1,2-Dichloroethane	53.4	5.0	50	0	107	54.4-145	0				
1,3-Dichlorobenzene	50.75	5.0	50	0	102	54.2-137	0				
1,4-Dichlorobenzene	50.2	5.0	50	0	100	52.8-135	0				
Benzene	54.01	5.0	50	0	108	56-148	0				
Carbon tetrachloride	50.49	5.0	50	0	101	51.9-151	0				
Chlorobenzene	51.08	5.0	50	0	102	55.4-137	0				
Chloroform	54.34	5.0	50	0	109	51.1-147	0				
cis-1,2-Dichloroethene	57.15	5.0	50	0	114	47.6-149	0				
Ethylbenzene	51.21	5.0	50	0	102	55.8-142	0				
m,p-Xylene	98.52	10	100	0	98.5	57.6-141	0				
Styrene	50.03	5.0	50	0	100	59.6-143	0				
Tetrachloroethene	33.26	5.0	50	0	66.5	56.2-160	0				
Toluene	51.96	5.0	50	0	104	56-143	0				
Trichloroethene	53.3	5.0	50	0	107	56.5-143	0				
Surr: 4-Bromofluorobenzene	47.81	0	50	0	95.6	62.7-159	0				
Surr: Dibromofluoromethane	50.81	0	50	0	102	88.4-146	0				
Surr: Toluene-d8	49.66	0	50	0	99.3	83-124	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182568**

Instrument ID **vms5**

Method: **SW8260B**

ms					Sample ID: 20100974-02A MS		Units: µg/Kg		Analysis Date: 10/28/2020 10:52 AM		
Client ID:			Run ID: VMS5_201027B			SeqNo: 2338697		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,1,1-Trichloroethane	50.31	5.0	50	0	101	66.9-140	0				
1,1-Dichloroethene	50.8	5.0	50	0	102	41.4-161	0				
1,2-Dichloroethane	48.75	5.0	50	0	97.5	58.9-137	0				
1,3-Dichlorobenzene	42.76	5.0	50	0	85.5	56.3-126	0				
1,4-Dichlorobenzene	41.26	5.0	50	0	82.5	58.3-122	0				
Benzene	53.17	5.0	50	0	106	35.8-162	0				
Carbon tetrachloride	50.31	5.0	50	0	101	53.2-137	0				
Chlorobenzene	46.26	5.0	50	0	92.5	65.6-137	0				
Chloroform	53.08	5.0	50	0	106	58-130	0				
cis-1,2-Dichloroethene	54.46	5.0	50	0	109	52.9-138	0				
Ethylbenzene	47.71	5.0	50	0	95.4	57.5-134	0				
m,p-Xylene	91.74	10	100	0	91.7	56.4-135	0				
Styrene	43.73	5.0	50	0	87.5	60.9-135	0				
Tetrachloroethene	32.12	5.0	50	0	64.2	52.1-160	0				
Toluene	49.57	5.0	50	0	99.1	67.7-135	0				
Trichloroethene	50.36	5.0	50	0	101	56.5-136	0				
Surr: 4-Bromofluorobenzene	48.34	0	50	0	96.7	62.7-159	0				
Surr: Dibromofluoromethane	50.64	0	50	0	101	88.4-146	0				
Surr: Toluene-d8	50.02	0	50	0	100	83-124	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.

Work Order: 20100978

Project: EDCO; A4110001

QC BATCH REPORT

Batch ID: **R182568**

Instrument ID **vms5**

Method: **SW8260B**

msd					Sample ID: 20100974-02A MSD					Units: µg/Kg		Analysis Date: 10/28/2020 12:24 PM	
Client ID:			Run ID: VMS5_201027B			SeqNo: 2338698		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,1,1-Trichloroethane	49.82	5.0	50	0	99.6	66.9-140	50.31	0.979	31.2				
1,1-Dichloroethene	51.51	5.0	50	0	103	41.4-161	50.8	1.39	38.1				
1,2-Dichloroethane	49.18	5.0	50	0	98.4	58.9-137	48.75	0.878	26.2				
1,3-Dichlorobenzene	44.19	5.0	50	0	88.4	56.3-126	42.76	3.29	21				
1,4-Dichlorobenzene	42.77	5.0	50	0	85.5	58.3-122	41.26	3.59	28.7				
Benzene	53.09	5.0	50	0	106	35.8-162	53.17	0.151	23.6				
Carbon tetrachloride	50.38	5.0	50	0	101	53.2-137	50.31	0.139	32.3				
Chlorobenzene	46.89	5.0	50	0	93.8	65.6-137	46.26	1.35	20				
Chloroform	53.64	5.0	50	0	107	58-130	53.08	1.05	28.2				
cis-1,2-Dichloroethene	55.47	5.0	50	0	111	52.9-138	54.46	1.84	23.7				
Ethylbenzene	48.52	5.0	50	0	97	57.5-134	47.71	1.68	24.9				
m,p-Xylene	92.01	10	100	0	92	56.4-135	91.74	0.294	25.1				
Styrene	44.66	5.0	50	0	89.3	60.9-135	43.73	2.1	22.8				
Tetrachloroethene	32.6	5.0	50	0	65.2	52.1-160	32.12	1.48	24.7				
Toluene	49.67	5.0	50	0	99.3	67.7-135	49.57	0.202	20				
Trichloroethene	51.03	5.0	50	0	102	56.5-136	50.36	1.32	20				
Surr: 4-Bromofluorobenzene	48.44	0	50	0	96.9	62.7-159	48.34	0.207					
Surr: Dibromofluoromethane	51.73	0	50	0	103	88.4-146	50.64	2.13					
Surr: Toluene-d8	49.67	0	50	0	99.3	83-124	50.02	0.702					

The following samples were analyzed in this batch:

20100978-01a	20100978-02a	20100978-03a
20100978-04a	20100978-05a	20100978-06a
20100978-07a	20100978-08a	20100978-09a
20100978-10a		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik&Smith Group, Inc.
Project: EDCO; A4110001
WorkOrder: 20100978

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
% of sample	
µg/Kg-dry	
mg/Kg-dry	

Sample Receipt Checklist

Client Name: **MANNIK&SMITH-COLUMBUS**

Date/Time Received: **23-Oct-20 16:50**

Work Order: **20100978**

Received by: **JDM**

Checklist completed by **Jan Wilcox**

23-Oct-20

Reviewed by: **Rob Nieman**

28-Oct-20

eSignature

Date

eSignature

Date

Matrices:

Carrier name: **ALSHN**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): 4.1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



Ship To: **ALS Environmental**
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242
Phone: (513) 733-5336
Fax: (513) 733-5347

Field Chain-of-Custody Record

Page 1 of 1

37455

20100978

Date: 10/21/20 Purchase Order No.: _____
Company Name: The Mannik + Smith Group Project No.: A4110001
Address: 1160 Dublin Rd Sampling Site: EDCO
Columbus OH 43215
City State Zip
Person to Contact: John Thornburg Billing Address (if different): _____
Email Address: jthornburg@mennik-smithgroup.com
Telephone (Cell): 614-425-7202
Alternate Contact: Larry Smith 614-314-7798

☒ REGULAR Status ☐ RUSH Status RESULTS REQUIRED BY: (Date) _____
OH VAP: ☒ YES ☐ NO CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
BUST: ☐ YES ☐ NO

ALS Lab ID	Sample ID / Description	Date	Time
01	B-17 (0-2')	10/21/20	1110
02	B-18 (4-6')	10/21/20	1145
03	B-19 (6-8')	10/21/20	1215
04	B-21 (0-2')	10/21/20	1250
05	B-20 (0-2')	10/21/20	1305
06	B-20 (5-7')	10/21/20	1315
07	B-25 (0-2')	10/21/20	1330
08	B-22 (0-2')	10/21/20	1400
09	B-23 (5-7')	10/21/20	1420
10	B-24 (6-8')	10/21/20	1440

Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED									
			VOX, TPH GRO	PAH, TPH GRO, PCRA Metals	VOX	PAH, PCRA Metals	PAH, PCRA Metals, TPH GRO, PCB					
9	S	2	1	1								
9	S	2	1	1								
9	S	2			1	1						
9	S	2			1	1						
9	S	2	1				1					
9	S	2			1	1						
9	S	2	1				1					
9	S	2			1	1						
9	S	2			1	1						

Notes:

Preservation Key: 1 - HCl 2 - HNO₃ 3 - H₂SO₄ 4 - NaOH 5 - Na₂S₂O₈ 6 - NaHSO₄ 7 - NaOH/ZnAcetate 8 - Other 9 - 4°C

Matrix Key: A - Air B - Bulk S - Soil W - Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>10/22/20</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>10/22/20</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>10/23/20</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>11:10 10/24/20</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>10/23/20</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date <u>11:10 10/24/20</u>

ALS LAB USE ONLY	
COOLER TEMP: <u>4.1</u> °C	pH ADJUSTMENTS: <u>[initials]</u>
COOLING METHOD: NONE ☒ COOLER ☒ WET ICE ☐ DRY ICE ☐ ICE PACK ☐	
DELIVERY METHOD: CLIENT ☐ DROP BOX ☐ FEDEX ☐ UPS ☐	
STD MAIL ☐ PRTY MAIL ☐ ALS ☒ COURIER ☐ OTHER: ☐	
CUSTODY SEALS: NONE ☒ COOLER ☐ PACKAGE ☐ SAMPLES ☐	
EQUIP. RETURNED: <u>[initials]</u>	

APPENDIX D-2

SOIL WASTE CHARACTERIZATION ANALYTICAL DATA



04-Oct-2022

Mike Coonfare
Civil & Environmental Consultants, Inc.
4841 Monroe Street
Suite 103
Toledo, OH 43623

Re: **EDCO**

Work Order: **22092554**

Dear Mike,

ALS Environmental received 2 samples on 26-Sep-2022 09:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Civil & Environmental Consultants, Inc.
Project: EDCO
Work Order: 22092554

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22092554-01	324-681:B-15 WC	Soil		9/22/2022 10:25	9/26/2022 21:00	☐
22092554-02	324-681:B-16 WC	Soil		9/22/2022 10:15	9/26/2022 21:00	☐

Client: Civil & Environmental Consultants, Inc.
Project: EDCO
Work Order: 22092554

Case Narrative

Samples for the above noted Work Order were received on 09/26/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Client: Civil & Environmental Consultants, Inc.
Project: EDCO
WorkOrder: 22092554

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Group, USA

Date: 04-Oct-2022

Client: Civil & Environmental Consultants, Inc.

Project: EDCO

Work Order: 22092554

Sample ID: 324-681:B-15 WC

Lab ID: 22092554-01

Collection Date: 9/22/2022 10:25 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020B		Prep: SW3015A 10/3/22 15:45	Analyst: STP
Lead	ND		0.050	mg/L	1	10/3/2022 08:55 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Oct-2022

Client: Civil & Environmental Consultants, Inc.

Project: EDCO

Work Order: 22092554

Sample ID: 324-681:B-16 WC

Lab ID: 22092554-02

Collection Date: 9/22/2022 10:15 AM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP METALS ANALYSIS BY ICP-MS			SW6020B		Prep: SW3015A 10/3/22 15:45	Analyst: STP
Lead	17	*	0.050	mg/L	1	10/3/2022 08:56 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Civil & Environmental Consultants, Inc.
Work Order: 22092554
Project: EDCO

QC BATCH REPORT

Batch ID: **204204** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-204204-204204				Units: mg/L		Analysis Date: 10/3/2022 08:39 PM		
Client ID:		Run ID: ICPMS3_221003A				SeqNo: 8860775		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Lead ND 0.0050

LCS		Sample ID: LCS-204204-204204				Units: mg/L		Analysis Date: 10/3/2022 08:41 PM		
Client ID:		Run ID: ICPMS3_221003A				SeqNo: 8860776		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Lead 0.09838 0.0050 0.1 0 98.4 80-120 0

MS		Sample ID: 22092598-03DMS				Units: mg/L		Analysis Date: 10/3/2022 09:02 PM		
Client ID:		Run ID: ICPMS3_221003A				SeqNo: 8860790		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Lead 0.1001 0.0050 0.1 0.0007755 99.3 75-125 0

MSD		Sample ID: 22092598-03DMSD				Units: mg/L		Analysis Date: 10/3/2022 09:04 PM		
Client ID:		Run ID: ICPMS3_221003A				SeqNo: 8860791		Prep Date: 10/3/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Lead 0.1015 0.0050 0.1 0.0007755 101 75-125 0.1001 1.42 20

The following samples were analyzed in this batch:

22092554-01A 22092554-02A

Ship To: **ALS | Environmental**
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242
Phone: **(513) 733-5336**
Fax: **(513) 733-5347**

Sample Receipt Checklist

Client Name: **CEC - TOLEDO**

Date/Time Received: **26-Sep-22 21:00**

Work Order: **22092554**

Received by: **DS**

Checklist completed by **Diane Shaw**

27-Sep-22

Reviewed by: **Chad Whelton**

27-Sep-22

eSignature

Date

eSignature

Date

Matrices: **Solid**

Carrier name: **Courier**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

3.9/4.9 c

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

9/27/2022 12:07:07 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: