

Construction Completion Report Operable Unit 5 (OU-5)

Sunnyside Yard Queens, New York (241006)

February 12, 2025

Prepared for:

National Railroad Passenger Corporation Washington, D.C. 20002

Prepared by:

Roux Environmental Engineering and Geology, D.P.C. 209 Shafter Street Islandia, New York 11749

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Plate

1. Site Plan Sewer System Base Map

Certification

I, Charles J. McGuckin, certify that I am currently a New York State registered professional engineer and that this Construction Completion Report for Weir Replacement work performed within Operable Unit #5 (Site No. 241006) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the New York State Department of Environmental Conservation Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10), the NYSDEC-approved alternate weir design dated November 27, 2023, by Metropolitan Transport Authority – East Side Access, and the NYSDEC-approved Operation, Maintenance and Monitoring (OM&M) Plan which is attached as Appendix I in the approved OU-5 CCR dated March 23, 2023.

Charles J. McGuckin, P.E. NYS Professional Engineer #069509 February 12, 2025 Date



1. Background and Site Description

National Railroad Passenger Corporation (Amtrak) and the New Jersey Transit Corporation (NJTC) entered into an Order on Consent (OOC) Index #W2-0081-87-06 with the New York State Department of Environmental Conservation (NYSDEC) in October 1989 for the Remedial Investigation (RI)/Feasibility Study (FS) portions of the remedial program at a 133-acre property located at Sunnyside Yard (Yard), 39-29 Honeywell Street in Queens, New York. Further, Amtrak and NJTC entered into the subsequent OOC Index #W2-0081-08-10 with NYSDEC in May 2010 for the implementation of NYSDEC-approved remedies at the Yard. Sunnyside Yard is listed as a Class II Site in the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites. A United States Geological Survey topographical quadrangle map (Figure 1) shows the Yard location.

The Yard is bounded by the Metropolitan Transportation Authority (MTA)/Long Island Railroad (LIRR) property to the north, Skillman Avenue to the south, light industrial and commercial properties and 42nd Place to the east, and Thomson Avenue to the west. The Yard functions as a maintenance facility for electric locomotives and railroad cars for Amtrak and a train layover storage yard for NJTC.

The Yard was subdivided into six Operable Units (OU) (Figure 2). The operable units are described as follows:

- Operable Unit 1 (OU-1) soil above the water table within the footprint of the proposed HSTF S&I Building. A Record of Decision (ROD) was issued for OU-1 in August 1997, and the remedial work was completed in April 1998;
- Operable Unit 2 (OU-2) soil above the water table within the footprint of the HSTF S&I Building ancillary structures. A No Further Action ROD was issued for OU-2 in November 1997;
- Operable Unit 3 (OU-3) soil and separate phase petroleum hydrocarbon (SPH) accumulation above the water table and soil below the water table within 8 acres in the north central portion of the Yard. The northern boundary of OU-3 extends onto MTA/LIRR property. A ROD was issued for OU-3 in March 2007, and the remedial work has been completed, and only monitoring is required.
- Operable Unit 4 (OU-4) soil above the water table (unsaturated zone) at the Yard, excluding the areas defined as OU-1, OU-2, and OU-3. A ROD was issued for OU-4 in March 2009;
- Operable Unit 5 (OU-5) sewer system (water and sediment) beneath the Yard. A ROD was issued for OU-5 in March 2012, and the majority of remedial work has been completed; and
- Operable Unit 6 (OU-6) saturated soil and the ground water beneath the Yard. OU-6 was later modified to also include soil vapor. A ROD was issued for OU-6 in March 2010. The remedy for OU-6 includes only routine monitoring in accordance with a Shallow Groundwater Monitoring Plan.

Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this Construction Completion Report (CCR) to summarize Operations Maintenance and Monitoring (OM&M) activities performed by others under the oversight of MTA and Amtrak between September 2024 and October 2024 in Operable Unit 5 (OU-5) of the Yard.

A Site Plan presenting the sewer system layout is presented in Plate 1. The Yard-wide sewer system consists of two (2) separate subsystems: the primary combined sewer system in the main section of the Yard servicing among other facilities, the commissary area, engine house, and the body tracks, which ultimately discharges to NYCDEP's Bowery Bay Wastewater Treatment Plant. The secondary sewer system is significantly smaller than the primary system and is a storm sewer system that serves the western section of the Yard (this portion)

of the Yard does not contain industrial activities). The secondary storm sewer system, which discharges to a sewer beneath 28th Street, is combined with other storm water discharge (unrelated to Amtrak or Yard operations) and ultimately discharges into Dutch Kills.

Manhole MH-40, located offsite and just downstream of the MTA/LIRR property, represents the collection point of three (3) sewer legs comprising the primary sewer system, and it is the furthest downstream manhole located in OU-5. As part of the OU-5 remedy, a weir was constructed of sandbags within MH-40 to mitigate suspended sediments in the combined outflow. The OM&M Plan for OU-5 requires periodic inspections of MH-40 and the weir. In 2023, an inspection of MH-40 weir, conducted by MTA, indicated that maintenance of the polyethylene sandbag weir was required. Instead of maintaining the existing weir, MTA proposed replacing the sandbag weir with a more robust concrete weir. The concrete weir design was submitted and approved by NYSDEC in their November 29, 2023 approval letter. This CCR summarizes work performed to install the concrete weir.

Of note, MH-40, which is referred to as "MH-M" by MTA, is *not* an Amtrak property, and is *not* controlled by Amtrak; however, MH-40 is associated with OU-5 of the Yard. After MH-40, wastewater flows through multiple structures, including an inverted siphon, on MTA property as shown on Figures in Appendix A. The siphon was constructed in 1998 to accommodate the MTA's East Side Access. The siphon functions as a component of the New York City Department of Environmental Protection (NYCDEP) combined sewer system wherein sewage and stormwater are passed within. The siphon is comprised of three chambers (i.e., Chambers A, B and C). The siphon is located north of the Long Island Railroad (LIRR) Mid-Day Yard, and the Amtrak and New Jersey Transit Corporation (NJTC) Sunnyside Yard at the intersection of Northern Boulevard and 40th Avenue, Queens, New York and is not part of OU-5.

In September 2021, Hurricane Ida impacted New York City. According to the NYCDEP, large volumes of stormwater flowed into the siphon during the Hurricane Ida event carried an excessive quantity of material within tunnels and associated sumps connecting Chambers B and C (note the siphon, including Chambers B and C are not part of OU-5, nor are they on Amtrak Yard property). To improve siphon functionality, NYCDEP and MTA/LIRR agreed to collectively undertake a combined sewer cleanout effort from the siphon back upstream to MH40 concluding at MH2 (the furthest downstream location on Amtrak Yard property). As part of this effort, NYCDEP's contractor collected waste characterization samples from these downstream structures (as described in the following section).

2. Scope of Work

Previous remediation of OU-5 was performed in accordance with the OU-5 RAWP dated September 26, 2012, and approved by NYSDEC in a letter dated January 30, 2013. The results of the OU-5 remediation were summarized in the approved OU-5 CCR dated March 23, 2023, which included an OM&M Plan as Appendix I.

Part of the OU-5 remedy included the installation of a weir within the terminal manhole, MH-40, of the sewer system. The original MH-40 weir was constructed of polyethylene sandbags. Each bag was constructed of durable polyethylene manufactured to be resistant to chemicals, oil, and ultraviolet damage. The sandbag weir was configured to be three rows deep (approximately 3.5 feet long), and three bags in height (approximately 18- inches tall), across the entire east-west span of the Manhole MH-40 vault area.

As discussed in the March 23, 2023 CCR, maintenance was performed in February 2022, which included the reconstruction of the MH-40 weir with new sandbags.

As a requirement of the approved OU-5 OM&M Plan, inspection of the MH-40 weir is required every two years. If the inspection indicates that maintenance of the weir is required, NYSDEC is required to be notified prior to performing maintenance of MH40 weir.

An inspection of MH-40 weir, conducted by MTA in 2023, indicated that maintenance of the polyethylene sandbag weir was required.

2.1 Proposed Maintenance and NYSDEC Approval

In response to the required maintenance, an alternate weir design, constructed of reinforced concrete, was prepared by MTA East Side Access and submitted to NYSDEC for their review and approval on November 27, 2023. On November 29, 2023, NYSDEC issued an approval letter for the alternative weir design. A copy of the alternative weir design and NYSDEC approval letter are included in Appendix B herein.

2.2 Sediment Waste Characterization

Prior to installation of the approved alternative weir design, waste characterization sampling of sediment was performed within downstream structures of MH-40. The sediment waste characterization sampling was performed by H2M Architects and Engineers (H2M) on behalf of NYCDEP on March 16, 2023. A total of four sediment samples were collected for laboratory analysis. The samples were analyzed for parameters based on the proposed disposal facility. The analytical results indicated Aroclor 1260 was detected in all four samples in concentrations ranging from 0.0348 milligrams per kilogram (mg/kg) to 2.2 mg/kg. The results of the sediment sampling are included in the In-Situ Waste Characterization letter report prepared by H2M dated April 14, 2023 found in Appendix C herein.

2.3 Sediment Removal and Disposal

Per conditions of the ROD for OU-5, Amtrak has responsibility to clean out sediment of a 45-foot segment within vicinity of the weir. Between September 3 and 6, 2024, National Water Main Cleaning Company (NWMCC), under the oversight of NYCDEP/MTA/Amtrak, removed and disposed of sediments from sewer system in the vicinity of MH-40. A total of 54.88 tons of sediment was removed by vacuum truck and subsequently transported and disposed of at Lemcor, Inc., 170 Frelinghuysen Avenue, Newark, NJ, 074114.

Roux conducted an inspection of the removal of the sediments from MH-40 on September 5, 2024. Roux observed NWMCC enter the confined space at MH-40 and proceed to remove former structures within the manhole including wood debris and piping. NWMCC then proceeded to use a vacuum truck to remove sediment from within the manhole structure.

A copy of the NYCDEP daily work reports associated with the sediment removal and the waste facility disposal scale tickets are included in Appendix D herein.

2.4 Weir Construction and As-Built Drawing

Between September 30 and October 4, 2024, JLJ IV Enterprises Inc., under the oversight NYCDEP performed the installation of the NYSDEC-approved alternative weir within MH-40.

In accordance with the NYSDEC-approved design drawing, the alternative weir was installed in the same location as the original sandbag weir. The top of the new weir was installed at the same invert elevation as the previous weir to ensure the alternative weir functions in accordance with the original design. The alternative weir was constructed of reinforced concrete and measures 8-inches wide, 18-inches high, and spans the entire 9.5-foot length of the manhole structure.

Following the installation of the alternative weir within MH-40, an as-built drawing of weir was prepared and certified by Donald Van Gerve, P.E.

A copy of the NYCDEP daily work reports during installation and the as-built drawing of the alternative weir are included Appendix E herein.

FIGURES

- 1. Location of Site
- 2. Amtrak Sunnyside Yard Layout



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APPENDICES

- A. As-Built Figures of MTA Siphon
- B. NYSDEC Approval Letter
- C. Waste Characterization Letter Report
- D. Sediment Disposal Daily Work Reports and Disposal Tickets
- E. Weir Replacement Daily Work Reports and As-Built Drawing

OU-5 Construction Completion Report Sunnyside Yard, Queens, New York

APPENDIX A

As-Built Figures of MTA Siphon





OU-5 Construction Completion Report Sunnyside Yard, Queens, New York

APPENDIX B

NYSDEC Approval Letter





PARSONS TRANSPORTATION GROUP OF NEW YORK INC.

STRUCTURAL NOTES:

- 1. CAST-IN-PLACE CONCRETE
- F'C = 4,000 PSI
- 2. EPOXY COATED REINFORCING STEEL (ASTM A775 GRADE 60) FY = 60,000 PSI 3"
- 3. MINIMUM COVER FOR REINFORCEMENT
- 4. ALL EXPOSED CAST-IN-PLACE CONCRETE EDGES SHALL BE CHAMFERED 3/4" X 3/4" UNLESS NOTED OTHERWISE

CONCRETE

- A. USE PREMIX HIGH STRENGTH CONCRETE MIX BY SAKRETE OR APPROVED EQUAL
- THE WATER USED FOR MIXING CONCRETE SHALL BE POTABLE FRESH WATER. Β.
- C. ALLOWED SLUMP SHALL BE 4 INCHES +/- 1 IN. D. SUBMIT PRODUCT FOR ENGINEER'S APPROVAL

EPOXY GROUTING OF REINFORCING

A. NONSHRINK EPOXY GROUT SHALL BE A 100% SOLIDS, VERY HIGH STRENGTH, HIGH PERFORMANCE, PRE-PACKAGED SYSTEM CONTAINING THERMOSETTING EPOXY RESINS, EXPANSIVE ADDITIVES AND INERT FILLERS. THE MANUFACTURER SHALL BE ISO 9001 CERTIFIED AND HAVE AT LEAST 10 YEARS EXPERIENCE IN THE MANUFACTURE OF NONSHRINK EPOXY GROUTS. THE MANUFACTURER SHALL OFFER TECHNICAL SERVICES AND PROVIDE A REPRESENTATIVE AT THE JOBSITE FOR PRODUCT TRAINING PRIOR TO PRODUCT INSTALLATION UPON FIVE DAYS ADVANCE NOTICE.

B. THE MATERIAL SHALL MEET ALL THE FOLLOWING TYPICAL PERFORMANCE CRITERIA WHEN POST CURED AT 70°F

1. COMPRESSIVE STRENGTH, ASTM C 579 B* UNIT TYPE STANDARD GRADE STRENGTH COMP. STRENGTH 1 DAY 16,500 PSI, 7 DAY 17,500 PSI, 28 DAYS 20,000 PSI

- 2. HEIGHT CHANGE, ASTM C 827 70 F POSITIVE EXPANSION POSITIVE EXPANSION
- 3. EFFECTIVE BEARING AREA 95%
- 4. TENSILE STRENGTH, ASTM C 307 70 F (2,000 PSI)
- 5. CREEP, ASTM C 1181 1 YEAR, 400 PSI, 140F 0.5 X 10-3 IN/IN 1.0 X 10-3 IN/IN
- 6. FLEXURAL STRENGTH, ASTM C 580 5,000 PSI
- 7. BOND TO CONCRETE, ASTM C 882 CONCRETE FAILURE CONCRETE FAILURE
- 8. COEFFICIENT OF EXPANSION, ASTM C 531 16 X 10-6 IN/IN/OF 17 X 10-6 IN/IN/OF
- C. CONCRETE SURFACES

SHALL BE DIMENSIONALLY STABLE, FREE OF OIL, GREASE, LAITANCE AND OTHER CONTAMINANTS. MECHANICALLY ROUGHEN SURFACES TO OBTAIN CLEAN, SOUND CONCRETE BY ACCEPTABLE MECHANICAL MEANS, EXPOSING COARSE AGGREGATE. USE TOOLS SUCH AS PNEUMATIC CHIPPING GUNS FOR MECHANICAL SURFACE PREPARATION. DO NOT USE JACK HAMMERS TO PREPARE CONCRETE SURFACES.

D. PRIOR TO PLACEMENT, CONCRETE SURFACES SHALL BE VISIBLY DRY AND BLOWN FREE OF DUST AND DEBRIS USING OIL-FREE COMPRESSED AIR

E. SUBMIT EPOXY PRODUCT FOR ENGINEER'S APPROVAL.

EXECUTION

DEWATER THE WORK AREA BY BLOCKING THE FLOW IN THE CULVERT UP STREAM PUMPING THE FLOW AROUND THE WORK AREA.

REMOVE ALL ACCUMULATED DEBRIS INCLUDING ANY REMAINING SANDBAGS FROM THE WORK AREA. THOROUGHLY CLEAN ALL SURFACES OF THE EXISTING CONCRETE THAT WILL ABOUT THE NEW CONCRETE.

DRILL AND EPOXY GROUT REBAR AS SHOWN ON THE PLANS.

FORM THE WEIR AS SHOWN ON THE PLANS.

CAST IN PLACE CONCRETE.

FORMS CAN BE STRIPPED AFTER 48 HOURS AND INSPECTION BY THE ENGINEER. ANY VOIDS OR HONEYCOMBING SHALL BE REPAIRED.

DEWATERING CAN BE REMOVED WITH THE ENGINEERS ACCEPTANCE OF THE CONCRETE WORKMANSHIP.

ATA Construction & Development

DESIGN OF PERMANENT WEIR AT MANHOLE M STRUCTURAL NOTES DWG. CT-103





WSP USA STV INCORPORATED PARSONS TRANSPORTATION GROUP OF NEW YORK INC.

"FOR INFORMATION ONLY" "FOR INFORMATION CONSTRUCTION

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2 47-40 21st Street, Long Island City, NY 11101 P: (718) 482-4995 www.dec.ny.gov

November 29, 2023

VIA EMAIL

Claudia Taccetta National Railroad Passenger Corporation 400 West 31st Street New York, NY 10001 <u>claudia.taccetta@amtrak.com</u>

Re: Amtrak Sunnyside Yard - Operable Unit (OU) 5 Site Code 241006 Weir Replacement

Dear Ms. Taccetta:

The New York State Department of Environmental Conservation (the Department) has reviewed the proposal to replace the existing 18-inch weir made of sandbags located downstream from MH-40 with 18-inch concrete weir at the same location. The proposal was submitted on November 27, 2023, by Metropolitan Transport Authority – East Side Access. The Department has no objection to the proposed change.

After the completion of weir replacement, a Construction Completion Report (CCR) must be submitted within one month by Roux Environmental Engineering and Geology, D.P.C. (ROUX) with certified as-build drawings. The CCR will document all activities performed, including contaminated media removal from MH-40, waste disposal etc. All work must be done in accordance with the approved Operation, Maintenance and Monitoring (OM&M) Plan which is attached as Appendix I in the approved OU-5 CCR dated March 23, 2023.

If you have any questions regarding this letter, please call me at (718) 482-6405.

Sincerely,

Hasan Ahmed Project Manager

cc: J. O'Connell, C. Maycock – NYSDEC S. McLaughlin, A. Ghosh – NYSDOH C. McGuckin, R. Kovacs, J. Wills – Roux M. Panhuise – Amtrak L. Blugh-Willis, T. Lhundup – MTACC-ESA



OU-5 Construction Completion Report Sunnyside Yard, Queens, New York

APPENDIX C

Waste Characterization Letter Report



April 14, 2023

Ms. Shay McAtmney New York City Department of Environmental Protection Chief Environmental Compliance Bureau of Water and Sewer Operations 59-17 Junction Boulevard, 3rd Floor Low-rise Flushing, New York 11373

Re: In-Situ Waste Characterization Northern Boulevard Siphon Cleaning at MTA East Side Access

Dear Ms. McAtmney:

At the request of the New York City Department of Environmental Protection (DEP), H2M architects + engineers (H2M) conducted in-situ waste characterization sampling for pre-characterization sampling associated with DEP's proposed Northern Boulevard Siphon Cleaning at the Mass Transit Authority (MTA) East Side Access (hereinafter the "Siphon"). The project will involve the removal of approximately 790 tons of combined sewer sediments and sludges (hereinafter "material"). A site location and sewer layout map, and a Siphon as-built drawing are provided as **Figures 1 and 2**, respectively and are provided in **Attachment A**.

The Siphon was constructed in 1998 to accommodate the MTA's East Side Access. The Siphon functions as a component of the DEP's combined sewer system wherein sewage and stormwater are passed within. The Siphon is comprised of three chambers (i.e., Chambers A, B and C). The Siphon is located north of the Long Island Railroad (LIRR) Mid-Day Yard, and the Amtrak and New Jersey Transit Corporation (NJTC) Sunnyside Yard at the intersection of Northern Boulevard and 40th Avenue, Queens, New York. The Sunnyside Yard is listed as a Class II Site in the New York State Department of Environmental Conservation's (NYSDEC's) Registry of Inactive Hazardous Waste Disposal Sites. The major contaminants of concern associated with the Sunnyside Yard are polychlorinated biphenyls (PCBs).

In September 2021, Hurricane Ida impacted New York City. According to the DEP, stormwater flowed into the Siphon during the Hurricane Ida event carrying an excessive quantity of material that currently remain within tunnels and associated sumps connecting Chambers B and C. Due to the proximity to the nearby Sunnyside Yard, an insitu waste characterization plan was considered necessary to determine if contamination was present within the material prior to the removal of same.

Chamber B is commonly referred to as the "West Shaft" and the "West Sump". Chamber C is commonly referred to as the "East Shaft" and the "East Sump". The bases (i.e., sumps) of Chambers B and C are approximately 6 feet wide and located approximately 125 feet below grade (ftbg). Two pairs of 72-inch and 24-inch tunnels connect Chambers B and C and are approximately 162.5 feet in length. The western 72-inch tunnel is commonly referred to as the "West Siphon", and the eastern 72-inch tunnel is commonly referred to as the "East Siphon". Based upon information provided by the DEP, the West Siphon and East Siphon are estimated to contain 278 tons and 412 tons of material, respectively.

General flow direction between the two chambers is northward from Chamber C to Chamber B. Removal of material within and between Chambers B and C is critical to restore flow within the Siphon. Presently, the East Siphon is completely blocked and the flow within the West Siphon is significantly decreased.

It is important to note that the DEP and the Siphon are not subject to any United States Environmental Protection Agency (USEPA) or NYSDEC-mandated agreements. In-situ waste characterization sampling was conducted proactively due to the potential migration of impacted material from a nearby off-site source (i.e., Sunnyside Yard).



The overall project involves a cleanout of an existing combined sewer; therefore, no material is to be re-used and all removed material is to be disposed offsite. Prior to conducting in-situ sampling, H2M identified two disposal facilities capable of accepting the DEP's combined sewer materials if impacted with elevated concentrations of PCBs. The two facilities permitted to accept this type of waste material are: J.P. Mascaro & Sons Pioneer Crossing Landfill in Birdsboro, Pennsylvania and J.P. Mascaro & Sons White Pines Landfill in Millville, Pennsylvania. Thus, the soil sampling methodology and analytical requirements satisfied both the Pioneer Crossing Landfill and White Pines Landfill sampling protocols.

National Water Main Cleaning Co. ("National") is the DEP's contractor for the Siphon cleaning project. Prior to insitu material sample collections, each 72-inch Siphon required dewatering and then the DEP's contractor was able to enter the confined space to assist H2M with sample collections.

Materials were collected from the northern and southern terminuses (i.e., Chamber B and Chamber C, respectively) by others from both 72-inch Siphons under confined space entry procedures. H2M provided the DEP's contractor with individual factory-new and cleaned five-gallon buckets and lids prior to entering Chambers B & C. Material from within each 72-inch Siphon were deposited into individual buckets pre-marked as "Chamber B West 72-inch", "Chamber B East 72-inch", "Chamber C West 72-inch" and "Chamber C East 72-inch". The DEP's contractor was instructed to only fill buckets approximately one-half full before securing with lids. Each bucket was returned to the surface for H2M personnel to screen with a photoionization detector (PID), record physical characteristics and transfer into laboratory-supplied glassware and ice-packed coolers. Residual material within each bucket after sampling was completed, was returned to the respective 72-inch Siphon.

Each of the four in-situ material samples were submitted for analysis to Chemtech laboratory headquartered in Mountainside, New Jersey, a New York State Department of Environmental Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory with a standard 10 business day turnaround time. The following analyses were performed by Chemtech to satisfy both J.P. Mascaro & Sons facilities' waste acceptance criteria:

Totals Analyses:	TCLP Metals:	TCLP SVOCs:	
• pH	Arsenic	O-Cresol	
Free Liquids	Barium	M-Cresol	
 Ignitability 	Cadmium	P-Cresol	
Oil & Grease	Chromium	 1,4 Dichlorobenzene 	
• TPH	Copper	 2,4 Dinitrotoluene 	
PCBs	Lead	Hexachlorobenzene	
Reactive Cyanide	Mercury	 Hexachloro 1,3 butadiene 	
Reactive Sulfide	Nickel	Hexachloroethane	
 Total Organic Halogens (TOX) 	Selenium	Nitrobenzene	
 Total Solids (TS) 	Silver	 Pentachlorphenol 	
 Total Volatile Solids (TVS) 	Zinc	 2,4,5 Trichlorophenol 	
	 Aluminum 	 2,4,6 Trichlorophenol 	
	• Iron		

Н	2
	М

ASTM Leachate: • Ammonia-Nitrogen • Chemical Oxygen Demand (COD) • Oil & Grease • TPH	 TCLP Pesticides/Herbicides: Chlordane Endrin Heptachlor Heptachlor Epoxide Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex 	TCLP VOCs: Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,2 Dichloroethane 1,1 Dichloroethene 2-Butanone (MEK) Pyridine Tetrachloroethene Trichloroethene Vinyl Chloride Toluene Ethylbenzene
		Xylene

The sampling dates and H2M's identifications for each individual sample are as follows:

- 1. Chamber B 72" West: 03/16/2023
- 2. Chamber C 72" West: 03/16/2023
- 3. Chamber B 72" East: 03/22/2023
- 4. Chamber C 72" East: 03/24/2023

A summary table of data has been prepared by H2M and is provided as **Table 1** in **Attachment B**. The individual lab data reports are also attached (see **Attachment C)**.

H2M has evaluated the data and compared same to relevant USEPA 40 CFR Part 261 Subpart C – Characteristics of Hazardous Waste criteria to determine if the material qualifies as hazardous waste. In addition, H2M also compared the data to the J.P. Mascaro & Sons White Pines Landfill facility waste acceptance criteria. It is important to note that the in-situ waste characterization sampling data was generated to satisfy the landfill facility-specific criteria and data results do not have USEPA Characteristics of Hazardous Waste criteria comparisons.

The primary contaminants of concern that prompted the in-situ waste characterization were PCBs. PCB totals analyses include nine individual analyses for the following:

- 1. Aroclor-1016
- 2. Aroclor-1221
- 3. Aroclor-1232
- 4. Aroclor-1242
- 5. Aroclor-1248
- 6. Aroclor-1254
- 7. Aroclor-1262
- 8. Aroclor-1268
- 9. Aroclor-1260

PCBs and the nine individual Aroclor compounds listed above are not included by the USEPA in 40 CFR Part 261 Subpart C – Characteristics of Hazardous Waste. However, the Toxic Substances Control Act (TSCA) has established disposal requirements for solid wastes with a PCB concentration exceeding 50 parts per million (ppm). Individual states and disposal facilities have established maximum concentration thresholds for PCBs. In New York State, the NYSDEC has established a hazardous waste classification threshold of 50 parts per million (ppm) for individual Aroclor compounds and/or total PCBs. However, most disposal facilities within New York State have established a significantly lower threshold than 50 ppm for waste acceptance.



Aroclor-1260 was the sole PCB compound detected at concentrations above laboratory method detection limits in each of the four material samples from the Siphon. Aroclor-1260 was detected at the following concentrations in the four samples:

- 1. 2.2 ppm Chamber B 72" West
- 2. 1.6 ppm Chamber C 72" West
- 3. 0.0506 ppm Chamber B 72" East
- 4. 0.0348 ppm Chamber C 72" East

Each of the remaining compounds and analytes reported by Chemtech were compared to the USEPA hazardous waste criteria and J.P. Mascaro & Sons White Pines Landfill facility waste acceptance criteria. Based upon this review, H2M has determined that there were no concentrations that classified the material as hazardous waste and that the material should be considered acceptable waste at the J.P. Mascaro & Sons White Pines Landfill facility. H2M recognizes that the DEP routinely disposes of combined sewer sediments and sludges at DEP-approved facilities. Thus, the data generated from this in-situ waste characterization may also be useful to the DEP and its contractor to facilitate material disposal at an alternate facility.

Please feel free to contact me directly if you have any questions regarding the in-situ waste characterization activities summarized in this letter.

Very truly yours,

H2M architects + engineers

Stephen I. Kaplan, P.G. Practice Leader | Environmental

Att.



ATTACHMENT A

FIGURES







ATTACHMENT B

TABLE 1



-						Federal (RCRA-		
O		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
		B-72-WEST	C-72-WE31	B-72-EA31	C-72-EAST	Waste Criteria	Facility Linits	Facility Note
Lab Sample Number		01975-03	01975-06	02058-03	02102-03			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
COMPOUND	CAS #							*Based upon 20x
ASTM TPH		1.65 U	1.65 U	1.65 U	1.65 U	NA	5,000*	rule
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-12-EAST	C-72-EAST	waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-03	O1975-06	O2058-03	O2102-03			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
COMPOUND	CAS #							*Deced upon 20v
ASTM Oil and Grease		0.53 U	0.53 U	0.53 U	0.53 U	NA	5.000*	rule
		0.00 0	0.00 0	0.00 0	0.00 0	Federal (RCRA-	0,000	
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-03	O1975-06	O2058-03	O2102-03			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		Water	Water	Water	Water	WATER	WATER	
Linits		ma/L	ma/L	ma/L	ma/L	mal		
	CAS #					mg/L	mg/∟	
	CAS#							
ASTM COD		11	24	24	7.97 J	NA	220,000	
						Federal (RCRA-	White Pince	White Pince
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	CHAMBER-	Waste Criteria	Facility Limits	Facility Note
Lah Cample Number		01975-03	01975-06	02058-03	02102-03		·	
		01975-05	01975-00	02030-03	02102-03			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	
Units		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
COMPOUND	CAS #							
ASTM Ammonia		0.054 J	10.2 D	15.1 D	20.2 D	NA	50,000*	*Ammonia-Nitrates
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-01	O1975-04	O2058-01	O2102-01			
Sampling Date		0/40/0000						
		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		3/16/2023 SOIL	3/16/2023 SOIL	3/22/2023 SOIL	3/24/2023 SOIL	SOIL	SOIL	
Matrix Units		3/16/2023 SOIL ug/kg	3/16/2023 SOIL ug/kg	3/22/2023 SOIL ug/kg	3/24/2023 SOIL ug/kg	SOIL ug/kg	SOIL ug/kg	
Matrix Units COMPOLIND	CAS #	3/16/2023 SOIL ug/kg	3/16/2023 SOIL ug/kg	3/22/2023 SOIL ug/kg	3/24/2023 SOIL ug/kg	SOIL ug/kg	SOIL ug/kg	
Matrix Units COMPOUND	CAS # Petroleum	3/16/2023 SOIL ug/kg	3/16/2023 SOIL ug/kg	3/22/2023 SOIL ug/kg	3/24/2023 SOIL ug/kg	SOIL ug/kg	SOIL ug/kg	
Matrix Units COMPOUND Petroleum Hydrocarbons	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg 109,000	3/16/2023 SOIL ug/kg 456,000	3/22/2023 SOIL ug/kg 34,900	3/24/2023 SOIL ug/kg 56,600	SOIL ug/kg NA	SOIL ug/kg 100,000,000	
Matrix Units COMPOUND Petroleum Hydrocarbons	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg <u>109,000</u> CHAMBER- B-72-WEST	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST	3/24/2023 SOIL ug/kg 56,600 CHAMBER-	SOIL ug/kg NA Toxic Substances	SOIL ug/kg 100,000,000 White Pines Facility Limito	White Pines
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg <u>109,000</u> CHAMBER- B-72-WEST	3/16/2023 SOIL ug/kg <u>456,000</u> CHAMBER- C-72-WEST	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST	SOIL ug/kg NA Toxic Substances Control Act (TSCA)	SOIL ug/kg 100,000,000 White Pines Facility Limits	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01	3/16/2023 SOIL ug/kg <u>456,000</u> CHAMBER- C-72-WEST O1975-04	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST O2058-01	3/24/2023 SOIL ug/kg <u>56,600</u> CHAMBER- C-72-EAST O2102-01	SOIL ug/kg NA Toxic Substances Control Act (TSCA)	SOIL ug/kg 100,000,000 White Pines Facility Limits	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg <u>109,000</u> CHAMBER- B-72-WEST O1975-01 3/16/2023	3/16/2023 SOIL ug/kg <u>456,000</u> CHAMBER- C-72-WEST O1975-04 3/16/2023	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST O2058-01 3/22/2023	3/24/2023 SOIL ug/kg <u>56,600</u> CHAMBER- C-72-EAST O2102-01 3/24/2023	SOIL ug/kg NA Toxic Substances Control Act (TSCA)	SOIL ug/kg 100,000,000 White Pines Facility Limits	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL	3/16/2023 SOIL ug/kg <u>456,000</u> CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL	3/24/2023 SOIL ug/kg <u>56,600</u> CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg <u>109,000</u> CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg	3/24/2023 SOIL ug/kg <u>56,600</u> CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND	CAS # Petroleum Hydrocarbons	3/16/2023 SOIL ug/kg <u>109,000</u> CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg	3/22/2023 SOIL ug/kg <u>34,900</u> CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg	3/24/2023 SOIL ug/kg <u>56,600</u> CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016	CAS # Petroleum Hydrocarbons CAS # 12674-11-2	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg 0.0062 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 IJ	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 IJ	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U 0.0095 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0091 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U 0.0095 U 0.0095 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-20-6	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0063 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U 0.0095 U 0.0095 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0102 U 0.0071 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 111141-16-5 53469-21-9 12672-29-6 11007 50 4	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0091 U 0.0093 U 0.0057 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST O1975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0078 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0095 U 0.0005 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0102 U 0.0071 U 0.0064 U 0.0064 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1248 Aroclor-1254	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0091 U 0.0063 U 0.0057 U 0.0076 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U 0.0054 U 0.0055 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U 0.0095 U 0.0095 U 0.00059 U 0.00059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0064 U 0.0085 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST 01975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0091 U 0.0005 U 0.0076 U 0.0076 U 0.0075 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U 0.0054 U 0.0055 U 0.0065 U 0.0065 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0123 U 0.0055 U 0.0055 U 0.0059 U 0.0079 U 0.0079 U 0.0079 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0071 U 0.0064 U 0.0085 U 0.0061 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1222 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1268	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 111141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST 01975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0091 U 0.0091 U 0.0063 U 0.0057 U 0.0055 U 0.0055 U 0.0055 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0049 U 0.0049 U 0.0049 U 0.0049 U 0.0047 U 0.0047 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0095 U 0.0095 U 0.0059 U 0.0079 U 0.0057 U 0.0057 U 0.0057 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0064 U 0.0085 U 0.0061 U 0.0061 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1222 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1260	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 111141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0091 U 0.0063 U 0.0055 U 0.0055 U 0.0067 U 2.2 D	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0078 U 0.0049 U 0.0049 U 0.0047 U 0.0047 U 0.0047 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0059 U 0.0059 U 0.0059 U 0.0057 U 0.0057 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0102 U 0.0071 U 0.0071 U 0.0064 U 0.0085 U 0.0061 U 0.0075 U 0.0348 J	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1248 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1268 Aroclor-1268	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0063 U 0.0063 U 0.0075 U 0.0076 U 0.0076 U 0.0076 U 0.0077 U 0.0076 U 0.0077 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U 0.0054 U 0.0049 U 0.0049 U 0.0049 U 0.0047 U 0.0057 U 1.6 D	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0071 U 0.0064 U 0.0064 U 0.0065 U 0.0061 U 0.0061 U 0.0075 U 0.0075 U 0.00348 J	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1222 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1268 Aroclor-1268 Aroclor-1260	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST 01975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0091 U 0.0063 U 0.0057 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0077 U 0.0076 U 0.0076 U 0.0076 U 0.0077 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U 0.0054 U 0.0055 U 0.0065 U 0.0065 U 0.0065 U 0.0065 U 0.0067 U 1.6 DI	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0123 U 0.0059 U 0.0066 U 0.0059 U 0.0059 U 0.0059 U 0.0057 U 0.0059 U 0.0059 U 0.0059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST 02102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0064 U 0.0064 U 0.0065 U 0.0061 U 0.0075 U 0.00348 J CHAMBER- C-72-EAST	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11104-28-2 11104-28-2 11104-28-2 11104-28-2 11104-28-2 11104-28-2 11104-28-2 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST 01975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0091 U 0.00051 U 0.0055 U 0.0055 U 0.0067 U 2.2 D CHAMBER- B-72-WEST 01975-01	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0078 U 0.0074 U 0.0049 U 0.0049 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0095 U 0.0069 U 0.0059 U 0.0059 U 0.0057 U 0.0057 U 0.0059 U 0.0057 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0064 U 0.0064 U 0.0064 U 0.0065 U 0.0061 U 0.0075 U 0.0075 U 0.0075 U 0.00348 J	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1222 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number Sampling Date	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 111141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0091 U 0.0063 U 0.0055 U 0.0075 U 0.0055 U 0.0067 U 2.2 D CHAMBER- B-72-WEST O1975-01 3/16/2023	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0049 U 0.0049 U 0.0049 U 0.0049 U 0.0047 U 0.0047 U 0.0047 U 0.0057 U 1.6 DI CHAMBER- C-72-WEST 01975-04 3/16/2023	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0069 U 0.0059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0071 U 0.0064 U 0.0064 U 0.0065 U 0.0065 U 0.0065 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1232 Aroclor-1248 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1268 Aroclor-1268 Aroclor-1268 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number Sampling Date Matrix	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0072 U 0.0071 U 0.0091 U 0.0091 U 0.0091 U 0.0091 U 0.0063 U 0.0055 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0077 U 0.0076 U 0.0077 U 0.0076 U 0.0077 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0078 U 0.0054 U 0.0054 U 0.0054 U 0.0055 U 0.0065 U 0.0047 U 0.0057 U 1.6 DI CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0069 U 0.0069 U 0.0059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0102 U 0.0071 U 0.0071 U 0.0064 U 0.0064 U 0.0064 U 0.0075 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1268 Aroclor-1268 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number Sampling Date Matrix Units	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0072 U 0.0071 U 0.0091 U 0.0091 U 0.00051 U 0.00057 U 0.00057 U 0.0076 U 0.0055 U 0.0076 U 0.0055 U 0.0076 U 0.0055 U 0.0076 U 0.0057 U 0.0055 U 0.0076 U 0.0075 U 0.0075 U 0.0076 U 0.0075 U 0.0076 U 0.0075 U 0.0076 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0076 U 0.0075 U 0.0076 U 0.0075 U 0.0077 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0076 U 0.0075 U 0.0077 U 0.007	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0054 U 0.0054 U 0.0055 U 0.0049 U 0.0055 U 0.0065 U 0.0047 U 0.0057 U 1.6 DI CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL %	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0066 U 0.0059 U 0.0059 U 0.0059 U 0.0057 U 0.0057 U 0.0057 U 0.0057 U 0.0057 U 0.0059 U 0.0059 U 0.0057 U 0.0059 U 0.0059 U 0.0059 U 0.0059 U 0.0059 U 0.0059 U 0.0057 U 0.0059 U 0.0057 U 0.0057 U 0.0057 U 0.0059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0071 U 0.0071 U 0.0061 U 0.0061 U 0.0061 U 0.0075 U 0.0075 U 0.00348 J CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL %	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note White Pines Facility Note White Pines Facility Note Total Volatile Solids [Residue, Volatile]
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1222 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 111141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0119 U 0.0071 U 0.0091 U 0.0091 U 0.00051 U 0.0055 U 0.0055 U 0.0055 U 0.0067 U 2.2 D CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL %	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0101 U 0.0078 U 0.0078 U 0.0078 U 0.0049 U 0.0049 U 0.0049 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U 0.0047 U 0.0057 U 1.6 DI CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL %	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST O2058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U 0.0075 U 0.0066 U 0.0059 U 0.0059 U 0.0059 U 0.0057 U 0.0057 U 0.0059 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0071 U 0.0064 U 0.0064 U 0.0065 U 0.0065 U 0.0061 U 0.0075 U 0.0075 U 0.00348 J CHAMBER- C-72-EAST O2102-01 3/24/2023 SOIL %	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note
Matrix Units COMPOUND Petroleum Hydrocarbons Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1232 Aroclor-1248 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1268 Aroclor-1268 Aroclor-1260 Sample ID Lab Sample Number Sampling Date Matrix Units COMPOUND TVS	CAS # Petroleum Hydrocarbons CAS # 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	3/16/2023 SOIL ug/kg 109,000 CHAMBER- B-72-WEST O1975-01 3/16/2023 SOIL mg/kg 0.0072 U 0.0072 U 0.0071 U 0.0071 U 0.0063 U 0.0063 U 0.0075 U 0.0075 U 0.0076 U 0.0076 U 0.0076 U 0.0077 U 0.0076 U 0.0077 U 0.0077 U 0.0077 U 0.0075 U 0.0077 U	3/16/2023 SOIL ug/kg 456,000 CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL mg/kg 0.0062 U 0.0078 U 0.0078 U 0.0054 U 0.0054 U 0.0049 U 0.0065 U 0.0047 U 0.0065 U 0.0047 U 0.0057 U 1.6 DI CHAMBER- C-72-WEST 01975-04 3/16/2023 SOIL %	3/22/2023 SOIL ug/kg 34,900 CHAMBER- B-72-EAST 02058-01 3/22/2023 SOIL mg/kg 0.0075 U 0.0075 U	3/24/2023 SOIL ug/kg 56,600 CHAMBER- C-72-EAST 02102-01 3/24/2023 SOIL mg/kg 0.0081 U 0.0133 U 0.0133 U 0.0133 U 0.0133 U 0.0071 U 0.0071 U 0.0064 U 0.0071 U 0.0064 U 0.0085 U 0.0085 U 0.0085 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0075 U 0.0074 U 0.0075 U 0.0070 U 0.0075 U 0.0070 U 0.0075 U 0.0075 U 0.0070 U 0.0075 U	SOIL ug/kg NA Toxic Substances Control Act (TSCA) SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	SOIL ug/kg 100,000,000 White Pines Facility Limits SOIL mg/kg 50 50 50 50 50 50 50 50 50 50 50 50 50	White Pines Facility Note

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						Federal (RCRA-	White Diver	White Diver
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
l ab Sample Number		01975-01	01975-04	O2058-01	O2102-01			
			0.0.000	02000 01	02.02.01			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Matrix								
Units		%	%	%	%	%	%	
COMPOLIND	CAS #							Volatile Solids in
								Solid and Semisolid
TS	TS	46.1	52.5	48.1	41.4	NA	See Note	Samples
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Somalo ID		B-72-WEST	C-72-WEST	B-72-FAST	C-72-FAST	Waste Criteria	Facility Limits	Facility Note
		D-72-WE01	0-12-11201	D-12-LAUI	0-12-LA01	Waste Ontena		
Lab Sample Number		O1975-02	O1975-05	O2058-02	O2102-02			
		2/16/2022	2/16/2022	2/22/2022	2/24/2022			
Sampling Date		3/10/2023	3/10/2023	3/22/2023	3/24/2023			
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		an a ll a	an a ll a		m n/l/ n			
Units		ing/kg	mg/kg	mg/kg	mg/Kg	mg/kg	mg/kg	
COMPOUND	CAS #							
Reactive Sulfide	RESU	6.31 J	7.91 J	7.92 J	6.37 J	500	500	
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Samula ID		B-72-WEST	C-72-WEST	B-72-FAST	C-72-FAST	Waste Criteria	Facility Limits	Facility Note
		D-72-WL31	0-12-WL01	D-12-LAU	0-12-LA01	Waste Ontena	r acinty Emits	r acinty Note
Lab Sample Number		O1975-02	O1975-05	O2058-02	O2102-02			
Sompling Data		3/16/2022	3/16/2022	3/22/2022	3/24/2022			
Sampling Date		5/10/2023	5/10/2023	JILLILULJ	JIL-1/2023			
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		malka	malka	malka	malka			
Units		ing/Kg	mg/Kg	mg/Kg	mg/Kg	mg/kg	mg/kg	
	CAS #							
Reactive Cyanide	RECY	0.011 U	0.011 U	0.018 J	0.019 J	250	NA	
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Commis ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Wasto Critoria	Eacility Limite	Eacility Noto
		D-12-WE31	C-12-WE31	D-12-LA31	C-12-EA31	Waste Criteria	Facility Linits	Facility Note
Lab Sample Number		O1975-01	O1975-04	O2058-01	O2102-01			
		2/4 0/2022	2/4 0/2022	2/22/2222	2/24/2022			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
						OOIL	UUIL	
Units		рН	рН	рН	рН	pH	рН	
	C^S #							
COMPOUND	UA3 #							
pH	pН	6.38	6.82	6.82	6.73	≤ 2 or ≥12.5	<3	
						Federal (RCRA-		
			CHAMPED	CHAMPED	CHAMPED		White Dines	White Dines
						TCLP) Hazardous	white Pines	white Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
l ab Sample Number		01975-01	01975-04	O2058-01	O2102-01			
			••••••					
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Motrix		SOIL	SOIL	SOIL	SOIL	501	201	
Watrix		3012	JUIL	SOIL	SOIL	501L	501L	
Units		ml/100gm	ml/100gm	ml/100gm	ml/100gm	ml/100gm	ml/100gm	
		-			-	J	U	
COMPOUND	CAS #							
Paint Filter		1 U	1 U	1 U	1 U	NA	NA	
				10			101	
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lob Somela Number		01975-01	01975-04	02058-01	02102-01			
Lab Sample Number		013/3-01	013/3-04	02030-01	52102-01			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Motrix		SOU	SOU	SOU	SOIL	0.01		
iviatr i x		JUL	JUIL	JUL	JUIL	SOIL	SOIL	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	ma/ka	ma/ka	
	010 "					5- 5	5-5	
COMPOUND	CAS #							
Oil and Grease	OAG	273	1.120	105 J	158 J	NA	100.000	
	-		-,			Endered (DCDA		
		0	0	0	0		M/1 1/2	
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	ICLP) Hazardous	white Pines	white Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
I ab Sample Number		01975-02	01975-05	O2058-02	O2102-02			
		01070 02	01070 00	02000 02	02102 02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
		SOII	SOIL	SOIL	801	001	0.011	
watrix		SUL	JUIL	JUIL	SUL	SOIL	SOIL	
Units		oC	оС	oC	oC	00	00	
	<u></u>							
COMPOUND	CAS #							
Ignitability	IGNIT	No	No	No	No	ΝΔ	Non-Ignitable	
				110	110			
						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Comple Munt		01075-02	01075-05	02059-02	02102-02			
Lab Sample Number		01913-02	01913-03	J20J0-02	02102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
		SOU	SOU	SON	SOIL			
watrix		SUL	JUIL	JUIL	JUIL	SOIL	SOIL	
Units		рН	рН	рН	pН	ъH	рH	
	A		-	-	-	P.1	P''	
COMPOUND	CAS #							
Corrosivity		00.3	6 00	6 00	6 72	< 2 or >12 5		
		0.00	0.02	0.02	0.10	- 2 UI = 12.J	<ی	

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						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-02	O1975-05	O2058-02	O2102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		TCLP	TCLP	TCLP	TCLP	TCLP	TCLP	
Units		ma/l	ma/l	ma/l	ma/l	ma/l	ma/l	
	CAS #	J. J	U	U	U			
Vinyl Chloride	75-01-4	0 00025 11	0 00025 11	0 00025 11	0 00025 11	0.2	0.2	
	75-01-4	0.00023 0	0.00023 0	0.00023 U	0.00023 0	0.2	0.2	
2 Butenene	73-33-4	0.00021 0	0.00021 0	0.00021 0	0.00021 0	0.7	0.7	
2-Butanone	78-93-3	0.011 J	0.0012 0	0.0012 0	0.0012 0	200	52	
	56-23-5	0.00013 0	0.00013 0	0.00013 0	0.00013 0	0.5	0.5	
Chloroform	67-66-3	0.00014 U	0.00014 U	0.00014 U	0.00014 U	6	6	
Benzene	71-43-2	0.00012 U	0.00012 U	0.00012 U	0.00012 U	0.5	0.5	
1,2-Dichloroethane	107-06-2	0.00016 U	0.00016 U	0.00016 U	0.00016 U	0.5	0.5	
Trichloroethene	79-01-6	0.00026 U	0.00026 U	0.00026 U	0.00026 U	0.5	0.5	
Toluene	108-88-3	0.16 D	0.0012 J	0.00014 U	0.00014 U	NA	600	
Tetrachloroethene	127-18-4	0.00017 U	0.00017 U	0.00017 U	0.00017 U	0.7	0.7	
Chlorobenzene	108-90-7	0.0016 J	0.0011 J	0.00012 U	0.00012 U	100	20	
Ethyl Benzene	100-41-4	0.00013 U	0.0045 J	0.00013 U	0.00013 U	NA	200	
Total Xylenes	1330-20-7	0.00046 U	0.022	0.00046 U	0.00046 U	NA	20.8	
						Federal (RCRA-		
Sampla ID		CHAMBER- B-72-WEST	CHAMBER-	CHAMBER- B-72-FAST	CHAMBER-	TCLP) Hazardous Waste Criteria	White Pines Facility Limits	White Pines
Sample ID		01975-02	01975-05	02058-02	02102-02	Waste Onteria		r acinty Note
Lab Sample Number		01975-02	01975-05	02038-02	02102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		ICLP	ICLP	ICLP	ICLP	TCLP	TCLP	
Units		mg/l	mg/l	mg/l	mg/I	mg/l	mg/l	
COMPOUND	CAS #							
Pyridine	110-86-1	0.018 U	0.018 U	0.018 U	0.018 U	5	5	
1,4-Dichlorobenzene	106-46-7	0.014 U	0.014 U	0.014 U	0.014 U	7.5	7.5	
2-Methylphenol	95-48-7	0.021 U	0.021 U	0.021 U	0.021 U	200	54.4	
3+4-Methylphenols	65794-96-9	0.13	0.022 U	0.022 U	0.022 U	200	54.4	
Hexachloroethane	67-72-1	0.016 U	0.016 U	0.016 U	0.016 U	3	3	
Nitrobenzene	98-95-3	0.017 U	0.017 U	0.017 U	0.017 U	2	2	
Hexachlorobutadiene	87-68-3	0.019 U	0.019 U	0.019 U	0.019 U	0.5	0.5	
2,4,6-Trichlorophenol	88-06-2	0.015 U	0.015 U	0.015 U	0.015 U	2	2	
2,4,5-Trichlorophenol	95-95-4	0.016 U	0.016 U	0.016 U	0.016 U	400	24	
2.4-Dinitrotoluene	121-14-2	0.025 U	0.025 U	0.025 U	0.025 U	0.13	0.13	
Hexachlorobenzene	118-74-1	0.019 U	0.019 U	0.019 U	0.019 U	0.13	0.13	
Pentachlorophenol	87-86-5	0.026 U	0.026 U	0.026 U	0.026 U	100	32	
r entaemerophener	01 00 0	0.020 0	0.020 0	0.020 0	0.020 0	Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		01975-02	O1975-05	O2058-02	O2102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		TCLP	TCLP	TCLP	TCLP	TCLP	TCLP	
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
COMPOUND	CAS #							
gamma-BHC (Lindane)	58-89-9	0.000064 U	0.000064 U	0.000064 U	0.000064 U	0.4	0.4	
Heptachlor	76-44-8	0.000073 U	0.000073 U	0.000073 U	0.000073 U	0.008	0.008	
Heptachlor epoxide	1024-57-3	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.008	0.008	
Endrin	72-20-8	0.000043 U	0.000043 U	0.000043 U	0.000043 U	0.02	0.02	
Methoxychlor	72-43-5	0.000066 U	0.000066 U	0.000066 U	0.000066 U	10	10	
Toxanhene	8001-35-2	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.5	0.5	
Chlordano	57 74 0		0.0007 11	0.0007 11	0.00007 11	0.0	0.0	
Chiordane	51-14-9	0.00097 0	0.00097 0	0.00097 0	0.00097 0	Federal (RCRA-	0.03	
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-02	O1975-05	O2058-02	O2102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		TCLP	TCLP	TCLP	TCLP	TCLP	TCLP	
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
COMPOUND	CAS #					5	5	
2,4-D	94-75-7	0.0057 U	0.0057 U	0.0057 U	0.0057 U	10	10	
2,4,5-TP (Silvex)	93-72-1	0.0054 U	0.0054 U	0.0054 U	0.0054 U	1	1	

2

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						Federal (RCRA-		
		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous	White Pines	White Pines
Sample ID		B-72-WEST	C-72-WEST	B-72-EAST	C-72-EAST	Waste Criteria	Facility Limits	Facility Note
Lab Sample Number		O1975-02	01975-05	O2058-02	O2102-02			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		TCLP	TCLP	TCLP	TCLP	TCLP	TCLP	
Units		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
COMPOUND	CAS #							
Aluminum	7429-90-5	0.28 U	0.28 U	0.28 U	0.28 U	NA	300	
Arsenic	7440-38-2	0.035 U	0.035 U	0.035 U	0.035 U	5	NA	
Barium	7440-39-3	0.82	0.45 J	0.8	1.41	100	NA	
Cadmium	7440-43-9	0.001 U	0.001 U	0.001 U	0.001 U	1	NA	
Chromium	7440-47-3	0.008 U	0.0098 J	0.008 U	0.008 U	5	NA	
Copper	7440-50-8	0.071 U	0.071 U	0.071 U	0.071 U	NA	32	
Iron	7439-89-6	57.7	66.1	57.7	41.6	NA	4,000	
Lead	7439-92-1	0.035 U	0.035 U	0.035 U	0.035 U	5	NA	
Mercury	7439-97-6	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.2	NA	
Nickel	7440-02-0	0.045 J	0.088 J	0.019 J	0.063 J	NA	120	
Selenium	7782-49-2	0.059 U	0.059 U	0.059 U	0.059 U	1	NA	
Silver	7440-22-4	0.0066 U	0.0066 U	0.0066 U	0.0066 U	5	NA	
Zinc	7440-66-6	0.4	0.88	1.1	0.76	NA	200	
						Federal (RCRA-		
Sampla ID		CHAMBER-	CHAMBER-	CHAMBER-	CHAMBER-	TCLP) Hazardous Waste Criteria	White Pines	White Pines
		23031468-	23031468-	23031824-	23032073-	Waste Ontena		I donity Note
Lab Sample Number		001A	002A	001A	001A			
Sampling Date		3/16/2023	3/16/2023	3/22/2023	3/24/2023			
Matrix		Solid	Solid	Solid	Solid	Solid	Solid	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
COMPOUND	CAS #							
Extractable Organic Halides (EOX)		19.5 J	13 J	11.7 U	25.8 J	NA	>100	Total Organic Halogen (TOX)



NYDP2001-16



ATTACHMENT C

LABORATORY DATA REPORTS



DATA PACKAGE

GENERAL CHEMISTRY METALS GC SEMI-VOLATILES SEMI-VOLATILE ORGANICS VOLATILE ORGANICS

PROJECT NAME : SIPHON

H2M ARCHITECTS + ENGINEERS

290 Broad Hollow Road

Suite 400E

Melville, NY - 11747

Phone No: 631-756-8000

ORDER ID : 02102 ATTENTION : Stephen I. Kaplan



Laboratory Certification ID # 20012


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2.3) TCLP Pesticide- Case Narrative	8
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Cover Page

- **Order ID :** 02102
- Project ID : Siphon

Client : H2M Architects + Engineers

Lab Sample Number

O2102-01 O2102-02 O2102-03

Client Sample Number

CHAMBER-C-72-EAST CHAMBER-C-72-EAST CHAMBER-C-72-EAST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following

signature. Signature :

5. M. Jodhumi

NYDOH CERTIFICATION NO - 11376

APPROVED By Sohil Jodhani, QA/QC Director² at 8:38 am, Apr 07, 2023

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

21

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TCLP VOA Group1

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP VOA Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of TCLP VOA Group1 was based on method 8260D and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples.

The RPD for {VN0328WBSD01} with File ID: VN077234.D met criteria except for 1,1-Dichloroethene [87%] due to difference in results of BS and BSD.

The Blank Spike for {VN0328WBS01} with File ID: VN077233.D met requirements for all samples except for Vinyl chloride [144%], 1,1-Dichloroethene [248%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VN0328WBSD01} with File ID: VN077234.D met requirements for all samples except for Vinyl chloride [144%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .



The Continuous Calibration File ID VY013055.D met the requirements except for Vinyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:38 am, Apr 07, 2023

21



CASE NARRATIVE

22

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP BNA.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds. The MSD recoveries met the acceptable requirements. The RPD met criteria . The Blank Spike met requirements for all samples. The Blank spike met requirements for all samples. The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements. The Continuous Calibration met the requirements. The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.



Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ S. M. Jodhemi

APPROVED By Sohil Jodhani, QA/QC Director at 8:38 am, Apr 07, 2023 2.2



CASE NARRATIVE

2.3

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:

The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017-11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023

2.3



CASE NARRATIVE

2.4

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: PCB

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 μ m; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples.

The MS {O2082-02MS} with File ID: PO093581.D recoveries met the requirements for all compounds except for AR1016[447%], AR1260[202%], due to sample matrix interference.

The MSD {O2082-02MSD} with File ID: PO093582.D recoveries met the acceptable requirements except for AR1016[436%], AR1260[193%],due to sample matrix interference.

The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .



E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhumi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023

2.4



CASE NARRATIVE

2.5

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature____5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023

2.5



CASE NARRATIVE

2.6

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TPH GC

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TPH GC.

C. Analytical Techniques:

The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of TPH GC was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds.

The MSD {O2102-01MSD} with File ID: FG011689.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[62%],due to matrix interference.

The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922 Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

APPROVED By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023



CASE NARRATIVE

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: TCLPMetals Group1,TCLP Mercury

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for TCLPMetals Group1,TCLP Mercury.

C. Analytical Techniques:

The analysis of TCLPMetals Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

In analytical sequence LB124723, The % recovery was outside of acceptance limit for Iron of CCV03,CCV04,CCV010 But No any affected sample Reported under this CCVs.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023

27



CASE NARRATIVE

2.8

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2102 Test Name: ASTM Ammonia,ASTM COD,ASTM Oil and Grease,ASTM TPH,Corrosivity,Ignitability,Oil and Grease,Paint Filter,pH,Reactive Cyanide,Reactive Sulfide,TS,TVS

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/24/2023.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS, TVS and VOC-TCLVOA-10. This data package contains results for ASTM Ammonia, ASTM COD, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, pH, Reactive Cyanide, Reactive Sulfide, TS, TVS.

C. Analytical Techniques:

The analysis of Ignitability was based on method 1030, The analysis of TVS was based on method 160.4, The analysis of ASTM TPH was based on method 1664, The analysis of ASTM Oil and Grease,Oil and Grease was based on method 1664A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of Corrosivity,pH was based on method 9045D, The analysis of Paint Filter was based on method 9095B, The analysis of TS was based on method SM2540 B, The analysis of ASTM Ammonia was based on method SM4500-NH3 and The analysis of ASTM COD was based on method SM5220 D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for CHAMBER-C-72-EAST of pH, for CHAMBER-C-72-EAST of Corrosivity as this sample received out of hold.

The Blank Spike met requirements for all samples. The Duplicate analysis met criteria for all samples.

The Matrix Spike (CHAMBER-B-72-WESTMS) analysis met criteria for all samples except for ASTM COD due to matrix interference.

The Matrix Spike (CHAMBER-C-72-EASTMS) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

CHEMITECH

The Matrix Spike Duplicate(CHAMBER-B-72-WESTMSD) analysis met criteria for all samples except for ASTM COD due to matrix interference.

The Matrix Spike Duplicate(CHAMBER-C-72-EASTMSD) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination. The Calibration met the requirements.

E. Additional Comments:

As per method 1664A, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

APPROVED By Sohil Jodhani, QA/QC Director at 8:39 am, Apr 07, 2023 2.8



DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M OR	Method qualifiers"P"for ICP instrument"PM"for ICP when Microwave Digestion is used"CV"for Manual Cold Vapor AA"AV"for automated Cold Vapor AA"CA"for MIDI-Distillation Spectrophotometric"AS"for Semi – Automated Spectrophotometric"C"for Manual Spectrophotometric"T"for Titrimetric"NR"for analyte not required to be analyzedIndicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
Н	Sample Analysis Out Of Hold Time



DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	 Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O2102

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	\checkmark

1st Level QA Review Signature:	MOHAMMAD AHMED	Date: 04/07/2023
2nd Level QA Review Signature:	5. M. Jodhumi	APPROVED By Sohil Jodhani, QA/QC Director at 8:40 am, Apr 07, 2023

O2102

21 of 63

Completed



Hit Summary Sheet SW-846 5

			SV	V-846				
SDG No.:	O2102							$\mathbf{}$
Client:	H2M Architects	+ Engineers						В
		8						С
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	D
Client ID:								-

0

Total Voc :

Total Concentration:



<u>SAMPLE</u> <u>DATA</u>

CHEMILECH

		Report o	f Analysi	8		
Client:	H2M Architects + Eng	gineers		Date Collected:	03/24/23	
Project:	Siphon			Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-72-EA	ST		SDG No.:	O2102	
Lab Sample ID:	O2102-02			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid	0	
	5	T		70 50hd.	5000	Ŧ
Sample Wt/vol:	5 Units:	mL		Final Vol:	5000	uL
Soil Aliquot Vol:		uL		Test:	TCLP VOA	Group1
GC Column:	RXI-624 ID	: 0.25		Level :	LOW	
Prep Method :	SW5035					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	1
VN077237.D	1			03/28/23 15:17	VN032823	
AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.25	UQ	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.21	UQ	0.21	5.00	ug/L
78-93-3	2-Butanone	1.20	U	1.20	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.13	U	0.13	5.00	ug/L
57-66-3	Chloroform	0.14	U	0.14	5.00	ug/L
71-43-2	Benzene	0.12	U	0.12	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.16	U	0.16	5.00	ug/L
79-01-6	Trichloroethene	0.26	U	0.26	5.00	ug/L
08-88-3	Toluene	0.14	U	0.14	5.00	ug/L
27-18-4	Tetrachloroethene	0.17	U	0.17	5.00	ug/L
08-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
00-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
330-20-7	Total Xylenes	0.46	U	0.46	15.0	ug/L
URROGATES						
7060-07-0	1,2-Dichloroethane-d4	48.5		74 - 125	97%	SPK: 50
868-53-7	Dibromofluoromethane	46.8		75 - 124	94%	SPK: 50
037-26-5	Toluene-d8	54.9		86 - 113	110%	SPK: 50
60-00-4	4-Bromofluorobenzene	49.0		64 - 133	98%	SPK: 50
NTERNAL STANDA	ARDS		0.00			
363-72-4	Pentatluorobenzene	283000	8.23			
40-36-3	1,4-Ditluorobenzene	493000	9.107			
114-55-4	Chlorobenzene-d5	450000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.795			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02 Siphon M11,VOA Ref. :	:00 AM #3 Water		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-02	CHAMBER-C-72-EAST	TCLP			03/24/23			03/24/23

5



			Hit Summary Sheet SW-846			В
SDG No.:	O2102					
Client:	H2M Architects	+ Engineers				D
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration C MDL	RDL Units	
				0.000		
			Total Svoc :	0.00		
			Total Concentration:	0.00		



<u>SAMPLE</u> <u>DATA</u>



Client:

Project:

Client Sample ID:

Analytical Method:

Lab Sample ID:

Sample Wt/Vol:

6

	Repor	t of Anal	ysis			
H2M Architects + H	Engineers			Date Collected:	03/24/23	
Siphon				Date Received:	03/24/23	
CHAMBER-C-72-I	EAST			SDG No.:	O2102	
O2102-02				Matrix:	TCLP	
SW8270				% Solid:	0	
100 Units:	mL			Final Vol:	1000	uL
	uL			Test:	TCLP BN	A
	Decar	nted : N		Level :	LOW	
	GPC Factor :	1.0		GPC Cleanup	N	рН ·
SW3541				or e creanap .		
5115011						
Dilution:	Prep Date		Date	Analyzed	Prep Batch II)
	03/28/23 1	0:50	03/3	1/23 16:56	PB151761	
	Conc.	Qualifier	MDL		LOQ / CRQL	Units
	17.8	U	17.8		50.0	ug/L
orobenzene	14.3	U	14.3		50.0	ug/L
henol	20.6	U	20.6		50.0	ug/L
ylphenols	21.6	U	21.6		100	ug/L
oethane	16.4	U	16.4		50.0	ug/L
ene	17.2	U	17.2		50.0	ug/L
obutadiene	19.3	U	19.3		50.0	ug/L
nlorophenol	15.2	U	15.2		50.0	ug/L
nlorophenol	15.7	U	15.7		50.0	ug/L
otoluene	25.4	U	25.4		50.0	ug/L
obenzene	19.1	U	19.1		50.0	ug/L
rophenol	25.5	U	25.5		100	ug/L

Soil Aliquot Vol:		uL		Test:	TCLP B	NA
Extraction Type	:	Decar	nted : N	Level :	LOW	
Injection Volume	:	GPC Factor :	1.0	GPC Cleanup :	Ν	PH :
Prep Method ·	SW3541					
	0.00011					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch I	D
BM039256.D	1	03/28/23 1	0:50	03/31/23 16:56	PB151761	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARCETS						
110-86-1	Pyridine	17.8	U	17.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	14.3	U	14.3	50.0	ug/L
95-48-7	2-Methylphenol	20.6	U	20.6	50.0	ug/L
65794-96-9	3+4-Methylphenols	21.6	U	21.6	100	ug/L
67-72-1	Hexachloroethane	16.4	U	16.4	50.0	ug/L
98-95-3	Nitrobenzene	17.2	U	17.2	50.0	ug/L
87-68-3	Hexachlorobutadiene	19.3	U	19.3	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	15.2	U	15.2	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	15.7	U	15.7	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	25.4	U	25.4	50.0	ug/L
118-74-1	Hexachlorobenzene	19.1	U	19.1	50.0	ug/L
87-86-5	Pentachlorophenol	25.5	U	25.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	145		10 - 139	97%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.0		49 - 133	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		52 - 132	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	153		45 - 141	102%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STAN	DARDS					
3855-82-1	1,4-Dichlorobenzene-d4	204000	7.916			
1146-65-2	Naphthalene-d8	794000	10.727			
15067-26-2	Acenaphthene-d10	442000	14.563			
1517-22-2	Phenanthrene-d10	895000	17.309			
1719-03-5	Chrysene-d12	761000	21.492			
1520-96-3	Perylene-d12	844000	23.903			

п t of A l.



Injection Volume :

Prep Method :

File ID/Qc Batch:

BM039256.D

CAS Number

SW3541

Dilution:

1

Parameter

GPC Factor :

Prep Date

Conc.

03/28/23 10:50

Report of Analysis											
Client:	H2M Architects + E	ngineers			Date Collected:	03/24/23					
Project:	Siphon				Date Received:	03/24/23					
Client Sample ID:	CHAMBER-C-72-E	EAST			SDG No.:	O2102					
Lab Sample ID:	O2102-02				Matrix:	TCLP					
Analytical Method:	SW8270				% Solid:	0					
Sample Wt/Vol:	100 Units:	mL			Final Vol:	1000	uL				
Soil Aliquot Vol:		uL			Test:	TCLP BNA					
Extraction Type :			Decanted :	Ν	Level :	LOW					

1.0

Qualifier

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

O2102

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

GPC Cleanup :

Date Analyzed

03/31/23 16:56

MDL

Ν

Prep Batch ID

PB151761

LOQ / CRQL

PH :

Units

- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



Report of Analysis

Client:	H2M Architects + I	Engineers			Date Collected:	03/28/23	
Project:	Siphon				Date Received:	03/28/23	
Client Sample II	D: PB151735TB				SDG No.:	O2102	
Lab Sample ID:	PB151735TB				Matrix:	TCLP	
Analytical Meth	od: SW8270				% Solid:	0	
	100 H	Ŧ				1000	Ŧ
Sample Wt/Vol:	100 Units:	mL			Final Vol:	1000	uL
Soil Aliquot Vol:		uL			Test:	TCLP BN	A
Extraction Type	:	Decant	ed : N		Level :	LOW	
Injection Volume	e:	GPC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541						
File ID/Qc Batch:	Dilution:	Prep Date		Date A	analyzed	Prep Batch II)
BM039228.D	1	03/28/23 10	:50	03/30/2	23 15:59	PB151761	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units
110-86-1	Pyridine	17.8	IJ	17.8		50.0	11σ/L
106-46-7	1 4-Dichlorobenzene	14.3	U	14.3		50.0	ug/L
95-48-7	2-Methylphenol	20.6	U	20.6		50.0	ug/L
65794-96-9	3+4-Methylphenols	21.6	U	21.6		100	ug/L
67-72-1	Hexachloroethane	16.4	U	16.4		50.0	ug/L
98-95-3	Nitrobenzene	17.2	U	17.2		50.0	ug/L
87-68-3	Hexachlorobutadiene	19.3	Ū	19.3		50.0	ug/L
88-06-2	2.4.6-Trichlorophenol	15.2	Ū	15.2		50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	15.7	U	15.7		50.0	ug/L
121-14-2	2,4-Dinitrotoluene	25.4	U	25.4		50.0	ug/L
118-74-1	Hexachlorobenzene	19.1	U	19.1		50.0	ug/L
87-86-5	Pentachlorophenol	25.5	U	25.5		100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	146		10 - 139		97%	SPK: 150
13127-88-3	Phenol-d6	138		10 - 134		92%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.6		49 - 133		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.0		52 - 132		88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		45 - 141		87%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		45 - 142		95%	SPK: 100
INTERNAL STAN	DARDS						
3855-82-1	1,4-Dichlorobenzene-d4	234000	7.922				
1146-65-2	Naphthalene-d8	905000	10.734				
15067-26-2	Acenaphthene-d10	510000	14.569				
1517-22-2	Phenanthrene-d10	1100000	17.315				
1719-03-5	Chrysene-d12	1020000	21.498				
1520-96-3	Perylene-d12	1200000	23.909				

6

C D



B C

CAS Number	Parameter		Conc.	Oualifi	ier N	MDL		LOQ	/ CRQL		Units
BM039228.D	1		03/28/23 1	0:50		03/30/2	3 15:59	PI	B151761		
File ID/Qc Batch:	Dilution:		Prep Date			Date Ar	nalyzed	Pr	ep Batch I	D	
Prep Method :	SW3541										
Injection Volume	:		GPC Factor :	1.0			GPC Cleanup :	Ν		PH :	
Extraction Type :			Decar	ited :	Ν		Level :		LOW		
Soil Aliquot Vol:			uL				Test:		TCLP BN	JA	
Sample Wt/Vol:	100	Units:	mL				Final Vol:		1000		uL
Analytical Metho	od: SW8270						% Solid:		0		
Lab Sample ID:	PB1517357	ГВ					Matrix:		TCLP		
Client Sample ID	PB151735	ГВ					SDG No.:		O2102		
Project:	Siphon						Date Received:		03/28/23		
Client:	H2M Archi	itects + En	gineers				Date Collected:		03/28/23		

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

O2102

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

Report of Analysis



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02 Siphon Select,M11,	:00 AM /OA Ref. #3 W	ater	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-02	CHAMBER-C-72-EAST	TCLP	TCLP BNA	8270E	03/24/23	03/28/23	03/31/23	03/24/23

6



Hit Summary Sheet SW-846

SDG No.: Client:	O2102 H2M Architects + 1	Fngineers		Order ID: Project ID:	O2102 Sinhon			A B
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	C D
			Total Concentration:	0.000				

Total Concentration:





<u>SAMPLE</u> <u>DATA</u>



C D

Report of Analysis

Client:	H2M Architects	+ Engineers			Date Collected:	03/24/23	
Project:	Siphon				Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-7	72-EAST			SDG No.:	O2102	
Lab Sample ID:	O2102-02				Matrix:	TCLP	
Analytical Method	: SW8081				% Solid:	0 E	Decanted:
Sample Wt/Vol	100 Unit	s mL			Final Vol.	10000	υL
Soil Aliquot Vol:					Tast:	TCI D Desticide	uL
Son Anquot voi.		uL				TCLI Testicide	
Extraction Type:					Injection Volume :		
GPC Factor :	1.0	PH :					
Prep Method :	SW3541B						
File ID/Qc Batch:	Dilution:	Prep	Date		Date Analyzed	Prep Ba	tch ID
PL081805.D	1	03/2	9/23 12:15		03/31/23 11:06	PB1517	90
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQ	L Units
TADOFTS							
58-89-9	gamma-BHC (Lindane)	0.064	U	0.064		0.50	0 ug/L
76-44-8	Heptachlor	0.073	U	0.073		0.50	0 ug/L
1024-57-3	Heptachlor epoxide	0.10	U	0.10		0.50	0 ug/L
72-20-8	Endrin	0.043	U	0.043		0.50	0 ug/L
72-43-5	Methoxychlor	0.066	U	0.066		0.50	0 ug/L
8001-35-2	Toxaphene	1.80	U	1.80		10.0	0 ug/L
57-74-9	Chlordane	0.97	U	0.97		5.00	0 ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	19.1		27 - 142		96%	6 SPK: 20
877-09-8	Tetrachloro-m-xylene	17.3		60 - 145		86%	6 SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

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C D

Report of Analysis

Client:	H2M Architec	ets + Engineers			Date Collected:		
Project:	Siphon				Date Received:	03/29/23	
Client Sample ID:	PB151735TB				SDG No.:	O2102	
Lab Sample ID:	PB151735TB				Matrix:	TCLP	
Analytical Method	: SW8081				% Solid:	0 D	Decanted:
Sample Wt/Vol:	100 Ur	nits: mL			Final Vol:	10000	uL
Soil Aliquot Vol:		uL			Test:	TCLP Pesticide	
Extraction Type:					Injection Volume :		
GPC Factor :	1.0	PH :			5		
Prep Method :	SW3541B						
File ID/Qc Batch:	Dilution:		Prep Date		Date Analyzed	Prep Ba	tch ID
PL081808.D	1		03/29/23 12:15		03/31/23 11:48	PB1517	90
CAS Number	Parameter	Con	c. Qualifier	MDL		LOQ / CRQ	L Units
TADOFTS							
1ARGE 15 58-89-9	gamma-BHC (Lindan	e) 0.06	54 U	0.064		0.50) ug/L
76-44-8	Heptachlor	0.07	73 U	0.073		0.50) ug/L
1024-57-3	Heptachlor epoxide	0.10) U	0.10		0.50) ug/L
72-20-8	Endrin	0.04	3 U	0.043		0.50) ug/L
72-43-5	Methoxychlor	0.06	56 U	0.066		0.50) ug/L
8001-35-2	Toxaphene	1.80) U	1.80		10.0) ug/L
57-74-9	Chlordane	0.97	U U	0.97		5.00) ug/L
SURROGATES							
2051-24-3				07 140		010	
	Decachlorobiphenyl	18.2	2	27 - 142		91%	6 SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02 Siphon Select,M11,	:00 AM VOA Ref. #3 W	ater	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-01	CHAMBER-C-72-EAST	SOIL			03/24/23			03/24/23
			PCB	8082A		03/27/23	03/27/23	
			TPH GC	8015D		03/29/23	03/29/23	
02102-02	CHAMBER-C-72-EAST	TCLP			03/24/23			03/24/23
			TCLP Herbicide TCLP Pesticide	8151A 8081B		03/28/23 03/29/23	03/29/23 03/31/23	
8

Hit Summary Sheet SW-846

SDG No.:	O2102			Order ID:	O2102		
Client:	H2M Architects +	Engineers		Project ID:	Siphon		В
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL Units	С
Client ID :	CHAMBER-C-72-	EAST					D
O2102-01	CHAMBER-C-	72-EA: SOIL	Aroclor-1260	34.	8 J 7.50	38.4 ug/kg	
			Total Concentration:	34.800			



8

<u>SAMPLE</u> <u>DATA</u>



Report of Analysis

Client:	H2M Architect	s + Engineers			Date Collected:	03/24/23	
Project:	Siphon				Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-	-72-EAST			SDG No.:	O2102	
Lab Sample ID:	O2102-01				Matrix:	SOIL	
Analytical Method	1. SW8082A				% Solid [.]	44.2 Dec	canted.
Sampla Wt/Val:	20.02 Uni	ita: a			Final Val:	10000	uI
Sample wir vor.	50.05 UII	its. g			Fillal Vol.	10000	uL
Soil Aliquot Vol:		uL			Test:	PCB	
Extraction Type:					Injection Volume :		
GPC Factor :	1.0	PH :					
Prep Method :	SW3541B						
File ID/Qc Batch:	Dilution:	Pre	ep Date		Date Analyzed	Prep Batcl	h ID
PO093584.D	1	03.	/27/23 08:34		03/27/23 16:51	PB151720)
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight
TADOETS							
12674-11-2	Aroclor-1016	8 10	U	8 10		38.4	ug/kg
11104-28-2	Aroclor-1221	13.3	U	13.3		38.4	ug/kg
11141-16-5	Aroclor-1232	10.2	U	10.2		38.4	ug/kg
53469-21-9	Aroclor-1242	7.10	U	7.10		38.4	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40		38.4	ug/kg
11097-69-1	Aroclor-1254	8.50	U	8.50		38.4	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10		38.4	ug/kg
11100-14-4	Aroclor-1268	7.50	U	7.50		38.4	ug/kg
11096-82-5	Aroclor-1260	34.8	J	7.50		38.4	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	12.9		40 - 162		64%	SPK: 20
2051-24-3	Decachlorobiphenyl	10.3		32 - 176		52%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit

8

C D

O2102

M = MS/MSD acceptance criteria did not meet requirements



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02 Siphon M11,VOA Ref. ;	00 AM ≇3 Water		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-01	CHAMBER-C-72-EAST	SOIL	РСВ	8082A	03/24/23	03/27/23	03/27/23	03/24/23



Hit Summary Sheet SW-846

SDG No.:	O2102			Order ID:	O2102			
Client:	H2M Architects + Engineers			Project ID:			В	
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	С
Client ID :								D

Total Concentration:

0.000





9

<u>SAMPLE</u> <u>DATA</u>



Report of Analysis

Client:	H2M Ar	chitects + E	Engineers			Date Collected:	03/24/23		
Project:	Siphon					Date Received:	03/24/23		
Client Sample ID:	CHAME	BER-C-72-H	EAST			SDG No.:	O2102		
Lab Sample ID:	O2102-0	02				Matrix:	TCLP		
Analytical Method	SW8151	A				% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Units:	mL			Final Vol:	10000	uL	
Soil Aliquot Vol:			uL			Test:	TCLP Herbici	ide	
Extraction Type:						Injection Volume :			
GPC Factor :	1.0		PH :						
Prep Method :	8151A								
File ID/Qc Batch:	Dilution	:	Pr	ep Date		Date Analyzed	Prep	Batch ID	
PS022545.D	1		03	3/28/23 12:30		03/29/23 15:48	PB15	1786	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CR	RQL	Units
TARGETS									
94-75-7	2,4-D		5.70	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Silvex	()	5.40	U	5.40		2	0.0	ug/L
SURROGATES			501		16 15-			100/	
19719-28-9	2,4-DCAA		591		16 - 175		1	18%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	



Report of Analysis

Client:	H2M Arc	hitects + I	Engineers			Date Collected:			
Project:	Siphon					Date Received:	03/28/23		
Client Sample ID:	PB15173:	5TB				SDG No.:	O2102		
Lab Sample ID:	PB15173:	5TB				Matrix:	TCLP		
Analytical Method:	SW81514	A				% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Units:	mL			Final Vol:	10000	uL	
Soil Aliquot Vol:			uL			Test:	TCLP Herbic	ide	
Extraction Type:						Injection Volume :			
GPC Factor :	1.0		PH :						
Prep Method :	8151A								
File ID/Qc Batch:	Dilution:		Pr	ep Date		Date Analyzed	Prep	Batch ID	
PS022548.D	1		03	6/28/23 12:30		03/29/23 17:00	PB15	51786	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CF	RQL	Units
TARGETS									
94-75-7	2,4-D		5.70	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Silvex)		5.40	U	5.40		2	0.0	ug/L
SURROGATES 19719-28-9	2,4-DCAA		502		16 - 175		1	00%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

A B C D



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02 Siphon M11,VOA Ref. ;	:00 AM #3 Water		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-01	CHAMBER-C-72-EAST	SOIL			03/24/23			03/24/23
			PCB	8082A		03/27/23	03/27/23	
			TPH GC	8015D		03/29/23	03/29/23	
02102-02	CHAMBER-C-72-EAST	TCLP			03/24/23			03/24/23
			TCLP Herbicide	8151A		03/28/23	03/29/23	





10

<u>SAMPLE</u> <u>DATA</u>



10

В

Report of Analysis

Client:	H2M Architects + H	Engineers			Date Collected:	03/24/23	
Project:	Siphon				Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-72-I	EAST			SDG No.:	O2102	
Lab Sample ID:	O2102-01				Matrix:	SOIL	
Analytical Method	: 8015D TPH				% Solid:	44.2 Dec	canted:
Sample Wt/Vol:	30.09 Units:	g			Final Vol:	1	mL
Soil Aliquot Vol:		uL			Test:	TPH GC	
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :	SW3541						
File ID/Oc Batch:	Dilution:	Prep	Date	J	Date Analyzed	Prep Batcl	h ID
FG011686.D	1	03/29	9/23 08:39	(03/29/23 13:41	PB151763	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS PHC	Petroleum Hydrocarbons	56600		907		6300	ug/kg
rnc	reuoleuni Hydrocarbons	50000		907		0390	ug/kg
SURROGATES 16416-32-3	TETRACOSANE-d50	18.5		37 - 130		93%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	: 3/27/2023 9:02:00 AM Siphon M11,VOA Ref. #3 Water				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received	
02102-01	CHAMBER-C-72-EAST	SOIL			03/24/23			03/24/23	
			PCB	8082A		03/27/23	03/27/23		
			TPH GC	8015D		03/29/23	03/29/23		



A B C



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

	Hit Summary Sheet SW-846										
SDG No.:	O2102			Order ID:		O2102					
Client:	H2M Architects + Engineers			Project ID	:	Siphon					
Sample ID	Client ID	Matrix	Parameter	Concentration	С	MDL	RDL	Units			
Client ID :	CHAMBER-C-72-EAST										
O2102-02	CHAMBER-C-72-EAST	TCLP	Barium	1410		39.2	500	ug/L			
O2102-02	CHAMBER-C-72-EAST	TCLP	Iron	41600		185	500	ug/L			
O2102-02	CHAMBER-C-72-EAST	TCLP	Nickel	62.5	J	8.50	200	ug/L			
O2102-02	CHAMBER-C-72-EAST	TCLP	Zinc	758		17.5	200	ug/L			

11

B C

D





<u>SAMPLE</u> <u>DATA</u>



Report of Analysis

~~~				Α
Client:	H2M Architects + Engineers	Date Collected:	03/24/23	в
Project:	Siphon	Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-72-EAST	SDG No.:	O2102	С
Lab Sample ID:	O2102-02	Matrix:	TCLP	D
Level (low/med):	low	% Solid:	0	J

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	283	U	1	283	500	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-39-3	Barium	1410		1	39.2	500	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-43-9	Cadmium	1.00	U	1	1.00	30.0	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-47-3	Chromium	8.00	U	1	8.00	50.0	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-50-8	Copper	70.7	U	1	70.7	100	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7439-89-6	Iron	41600		1	185	500	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7439-97-6	Mercury	0.78	U	1	0.78	2.00	ug/L	03/29/23 12:32	03/29/23 17:50	SW7470A	L
7440-02-0	Nickel	62.5	J	1	8.50	200	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-22-4	Silver	6.60	U	1	6.60	50.0	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050
7440-66-6	Zinc	758		1	17.5	200	ug/L	03/28/23 12:30	03/30/23 15:13	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:				
Color After:	Colorless	Clarity After:	Clear	Artifacts:				
Comments:	TCLP Mercury							
U = Not Detect LOQ = Limit MDL = Metho LOD = Limit D = Dilution Q = indicates	cted of Quantitation od Detection Limit of Detection	neet requirements		<ul> <li>J = Estimated Value</li> <li>B = Analyte Found in Associated Method Blank</li> <li>* = indicates the duplicate analysis is not within control limits.</li> <li>E = Indicates the reported value is estimated because of the presence of interference.</li> <li>OR = Over Range</li> </ul>				
		neet requirements	N = Spiked sample recovery not within control limits					
O2102			52 c	of 63				



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan	OrderDate: Project: Location:	3/27/2023 9:02 Siphon M11,VOA Ref. ;	:00 AM #3 Water				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02102-02	CHAMBER-C-72-EAST	TCLP			03/24/23			03/24/23
			TCLP Mercury	7470A		03/29/23	03/29/23	
			TCLPMetals Group1	6010D		03/28/23	03/30/23	

11

A B C

D





12

# <u>SAMPLE</u> <u>DATA</u>



#### **Report of Analysis**

			02/04/02 00 15	
Client:	H2M Architects + Engineers	Date Collected:	03/24/23 09:15	в
Project:	Siphon	Date Received:	03/24/23	
Client Sample ID:	CHAMBER-C-72-EAST	SDG No.:	O2102	C
Lab Sample ID:	O2102-01	Matrix:	SOIL	
		% Solid:	44.2	J

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight) Prep Date	Date Ana.	Ana Met.
Oil and Grease	158	J	1	90.5	282	mg/Kg	03/28/23 11:30	1664A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm	03/28/23 10:50	9095B
pH	6.73	Н	1	0	0	pH	03/27/23 17:11	9045D
TS	41.4		1	1.00	5.00	%	03/27/23 10:00	SM 2540 B-15
TVS	6.90	J	1	1.00	10.0	%	03/27/23 16:00	160.4

Comments: pH result reported at temperature 21.6 °C

II =	Not	Detected
0-	INOL	Delected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



#### **Report of Analysis**

Darameter	Conc. Oug. DF. MDI	Units Pren Date	Data Ana 🛛 Ana Mat	
		 % Solid:	100	
Lab Sample ID:	O2102-02	Matrix:	SOIL	
Client Sample ID:	CHAMBER-C-72-EAST	SDG No.:	O2102	
Project:	Siphon	Date Received:	03/24/23	
Client:	H2M Architects + Engineers	Date Collected:	03/24/23 09:15	

1 ai ainetei	cone.	Qua.	ы	MDL	LOQ / CKQL	Onits	Trep Date	Date Maa.	ma met
Corrosivity	6.73	Н	1	0	0	pН		03/27/23 17:11	9045D
Ignitability	NO		1	0	0	oC		03/28/23 09:45	1030
Reactive Cyanide	0.019	J	1	0.011	0.049	mg/Kg	03/27/23 11:00	03/27/23 12:58	9012B
Reactive Sulfide	6.37	J	1	2.98	10.0	mg/Kg	03/28/23 09:00	03/28/23 11:30	9034

Comments: pH result reported at temperature 21.6 °C

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



ASTM COD

ASTM TPH

ASTM Oil and Grease

7.97

0.53

1.65

J

U

U

#### 12

G-11

03/29/23 16:25

03/29/23 09:30 SW1664A

03/29/23 10:00 SW1664

SM 5220 D-11

#### **Report of Analysis**

Client:	H2M Architects + Engineers			Date Collected:	03/24/23 0	9:15	
Project:	Siphon			Date Received:	03/24/23		В
Client Sample ID:	CHAMBER-C-72-EAST			SDG No.:	O2102		С
Lab Sample ID:	O2102-03			Matrix:	WATER	WATER	
				% Solid:	0		J
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
ASTM Ammonia	10.4 OR 1 0.045	0.10	mg/L	03/30/23 09:15	03/30/23 12:30	SM 4500-NH3 B plus NH3	-

mg/L

mg/L

mg/L

10.0

5.00

5.00

2.52

0.53

1.65

1

1

1

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



#### **Report of Analysis**

Parameter ASTM Ammonia	Conc.         Qua.         DF         MDL           20.2         D         20         0.90	LOQ / CRQL 2.00	Units mg/L	<b>Prep Date</b> 03/30/23 09:15	<b>Date Ana.</b> 03/30/23 12:58	Ana Met. SM 4500-NH3 B plus NH3	
Lab Sample ID:	O2102-03DL			Matrix: % Solid:	WATER 0		
Client Sample ID:	CHAMBER-C-72-EASTDL			SDG No.: 02102			
Project:	Siphon			Date Received:	03/24/23		
Client:	H2M Architects + Engineers			Date Collected:	03/24/23 0	03/24/23 09:15	

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



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#### LAB CHRONICLE

OrderID: Client: Contact:	O2102 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/27/2023 9:02:00 AM Siphon M11,VOA Ref. #3 Water					
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received		
02102-01	CHAMBER-C-72-EAST	SOIL			03/24/23 09:15			03/24/23		
			Oil and Grease	1664A			03/28/23			
			Paint Filter	9095B			11:30 03/28/23 10:50			
			рН	9045D			03/27/23			
			TS	SM2540 B			17:11 03/27/23 10:00			
			TVS	160.4			03/27/23			
							16:00			
02102-02	CHAMBER-C-72-EAST	SOIL			03/24/23 09:15			03/24/23		
			Corrosivity	9045D			03/27/23			
			Ignitability	1030			03/28/23			
			29	2000			09:45			
			Reactive Cyanide	9012B		03/27/23	03/27/23 12:58			
			Reactive Sulfide	9034		03/28/23	03/28/23			
02102-03	CHAMBER-C-72-EAST	WATER			03/24/23 09:15		11.50	03/24/23		
			ASTM Ammonia	SM4500-NH3		03/30/23	03/30/23 12:30			
			ASTM COD	SM5220 D			03/29/23 16:25			
			ASTM Oil and Grease	1664A			03/29/23 09:30			

С

12

O2102





A B C

#### Phone: (908) 789 8900 Fax: (908) 789 8922

			LAB CHRON	ICLE			
			ASTM TPH	1664		03/29/23 10:00	
02102-03DL	CHAMBER-C-72-EAST DL	WATER			03/24/23 09:15		03/24/23
			ASTM Ammonia	SM4500-NH3	03/30/23	03/30/23 12:58	



# <u>SHIPPING</u> DOCUMENTS

CHEI CHAIN OF C	<b>MTECH</b> CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net							92	92 CHEMTECH PROJECT NO. QUOTE NO. 2/02 02/03 COC Number 2038659					)2103		
	CLIENT INFORMATION		P The		CLIENT P	ROJECT	IFORM/	TION		2	1.4			CLIEN	IT BILLI	NG INF	ORMATION	
COMPANY:	-JM architects + 1217	ineq's	PROJE		AE: NOV	hern Bl	vd Si	phon C	lernin	)	BILL 1	o: Hi	2m a	rchtey	h+0	njinea	B PO#:	
ADDRESS: 2	40 Brund hullow Road	Suite YOUE	PROJEC	T NO.:	NYOPA	UN LOCA	TION:	Que	ens		ADDF	ESS:	290	Brund	hallu	~ Rd	suite	YUNE
CITY MC	VILL STATE:N	1Y ZIP: 11747	PROJEC		GER: S	fere	Kapli	n			CITY	Me	elvill	e		STAT	re: NY	7IP. 11747
	Steve Kaplan		e-mail:	SKa	plan (2	ham.	lom				ATTE	NTION:	Ster	e Ko	plan	PHO	NE: 63)	-756-8000×/11
PHONE 631	-751-80mx1613 = 12			631-	756-8Wad	X1613 -	. v.						- 11	113	AN/	ALYSIS		
	DATA TURNAROUND INFORMA	TION	FROME:	DAT	A DELIVE	RABLE IN	IFORM	ATION	12.									
FAX (RUSH) HARDCOPY (DA EDD: *TO BE APPRO\ STANDARD HAF	NTA PACKAGE): Standard VED BY CHEMTECH RDCOPY TURNAROUND TIME IS	DAYS* DAYS* DAYS* DAYS* DAYS* DAYS*	<ul> <li>Level</li> <li>Level</li> <li>Level</li> <li>+ Ration</li> <li>EDD F</li> </ul>	1 (Result 2 (Result 3 (Result w Data) FORMAT	s Only)	Level 4 (QC NJ Reduce NYS ASP # Other	C + Full F d □ U C □ NY	Raw Data S EPA C S ASP E	a) LP Guiltute 2	Volts	and see	5	6	/	8	9		
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFI	CATION	SAMPLE MATRIX	SAMPL TYPE dwo	E SA COLL DATE	MPLE ECTION TIME	OF BOTTLES	E	2	3		5	6	7	0	0	← Spec A-HCl B-HN03 C-H2S04	In the second se
1.	(hamber ( 72"Es	st	Shape	X	3/24/2	0915	12	X	2		\ 4		0		0	9	0-112304	P-OTHER
2.	Trip Blink							~ ~	X								Dat	Rainel
3.																		ILL APROPT
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		No. of Concession, Name
RELINQUISHED BY 1. Paul Nist RELINQUISHED BY 2.	SAMPLE CUST SAMPLER: DATE/TIME: SAMPLER: DATE/TIME:	RECEIVED BY:		BELOV 3-2 11	Condit	ME SAMF	e A	HANGE s at recei	E POSS	COMPLIAN			COUR	OOLER T	ELIVER EMP Cleyj	Υ 	5.5	°C
RELINQUISHED BY	SAMPLER: DATE/TIME:	RECEIVED BY:						CLIENT	T: 🛛	Hand D	elivered		ther			_	Shipmer	nt Complete
a.		3.			Page	of		CHEMT	ECH:		ked Up		ld Samp	ling	-		O YES	B 🗆 NO



### 13 13.2

#### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15



## DATA PACKAGE

SUB Data

PROJECT NAME : SIPHON PROJECT # : 02103

H2M ARCHITECTS + ENGINEERS

290 Broad Hollow Road Suite 400E Melville, NY - 11747 Phone No: 631-756-8000

ORDER ID : 02103 ATTENTION : Stephen I. Kaplan







### **Cover Page**

- **Order ID :** 02103
- Project ID : Siphon

Client : H2M Architects + Engineers

#### Lab Sample Number

O2103-01

Client Sample Number

CHAMBER-C-72-EAST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following

signature.

Signature :

5. M. Jodhemi

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

April 03, 2023

PM Chemtech 284 Sheffield Street Mountainside, NJ 07092 TEL: FAX: RE: 02103

RE: 02103

Dear PM:

Order No.: 23032073

Summit Environmental Technologies, Inc. received 1 sample(s) on 3/29/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

miter makeal

Jennifer Woolf Project Manager

3310 Win St. Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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### **Case Narrative**

WO#: 23032073 Date: 4/3/2023

CLIENT:	Chemtech
Project:	O2103

WorkOrder Narrative:

23032073: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:

Sample analyzed by SW846: 9023 EOX due to matrix; Results reported on "as received" basis.



Summit Environmental Technologies, In 3310 Win S Cuyahoga Falls, Ohio 4422 TEL: (330) 253-8211 FAX: (330) 253-448 Website: <u>http://www.settek.co</u>

### **Qualifiers and Acronyms**

 WO#:
 23032073

 Date:
 4/3/2023

These commonly used Qualifiers and Acronyms may or may not be present in this report.

#### Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
Н	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
Е	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
Ν	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
Р	The second column confirmation exceeded 25% difference.
С	The result has been confirmed by GC/MS.
Х	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits ( $0^{\circ} - 6^{\circ}$ C). Not Clean Water Act compliant.

Z Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

#### Acronyms

ND	Not Detected	DI	Perperting Limit
ND	Not Delected	KL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MČL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

### Workorder Sample Summary

WO#: 23032073 03-Apr-23

CLIENT: Project:	Chemtech				
1 I ojeci.	02103				
Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix

23032073-001 CHAMBER-C-72-EAST

3/24/2023 9:15:00 AM

3/29/2023 9:45:00 AM

Solid



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### **DATES REPORT**

WO#: 23032073

03-Apr-23

Client: Project:	Chemtech O2103						
Sample ID	Client Sample ID	<b>Collection Date</b>	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23032073-001A	CHAMBER-C-72-EAST	3/24/2023 9:15:00 AM	Solid	Extractable Organic H	Halides (EOX) (90		3/31/2023 8:30:00 AM

Original

Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>				ogies, Inc. 10 Win St. hio 44223 253-4489 <u>settek.com</u>			Date Rep Com Add	WO#: orted: pany: lress:	23032073 4/3/2023 Chemtech 284 Sheff Mountain	ield Street side NJ 070	092	
							Rece Proj	ived: ect#:	3/29/2023 O2103	\$		
Client ID#	Lab ID#	Collected	Analyte	<b>Result Units</b>	Qual	Matrix	Method	DF	MDL	PQL	Run	Analyst
CHAMBER-C-72-EAST	001	3/24/2023	Extractable Organic Halides	25.8 mg/Kg	J	Solid	EPA 9023	1	11.7	40.0	3/31/2023	KMW



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#### **Accreditation Program Analytes Report**

WO#: 23032073 03-Apr-23

А

Client:	Chemtech	State: N	State: NY				
Project:	O2103	Program Name: 0	W_WW_SCM_NI				
Sample 1	D Matrix	Test Name Analyte	Status				

23032	2073-001A	

Solid

Extractable Organic Halides (EOX) (9023)

÷	
Extractable Organic Halides	

DW_WW_SCM_NE Accredited А

Key



Chemtech

**Client:** 

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### **QC SUMMARY REPORT**

WO#: 23032073

03-Apr-23

Project:	O2103					BatchID: R160966						
Sample ID:	: MB-R160966	SampType: <b>MBLK</b>	TestCode: EOX_S(9023) Units: mg/Kg			Prep Date:				RunNo: 160966		
Client ID:	PBS	Batch ID: R160966	TestN	lo: SW9023			Analysis Dat	e: 3/31/2	023	SeqNo: 42	77435	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	ND	40.0									U
Sample ID:	: LCS-R160966	SampType: LCS	TestCode: EOX_S(9023) Units: mg/Kg			Prep Date:				RunNo: <b>160966</b>		
Client ID:	LCSS	Batch ID: R160966	TestNo: SW9023			Analysis Date: 3/31/2023				SeqNo: <b>4277436</b>		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	56.0	40.0	50.00	0	112	81	114				
Sample ID:	: 23032200-003AMS	SampType: <b>MS</b>	TestCode: EOX_S(9023) Units: mg/Kg			Prep Date:			RunNo: 160966			
Client ID:	BatchQC	Batch ID: R160966	TestN	lo: <b>SW9023</b>			Analysis Dat	e: <b>3/31/2</b>	023	SeqNo: 42	79728	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	420	40.0	500.0	16.75	80.6	78	116				
Sample ID:	D: 23032200-003AMSD SampType: MSD TestCode: EOX_S(9023) Units: mg/Kg		023) Units: mg/Kg	Prep Date:			RunNo: 160966					
Client ID:	BatchQC	Batch ID: R160966	TestN	lo: SW9023			Analysis Dat	e: 3/31/2	023	SeqNo: 42	79729	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	500	40.0	500.0	16.75	96.6	78	116	420.0	17.4	20	
Qualifiers:	<b>Tiers:</b> B Analyte detected in the associated Method Blank E Value above quantitation r			above quantitation rang	ge H Holding times fo				r preparation or analy			
J Analyte detected below quantitation limits ND Not Detected				M Manual Integration used to determine area response OG1				MC Value is below Minimum Compound P Second column confirmation exceeds Or			Original	
PL Permit Limit				R RPD outside accepted recovery limits				RL Reporting Detection Limit				

Page 8 of 11 10 of 14


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#### **QC SUMMARY REPORT**

WO#: 23032073

03-Apr-23

Client: Project:	Chemtech O2103			BatchID:	R160966
Sample ID: Client ID:	23032200-003AMSD BatchQC	SampType: <b>MSD</b> Batch ID: <b>R160966</b>	TestCode: EOX_S(9023) Units: mg/Kg TestNo: SW9023	Prep Date: Analysis Date: <b>3/31/2023</b>	RunNo: 160966 SeqNo: 4279729
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Sample ID: Client ID:	MB-R160966 PBS	SampType: MBLK Batch ID: R160966	TestCode: EOX_S(9023) Units: mg/Kg TestNo: SW9023	Prep Date: Analysis Date: <b>3/31/2023</b>	RunNo: <b>160966</b> SeqNo: <b>4279731</b>
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Extractable	Organic Halides	ND	40.0		U

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

ND Not Detected

PL Permit Limit

O2103

- E Value above quantitation range
- M Manual Integration used to determine area response OG1
- R RPD outside accepted recovery limits
  - Page 9 of 11 11 of 14

- H Holding times for preparation or analy
- MC Value is below Minimum Compound
- P Second column confirmation exceeds
- RL Reporting Detection Limit

Original

CHE CHAIN OF (	CUSTODY RECORD		284 ( (	Sheffi 908)	eld Str 789-89 Ww\	eet, Mo 00 • Fa w.chem	ounta ax (90 ntech	insid )8) 78 .net	le, N. 89-8	J 070 922	92		CHEM QUOTE COC N	Iumber	појес 2 <i>10</i> 203	8659	)2103
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ADDRESS: 2	190 Brund hullow Road	, Suite YOUE	PROJEC	CT NO.:	NYOPO	UN LOC	ATION:	Que	ens		ADDRE	iss: 29	U BRUG	hollo.	~ Rd	suite	YOUE
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2/6/20	O2103	WHITE - CHEMTE	CH COPY FC	OR RETURN	TO CLIENT	12/10f	о <b>¶ 4</b> сне	CHEMT MTECH C	ECH:	Pick PINK	ed Up - SAMPLER	COPY	ampling			U YES	S LI NO

CHEINTECH

## 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 WWW.CHEMTECH.NET

1

### CHAIN OF CUSTODY RECORD

#### 22032073 i

Sub Lab INFORMATION	CLIENT PR	OJECT INFORMATION	CLIENT BILLING INFORMATION		
COMPANY : Summit Enviromental Technologies I	ORDER ID : 0210	3	BILL TO: CHEMTECH PO# : 02103		
ADDRESS : 3310 Win St	PROJECT ID:Siphon		ADDRESS : 284, Sheffield Street /		
CITY:Cuyahoga State :Ohio ZIP :44223	PROJECT MANAGER S	amantha	CITY: Mountainside State : NJ ZIP : 07092		
E-mail :	E-mail : Sama	antha@chemtech.net	ATTENTION :Samant		
PHONE :330-253-8211	PHONE : (908) 789 8900	FAX: (908) 789 8922	PHONE : (908) 789 8900 FAX : (908) 789 8922		
EDD : EXCEL NOCLEAN Report : Level 1	Comment :				

ID	CLIENT SAMPLE		ANALYSIS	Preservative	Method	SAMPLE	# OF	TAT	
	SAMPLE IDENTIFICATION	AMPLE IDENTIFICATION MATRIX				DATE	TIME	BOTTLES	DAYS
01	CHAMBER-C-72-EAST	Solid	тох	Cool 4 deg C	9023	03/24/2023	09:15:00	1	10

1

1 .

RELINQUIGSHED BY SAMPLER:	DATETIME: 3.27.202	RECEIVED BY:	Conditions of bottles or Coolers at receipt: 3/29/23 $-3.4%$	Compliant Non Compliant	Cooler Temp
RELINQUIESHED BY:	DATETIME:	RECEIVED BY:	194 Lo 3/29/23 1946 Reden Co	plar, with Ice	
RELINQUIESHED BY:	DATETIME:	RECEIVED BY:	Page 1 of 1		Shipment Complete:

Page 1 of 1



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: <u>http://www.settek.com</u>

#### Sample Log-In Check List

Client Nam	e: CHE-NJ-07972	Work Order Number	23032073		RcptNo: 1
Logged by		3/29/2023 9:45:00 AM	Л		
Completed	By: Christina N. Gemm	a 3/29/2023 2:11:32 PM	л	C. Cen	ma
Reviewed	By: Jennifer Woolf	3/29/2023 2:30:22 PI	Л	Jund	by marcal
Chain of	Custody				
1. Is Cha	in of Custody complete?		Yes 🗹	No 🗌	Not Present
2. How w	vas the sample delivered?		FedEx Tracking No.:	771673020495	
<u>Log In</u>				_	
3. Coole	rs are present?		Yes 🗹	No 🗌	
⊿ Shippi	ng container/cooler in goo	d condition?	Yes 🔽	No 🗌	
Custo	dy seals intact on shipping	container/cooler?	Yes	No 🗌	Not Present 🗹
No.	Sea	al Date:	Signed By:		
5. Was a	in attempt made to cool the	e samples?	Yes 🗹	No 🗌	
6. Were	all samples received at a t	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌	
7. Samp	le(s) in proper container(s)	?	Yes 🗹	No 🗌	
8. Suffici	ent sample volume for ind	cated test(s)?	Yes 🗹	No 🗌	
9. Are sa	imples (except VOA and C	NG) properly preserved?	Yes 🗹	No 🗌	
10. Was p	preservative added to bottle	es?	Yes	No 🗹	NA 🗌
11. Is the	headspace in the VOA via	Is less than 1/4 inch or 6 mm?	Yes	No 🗌	No VOA Vials 🔽
12. Were	any sample containers rec	eived broken?	Yes	No 🗹	
13. Does	paperwork match bottle lat	pels?	Yes 🗹	No 🗌	
14 Are m	atrices correctly identified	on Chain of Custodv?	Yes 🗸	No 🗌	
15. Is it cl	ear what analyses were re	quested?	Yes 🗹	No 🗌	
16. Were	all holding times able to be	e met?	Yes 🔽	No 🗌	
(If no,	notify customer for author	zation.)			
Special I	landling (if applicab	<u>le)</u>			
17. Was c	lient notified of all discrepa	ancies with this order?	Yes 🗔	No 🗌	NA 🗹
F	Person Notified:	Date:	ļ		
E	By Whom:	Via:	eMail Pr	none 🗌 Fax	In Person
F	Regarding:				
(	Client Instructions:				
18. Additio	onal remarks:				
F	Received by Linda O.				
Cooler Info	rmation				

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Not Present			



### **DATA PACKAGE**

GENERAL CHEMISTRY METALS GC SEMI-VOLATILES SEMI-VOLATILE ORGANICS VOLATILE ORGANICS

#### **PROJECT NAME : SIPHON**

#### H2M ARCHITECTS + ENGINEERS

**290 Broad Hollow Road** 

Suite 400E

Melville, NY - 11747

Phone No: 631-756-8000

ORDER ID : 02058 ATTENTION : Stephen I. Kaplan



Laboratory Certification ID # 20012







6) TCLP BNA Data

8) PCB Data

10) TPH GC Data

12) Genchem Data

7) TCLP Pesticide Data

9) TCLP Herbicide Data

11) Metals-TCLP Data

**13) Shipping Document** 

13.1) CHAIN OF CUSTODY

13.2) Lab Certificate

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#### **Cover Page**

- **Order ID :** 02058
- Project ID : Siphon

Client : H2M Architects + Engineers

#### Lab Sample Number

O2058-01 O2058-02 O2058-03

#### **Client Sample Number**

CHAMBER-B-72-EAST CHAMBER-B-72-EAST CHAMBER-B-72-EAST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following

signature. Signature :

5. M. Jodhemi

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



#### **CASE NARRATIVE**

21

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TCLP VOA Group1

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP VOA Group1.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of TCLP VOA Group1 was based on method 8260D and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The RPD met criteria . The Blank Spike met requirements for all samples .

The Blank Spike Duplicate for {VX0324WBSD01} with File ID: VX034717.D met requirements for all samples except for 1,2-Dichloroethane[123%], Chloroform[115%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

#### **E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

**APPROVED** By Sohil Jodhani, QA/QC Director at 8:58 am, Apr 06, 2023 2.1





22

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TCLP BNA

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP BNA.

#### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for WC1-20230322MS and WC1-20230322MSD due to matrix interference therefore no corrective action taken.

The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM030823.M) for 2,4-Dinitrotoluene, this compound is passing on Linear Regression



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The Continuous Calibration File ID BM039137.D met the requirements except for 2,4-Dinitrotoluene but associated QC within limits therefore no corrective action taken.

The Tuning criteria met requirements.

#### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_5. M. Jodhemi

**APPROVED** By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023 22



#### **CASE NARRATIVE**

2.3

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TCLP Pesticide

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Pesticide.

#### **C. Analytical Techniques:**

The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017-11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .

#### **E. Additional Comments:**

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

**APPROVED** By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023



#### **CASE NARRATIVE**

2.4

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: PCB

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for PCB.

#### **C. Analytical Techniques:**

The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .

#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**



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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature 5. M. Jodhemi

**APPROVED** By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023 2.4

O2058



#### **CASE NARRATIVE**

2.5

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TCLP Herbicide

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Herbicide.

#### **C. Analytical Techniques:**

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .

#### **E. Additional Comments:**

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023

2.5



#### **CASE NARRATIVE**

2.6

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TPH GC

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TPH GC.

#### **C. Analytical Techniques:**

The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 3541.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples.

The MS {O2022-01MS} with File ID: FG011662.D recoveries met the requirements for all compounds except for Petroleum Hydrocarbons[378%],due to sample matrix interference.

The MSD {O2022-01MSD} with File ID: FG011663.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[467%],due to sample matrix interference.

The RPD for {O2022-01MSD} with File ID: FG011663.D met criteria except for Petroleum Hydrocarbons[21%]due to difference in results of MS-MSD.

The Blank Spike met requirements for all samples .



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The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ S. M. Jodhumi

**APPROVED** By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023 2.6



7210 Corporate Court, Frederick, MD 21703 Phone: 240 215 3990 Fax: 908 789 8922

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#### CASE NARRATIVE

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: TCLP Mercury,TCLPMetals Group1

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Mercury, TCLPMetals Group1.

#### **C. Analytical Techniques:**

The analysis of TCLPMetals Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

#### **E. Additional Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023



#### CASE NARRATIVE

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O2058 Test Name: ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,TVS,ASTM COD,Ignitability,ASTM Oil and Grease,Reactive Cyanide,ASTM TPH,Reactive Sulfide

#### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 03/23/2023.

#### **B.** Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,TVS,ASTM COD,Ignitability,ASTM Oil and Grease,Reactive Cyanide,ASTM TPH,Reactive Sulfide.

#### **C. Analytical Techniques:**

The analysis of Ignitability was based on method 1030, The analysis of TVS was based on method 160.4, The analysis of ASTM TPH was based on method 1664, The analysis of ASTM Oil and Grease,Oil and Grease was based on method 1664A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of Corrosivity,pH was based on method 9045D, The analysis of Paint Filter was based on method 9095B, The analysis of TS was based on method SM2540 B, The analysis of ASTM Ammonia was based on method SM4500-NH3 and The analysis of ASTM COD was based on method SM5220 D.

#### D. QA/ QC Samples:

The Holding Times were met for all samples except for CHAMBER-B-72-EAST of pH, for CHAMBER-B-72-EAST of Corrosivity as this sample received out of hold.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (CHAMBER-B-72-WESTMS) analysis met criteria for all samples except for ASTM COD due to matrix interference.

The Matrix Spike (CHAMBER-C-72-EASTMS) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

## CHEMITECH

The Matrix Spike Duplicate (CHAMBER-B-72-WESTMSD) analysis met criteria for all samples except for ASTM COD due to matrix interference.

The Matrix Spike Duplicate (CHAMBER-C-72-EASTMSD) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination. The Calibration met the requirements.

#### **E. Additional Comments:**

As per method 1664A, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 8:59 am, Apr 06, 2023

2.8



#### DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).					
U	Indicates the analyte was analyzed for, but not detected.					
ND	Indicates the analyte was analyzed for, but not detected					
Ε	Indicates the reported value is estimated because of the presence of interference					
Μ	Indicates Duplicate injection precision not met.					
Ν	Indicates the spiked sample recovery is not within control limits.					
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).					
*	Indicates that the duplicate analysis is not within control limits.					
+	Indicates the correlation coefficient for the MSA is less than 0.995.					
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.					
M OR	<ul> <li>Method qualifiers</li> <li>"P" for ICP instrument</li> <li>"PM" for ICP when Microwave Digestion is used</li> <li>"CV" for Manual Cold Vapor AA</li> <li>"AV" for automated Cold Vapor AA</li> <li>"CA" for MIDI-Distillation Spectrophotometric</li> <li>"AS" for Semi – Automated Spectrophotometric</li> <li>"C" for Manual Spectrophotometric</li> <li>"T" for Titrimetric</li> <li>"NR" for analyte not required to be analyzed</li> <li>Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.</li> </ul>					
Q	Indicates the LCS did not meet the control limits requirements					



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#### DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest PCB and others.</li> </ul>
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
Ν	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements

#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: O2058

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	✓

st ]	Level	QA	Review	Signati	are:
	st ]	st Level	st Level QA	st Level QA Review	st Level QA Review Signati

MOHAMMAD AHMED

5. M. Jodhemi

Date: 04/06/2023

By Sohil Jodhani, QA/QC Director at 9:00 am, Apr 06, 2023

**APPROVED** 

O2058

21 of 64

Completed



Hit Summary Sheet SW-846 5

			SW	-846				
SDG No.:	O2058							^
Client:	H2M Architects	+ Engineers						В
		0						С
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	D
Client ID:								-

0

Total Voc :

**Total Concentration:** 



5

# <u>SAMPLE</u> <u>DATA</u>

## CHEMITECH

#### 5

		Report o	f Analysis	8		
Client:	H2M Architects + Engir	neers		Date Collected:	03/22/23	
Project:	Siphon			Date Received:	03/23/23	
Client Sample ID:	Client Sample ID CHAMBER-B-72-EAST			SDG No.:	O2058	
Lab Sample ID [.]	02058-02			Matrix [.]	TCLP	
Analytical Method	· SW8260			% Solid:	0	
	. 5w8200			76 Solid.	0	-
Sample Wt/Vol:	5 Units: ml	L		Final Vol:	5000	uL
Soil Aliquot Vol:	uL	,		Test:	TCLP VOA	Group1
GC Column:	DB-624UI ID :	0.18		Level :	LOW	
Prep Method :	SW5035					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VX034719.D	1			03/24/23 14:33	VX032423	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.21	U	0.21	5.00	ug/L
78-93-3	2-Butanone	1.20	U	1.20	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.13	U	0.13	5.00	ug/L
67-66-3	Chloroform	0.14	UQ	0.14	5.00	ug/L
71-43-2	Benzene	0.12	U	0.12	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.16	UQ	0.16	5.00	ug/L
79-01-6	Trichloroethene	0.26	U	0.26	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L
127-18-4	Tetrachloroethene	0.17	U	0.17	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
1330-20-7	Total Xylenes	0.46	U	0.46	15.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		64 - 133	95%	SPK: 50
INTERNAL STAND	ARDS	017000				
363-72-4	Pentafluorobenzene	317000	5.55			
540-36-3	1,4-Difluorobenzene	527000	6.757			
3114-55-4	Chlorobenzene-d5	480000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	222000	12.024			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:1 Siphon M11	8:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-02	CHAMBER-B-72-EAST	TCLP	TCLP VOA Group1	8260D	03/22/23		03/24/23	03/23/23

A B C D

5



Hit Summary Sheet	
SW-846	

Hit Summary Sheet SW-846									
SDG No.:	O2058				F				
Client:	H2M Architects	+ Engineers			l l	D			
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration C MDL	RDL Units				
				0.000					
			<b>Total Svoc :</b>	0.00					
			<b>Total Concentration:</b>	0.00					

6



6

# <u>SAMPLE</u> <u>DATA</u>



Client:

H2M Architects + Engineers

#### 6

t of An	alysis				
		Date Collected:	03/22/23		
		Date Received:	03/23/23		
		SDG No.:	O2058		
		Matrix:	TCLP		Li
		% Solid:	0		Ľ
		Final Vol:	1000	uL	
		Test:	TCLP BN	A	
nted :	Ν	Level :	LOW		
1.0		GPC Cleanup :	N	PH :	
					J
	Date	Analyzed	Prep Batch II	)	1
0:20	03/27	7/23 20:06	PB151670		
Qualifi	er MDL		LOQ / CRQL	Units	
					_
U	17.8		50.0	ug/L	
U	14.3		50.0	ug/L	
U	20.6		50.0	ug/L	
U	21.6		100	ug/L	
U	16.4		50.0	ug/L	
U	17.2		50.0	ug/L	
II	10.3		50.0	110/I	

#### Repor

Project: Siphon						Date Received:	03/23/23	
Client Sample II	D: CHAMBER-B-72	E-EAST				SDG No.:	O2058	
Lab Sample ID:	O2058-02					Matrix:	TCLP	
Analytical Metho	od: SW8270					% Solid:	0	
Sample Wt/Vol [.]	100 Units:	mL				Final Vol	1000	пL
Sail Aliquet Vel		nI.				Taati		uL.
		uL	_			lest.	ICLP BN	A
Extraction Type	:		Decan	ted : N		Level :	LOW	
Injection Volume	2:	GPC	C Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541							
File ID/Qc Batch:	Dilution:	I	Prep Date		Date A	Analyzed	Prep Batch II	)
BP014321.D	BP014321.D 1		)3/24/23 10	0:20	03/27/	/23 20:06	PB151670	
CAS Number	AS Number Parameter		Conc.	Qualifier	MDL		LOQ / CRQL	Units
TADCETS								
110-86-1	Pyridine		17.8	U	17.8		50.0	ug/L
106-46-7	1,4-Dichlorobenzene		14.3	U	14.3		50.0	ug/L
95-48-7	2-Methylphenol		20.6	U	20.6		50.0	ug/L
65794-96-9	3+4-Methylphenols		21.6	U	21.6		100	ug/L
67-72-1	Hexachloroethane		16.4	U	16.4		50.0	ug/L
98-95-3	Nitrobenzene		17.2	U	17.2		50.0	ug/L
87-68-3	Hexachlorobutadiene		19.3	U	19.3		50.0	ug/L
88-06-2	2,4,6-Trichlorophenol		15.2	U	15.2		50.0	ug/L
95-95-4	2,4,5-Trichlorophenol		15.7	U	15.7		50.0	ug/L
121-14-2	2,4-Dinitrotoluene		25.4	U	25.4		50.0	ug/L
118-74-1	Hexachlorobenzene		19.1	U	19.1		50.0	ug/L
87-86-5	Pentachlorophenol		25.5	U	25.5		100	ug/L
SURROGATES								
367-12-4	2-Fluorophenol		142		10 - 139		94%	SPK: 150
13127-88-3	Phenol-d6		130		10 - 134		87%	SPK: 150
4165-60-0	Nitrobenzene-d5		98.1		49 - 133		98%	SPK: 100
321-60-8	2-Fluorobiphenyl		93.1		52 - 132		93%	SPK: 100
118-79-6	2,4,6-Tribromophenol		146		45 - 141		97%	SPK: 150
1718-51-0	Terphenyl-d14		93.8		45 - 142		94%	SPK: 100
INTERNAL STAN	DARDS							
3855-82-1	1,4-Dichlorobenzene-d4		116000	8.028				
1146-65-2	Naphthalene-d8		439000	10.846				
15067-26-2	Acenaphthene-d10		267000	14.675				
1517-22-2	Phenanthrene-d10		598000	17.428				
1719-03-5	Chrysene-d12		635000	21.51				
1520-96-3	Perylene-d12		733000	24.027				



Dilution:

1

Parameter

Prep Date

Conc.

03/24/23 10:20

Qualifier

Client:

Project:

Client Sample ID:

Analytical Method:

Lab Sample ID:

Sample Wt/Vol:

Soil Aliquot Vol:

Extraction Type :

Injection Volume : Prep Method :

File ID/Qc Batch:

BP014321.D

**CAS Number** 

<b>Report of Analysis</b>		
H2M Architects + Engineers	Date Collected:	03/22/23
Siphon	Date Received:	03/23/23
CHAMBER-B-72-EAST	SDG No.:	O2058
O2058-02	Matrix:	TCLP
SW8270	% Solid:	0
100 Units: mL	Final Vol:	1000 uL
uL	Test:	TCLP BNA
Decanted : N	Level :	LOW
GPC Factor : 1.0	GPC Cleanup : N	PH :
SW3541		

Date Analyzed

03/27/23 20:06

MDL

Prep Batch ID

Units

PB151670

LOQ / CRQL

U = Not Detected	
------------------	--

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

O2058

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



#### **Report of Analysis**

Client: H2M Architects + E		s + Engineers			Date Collected:	03/24/23	
Project:	Siphon				Date Received:	03/24/23	
Client Sample II	D: PB151641TB				SDG No.:	O2058	
Lab Sample ID:	PB151641TB				Matrix:	TCLP	
Analytical Meth	od [.] SW8270				% Solid [.]	0	
Samala W//Wala	100 Lui	4T			Final Val	1000	
Sample wt/vol:	100 Uni	ts: mL			Final Vol:	1000	uL
Soil Aliquot Vol	:	uL			Test:	TCLP BN	A
Extraction Type	:	Deca	nted : N		Level :	LOW	
Injection Volume	2:	GPC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541						
File ID/Qc Batch:	Dilution:	Prep Date		Date A	nalyzed	Prep Batch II	)
BP014301.D	1	03/24/23 1	0:20	03/24/2	3 22:23	PB151670	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units
TARGETS	Duridina	17 0	II	17.9		50.0	ug/I
106 46 7	rynune 14 Diablarahanzana	17.0	U	1/.0		50.0	ug/L
05 48 7	2 Methylphenol	14.5	U	14.5 20.6		50.0	ug/L
95-40-7	2-Methylphenol	20.0	U	20.0		30.0	ug/L
67 72 1	3+4-Methylphenois	21.0	U	21.0 16.4		100 50.0	ug/L
07-72-1	Nitrohonzono	10.4	U	10.4		50.0	ug/L
90-93-3	Havaahlarahutadiana	17.2	U	17.2		50.0	ug/L
87-08-3 88 06 2	2.4.6 Trichlorophonol	19.5	U	19.5		50.0	ug/L
05 05 <i>4</i>	2,4,0-Inchlorophenol	15.2	U	15.2		50.0	ug/L
93-93-4 121-14-2	2,4,5-Inchiorophenoi	15.7	U	15.7 25.4		50.0	ug/L
121-14-2	2,4-Dilluololuelle	23.4	U	23.4		50.0	ug/L
87.86.5	Pentachlorophenol	19.1	U	25.5		100	ug/L
87-80-5	remacmorophenor	25.5	0	25.5		100	ug/L
SURROGATES	2 Elucrophonol	151		10 120		1010/	SDV: 150
307-12-4	2-Fluorophenol	131		10 - 139		101%	SPK. 150
13127-88-3	Nitrohonzono d5	148		10 - 134		99%	SPK: 150
4105-00-0	Nitrobenzene-d5	96.1		49 - 133		96%	SPK: 100
321-00-8	2-Fluorodiphenyl	90.7		52 - 152 45 141		91% 810/	SPK: 100
118-79-0	2,4,0-Indiomophenoi	121		45 - 141		8170	SPK. 150
1/18-51-0	TerpnenyI-d14	105		45 - 142		105%	SPK: 100
INTERNAL STAN	DARDS						
3855-82-1	1,4-Dichlorobenzene-d4	200000	8.028				
1146-65-2	Naphthalene-d8	771000	10.852				
15067-26-2	Acenaphthene-d10	470000	14.675				
1517-22-2	Phenanthrene-d10	931000	17.434				
1719-03-5	Chrysene-d12	586000	21.516				
1520-96-3	Perylene-d12	555000	24.033				

6

C D



**Report of Analysis** 

С

CAS Number	Parameter	Con	c.	Qualifi	ier	MDL		LOQ	/ CRQL		Units
BP014301.D	1	03/2-	4/23 10	:20		03/24/2	3 22:23	PI	3151670		
File ID/Qc Batch:	Dilution:	Prep	Date			Date A	nalyzed	Pr	ep Batch I	D	
Prep Method :	SW3541										
Injection Volume	:	GPC Fa	ctor :	1.0			GPC Cleanup :	Ν		PH :	
Extraction Type :			Decant	ed :	Ν		Level :		LOW		
Soil Aliquot Vol:		uL					Test:		TCLP BN	ΙA	
Sample Wt/Vol:	100 U	Jnits: mL					Final Vol:		1000		uL
Analytical Metho	od: SW8270						% Solid:		0		
Lab Sample ID:	PB151641TF	3					Matrix:		TCLP		
Client Sample ID	PB151641TF	3					SDG No.:		O2058		
Project:	Siphon						Date Received:		03/24/23		
Client:	H2M Archite	ects + Engineers					Date Collected:		03/24/23		

#### U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

O2058

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:18 Siphon M11	8:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-02	CHAMBER-B-72-EAST	TCLP	TCLP BNA	8270E	03/22/23	03/24/23	03/27/23	03/23/23

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#### Hit Summary Sheet SW-846

SDG No.:	O2058			Order ID:	O2058			
Client:	H2M Architects +	Engineers		Project ID:	: Siphon			В
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	C D
			Total Concentration:	0.000				

**Total Concentration:** 





# <u>SAMPLE</u> <u>DATA</u>



Client:	H2M Architects	+ Engineers			Date Collected:	03/22/23	
Project:	Siphon				Date Received:	03/23/23	
Client Sample ID:	CHAMBER-B-	72-EAST			SDG No.:	O2058	
Lab Sample ID:	O2058-02				Matrix:	TCLP	
Analytical Method	: SW8081				% Solid:	0 Dec	canted:
Sample Wt/Vol:	100 Unit	ts: mL			Final Vol:	10000	uL
Soil Aliquot Vol:		uL			Test:	TCLP Pesticide	
Extraction Type:					Injection Volume :		
Extraction Type.					injection volume .		
GPC Factor :	1.0	PH :					
Prep Method :	SW3541B						
File ID/Qc Batch:	Dilution:	Prej	o Date		Date Analyzed	Prep Batel	h ID
PL081724.D	1	03/2	24/23 11:10		03/24/23 18:44	PB151671	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units
TARCETS							
58-89-9	gamma-BHC (Lindane)	) 0.064	U	0.064		0.50	ug/L
76-44-8	Heptachlor	0.073	U	0.073		0.50	ug/L
1024-57-3	Heptachlor epoxide	0.10	U	0.10		0.50	ug/L
72-20-8	Endrin	0.043	U	0.043		0.50	ug/L
72-43-5	Methoxychlor	0.066	U	0.066		0.50	ug/L
8001-35-2	Toxaphene	1.80	U	1.80		10.0	ug/L
57-74-9	Chlordane	0.97	U	0.97		5.00	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	13.9		27 - 142		69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		60 - 145		96%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
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MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

O2058

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C D



Client:	Н	2M Arcl	hitects + I	Engineers				Date Collected:			
Project:	Si	phon						Date Received:	03/24/23		
Client Sample ID:	Pl	B151641	ITB					SDG No.:	O2058		
Lab Sample ID:	Pl	B151641	ITB					Matrix:	TCLP		
Analytical Method	: S ^v	W8081						% Solid:	0	Decanted:	
Sample Wt/Vol:	10	00	Units:	mL				Final Vol:	10000	uL	
Soil Aliquot Vol:				uL				Test:	TCLP Pestic	ide	
Extraction Type:								Injection Volume :			
GPC Factor :	1.	0		PH :							
Prep Method :	S	W3541E	}								
	D	11 <i>1</i>			D. D.			Defe Accel 1	D	D.(.) ID	
File ID/Qc Batch:	D	ilution:			Prep Da	ite		Date Analyzed	Prep	Batch ID	
PL081728.D	1				03/24/2	3 11:10		03/24/23 19:40	PB1	51671	
CAS Number	Parameter			Con	ıc.	Qualifier	MDL		LOQ / C	RQL	Units
CAS Number	Parameter			Con	ıc.	Qualifier	MDL		LOQ / C	RQL	Units
CAS Number TARGETS 58-89-9	Parameter	HC (Lir	idane)	<b>Con</b>	ю. 64	<b>Qualifier</b> U	<b>MDL</b> 0.064		LOQ / C	<b>RQL</b>	Units ug/L
CAS Number TARGETS 58-89-9 76-44-8	Parameter gamma-BI Heptachlor	HC (Lir r	ndane)	Con 0.00 0.07	ю. 64 73	<b>Qualifier</b> U U	MDL 0.064 0.073		LOQ / C	RQL 0.50 0.50	Units ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3	Parameter gamma-BI Heptachlor Heptachlor	HC (Lir r r epoxic	idane) le	Con 0.00 0.0' 0.10	ю. 64 73 0	<b>Qualifier</b> U U U	MDL 0.064 0.073 0.10		LOQ / C	RQL 0.50 0.50 0.50	Units ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8	Parameter gamma-BI Heptachlor Heptachlor Endrin	HC (Lir r r epoxic	idane) le	Con 0.00 0.10 0.10	ю. 64 73 0 43	Qualifier U U U U U	MDL 0.064 0.073 0.10 0.043		LOQ / C	RQL 0.50 0.50 0.50 0.50	Units ug/L ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8 72-43-5	Parameter gamma-BI Heptachlor Heptachlor Endrin Methoxycl	HC (Lir r r epoxic hlor	idane) de	Con 0.00 0.10 0.04 0.04	ас. 64 73 0 43 66	Qualifier U U U U U U U	MDL 0.064 0.073 0.10 0.043 0.066			RQL 0.50 0.50 0.50 0.50 0.50	Units ug/L ug/L ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8 72-43-5 8001-35-2	Parameter gamma-BH Heptachlor Heptachlor Endrin Methoxycl Toxaphene	HC (Lir r r epoxic hlor	idane) le	Con 0.00 0.07 0.10 0.04 0.00 1.80	ас. 64 73 0 43 66 0	Qualifier U U U U U U U U	MDL 0.064 0.073 0.10 0.043 0.066 1.80			RQL 0.50 0.50 0.50 0.50 0.50 0.50 10.0	Units ug/L ug/L ug/L ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8 72-43-5 8001-35-2 57-74-9	Parameter gamma-BH Heptachlor Heptachlor Endrin Methoxycl Toxaphene Chlordane	HC (Lir r r epoxic hlor	idane) de	Con 0.00 0.10 0.04 0.00 1.80 0.9	64 73 0 43 66 0 7	Qualifier U U U U U U U U U U U	MDL 0.064 0.073 0.10 0.043 0.066 1.80 0.97			RQL 0.50 0.50 0.50 0.50 0.50 10.0 5.00	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8 72-43-5 8001-35-2 57-74-9 SURROGATES	gamma-BH Heptachlor Heptachlor Endrin Methoxycl Toxaphene Chlordane	HC (Lir r r epoxic hlor	idane) de	Con 0.00 0.10 0.00 0.00 1.80 0.97	64 73 0 43 66 0 7	Qualifier U U U U U U U U U U	MDL 0.064 0.073 0.10 0.043 0.066 1.80 0.97			RQL 0.50 0.50 0.50 0.50 0.50 10.0 5.00	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L
CAS Number TARGETS 58-89-9 76-44-8 1024-57-3 72-20-8 72-43-5 8001-35-2 57-74-9 SURROGATES 2051-24-3	Parameter gamma-BH Heptachlor Heptachlor Endrin Methoxycl Toxaphene Chlordane	HC (Lir r r epoxic hlor e	ndane) de nyl	Con 0.00 0.10 0.04 0.00 1.80 0.97	ec. 64 73 0 43 66 0 7 2	Qualifier U U U U U U U U U U	MDL 0.064 0.073 0.10 0.043 0.066 1.80 0.97 27 - 142			RQL 0.50 0.50 0.50 0.50 10.0 5.00 91%	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

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C D



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:18 Siphon M11	8:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-01	CHAMBER-B-72-EAST	SOIL			03/22/23			03/23/23
			TPH GC	8015D		03/24/23	03/24/23	
02058-02	CHAMBER-B-72-EAST	TCLP			03/22/23			03/23/23
			TCLP Herbicide TCLP Pesticide	8151A 8081B		03/25/23 03/24/23	03/27/23 03/24/23	

#### Hit Summary Sheet SW-846

SDG No.: Client:	O2058 H2M Architects + Engineers			Order ID: O2058 Project ID: Sinhon	A
Sample ID	Client ID	Matrix	Parameter	Concentration C MDL	RDL Units
Client ID :	CHAMBER-B-72-	EAST			D
O2058-01	CHAMBER-B-	72-EA¦ SOIL	Aroclor-1260 Total Concentra	50.6 7.00 tion: <b>50.600</b>	35.7 ug/kg



# <u>SAMPLE</u> <u>DATA</u>



	Client:		H2M Arcl	nitects + I	Engineers			Date Collected:	03/22/23	
	Project:		Siphon					Date Received:	03/23/23	
	Client Sample ID:		CHAMBI	ER-B-72-1	EAST			SDG No.:	O2058	
	Lab Sample ID:		O2058-01					Matrix:	SOIL	
	Analytical Method		SW8082A	L				% Solid:	47.5 De	ecanted:
	Sample Wt/Vol:		30.05	Units:	g			Final Vol:	10000	uL
	Soil Aliquot Vol:				uL.			Test:	PCB	
	Extraction Tune:				μĽ			Injustion Volume	TCD	
	Extraction Type.		4.0		DII			injection volume.		
	GPC Factor :		1.0		PH :					
	Prep Method :		SW3541E	}						
	File ID/Qc Batch: Dilution:			Prep Date			Date Analyzed	Prep Bate	ch ID	
	PO093513.D		1		03/24/23 09:10			03/24/23 14:52	PB15165	5
C.	AS Number	Paramete	r		Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight
,										
	12674-11-2	Aroclor-	1016		7 50	U	7 50		35.7	uø/kø
	11104-28-2	Aroclor-	1221		12.3	U	12.2		25.7	ug/kg
	11141-16-5								<b>1</b> .) /	112/152
		Aroclor-	1232		9.50	U	9.50		35.7	ug/kg ug/kg
	53469-21-9	Aroclor- Aroclor-	1232 1242		9.50 6.60	U U	9.50 6.60		35.7 35.7 35.7	ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6	Aroclor- Aroclor- Aroclor-	1232 1242 1248		9.50 6.60 5.90	U U U U	9.50 6.60 5.90		35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6 11097-69-1	Aroclor- Aroclor- Aroclor- Aroclor-	1232 1242 1248 1254		9.50 6.60 5.90 7.90	U U U U	9.50 6.60 5.90 7.90		35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6 11097-69-1 37324-23-5	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	1232 1242 1248 1254 1262		9.50 6.60 5.90 7.90 5.70	U U U U U	9.50 6.60 5.90 7.90 5.70		35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	1232 1242 1248 1254 1262 1268		9.50 6.60 5.90 7.90 5.70 6.90	U U U U U U	9.50 6.60 5.90 7.90 5.70 6.90		35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	1232 1242 1248 1254 1262 1268 1260		9.50 6.60 5.90 7.90 5.70 6.90 50.6	U U U U U U	9.50 6.60 5.90 7.90 5.70 6.90 7.00		35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	1232 1242 1248 1254 1262 1268 1260		9.50 6.60 5.90 7.90 5.70 6.90 50.6	U U U U U	9.50 6.60 5.90 7.90 5.70 6.90 7.00		35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
:	53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Tetrachlo	1232 1242 1248 1254 1262 1268 1260	lene	9.50 6.60 5.90 7.90 5.70 6.90 50.6	U U U U U	9.50 6.60 5.90 7.90 5.70 6.90 7.00 40 - 162		35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
:	53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8 2051-24-3	Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Tetrachlo Decachlo	1232 1242 1248 1254 1262 1268 1260 pro-m-xy	lene nyl	9.50 6.60 5.90 7.90 5.70 6.90 50.6	U U U U U	12.3 9.50 6.60 5.90 7.90 5.70 6.90 7.00 40 - 162 32 - 176		33.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit

8

C D

M = MS/MSD acceptance criteria did not meet requirements



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:13 Siphon M11	8:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-01	CHAMBER-B-72-EAST	SOIL			03/22/23			03/23/23
			PCB	8082A		03/24/23	03/24/23	
			TPH GC	8015D		03/24/23	03/24/23	
02058-02	CHAMBER-B-72-EAST	TCLP			03/22/23			03/23/23
			TCLP Herbicide	8151A		03/25/23	03/27/23	
			ICLP Pesticide	8081B		03/24/23	03/24/23	

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Hit Summary Sheet SW-846

SDG No.:	O2058			Order ID:	O2058			
Client:	H2M Architects +	Engineers		Project ID:	Siphon			В
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	C D

**Total Concentration:** 

0.000

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# <u>SAMPLE</u> <u>DATA</u>



Client:	H2M Arc	hitects + E	ngineers			Date Collected:	03/22/23		
Project:	Siphon					Date Received:	03/23/23		
Client Sample ID:	CHAMBI	ER-B-72-E	EAST			SDG No.:	O2058		
Lab Sample ID:	O2058-02	2				Matrix:	TCLP		
Analytical Method	: SW8151A	A				% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Units:	mL			Final Vol:	10000	uL	
Soil Aliquot Vol:			uL			Test:	TCLP Herbic	ide	
Extraction Type:						Injection Volume :			
GPC Factor :	1.0	•	PH :						
Prep Method :	8151A								
File ID/Qc Batch:	Dilution:		Pr	ep Date		Date Analyzed	Prep	Batch ID	
PS022515.D	1		03	8/25/23 08:10		03/27/23 11:54	PB15	1716	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CF	QL	Units
TARGETS									
94-75-7	2,4-D		5.70	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Silvex)		5.40	U	5.40		2	0.0	ug/L
SURROGATES									
19719-28-9	2,4-DCAA		573		16 - 175		1	15%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

A B C D



Client:	H2M Arch	nitects + E	Engineers			Date Collected:			
Project:	Siphon					Date Received:	03/25/23		
Client Sample ID:	PB151641	ТВ				SDG No.:	O2058		
Lab Sample ID:	PB151641	ТВ				Matrix:	TCLP		
Analytical Method:	SW8151A					% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Units:	mL			Final Vol:	10000	uL	
Soil Aliquot Vol:			uL			Test:	TCLP Herbic	ide	
Extraction Type:						Injection Volume :			
GPC Factor :	1.0		PH :						
Prep Method :	8151A								
File ID/Qc Batch:	Dilution:		Pı	rep Date		Date Analyzed	Prep Batch ID		
PS022529.D	1		03	3/25/23 08:10		03/27/23 19:08	PB15	51716	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CF	RQL	Units
TARGETS									
94-75-7	2,4-D		5.70	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Silvex)		5.40	U	5.40		2	0.0	ug/L
SURROGATES 19719-28-9	2,4-DCAA		673		16 - 175		1	35%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
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concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

9

A B C D

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#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:18 Siphon M11	3:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-01	CHAMBER-B-72-EAST	SOIL	TPH GC	8015D	03/22/23	03/24/23	03/24/23	03/23/23
02058-02	CHAMBER-B-72-EAST	TCLP	TCLP Herbicide	8151A	03/22/23	03/25/23	03/27/23	03/23/23

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# <u>SAMPLE</u> <u>DATA</u>



В

#### **Report of Analysis**

Client:	H2M Architects + H	Engineers			Date Collected:	03/22/23	
Project:	Siphon				Date Received:	03/23/23	
Client Sample ID:	CHAMBER-B-72-I	EAST			SDG No.:	O2058	
Lab Sample ID:	O2058-01				Matrix:	SOIL	
Analytical Method	: 8015D TPH				% Solid:	47.5 De	canted:
Sample Wt/Vol:	30.01 Units:	g			Final Vol:	1	mL
Soil Aliquot Vol:		uL			Test:	TPH GC	
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :	SW3541						
File ID/Oc Batch:	Dilution:	Prep	Date		Date Analyzed	Pren Batc	h ID
FF012352.D	1	03/24	4/23 09:30		03/24/23 15:08	PB151662	2
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS PHC	Petroleum Hydrocarbons	34900		846		5960	ug/kg
<b>SURROGATES</b> 16416-32-3	TETRACOSANE-d50	13.8		37 - 130		69%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

48 of 64



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan	OrderDate: Project: Location:	3/23/2023 11:13 Siphon M11	8:00 AM				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-01	. CHAMBER-B-72-EAST	SOIL	TPH GC	8015D	03/22/23	03/24/23	03/24/23	03/23/23

10



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet SW-846										
SDG No.:	O2058			Order ID:		O2058				
Client:	H2M Architects + Engineers			Project ID	):	Siphon				
Sample ID	Client ID	Matrix	Parameter	Concentration	С	MDL	RDL	Units		
Client ID :	CHAMBER-B-72-EAST									
O2058-02	CHAMBER-B-72-EAST	TCLP	Barium	804		39.2	500	ug/L		
O2058-02	CHAMBER-B-72-EAST	TCLP	Iron	57700		185	500	ug/L		
O2058-02	CHAMBER-B-72-EAST	TCLP	Nickel	18.7	J	8.50	200	ug/L		
O2058-02	CHAMBER-B-72-EAST	TCLP	Zinc	1100		17.5	200	ug/L		

11

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### <u>SAMPLE</u> <u>DATA</u>



#### **Report of Analysis**

				Α
Client:	H2M Architects + Engineers	Date Collected:	03/22/23	в
Project:	Siphon	Date Received:	03/23/23	
Client Sample ID:	CHAMBER-B-72-EAST	SDG No.:	O2058	C
Lab Sample ID:	O2058-02	Matrix:	TCLP	D
Level (low/med):	low	% Solid:	0	J

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	283	U	1	283	500	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-39-3	Barium	804		1	39.2	500	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-43-9	Cadmium	1.00	U	1	1.00	30.0	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-47-3	Chromium	8.00	U	1	8.00	50.0	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-50-8	Copper	70.7	U	1	70.7	100	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7439-89-6	Iron	57700		1	185	500	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7439-97-6	Mercury	0.78	U	1	0.78	2.00	ug/L	03/27/23 12:47	03/27/23 19:59	SW7470A	
7440-02-0	Nickel	18.7	J	1	8.50	200	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-22-4	Silver	6.60	U	1	6.60	50.0	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050
7440-66-6	Zinc	1100		1	17.5	200	ug/L	03/24/23 11:00	03/24/23 19:01	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP Mercury			
Comments:TCLP MercuryU = Not DetectedLOQ = Limit of QuantitationMDL = Method Detection LimitLOD = Limit of DetectionD = DilutionO = indicates LCS control criteria did not meet requirements				J = Estimated Value B = Analyte Found in Associated Method Blank * = indicates the duplicate analysis is not within control limits. E = Indicates the reported value is estimated because of the presence of interference.
Q = indicates LCS control criteria did not meet requirements				N = Spiked sample recovery not within control limits
O2058			52 c	of 64



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan	OrderDate: Project: Location:	3/23/2023 11:18 Siphon Select,M11	3:00 AM				
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-02	CHAMBER-B-72-EAST	TCLP			03/22/23			03/23/23
			TCLP Mercury	7470A		03/27/23	03/27/23	
			TCLPMetals Group1	6010D		03/24/23	03/24/23	

11

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# <u>SAMPLE</u> <u>DATA</u>



Client	UDM Amhitesta   Engineena	Data Callastada	02/22/22 12:20	
Client	H2M Architects + Engineers	Date Collected:	03/22/23 13:30	в
Project:	Siphon	Date Received:	03/23/23	Ľ
Client Sample ID:	CHAMBER-B-72-EAST	SDG No.:	O2058	С
Lab Sample ID:	O2058-01	Matrix:	SOIL	
		% Solid:	47.5	J

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight) Prep Date	Date Ana.	Ana Met.
Oil and Grease	105	J	1	84.1	263	mg/Kg	03/28/23 11:30	1664A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm	03/24/23 15:47	9095B
pН	6.82	Η	1	0	0	pH	03/23/23 16:35	9045D
TS	48.1		1	1.00	5.00	%	03/23/23 10:00	SM 2540 B-15
TVS	11.7		1	1.00	10.0	%	03/23/23 16:10	160.4

Comments: pH result reported at temperature 22.1 °C

II -	Not	Detected
U -	INUL.	Deletieu

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
			9	% Solid:	100		
Lab Sample ID:	O2058-02		Ν	Matrix:	SOIL		
Client Sample ID:	CHAMBER-B-72-EAST		S	SDG No.:	O2058		
Project:	Siphon		Ι	Date Received:	03/23/23		
Client:	H2M Architects + Engineers		Ι	Date Collected:	03/22/23 13	3:30	

		•					1		
Corrosivity	6.82	Н	1	0	0	pН		03/23/23 16:35	9045D
Ignitability	NO		1	0	0	oC		03/24/23 14:02	1030
Reactive Cyanide	0.018	J	1	0.011	0.049	mg/Kg	03/23/23 10:45	03/23/23 13:57	9012B
Reactive Sulfide	7.92	J	1	2.98	10.0	mg/Kg	03/28/23 09:00	03/28/23 11:19	9034

Comments: pH result reported at temperature 22.1 °C

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



ASTM COD

ASTM TPH

ASTM Oil and Grease

24.0

0.53

1.65

2.52

0.53

1.65

1

1

1

U

U

В

03/29/23 16:24 SM 5220 D-11

03/29/23 09:30 SW1664A

03/29/23 10:00 SW1664

#### **Report of Analysis**

Client:	H2	M Archi	tects	+ Engineers			Date Collected:	03/22/23 13	3:30
Project:	Sip	hon					Date Received:	03/23/23	
Client Sample ID:	CH	IAMBEI	R-B-7	2-EAST			SDG No.:	O2058	
Lab Sample ID:	02	058-03					Matrix:	WATER	
							% Solid:	0	
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
ASTM Ammonia	17.1	OR	1	0.045	0.10	mg/L	03/30/23 09:15	03/30/23 12:30	SM 4500-NH3 B plus NH3 G-11

mg/L

mg/L

mg/L

10.0

5.00

5.00

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Client:H2M Architects + EngineersDate Collected:03/22/23 13:30Project:SiphonDate Received:03/23/23Client Sample ID:CHAMBER-B-72-EASTDLSDG No.:02058Lab Sample ID:O2058-03DLMatrix:WATER
Client:H2M Architects + EngineersDate Collected:03/22/23 13:30Project:SiphonDate Received:03/23/23Client Sample ID:CHAMBER-B-72-EASTDLSDG No.:02058
Client:H2M Architects + EngineersDate Collected:03/22/23 13:30Project:SiphonDate Received:03/23/23
Client: H2M Architects + Engineers Date Collected: 03/22/23 13:30

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O2058 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/23/2023 11:18 Siphon M11	3:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
02058-01	CHAMBER-B-72-EAST	SOIL			03/22/23			03/23/23
			Oil and Grease	1664A	15.50		03/28/23	
			Paint Filter	9095B			11:30 03/24/23 15:47	
			рН	9045D			03/23/23	
			TS	SM2540 B			03/23/23	
			TVS	160.4			03/23/23 16:10	
02058-02	CHAMBER-B-72-EAST	SOIL			03/22/23			03/23/23
			Corrosivity	9045D	15.50		03/23/23	
			Ignitability	1030			03/24/23	
			Reactive Cyanide	9012B		03/23/23	14:02 03/23/23 13:57	
			Reactive Sulfide	9034		03/28/23	03/28/23	
02058-03	CHAMBER-B-72-EAST	WATER			03/22/23			03/23/23
			ASTM Ammonia	SM4500-NH3	15.50	03/30/23	03/30/23 12:30	
			ASTM COD	SM5220 D			03/29/23	
			ASTM Oil and Grease	1664A			03/29/23 09:30	

A B C

12





A B C

#### Phone: (908) 789 8900 Fax: (908) 789 8922

			LAB CHRON	ICLE				
			ASTM TPH	1664			03/29/23 10:00	
02058-03DL	CHAMBER-B-72-EAST DL	WATER			03/22/23 13:30			03/23/23
			ASTM Ammonia	SM4500-NH3		03/30/23	03/30/23 13:24	



# <u>SHIPPING</u> DOCUMENTS

13

CHE CHAIN OF C	<b>MTE</b>	CH		284	She (908	(fiel ) 78	ld Stre 39-890 www	et, Mo )0 • Fa /.chem	untai x (90 itech	insid 18) 78 .net	e, NJ 39-89	070 922	92			HEMTE UOTE I OC Nu	ECH PF NO. () mber	ROJEC 203	т NO. 7 - 893(	02858 )	<b>13</b> 13.1
	CLIENT	INFORMATION		14300	12		CLIENT P	ROJECT II	FORMA	TION		1	1			CLIEN	TBILLI	NG INF	ORMATION		
COMPANY:	H2M archi	tto BE SENTTO: tuts + enj. 1996	1		ECT N	IAME	: Nor then	Blue	Sphon	Cle	ning		BILL T	: H	2M a	rch.fa	ub+	engin	<u>(180#:</u>		
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CITY Mole	ville.	STATE: NY	ZIP: 1747	PROJE	CT MA	NAG	ER: St	phen h	Laplor				CITY	Nel	ville	-		STAT	re:NY	ZIP: 1174	(7
	Stephen	Kallan		e-mail:	SK	an	lan (	= H21	4.0				ATTE	TION:	Style	n Kc	plan	РНО	NE: 671	756 8000×1	GR
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FAX (RUSH) HARDCOPY (D/ EDD: TO BE APPRO STANDARD HA	ATA PACKAGE): VED BY CHEMT RDCOPY TURN/	ECH AROUND TIME IS 10	DAYS* DAYS* DAYS* BUSINESS DAYS	<ul> <li>Leve</li> <li>Leve</li> <li>Leve</li> <li>+ Ra</li> <li>EDD</li> </ul>	l 1 (Res l 2 (Res l 3 (Res aw Dat FORM	sults C sults + sults + a) IAT	)nly) □ - QC) □ ⊦ QC □ □	Level 4 (Q( NJ Reduce NYS ASP / Other	C + Full R ad I US A I NY:	law Data S EPA CI S ASP E	a) LP LP LP 2	14 1 1 1 1 14 1 1 1 14 1 1	A DDEE			/	/8	9			
CHEMTECH				Î	SAM	PLE	SAM	APLE	LLES				PRE	SERVA	IIVES				CC ← Spec	ify Preservative	s
SAMPLE	S/	PROJECT	TION	SAMPLE	COMP	GRAB	DATE	TIME	# OF BOTT	1	2	3	4	5	6	7	8	9	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER	
1.	CHAMBER	R 21" Ea	at	3/0230		X	3/22/23	(330-	12	X							ĺ				1
2.	HUMANDA	A KNAN NE	Salla and a	In		×	ndr	~~	man	N.											
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DELINGUISUES D	V CAMPLED:	SAMPLE CUSTOR	DY MUST BE DOCI	UMENTE	D BEL	.ow	EACH TI		LES CI	HANGE	POSS	ESSIC		UDING	COUR			Y C	3	10 A	
1. Jack	y SAMPLER:	3/22/3 730	1.				Conditi	nts: 5	s or cooler	at recei	cheb		h.k	inty	Fac		1 pc	ran	iehr)		
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RELINQUISHED B	Y AMPLER:	DATE/TIME:	RECEIVED BY:						.	CLIEN	T: Q	Hand D	elivered	20	ther				Shipme	nt Complete	-
3.			3.				Page	of _		CHEMT	ECH:	D Pic	ked Up	Q Fie	ld Samp	ling			YES	S I NO	
2/02058			WHITE - CHEMTE	CH COPY F	OR RET	URN T	O CLIENT	62 of	34 - CHEI	VITECH C	OPY	PINK	- SAMPLE	RCOPY							

# Form U Parameters (White Pines)

# **TCLP Metals**

Arsenic Barium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Zinc Aluminum

# **TCLP Semi-Volatiles**

O-Cresol M-Cresol P-Cresol 1,4 Dichlorobenzene 2,4 Dinitrotoluene Hexachlorobenzene Hexachloroothane Hexachloroethane Hexachloroethane Pentachlorophenol 2,4,5 Trichlorophenol 2,4,6 Trichlorophenol

# ASTM Leachate

Ammonia-Nitrogen Chemical Oxygen Demand Oil & Grease Total Petroleum Hydrocarbons

# **TCLP Volatiles**

Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,2 Dichloroethane 1,1 Dichloroethene 2-Butanone (MEK) Pyridine Tetrachloroethene Trichloroethene Trichloroethene Vinyl Chloride Toluene Ethylbenzene Xylene

# **TCLP Pesticides/Herbicides**

Chlordane Endrin Heptachlor Heptachlor Epoxide Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex

# Total Analysis

pH Free Liquids Ignitability Oil & Grease Total Petroleum Hydrocarbons PCBs Reactive Cyanide Reactive Sulfide Total Organic Halogens Total Solids Total Solids



#### 13 13.2

#### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15



#### SUB DATA PACKAGE

PROJECT NAME : SIPHON PROJECT # : 02057

#### H2M ARCHITECTS + ENGINEERS

290 Broad Hollow Road Suite 400E Melville, NY - 11747 Phone No: 631-756-8000

ORDER ID : 02057 ATTENTION : Stephen I. Kaplan







#### **Cover Page**

- **Order ID :** 02057
- Project ID : Siphon

Client : H2M Architects + Engineers

#### Lab Sample Number

O2057-01

Client Sample Number

CHAMBER-B-72-EAST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following

signature. Signature :

5. M. Jodhemi

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

March 28, 2023

PM Chemtech 284 Sheffield Street Mountainside, NJ 07092 TEL: FAX:

RE: 02057

Dear PM:

Order No.: 23031824

Summit Environmental Technologies, Inc. received 1 sample(s) on 3/23/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

miter maleast

Jennifer Woolf Project Manager

3310 Win St. Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com

#### **Case Narrative**

WO#:23031824Date:3/28/2023

CLIENT:	Chemtech
Project:	O2057

WorkOrder Narrative:

23031824: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:

Sample analyzed by SW846: 9023 EOX due to matrix; Results reported on "as received" basis.


Summit Environmental Technologies, In 3310 Win S Cuyahoga Falls, Ohio 4422 TEL: (330) 253-8211 FAX: (330) 253-448 Website: <u>http://www.settek.co</u>

#### **Qualifiers and Acronyms**

WO#:23031824Date:3/28/2023

These commonly used Qualifiers and Acronyms may or may not be present in this report.

#### Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
Н	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
Е	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
Ν	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
Р	The second column confirmation exceeded 25% difference.
С	The result has been confirmed by GC/MS.
Х	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.

W Samples were received outside temperature limits ( $0^\circ - 6^\circ C$ ). Not Clean Water Act compliant.

Z Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

#### Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

#### Workorder Sample Summary

WO#: 23031824 28-Mar-23

CLIENT: Project:	Chemtech O2057				
Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23031824-001	Chamber-B-72-East		3/22/2023 1:30:00 PM	3/23/2023 10:15:00 AM	Solid



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#### **DATES REPORT**

WO#: 23031824

28-Mar-23

Client: Project:	Chemtech O2057						
Sample ID	Client Sample ID	<b>Collection Date</b>	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23031824-001A	Chamber-B-72-East	3/22/2023 1:30:00 PM	Solid	Extractable Organic I	Halides (EOX) (90		3/27/2023 2:00:00 PM

Original

	ENTAL TECHNOL Laboratories	LOGIES, INC	Summit Environmental Technolo 331 Cuyahoga Falls, Of TEL: (330) 253-8211 FAX: (330) Website: <u>http://www.s</u>	ogies, Inc. 10 Win St. nio 44223 253-4489 ettek.com			Date Rep Comj Ado	WO#: orted: pany: lress:	23031824 3/28/2023 Chemtech 284 Sheffi Mountains	eld Street side NJ 07(	)92	
Client ID#	Lah ID#	Collected	<b>A</b> nalvte	Result Units	Qual	Matrix	Rece Proj	ived: ect#:	3/23/2023 O2057	POL	Run	Analyst
Chamber-B-72-East	001	3/22/2023	Extractable Organic Halides	ND mg/Kg	U	Solid	EPA 9023	1	11.7	40.0	3/27/2023	KMW



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#### **Accreditation Program Analytes Report**

WO#: 23031824 28-Mar-23

Client: Chemte	ch		State: NY	
Project: O2057			Program Name: DW_WV	W_SCM_Nł
Sample ID	Matrix	Test Name	Analyte	Status
23031824-001A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	А

23031824-001A	

DW_WW_SCM_NE Α Accredited

Key



Chemtech

**Client:** 

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#### **QC SUMMARY REPORT**

WO#: 23031824

28-Mar-23

Project:	O2057							]	BatchID: R	R160624		
Sample ID: Client ID:	: MB-R160624 PBS	SampType: MBLK Batch ID: R160624	TestCod TestN	e: EOX_S(90 o: SW9023	023) Units: mg/Kg		Prep Date Analysis Date	e: e: <b>3/27/2</b>	023	RunNo: 160 SeqNo: 426	)624 58947	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	ND	40.0									U
Sample ID:	LCS-R160624	SampType: LCS	TestCod	e: EOX_S(90	023) Units: mg/Kg		Prep Date	):		RunNo: 160	0624	
Client ID:	LCSS	Batch ID: R160624	Testiv	o: SW9023			Analysis Date	3/2//2	023	Seqino: 426	58948	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	50.8	40.0	50.00	0	102	81	114				
Sample ID:	23031824-001AMS	SampType: <b>MS</b>	TestCod	e: EOX_S(90	123) Units: mg/Kg		Prep Date	e:		RunNo: 160	0624	
Client ID:	Chamber-B-72-East	Batch ID: R160624	TestN	o: SW9023			Analysis Date	e: 3/27/2	023	SeqNo: 426	69860	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	400	40.0	500.0	0	80.0	78	116				
Sample ID:	23031824-001AMSD	SampType: <b>MSD</b>	TestCod	e: EOX_S(90	023) Units: mg/Kg		Prep Date	):		RunNo: 160	0624	
Client ID:	Chamber-B-72-East	Batch ID: R160624	TestN	o: SW9023			Analysis Date	e: 3/27/2	023	SeqNo: 426	69861	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	440	40.0	500.0	0	88.0	78	116	400.0	9.52	20	
Qualifiers:	<ul><li>B Analyte detect</li><li>J Analyte detect</li><li>ND Not Detected</li><li>PL Permit Limit</li></ul>	ed in the associated Method Bla red below quantitation limits	nk	E Value M Manua OG1 R RPD c	above quantitation ran al Integration used to do putside accepted recove	ge etermine ar ry limits	rea response	H MC P RL	Holding times for Value is below Mi Second column co Reporting Detectio	preparation or a nimum Compou nfirmation exce on Limit	naly ınd eds	Original

Page 8 of 11 10 of 15



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: http://www.settek.com

#### **QC SUMMARY REPORT**

WO#: 23031824

28-Mar-23

Client: Project:	Chemtech O2057			BatchID: 1	R160624
Sample ID: 23 Client ID: Cl	3031824-001AMSD hamber-B-72-East	SampType: <b>MSD</b> Batch ID: <b>R160624</b>	TestCode: EOX_S(9023) Units: mg/Kg TestNo: SW9023	Prep Date: Analysis Date: <b>3/27/2023</b>	RunNo: <b>160624</b> SeqNo: <b>4269861</b>
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Sample ID: M	B-R160624	SampType: MBLK	TestCode: EOX_S(9023) Units: mg/Kg	Prep Date:	RunNo: 160624
Client ID: PI	BS	Batch ID: R160624	TestNo: <b>SW9023</b>	Analysis Date: 3/27/2023	SeqNo: <b>4269864</b>
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Extractable Or	rganic Halides	ND	40.0		U

**Qualifiers:** 

В Analyte detected in the associated Method Blank

Analyte detected below quantitation limits J

Not Detected ND

PL Permit Limit

O2057

- Е Value above quantitation range
- М Manual Integration used to determine area response OG1
- R RPD outside accepted recovery limits
  - Page 9 of 11 11 of 15

- Η Holding times for preparation or analy
- MC Value is below Minimum Compound
- Second column confirmation exceeds Р
- RL Reporting Detection Limit

Original

CHEI CHAIN OF C	<b>MIE</b> Custody F	CH		284	Shefi (908)	ield Str 789-89 wwv	eet, Mo 00 • Fa w.chen	ounta ax (90 ntech	insid 8) 78 net	e, NJ 39-89	070 022	92			EMTE OTE N C Nun	CH PR 10. <i>C</i> nber		8930	02058
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CITY MO	v.lle	STATE: N	ZIP: 1747	PROJE		IAGER: S	tephen 1	Kaplor					2 elvi	le			STAT	E:NY	ZIP: 11747
ATTENTION:	Stephen	Kaplan		e-mail:	SK	iplan (	5H2	M . Co	~			ATTENT	ION: S	tylen	Ka	plan	РНО	NE: ( )	756 8000×1613
PHONE: 631	756 8000 ×	1613 FAX:		PHONE	631 79	1 1000 X	1613 =	AX:								ANA	LYSIS		
	DATA TURNAR	OUND INFORMAT	ION	all a	DA	TA DELIVE	ERABLE I	NFORM	ATION		41.12	ul		-					
FAX (RUSH) HARDCOPY (D/ EDD: TO BE APPRO	ATA PACKAGE):		DAYS* DAYS* DAYS*	Leve	l 1 (Resul I 2 (Resul I 3 (Resul aw Data)	Its Only)	Level 4 (Q NJ Reduce NYS ASP Other	C + Full F ed II US A II NY	aw Data S EPA CL S ASP B	LP LY 2	*****	strout 4	/		///		/	[]	
STANDARD	RDCOPY TURN	AROUND TIME IS IN	0 BUSINESS DATS	ur EDD	FORMA		MBLE	1 0				PRESE	RVATIV	/ES				co	OMMENTS
CHEMTECH SAMPLE ID	S/	PROJECT	ATION	SAMPLE MATRIX	TYP			# OF BOTTLE	1	2	3	4	5	6	7	8	9	Speci A-HCI B-HN03 C-H2SO4	ify Preservatives D-NaOH E-ICE F-OTHER
1.	CHAMBER	R 71" E	ust	sluzze		X 3/22/2	3 1330	1a	X										
2.	HUBANDE	N'AXVOLA	Falthan	ten		and		ne	X										
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1. July 1	y SAMPLER:	DATE/TIME: 3/22/23 730	RECEIVED BY:			Cond	itions of bottle ients:5	es or cooler	s at receip Atta	t: a c cheb				D COO	ILA Y	pc	ran	teh 13	°C
RELINQUISHED BY	Y MPLER:	DATE/TIME9:50	2.								·				1.	,			
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3.			3.			Page	eof		CHEMTI	ECH:	D Pick	ked Up	G Field S	Samplin	g			YES	S I NO
2/6/20	O2057		WHITE - CHEMTE	ECH COPY F	OR RETU	RN TO CLIENT	12 of	ONDCHEI	ATECH C	OPY	PINK	- SAMPLER	COPY						

#### Form U Parameters (White Pines)

#### **TCLP Metals**

Arsenic Barium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Zinc Aluminum Iron

#### **TCLP Semi-**Volatiles

O-Cresol M-Cresol P-Cresol 1,4 Dichlorobenzene 2,4 Dinitrotoluene Hexachlorobenzene Hexachloroethane Nitrobenzene Pentachlorphenol 2,4,5 Trichlorophenol 2,4,6 Trichlorophenol

#### **ASTM Leachate**

Ammonia-Nitrogen Chemical Oxygen Demand Oil & Grease Total Petroleum Hydrocarbons

#### **TCLP Volatiles**

Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,2 Dichloroethane 1,1 Dichloroethane 2-Butanone (MEK) Pyridine Tetrachloroethene Trichloroethene Vinyl Chloride Toluene Ethylbenzene Xylene

#### **TCLP Pesticides/Herbicides**

Chlordane Endrin Heptachlor Heptachlor Epoxide Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex

#### **Total Analysis**

pH Free Liquids Ignitability Oil & Grease Total Petroleum Hydrocarbons PCBs Reactive Cyanide Reactive Sulfide Total Organic Halogens Total Solids Total Volatile Solids



CHAIN OF CUSTODY RECORD

#### 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 WWW.CHEMTECH.NET

## 23031824

CLIENT BILLING INFORMATION CLIENT PROJECT INFORMATION Sub Lab INFORMATION BILL TO: CHEMTECH PO#: 02057 02057 COMPANY : Summit Environmental Technologies I ORDER ID : ٠ ; ADDRESS : 284, Sheffield Street PROJECT ID: Siphon ADDRESS : 3310 Win St CITY: Mountainside State : NJ ZIP:07092 PROJECT MANAGER Samantha State : Ohio ZIP :44223 CITY: Cuyahoga Samantha@chemtech.net ATTENTION :Samant E-mail : E-mail: FAX;: (908) 789 8922 PHONE : (908) 789 8900 FAX : (908) 789 8922 PHONE : (908) 789 8900 PHONE :330-253-8211

EDD : EXCEL NOCLEAN Report : Level 1

Comment :

ID	CLIENT	SAMPLE	ANALYSIS	( Preservative	Method	SAMPLE	COLLECTION	# OF	TAT
ID	SAMPLE IDENTIFICATION	MATRIX				DATE	TIME	BOTTLES	DAYS
01	CHAMBER-B-72-EAST	Solid	тох	Cool 4 deg C	9023	03/22/2023	13:30:00	1	10

RELINQUIESHED BY SAMPLER:	DATETIME; 16:00 3/23/23		Conditions of bottles or Coolers at receipt: 4.3+0.1=4.4	Compliant Non Compliant	Cooler Temp
RELINQUIESHED BY:	DATETIME:	RECEIVED BY: 2.	77-14 4586 5460	Feder cody	
RELINQUIESHED BY:	DATETIME:	RECEIVED BY:	Page 1 of 1		Shipment Complete:

Page 10 of 11

O2057



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: <u>http://www.settek.com</u>

#### Sample Log-In Check List

Clie	nt Name:	CHE-NJ-07972	Work Order Number	23031824		RcptNo: 1
Log	ged by:	Christina N. Gemma	3/23/2023 10:15:00 A	Μ	C. Cen	ma
Con	npleted By:	Tegan A. Richards	3/24/2023 4:29:42 PN	1	legan his	hools
Rev	iewed By:	Jennifer Woolf	3/27/2023 1:26:29 PN	1	Jund	pr marcael
Cha	nin of Cus	stody				
1.	Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present
2.	How was th	ne sample delivered?		<u>FedEx</u>		
1.00	ı İn			Tracking No.	.: 771645865460	<u>!</u>
3.	Coolers are	e present?		Yes 🔽	No 🗌	
•						
4.	Shipping co	ontainer/cooler in good con	dition?	Yes 🗹	No 🗌	
	Custody se	eals intact on shipping conta	ainer/cooler?	Yes 🗌	No 🗌	Not Present 🗹
	No.	Seal Da	ite:	Signed By:	_	_
5.	Was an att	empt made to cool the sam	ples?	Yes 🗹	No	
6.	Were all sa	amples received at a tempe	rature of >0° C to 6.0°C	Yes 🔽	No 🗌	
7.	Sample(s)	in proper container(s)?		Yes 🗸	No 🗌	
8.	Sufficient s	ample volume for indicated	l test(s)?	Yes 🖌	No 🗌	
9.	Are sample	es (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌	
10.	Was prese	rvative added to bottles?		Yes	No 🔽	NA 🗌
11	Is the head	Ispace in the VOA vials less	s than 1/4 inch or 6 mm?	Yes	No	No VOA Vials 🗸
12	Were any s	sample containers received	broken?	Yes		
יב. 1२	Does nane	rwork match bottle labels?		Yes 🗸	No 🗌	
10.	(Note discr	epancies on chain of custo	dy)			
14.	Are matrice	es correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗌	
15.	ls it clear w	hat analyses were request	ed?	Yes 🗹	No 🗌	
16.	Were all ho (If no, notify	blding times able to be met? y customer for authorization	? 1.)	Yes 🔽	No 🗌	
<u>Spe</u>	cial Hand	<u>dling (if applicable)</u>				
17.	Was client	notified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗹
	Perso	n Notified:	Date:			
	By WI	hom:	Via:	, eMail I F	Phone 🗌 Fax	In Person
	Regar	rding:			· · · · · · · ·	
	Client	Instructions:				

18. Additional remarks:

#### Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Not Present			



### **DATA PACKAGE**

VOLATILE ORGANICS GENERAL CHEMISTRY METALS GC SEMI-VOLATILES SEMI-VOLATILE ORGANICS

#### **PROJECT NAME : SIPHON**

#### H2M ARCHITECTS + ENGINEERS

290 Broad Hollow Road

Suite 400E

Melville, NY - 11747

Phone No: 631-756-8000

ORDER ID: 01975 ATTENTION: Stephen I. Kaplan



Laboratory Certification ID # 20012



1) Signature Page	3				
2) Case Narrative					
2.1) TCLP VOA Group1- Case Narrative	4				
2.2) TCLP BNA- Case Narrative	6				
2.3) PCB- Case Narrative	8				
2.4) TCLP Pesticide- Case Narrative	10				
2.5) TCLP Herbicide- Case Narrative	12				
2.6) TPH GC- Case Narrative	14				
2.7) Metals-TCLP- Case Narrative	16				
2.8) Genchem- Case Narrative	17				
3) Qualifier Page	19				
4) QA Checklist	21				
5) TCLP VOA Group1 Data	22				
6) TCLP BNA Data	28				
7) PCB Data	37				
8) TCLP Pesticide Data	44				
9) TCLP Herbicide Data	50				
10) TPH GC Data	56				
11) Metals-TCLP Data	60				
12) Genchem Data	65				
13) Shipping Document	76				
13.1) CHAIN OF CUSTODY	77				
13.2) Air Bill	79				
13.3) Lab Certificate	80				



#### **Cover Page**

- **Order ID :** 01975
- Project ID : Siphon

Client : H2M Architects + Engineers

#### Lab Sample Number

O1975-01 O1975-02 O1975-03 O1975-04 O1975-05 O1975-06

#### **Client Sample Number**

CHAMBER-B-72-WEST CHAMBER-B-72-WEST CHAMBER-B-72-WEST CHAMBER-C-72-WEST CHAMBER-C-72-WEST CHAMBER-C-72-WEST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following

signature. Signature :

5. M. Jodhemi

NYDOH CERTIFICATION NO - 11376

APPROVED By Sohil Jodhani, QA/QC Director at 2:30 pm, Apr 04, 2023

NJDEP CERTIFICATION NO - 20012



#### CASE NARRATIVE

21

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O1975 Test Name: TCLP VOA Group1

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP VOA Group1.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of TCLP VOA Group1 was based on method 8260D and TCLP extraction method was 1311.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples.

The RPD for {VN0321WBSD01} with File ID: VN077086.D met criteria except for Vinyl chloride[23%] due to difference in results of BS and BSD.

The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements . The Tuning criteria met requirements.

#### **E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.



Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature____5. M. Jodhemi

APPROVED By Sohil Jodhani, QA/QC Director at 2:30 pm, Apr 04, 2023 2.1

O1975



#### CASE NARRATIVE

22

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O1975 Test Name: TCLP BNA

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP BNA.

#### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM030823.M) for 2,4-Dinitrotoluene, this compound is passing on Linear Regression

The Continuous Calibration met the requirements . The Tuning criteria met requirements.



#### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi

**APPROVED** By Sohil Jodhani, QA/QC Director at 2:30 pm, Apr 04, 2023



#### CASE NARRATIVE

2.3

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O1975 Test Name: PCB

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for PCB.

#### **C. Analytical Techniques:**

The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25  $\mu$ m; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for CHAMBER-C-72-WEST [Tetrachloro-m-xylene(2) - 27%], CHAMBER-C-72-WESTDL [Decachlorobiphenyl(1) - 31%] as per method one surrogate is allowed to fail therefore no corrective action taken.

The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .



Samples CHAMBER-B-72-WEST, CHAMBER-C-72-WEST were diluted due to high concentrations.

#### E. Additional Comments:

The soil samples results are based on a dry weight basis.

#### F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_ 5. M. Jodhemi





#### CASE NARRATIVE

2.4

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O1975 Test Name: TCLP Pesticide

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Pesticide.

#### **C. Analytical Techniques:**

The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017-11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds. The MSD recoveries met the acceptable requirements. The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

#### **E. Additional Comments:**

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

**APPROVED** 

By Sohil Jodhani, QA/QC Director at 2:31 pm, Apr 04, 2023

2.4



#### CASE NARRATIVE

2.5

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # 01975 Test Name: TCLP Herbicide

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Herbicide.

#### **C. Analytical Techniques:**

The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

#### **E. Additional Comments:**

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 2:31 pm, Apr 04, 2023

2.5



#### CASE NARRATIVE

2.6

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # O1975 Test Name: TPH GC

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TPH GC.

#### **C. Analytical Techniques:**

The analysis were performed on instrument FID_F and FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of TPH GC was based on method 8015D and extraction was done based on method 3541.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 10TH-ST-SUBSTATION-TP2MS [TETRACOSANE-d50 - 165%], 10TH-ST-SUBSTATION-TP2MSD [TETRACOSANE-d50 - 165%] due to matrix interference.

The Retention Times were acceptable for all samples.

The MS {O1998-07MS} with File ID: FG011625.D recoveries met the requirements for all compounds except for Petroleum Hydrocarbons[-102%] due to matrix interference.

The MSD {O1998-07MSD} with File ID: FG011626.D recoveries met the acceptable requirements except for Petroleum Hydrocarbons[-153%] due to matrix interference.

The RPD for {O1998-07MSD} with File ID: FG011626.D met criteria except for Petroleum Hydrocarbons[40%] due to difference in results of MS and MSD.



The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .

Sample CHAMBER-C-72-WEST was diluted due to bad matrix.

#### **E. Additional Comments:**

The soil samples results are based on a dry weight basis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 2:31 pm, Apr 04, 2023

2.6



#### **CASE NARRATIVE**

27

H2M Architects + Engineers **Project Name: Siphon** Project # N/A Chemtech Project # 01975 Test Name: TCLP Mercury, TCLPMetals Group1

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for TCLP Mercury, TCLPMetals Group1.

#### **C. Analytical Techniques:**

The analysis of TCLPMetals Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

#### **D. OA/ OC Samples:**

The Holding Times were met for all analysis. The Blank Spike met requirements for all samples. The Duplicate analysis met criteria for all samples. The Matrix Spike analysis met criteria for all samples. The Matrix Spike Duplicate analysis met criteria for all samples. The Blank analysis did not indicate the presence of lab contamination. The Calibration met the requirements. The Serial Dilution met the acceptable requirements.

#### **E. Additional Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_5. M. Jodhemi





2.8

H2M Architects + Engineers Project Name: Siphon Project # N/A Chemtech Project # 01975 Test Name: ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,TVS,ASTM COD,Ignitability,ASTM Oil and Grease,Reactive Cyanide,ASTM TPH,Reactive Sulfide

#### A. Number of Samples and Date of Receipt:

6 Solid samples were received on 03/17/2023.

#### **B.** Parameters:

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TPH, Corrosivity, Ignitability, Oil and Grease, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Pesticide, TCLP VOA Group1, TCLP ZHE Extraction, TCLPMetals Group1, TPH GC, TS and TVS. This data package contains results for ASTM Ammonia,TS,Oil and Grease,Corrosivity,pH,Paint Filter,TVS,ASTM COD,Ignitability,ASTM Oil and Grease,Reactive Cyanide,ASTM TPH,Reactive Sulfide.

#### **C. Analytical Techniques:**

The analysis of Ignitability was based on method 1030, The analysis of TVS was based on method 160.4, The analysis of ASTM TPH was based on method 1664, The analysis of ASTM Oil and Grease,Oil and Grease was based on method 1664A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of Corrosivity,pH was based on method 9045D, The analysis of Paint Filter was based on method 9095B, The analysis of TS was based on method SM2540 B, The analysis of ASTM Ammonia was based on method SM4500-NH3 and The analysis of ASTM COD was based on method SM5220 D.

#### D. QA/ QC Samples:

The Holding Times were met for all samples except for CHAMBER-B-72-WEST of pH, for CHAMBER-B-72-WEST of Corrosivity.for CHAMBER-C-72-WEST of pH.for CHAMBER-C-72-WEST of Corrosivity.

Sample CHAMBER-C-72-WEST was diluted due to high concentrations for ASTM Ammonia.

The Blank Spike met requirements for all samples.

The Duplicate (CHAMBER-B-72-WESTDUP) analysis met criteria for all samples except for ASTM Ammonia.

The Matrix Spike (CHAMBER-B-72-WESTMS) analysis met criteria for all samples except for ASTM COD. The Matrix Spike (CHAMBER-C-72-WESTMS) analysis met criteria for all samples except for Oil and Grease.

## CHEMITECH

The Matrix Spike Duplicate (CHAMBER-B-72-WESTMSD) analysis met criteria for all samples except for ASTM COD. The Matrix Spike Duplicate (CHAMBER-C-72-WESTMSD) analysis met criteria for all samples except for Oil and Grease. The Blank analysis did not indicate the presence of lab contamination. The Calibration met the requirements.

#### **E. Additional Comments:**

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_5. M. Jodhemi

APPROVED

By Sohil Jodhani, QA/QC Director at 2:31 pm, Apr 04, 2023



3

#### DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M OR	Methodqualifiers"P"for ICP instrument"PM"for ICP when Microwave Digestion is used"CV"for Manual Cold Vapor AA"AV"for automated Cold Vapor AA"AV"for automated Cold Vapor AA"CA"for MIDI-Distillation Spectrophotometric"AS"for Semi – Automated Spectrophotometric"C"for Manual Spectrophotometric"T"for Titrimetric"NR"for analyte not required to be analyzedIndicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
Н	Sample Analysis Out Of Hold Time



3

#### DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ul>
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements

#### **APPENDIX A**

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: 01975

For thorough review, the report must have the following: **GENERAL:** Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) ✓
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<p Check chain-of-custody for proper relinquish/return of samples Is the chain of custody signed and complete Check internal chain-of-custody for proper relinquish/return of samples /sample extracts Collect information for each project id from server. Were all requirements followed **COVER PAGE:** Do numbers of samples correspond to the number of samples in the Chain of Custody on login page Do lab numbers and client Ids on cover page agree with the Chain of Custody **CHAIN OF CUSTODY:** ✓ ✓ ✓ ✓ ✓ ✓ Do requested analyses on Chain of Custody agree with form I results Do requested analyses on Chain of Custody agree with the log-in page Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody Were the samples received within hold time Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle **ANALYTICAL:** ✓ ✓ ✓ ✓ ✓ ✓ Was method requirement followed? Was client requirement followed? Does the case narrative summarize all QC failure? All runlogs and manual integration are reviewed for requirements All manual calculations and /or hand notations verified

1st Level QA Review Signature:	MOHAMMAD AHMED	Date: 04/04/2023
2nd Level QA Review Signature:	5. M. Jodhemi	APPROVED By Sohil Jodhani, QA/QC Director at 2:32 pm, Apr 04, 2023

O1975

21 of 80

Completed



#### Hit Summary Sheet SW-846

 SDG No.:
 O1975

 Client:
 H2M Architects + Engineers

Sample ID	Client ID	Matrix	Parameter	Concentrat	tion (		MDL	ŀ	RDL	Units
Client ID:	CHAMBER-B-72-V	VEST								
O1975-02	CHAMBER-B-72-V	TCLP	2-Butanone	11.3		J	1.20		25.0	ug/L
O1975-02	CHAMBER-B-72-V	TCLP	Toluene	170	1	Е	0.14		5.00	ug/L
O1975-02	CHAMBER-B-72-V	TCLP	Chlorobenzene	1.60		J	0.12		5.00	ug/L
			Total Voc :		183					
			<b>Total Concentration:</b>		183					
Client ID:	CHAMBER-B-72-V	VESTDL								
O1975-02DL	CHAMBER-B-72-V	TCLP	Toluene	160	]	D	0.56		20.0	ug/L
			Total Voc :		160					
			<b>Total Concentration:</b>		160					
Client ID:	CHAMBER-C-72-V	VEST								
O1975-05	CHAMBER-C-72-V	TCLP	Toluene	1.20		J	0.14		5.00	ug/L
O1975-05	CHAMBER-C-72-V	TCLP	Chlorobenzene	1.10		J	0.12		5.00	ug/L
O1975-05	CHAMBER-C-72-V	TCLP	Ethyl Benzene	4.50		J	0.13		5.00	ug/L
O1975-05	CHAMBER-C-72-V	TCLP	Total Xylenes	21.7			0.46		15.0	ug/L
			Total Voc :		28.5					
			<b>Total Concentration:</b>		28.5					

В

C D



5

# <u>SAMPLE</u> <u>DATA</u>

## CHEMITECH

		Report o	f Analysi	8		
Client:	H2M Architects + Eng	gineers		Date Collected:	03/16/23	
Project:	Siphon			Date Received:	03/17/23	
Client Sample ID:	CHAMBER-B-72-WI	EST		SDG No.:	01975	
Lab Sample ID [.]	01975-02			Matrix:	TCLP	
Analytical Mathed	SW92(0			0/ 0-1:4	0	
Analytical Method	SW8200			% Sond:	0	
Sample Wt/Vol:	5 Units:	mL		Final Vol:	5000	uL
Soil Aliquot Vol:	1	uL		Test:	TCLP VOA	Group1
GC Column:	RXI-624 ID	: 0.25		Level :	LOW	
Prep Method :	SW5035					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN077091.D	1			03/21/23 15:29	VN032123	
AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
ARGETS						
75-01-4	Vinyl Chloride	0.25	U	0.25	5.00	ug/L
/5-35-4	1,1-Dichloroethene	0.21	U	0.21	5.00	ug/L
78-93-3	2-Butanone	11.3	J	1.20	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.13	U	0.13	5.00	ug/L
57-66-3	Chloroform	0.14	U	0.14	5.00	ug/L
71-43-2	Benzene	0.12	U	0.12	5.00	ug/L
07-06-2	1,2-Dichloroethane	0.16	U	0.16	5.00	ug/L
/9-01-6	Trichloroethene	0.26	U	0.26	5.00	ug/L
08-88-3	Toluene	170	Е	0.14	5.00	ug/L
27-18-4	Tetrachloroethene	0.17	U	0.17	5.00	ug/L
08-90-7	Chlorobenzene	1.60	J	0.12	5.00	ug/L
00-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
330-20-7	Total Xylenes	0.46	U	0.46	15.0	ug/L
URROGATES						
7060-07-0	1,2-Dichloroethane-d4	49.1		74 - 125	98%	SPK: 50
868-53-7	Dibromofluoromethane	44.7		75 - 124	89%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
60-00-4	4-Bromofluorobenzene	46.4		64 - 133	93%	SPK: 50
NTERNAL STAND	ARDS	20/000	0.001			
65-72-4	Pentafluorobenzene	386000	8.231			
40-36-3	1,4-Difluorobenzene	718000	9.107			
114-55-4	Chlorobenzene-d5	660000	11.872			
3855-82-1	1,4-Dichlorobenzene-d4	252000	13.795			

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## CHEMITECH

		Report o	f Analysis	8		
Client:	H2M Architects + En	gineers		Date Collected:	03/16/23	
Project:	Siphon			Date Received:	03/17/23	
Client Sample ID:	CHAMBER-B-72-W	ESTDL		SDG No.:	O1975	
Lab Sample ID:	O1975-02DL			Matrix:	TCLP	
Analytical Mathad	SW/9260			0/ Salid	0	
Anarytical Method.	SW 8200			⁷ 0 Solid.	0	
Sample Wt/Vol:	5 Units:	mL		Final Vol:	5000	uL
Soil Aliquot Vol:		uL		Test:	TCLP VOA	Group1
GC Column:	RXI-624 ID	: 0.25		Level :	LOW	
Prep Method :	SW5035					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN077103.D	4			03/22/23 13:17	VN032223	
AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>ARGETS</b>						
75-01-4	Vinyl Chloride	1.00	UD	1.00	20.0	ug/L
75-35-4	1,1-Dichloroethene	0.84	UD	0.84	20.0	ug/L
78-93-3	2-Butanone	4.80	UD	4.80	100	ug/L
56-23-5	Carbon Tetrachloride	0.52	UD	0.52	20.0	ug/L
67-66-3	Chloroform	0.56	UD	0.56	20.0	ug/L
71-43-2	Benzene	0.48	UD	0.48	20.0	ug/L
107-06-2	1,2-Dichloroethane	0.64	UD	0.64	20.0	ug/L
79-01-6	Trichloroethene	1.00	UD	1.00	20.0	ug/L
108-88-3	Toluene	160	D	0.56	20.0	ug/L
127-18-4	Tetrachloroethene	0.68	UD	0.68	20.0	ug/L
108-90-7	Chlorobenzene	0.48	UD	0.48	20.0	ug/L
100-41-4	Ethyl Benzene	0.52	UD	0.52	20.0	ug/L
1330-20-7	Total Xylenes	1.80	UD	1.80	60.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		74 - 125	98%	SPK: 50
868-53-7	Dibromofluoromethane	46.3		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	48.8		86 - 113	98%	SPK: 50
160-00-4	4-Bromofluorobenzene	44.0		64 - 133	88%	SPK: 50
NTERNAL STANDA	ARDS	20000	0 0 1			
505-72-4	rentatiuorobenzene	366000	8.231			
)40-36-3	1,4-Diffuorobenzene	65/000	9.107			
5114-55-4	Chiorobenzene-d5	573000	11.872			
3855-82-1	1,4-Dichlorobenzene-d4	214000	13.795			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Q = indicates LCS control criteria did not meet requirements
### CHEMITECH

Client:	H2M Architects +	Engineers			Date Collected:	03/16/23	
Project:	Siphon				Date Received:	03/17/23	
Client Sample ID:	CHAMBER-C-72-	WEST			SDG No.:	01975	
Lab Sample ID [.]	01975-05				Matrix [.]	TCLP	
Analytical Mathad	SW/9260				0/ Salid	0	
Analytical Method	Sw8200				% Solid:	0	
Sample Wt/Vol:	5 Units:	mL			Final Vol:	5000	uL
Soil Aliquot Vol:		uL			Test:	TCLP VOA	Group1
GC Column:	RXI-624	ID : 0.25	i		Level :	LOW	
Prep Method ·	SW5035						
Trop mounda .	5						
File ID/Qc Batch:	Dilution:		Prep Date		Date Analyzed	Prep Batch ID	
VN077092.D	1				03/21/23 15:53	VN032123	
CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride		0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene		0.21	U	0.21	5.00	ug/L
78-93-3	2-Butanone		1.20	U	1.20	25.0	ug/L
56-23-5	Carbon Tetrachloride		0.13	U	0.13	5.00	ug/L
67-66-3	Chloroform		0.14	U	0.14	5.00	ug/L
71-43-2	Benzene		0.12	U	0.12	5.00	ug/L
107-06-2	1,2-Dichloroethane		0.16	U	0.16	5.00	ug/L
79-01-6	Trichloroethene		0.26	U	0.26	5.00	ug/L
108-88-3	Toluene		1.20	J	0.14	5.00	ug/L
127-18-4	Tetrachloroethene		0.17	U	0.17	5.00	ug/L
108-90-7	Chlorobenzene		1.10	J	0.12	5.00	ug/L
100-41-4	Ethyl Benzene		4.50	J	0.13	5.00	ug/L
1330-20-7	Total Xylenes		21.7		0.46	15.0	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4		50.5		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane		45.7		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8		49.9		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene		47.2		64 - 133	94%	SPK: 50
NTERNAL STAND	ARDS						
363-72-4	Pentafluorobenzene		412000	8.231			
540-36-3	1,4-Difluorobenzene		781000	9.107			
3114-55-4	Chlorobenzene-d5		704000	11.872			
3855-82-1	1,4-Dichlorobenzene-d4		274000	13.795			

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#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-02	CHAMBER-B-72-WEST	TCLP		82600	03/16/23		03/21/23	03/17/23
01975-02D	L CHAMBER-B-72-WEST	TCLP		02000	03/16/23		03/21/23	03/17/23
			TCLP VOA Group1	8260D			03/22/23	
01975-05	CHAMBER-C-72-WEST	TCLP	TCLP VOA Group1	8260D	03/16/23		03/21/23	03/17/23

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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

#### Hit Summary Sheet SW-846

**SDG No.:** 01975

Client:	H2M Architects +	H2M Architects + Engineers								
Sample ID Client ID :	Client ID CHAMBER-B-72-	Matrix WEST	Parameter	Concentration	С	MDL	RDL	Units		
O1975-02	CHAMBER-B-72	-WEST TCLP	3+4-Methylphenols	130.000		21.6	100	ug/L		
			<b>Total Svoc :</b>		130.	00				
			<b>Total Concentration:</b>		130	.00				

A B

6

B C D



## <u>SAMPLE</u> <u>DATA</u>



Client:		H2M Arch	nitects + E	Ingineer	S			Date Collected:		03/16/23	
Project:		Siphon						Date Received:		03/17/23	
Client Sample ID	<b>)</b> :	CHAMBE	ER-B-72-V	VEST				SDG No.:		O1975	
Lab Sample ID:		01975-02						Matrix:		TCLP	
Analytical Metho	od:	SW8270						% Solid:		0	
Sample Wt/Vol:		100	Units:	mL				Final Vol:		1000	uL
Soil Aliquot Vol:				uL				Test:		TCLP BN	A
Extraction Type	:				Decant	ed: N		Level :		LOW	
Injection Volume	. ·			GI	PC Factor ·	10		GPC Cleanup	N		рн ·
Pren Method :		SW3541		01	e ruetor .			Gre creanup.			
Ttep Method .		5 1 5 5 5 5 4 1									
File ID/Qc Batch:	1	Dilution:			Prep Date		Date A	nalyzed	Pre	ep Batch II	)
BM039117.D	1	1			03/18/23 10	:44	03/23/	23 14:52	PB	151516	
CAS Number	Parameter	r			Conc.	Qualifier	MDL		LOQ	/ CRQL	Units
TADCETS											
110-86-1	Pvridine				17.8	U	17.8		50.	0	ug/L
106-46-7	1,4-Dichle	orobenzen	e		14.3	U	14.3		50.	0	ug/L
95-48-7	2-Methylp	ohenol			20.6	U	20.6		50.	0	ug/L
65794-96-9	3+4-Meth	ylphenols			130		21.6		100	)	ug/L
67-72-1	Hexachlo	roethane			16.4	U	16.4		50.	0	ug/L
98-95-3	Nitrobenz	ene			17.2	U	17.2		50.	0	ug/L
87-68-3	Hexachlor	robutadien	e		19.3	U	19.3		50.	0	ug/L
88-06-2	2,4,6-Tric	hlorophen	ol		15.2	U	15.2		50.	0	ug/L
95-95-4	2,4,5-Tric	hlorophen	ol		15.7	U	15.7		50.	0	ug/L
121-14-2	2,4-Dinitr	otoluene			25.4	U	25.4		50.	0	ug/L
118-74-1	Hexachlo	robenzene			19.1	U	19.1		50.	0	ug/L
87-86-5	Pentachlo	rophenol			25.5	U	25.5		100	)	ug/L
SURROGATES											
367-12-4	2-Fluorop	henol			134		10 - 139		89%	/o	SPK: 150
13127-88-3	Phenol-de	5			121		10 - 134		81%	/o	SPK: 150
4165-60-0	Nitrobenz	ene-d5			91.3		49 - 133		91%	6	SPK: 100
321-60-8	2-Fluorob	iphenyl			89.4		52 - 132		89%	6	SPK: 100
118-79-6	2,4,6-Trib	romophen	ol		164		45 - 141		109	<i>}%</i>	SPK: 150
1718-51-0	Terphenyl	-d14			93.0		45 - 142		93%	6	SPK: 100
INTERNAL STAN	DARDS										
3855-82-1	1,4-Dichle	orobenzen	e-d4		252000	7.963					
1146-65-2	Naphthale	ene-d8			978000	10.775					
15067-26-2	Acenapht	hene-d10			558000	14.604					
1517-22-2	Phenanthr	ene-d10			1180000	17.345					
1719-03-5	Chrysene-	-d12			1100000	21.527					
1520-96-3	Perylene-	d12			1240000	23.962					

6

B C D



С

#### **Report of Analysis**

5.			-				<b>Z</b>			20 2		2
CA	AS Number	Paramete	r			Conc.	Oualifier	MDL		LOO	/ CROL	Units
F	3M039117.D		1			03/18/23 10	):44	03/23/2	23 14:52	PI	3151516	
F	File ID/Qc Batch:		Dilution:			Prep Date		Date A	nalyzed	Pr	ep Batch ID	
	Prep Method :		SW3541									
	Injection Volume	:			Gl	PC Factor :	1.0		GPC Cleanup :	Ν	PH :	
	Extraction Type :					Decan	ted : N		Level :		LOW	
	Soil Aliquot Vol:				uL				Test:		TCLP BNA	
	Sample Wt/Vol:		100	Units:	mL				Final Vol:		1000	uL
	Analytical Metho	d:	SW8270						% Solid:		0	
	Lab Sample ID:		O1975-02						Matrix:		TCLP	
	Client Sample ID	:	CHAMBE	R-B-72-W	VEST				SDG No.:		O1975	
	Project:		Siphon						Date Received:		03/17/23	
	Client:		H2M Arch	itects + Ei	ngineei	rs			Date Collected:		03/16/23	

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Client:	H2M Arch	nitects + E	Ingineers				Date Collected:		03/16/23		
Project:	Siphon						Date Received:		03/17/23		
Client Sample II	D: CHAMBE	ER-C-72-V	WEST				SDG No.:		01975		
Lab Sample ID:	O1975-05						Matrix:		TCLP		
Analytical Metho	od: SW8270						% Solid:		0		
Sample Wt/Vol:	100	Units:	mL				Final Vol:		1000	uL	
Soil Aliquot Vol:			uL				Test:		TCLP BN	JA	
Extraction Type	:			Decan	ted : N		Level :		LOW		
Injection Volume	· ·		GPC	Factor ·	1.0		GPC Cleanup ·	N		РН ·	
Pren Method :	SW3541		Gre	i deter :			Si e ciculiup :				
Trep Wethod .	5 1 55 1										
File ID/Qc Batch:	Dilution:		Pr	ep Date		Date A	analyzed	Pre	p Batch II	D	
BP014309.D	1		03	3/18/23 10	):44	03/25/	23 02:57	PB	151516		
CAS Number	Parameter		C	onc.	Qualifier	MDL		LOQ	CRQL	Uni	ts
TADCETS											
110-86-1	Pvridine			178	U	17.8		50	0	ug/L	
106-46-7	1.4-Dichlorobenzen	e		14.3	Ū	14.3		50.0	0	ug/L	
95-48-7	2-Methylphenol		,	20.6	U	20.6		50.0	0	ug/L	
65794-96-9	3+4-Methylphenols			21.6	U	21.6		100	)	ug/L	
67-72-1	Hexachloroethane			16.4	U	16.4		50.	0	ug/L	
98-95-3	Nitrobenzene			17.2	U	17.2		50.0	0	ug/L	
87-68-3	Hexachlorobutadien	e		19.3	U	19.3		50.	0	ug/L	
88-06-2	2,4,6-Trichlorophen	ol		15.2	U	15.2		50.0	0	ug/L	
95-95-4	2,4,5-Trichlorophen	ol		15.7	U	15.7		50.	0	ug/L	
121-14-2	2,4-Dinitrotoluene			25.4	U	25.4		50.	0	ug/L	
118-74-1	Hexachlorobenzene			19.1	U	19.1		50.	0	ug/L	
87-86-5	Pentachlorophenol		2	25.5	U	25.5		100	1	ug/L	
SURROGATES											
367-12-4	2-Fluorophenol			140		10 - 139		93%	6	SPK: 1	50
13127-88-3	Phenol-d6			131		10 - 134		88%	6	SPK: 1	50
4165-60-0	Nitrobenzene-d5			102		49 - 133		102	.%	SPK: 1	00
321-60-8	2-Fluorobiphenyl			90.5		52 - 132		91%	0	SPK: 1	00
118-79-6	2,4,6-Tribromophen	ol		142		45 - 141		94%	6	SPK: 1	50
1718-51-0	Terphenyl-d14			101		45 - 142		101	%	SPK: 1	00
INTERNAL STAN	DARDS										
3855-82-1	1,4-Dichlorobenzen	e-d4		178000	8.028						
1146-65-2	Naphthalene-d8		(	680000	10.852						
15067-26-2	Acenaphthene-d10		4	447000	14.675						
1517-22-2	Phenanthrene-d10			990000	17.434						
1719-03-5	Chrysene-d12		:	821000	21.51						
1520-96-3	Perylene-d12		,	754000	24.033						

6

B C D



× 1		

Client:	H2M Arch	itects + Er	ngineers		Ľ	Date Collected:	(	03/16/23	
Project:	Siphon				Γ	Date Received:	(	03/17/23	
Client Sample ID:	CHAMBE	R-C-72-W	/EST		S	DG No.:	(	01975	
Lab Sample ID:	01975-05				Ν	fatrix:	]	TCLP	
Analytical Metho	d: SW8270				9⁄	6 Solid:	(	)	
Sample Wt/Vol:	100	Units:	mL		F	inal Vol:	1	1000	uL
Soil Aliquot Vol:			uL		Т	est:	]	TCLP BNA	
Extraction Type :			Decar	nted : N	L	evel :	I	LOW	
Injection Volume			GPC Factor :	1.0	C	PC Cleanup :	Ν	PH :	
Prep Method :	SW3541								
File ID/Qc Batch:	Dilution:		Prep Date		Date Anal	lyzed	Prep	Batch ID	
BP014309.D	1		03/18/23 1	0:44	03/25/23	02:57	PB1	51516	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ /	CRQL	Units

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
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A B C D

6



Client:	H2M Architec	ts + Engin	eers			Date Collected:	03/18/23	
Project:	Siphon					Date Received:	03/18/23	
Client Sample ID	D: PB151496TB					SDG No.:	O1975	
Lab Sample ID:	PB151496TB					Matrix:	TCLP	
Analytical Metho	od: SW8270					% Solid:	0	
Sampla Wt/Val:	100 U	nita: mI				Final Val:	1000	ш
	100 01	ints. iiii	-			Filial VOI.	1000	uL
Soil Aliquot Vol:		uL				Test:	TCLP BN	A
Extraction Type :	:		Decant	ted : N		Level :	LOW	
Injection Volume	:		GPC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541							
File ID/Qc Batch:	Dilution:		Prep Date		Date A	nalyzed	Prep Batch II	)
BM039066.D	1		03/18/23 10	:44	03/21/	23 13:10	PB151516	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CRQL	Units
TARGETS	Duridina		17.9	ΤI	17 0		50.0	ug/I
106 46 7	1 4 Diablarabanzana		17.0	U	1/.0		50.0	ug/L
100-40-7	2 Methylphenol		14.5	U	14.5 20.6		50.0	ug/L
95-40-7 65704 06 0	2-Methylphenols		20.0	U	20.0		100	ug/L
67 72 1	Heyachloroethane		21.0 16.4	U	21.0 16.4		100 50.0	ug/L
07-72-1	Nitrobenzene		10.4	U	10.4		50.0	ug/L
90-95-5 87 68 3	Hevachlorobutadiene		17.2	U	103		50.0	ug/L
88.06.2	2.4.6 Trichlorophenol		19.5	U	15.2		50.0	ug/L
95 95 <i>A</i>	2,4,0-Trichlorophenol		15.2	U	15.2		50.0	ug/L
121_14_2	2,4,5-memorophenor		25.4	U	25.4		50.0	ug/L ug/I
121-14-2	Hexachlorobenzene		19.1	U	20. <del>4</del> 10.1		50.0	ug/L
87-86-5	Pentachlorophenol		25.5	U	25.5		100	ug/L ug/L
	1 ••		20.0	C	20.0		100	4. _D , 2
SURROGATES	2-Eluorophenol		143		10 - 139		95%	SPK · 150
13127-88-3	Phenol-d6		136		10 - 137		91%	SPK: 150
4165-60-0	Nitrobenzene-d5		87.1		49 - 133		87%	SPK: 100
321-60-8	2-Eluorobinhenvl		85.2		52 - 132		85%	SPK: 100
118-79-6	2 4 6-Tribromonhenol		124		45 - 141		83%	SPK: 150
1718-51-0	Terphenyl-d14		95.3		45 - 142		95%	SPK: 100
	DADDE				-			
3855-82-1	1 4-Dichlorobenzene-d/	1	357000	7 969				
1146-65-2	Nanhthalene_d8		1390000	10 78				
15067_26_2	Acenanhthene_d10		752000	14.61				
1517_22_2	Phenanthrene_d10		130000	17 351				
1719-03-5	Chrysene_d12		1080000	21 527				
1520-96-3	Pervlene-d12		1190000	23.962				

6

C D



### 6

B C D

Client:	H2M Architect	s + Engineers		Date Collecte	d: 03/18/23	
Project:	Siphon			Date Receive	d: 03/18/23	
Client Sample ID:	PB151496TB			SDG No.:	O1975	
Lab Sample ID:	PB151496TB			Matrix:	TCLP	
Analytical Method	: SW8270			% Solid:	0	
Sample Wt/Vol:	100 Un	ts: mL		Final Vol:	1000	uL
Soil Aliquot Vol:		uL		Test:	TCLP BNA	
Extraction Type :		Decar	nted : N	Level :	LOW	
Injection Volume :		GPC Factor :	1.0	GPC Cleanup	: N PI	H:
Prep Method :	SW3541					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
BM039066.D	1	03/18/23 1	0:44	03/21/23 13:10	PB151516	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:20 Siphon Select,J11	D:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-02	CHAMBER-B-72-WEST	TCLP	TCLP BNA	8270F	03/16/23	03/18/23	03/23/23	03/17/23
01975-05	CHAMBER-C-72-WEST	TCLP	TCLP BNA	8270E	03/16/23	03/18/23	03/25/23	03/17/23

A B C D

6



A B C D

Hit Summary Sheet	
SW-846	

SDG No.: Client:	O1975 H2M Architects + Engineers		Order ID: 01975 Project ID: Siphon	
Sample ID	Client ID Matrix	Parameter	Concentration C MDL	RDL Units
Client ID :	CHAMBER-B-72-WEST			
O1975-01	CHAMBER-B-72-WE SOIL	Aroclor-1260	2100 E 6.80	34.4 ug/kg
		<b>Total Concentration:</b>	2,100.000	
Client ID :	CHAMBER-B-72-WESTDL			
01975-01DL	CHAMBER-B-72-WE SOIL	Aroclor-1260	2200 D 33.8	172 ug/kg
		<b>Total Concentration:</b>	2,200.000	
Client ID :	CHAMBER-C-72-WEST			
O1975-04	CHAMBER-C-72-WE SOIL	Aroclor-1260	1500 E 5.80	29.3 ug/kg
		<b>Total Concentration:</b>	1,500.000	
Client ID :	CHAMBER-C-72-WESTDL			
01975-04DL	CHAMBER-C-72-WE SOIL	Aroclor-1260	1600 DP 28.8	147 ug/kg
		<b>Total Concentration:</b>	1,600.000	





# <u>SAMPLE</u> <u>DATA</u>



C D

### **Report of Analysis**

	Client:	H	I2M Arch	nitects + 1	Engineers			Date Collected:	03/16/23	
	Project:	S	Siphon					Date Received:	03/17/23	
	Client Sample ID:	C	CHAMBE	R-B-72-	WEST			SDG No.:	O1975	
	Lab Sample ID:	C	01975-01					Matrix:	SOIL	
	Analytical Method:	s s	SW8082A					% Solid:	49.3 De	canted:
	Sample Wt/Vol:	3	0.07	Units:	g			Final Vol:	10000	uL
	Soil Aliquot Vol:	5	0.07	e into:	5 11			Test:	PCB	
					uL			Listin Vil	TCD	
	Extraction Type:							Injection Volume :		
	GPC Factor :	1	.0		PH :					
	Prep Method :	S	W3541B							
	File ID/Qc Batch:	E	Dilution:		Prep Date			Date Analyzed	Prep Batc	h ID
	PO093323.D	1			03/18/23 08:14			03/19/23 12:45	PB15151	0
CA	S Number	Parameter			Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight
т										
1	arge18 2674-11-2	Aroclor-1	016		7.20	U	7.20		34.4	ug/kg
1	1104-28-2	Aroclor-1	221		11.9	U	11.9		34.4	ug/kg
1	1141-16-5	Aroclor-1	232		9.10	U	9.10		34.4	ug/kg
5	3469-21-9	Aroclor-1	242		6.30	U	6.30		34.4	ug/kg
1	2672-29-6	Aroclor-1	248		5.70	U	5.70		34.4	ug/kg
1	1097-69-1	Aroclor-1	254		7.60	U	7.60		34.4	ug/kg
3	7324-23-5	Aroclor-1	262		5.50	U	5.50		34.4	ug/kg
1	1100-14-4	Aroclor-1	268		6.70	U	6.70		34.4	ug/kg
1	1096-82-5	Aroclor-1	260		2100	Е	6.80		34.4	ug/kg
S	URROGATES									
8	77-09-8	Tetrachlor	ro-m-xyl	ene	11.5		40 - 162		58%	SPK: 20
2	051-24-3	Decachlor	robiphen	yl	7.97		32 - 176		40%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit

O1975

M = MS/MSD acceptance criteria did not meet requirements



C D

#### **Report of Analysis**

	Client:		H2M Arc	hitects + 1	Engineers			Date Collected:	03/16/23		
	Project:		Siphon					Date Received:	03/17/23		
	Client Sample ID:		CHAMB	ER-B-72-	WESTDL			SDG No.:	O1975		
	Lab Sample ID:		01975-01	1DL				Matrix:	SOIL		
	Analytical Method	:	SW8082A	A				% Solid:	49.3	Decant	ted:
	Sample Wt/Vol:		30.07	Units:	g			Final Vol:	10000	uL	
	Soil Aliquot Vol				uL			Test:	PCB		
	Extraction Type:							Injection Volume	100		
	CDC Easter :		1.0		DII.			injection volume .			
	GPC Factor :		1.0		PH :						
	Prep Method :		SW3541E	В							
	File ID/Qc Batch:	ID/Qc Batch: Dilution:			Prep	Date		Date Analyzed	Prep B	atch IE	)
	PO093351.D		5		03/18/23 08:14			03/20/23 10:50	PB151510		
C.	AS Number	Paramet	er		Conc.	Qualifier	MDL		LOQ / CRO	QL U	Inits(Dry Weight
C	AS Number	Paramet	er		Conc.	Qualifier	MDL		LOQ / CRO	QL U	Units(Dry Weight
C.	AS Number TARGETS 12674-11-2	Paramet	er -1016		<b>Conc.</b> 36.2	Qualifier UD	MDL 36.2		LOQ / CRO	2L U 2	ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2	Paramet Aroclor Aroclor	er -1016 -1221		Conc. 36.2 59.4	Qualifier UD UD	MDL 36.2 59.4		LOQ / CRO 17 17	<u>QL U</u> 2 2	ug/kg ug/kg
C	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5	Paramet Aroclor Aroclor Aroclor	-1016 -1221 -1232		Conc. 36.2 59.4 45.7	Qualifier UD UD UD	MDL 36.2 59.4 45.7		LOQ / CRO 17 17 17	2 2 2 2	ug/kg ug/kg ug/kg ug/kg
C	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9	Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242		Conc. 36.2 59.4 45.7 31.7	Qualifier UD UD UD UD UD	MDL 36.2 59.4 45.7 31.7		LOQ / CRO 17 17 17 17 17	2 U 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6	Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248		Conc. 36.2 59.4 45.7 31.7 28.5	Qualifier UD UD UD UD UD UD	MDL 36.2 59.4 45.7 31.7 28.5		LOQ / CRO 17 17 17 17 17 17	2 U 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254		Conc. 36.2 59.4 45.7 31.7 28.5 38.0	Qualifier UD UD UD UD UD UD UD	MDL 36.2 59.4 45.7 31.7 28.5 38.0		LOQ / CRO 17 17 17 17 17 17 17	2 U 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254 -1262		Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5	Qualifier UD UD UD UD UD UD UD UD	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5		LOQ / CRO 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254 -1254 -1262 -1268		Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4	Qualifier UD UD UD UD UD UD UD UD UD	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4		LOQ / CRO 17 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260		Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 2200	Qualifier UD UD UD UD UD UD UD UD UD UD UD D	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 33.8		LOQ / CRO 17 17 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260		Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 2200	Qualifier UD UD UD UD UD UD UD UD UD UD D	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 33.8		LOQ / CRO 17 17 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor	-1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260 loro-m-xy	rlene	Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 2200 12.4	Qualifier UD UD UD UD UD UD UD UD UD UD D	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 33.8 40 - 162		LOQ / CRO 17 17 17 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8 2051-24-3	Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Aroclor Tetrachi	-1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260 loro-m-xy lorobipher	rlene nyl	Conc. 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 2200 12.4 8.15	Qualifier UD UD UD UD UD UD UD UD UD D	MDL 36.2 59.4 45.7 31.7 28.5 38.0 27.5 33.4 33.8 40 - 162 32 - 176		LOQ / CRO 17 17 17 17 17 17 17 17 17 17 17 17 17	<b>QL U</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg

Comments:

U = Not Detected J = Estimated Value LOQ = Limit of Quantitation B = Analyte Found in Associated Method Blank MDL = Method Detection Limit N = Presumptive Evidence of a Compound LOD = Limit of Detection * = Values outside of QC limits E = Value Exceeds Calibration Range D = Dilution P = Indicates > 25% difference for detected S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample. concentrations between the two GC columns Q = indicates LCS control criteria did not meet requirements () = Laboratory InHouse Limit M = MS/MSD acceptance criteria did not meet requirements

O1975



C D

#### **Report of Analysis**

Client:		H2M Arch	itects + E	Engineers			Date Collected:	03/16/23	
Project:	:	Siphon					Date Received:	03/17/23	
Client S	Sample ID:	CHAMBE	R-C-72-V	WEST			SDG No.:	O1975	
Lab Sar	mple ID:	O1975-04					Matrix:	SOIL	
Analyti	cal Method:	SW8082A					% Solid:	57.8 De	canted:
Sample	wt/Vol:	30.08	Units:	g			Final Vol:	10000	uL
Soil Ali	iquot Vol:	20.00	enno.	5 11			Test:	PCB	
5011 All				uL			Test.	TCB	
Extracti	ion Type:						Injection Volume :		
GPC Fa	actor :	1.0		PH :					
Prep M	ethod :	SW3541B							
File ID/	/Qc Batch:	Dilution:		Prep Date			Date Analyzed	Prep Bate	h ID
PO0933	324.D	1		03/18/23 08:14			03/19/23 13:02	PB151510	)
CAS Num	ber Pai	rameter		Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight
TADOE	FC								
12674-1	15 1-2 Ar	oclor-1016		6 20	U	6 20		293	ug/kg
11104-2	8-2 Ar	oclor-1221		10.1	U	10.1			ug/leg
11141 1				10.1	U	10.1		29.3	U2/K2
11141-1	6-5 Ar	oclor-1232		7.80	U U	10.1 7.80		29.3 29.3	ug/kg ug/kg
53469-2	6-5 Ar 21-9 Ar	oclor-1232 oclor-1242		7.80 5.40	U U U	10.1 7.80 5.40		29.3 29.3 29.3	ug/kg ug/kg ug/kg
53469-2 12672-2	6-5 Ar 21-9 Ar 29-6 Ar	oclor-1232 oclor-1242 oclor-1248		7.80 5.40 4.90	U U U U	10.1 7.80 5.40 4.90		29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg
11141-10 53469-2 12672-2 11097-6	6-5 Ar 21-9 Ar 29-6 Ar 39-1 Ar	oclor-1221 oclor-1232 oclor-1242 oclor-1248 oclor-1254		7.80 5.40 4.90 6.50	U U U U U	10.1 7.80 5.40 4.90 6.50		29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg
11141-1 53469-2 12672-2 11097-6 37324-2	6-5 Ar 21-9 Ar 29-6 Ar 29-1 Ar 23-5 Ar	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262		7.80 5.40 4.90 6.50 4.70	U U U U U	10.1 7.80 5.40 4.90 6.50 4.70		29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11141-10 53469-2 12672-2 11097-6 37324-2 11100-14	6-5 Ar 21-9 Ar 29-6 Ar 39-1 Ar 23-5 Ar 4-4 Ar	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262 oclor-1268		10.1 7.80 5.40 4.90 6.50 4.70 5.70	U U U U U U	10.1 7.80 5.40 4.90 6.50 4.70 5.70		29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11141-14 53469-2 12672-2 11097-6 37324-2 11100-14 11096-8	6-5     Ar       21-9     Ar       29-6     Ar       39-1     Ar       23-5     Ar       4-4     Ar       22-5     Ar	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262 oclor-1268 oclor-1260		10.1 7.80 5.40 4.90 6.50 4.70 5.70 1500	U U U U U U E	10.1 7.80 5.40 4.90 6.50 4.70 5.70 5.80		29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11141-14 53469-2 12672-2 11097-6 37324-2 11100-14 11096-8 SURROO	6-5 Ar 21-9 Ar 29-6 Ar 29-1 Ar 23-5 Ar 4-4 Ar 22-5 Ar GATES	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262 oclor-1268 oclor-1260		10.1 7.80 5.40 4.90 6.50 4.70 5.70 1500	U U U U U U E	10.1 7.80 5.40 4.90 6.50 4.70 5.70 5.80		29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11141-14 53469-2 12672-2 11097-6 37324-2 11100-14 11096-8 SURROG 877-09-8	6-5     Ar       21-9     Ar       29-6     Ar       39-1     Ar       23-5     Ar       4-4     Ar       22-5     Ar       GATES     8	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262 oclor-1268 oclor-1260 trachloro-m-xyl	ene	10.1 7.80 5.40 4.90 6.50 4.70 5.70 1500 8.82	U U U U U E	10.1 7.80 5.40 4.90 6.50 4.70 5.70 5.80 40 - 162		29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
11141-14 53469-2 12672-2 11097-6 37324-2 11100-14 11096-8 <b>SURROG</b> 877-09-8 2051-24	6-5     Ar       21-9     Ar       29-6     Ar       39-1     Ar       23-5     Ar       4-4     Ar       2-5     Ar       GATES     8       8     Te       1-3     De	oclor-1232 oclor-1242 oclor-1248 oclor-1254 oclor-1262 oclor-1268 oclor-1260 trachloro-m-xyl	ene yl	10.1         7.80         5.40         4.90         6.50         4.70         5.70         1500         8.82         7.66	U U U U U E	10.1 7.80 5.40 4.90 6.50 4.70 5.70 5.80 40 - 162 32 - 176		29.3 29.3 29.3 29.3 29.3 29.3 29.3 29.3	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg SPK: 20

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concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit

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	Client:		H2M Arc	hitects + I	Engineers			Date Collected:	03/16/23		
	Project:		Siphon					Date Received:	03/17/23		
	Client Sample ID:		CHAMB	ER-C-72-'	WESTDL			SDG No.:	O1975		
	Lab Sample ID:		01975-04	4DL				Matrix:	SOIL		
	Analytical Method:	:	SW8082A	A				% Solid:	57.8	Dec	anted:
	Sample Wt/Vol:		30.08	Units:	g			Final Vol:	10000	ı	ıL
	Soil Aliquot Vol				uL.			Test:	PCB		
	Eutraction Turner				uL			Injustion Volume	TCD		
	Extraction Type:		4.0					Injection volume :			
	GPC Factor :		1.0		PH :						
	Prep Method :		SW3541E	3							
File ID/Qc Batch: Dilution:			Prep Date			Date Analyzed	Prep	Batch	ID		
	PO093352 D	5			03/18/23 08:14			03/20/23 11:07	PB151510		
	100700010										
C.	AS Number	Paramet	er		Conc.	Qualifier	MDL		LOQ / CI	RQL	Units(Dry Weight)
C.	AS Number	Paramete	er		Conc.	Qualifier	MDL		LOQ / CI	RQL	Units(Dry Weight)
С.	AS Number TARGETS	Paramete	er		<b>Conc.</b>	Qualifier	MDL		LOQ / CI	RQL	Units(Dry Weight)
С.	AS Number TARGETS 12674-11-2 11104-28-2	Paramete Aroclor-	er -1016		<b>Conc.</b> 30.9	<b>Qualifier</b> UD UD	MDL 30.9		LOQ / CH 1	<b>RQL</b> 47	Units(Dry Weight) ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5	Paramete Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232		Conc. 30.9 50.6 39.0	Qualifier UD UD UD	MDL 30.9 50.6 39.0		LOQ / CI 1 1	<b>RQL</b> 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9	Paramete Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242		Conc. 30.9 50.6 39.0 27.0	Qualifier UD UD UD UD	MDL 30.9 50.6 39.0 27.0		LOQ / CI 1 1 1	AQL 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg
С.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6	Paramete Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248		Conc. 30.9 50.6 39.0 27.0 24.3	Qualifier UD UD UD UD UD	MDL 30.9 50.6 39.0 27.0 24.3		LOQ / CI 1 1 1 1	<b>RQL</b> 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248 -1254		Conc. 30.9 50.6 39.0 27.0 24.3 32.4	Qualifier UD UD UD UD UD UD	MDL 30.9 50.6 39.0 27.0 24.3 32.4		LOQ / CI 1 1 1 1 1 1	A7 47 47 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
С.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5	Paramete Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248 -1254 -1254 -1262		Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5	Qualifier UD UD UD UD UD UD UD UD	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5		LOQ / CI 1 1 1 1 1 1 1 1	AQL 47 47 47 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<b>C</b> .	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1242 -1248 -1254 -1254 -1262 -1268		Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5	Qualifier UD UD UD UD UD UD UD UD UD	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5		LOQ / CI 1 1 1 1 1 1 1 1 1	A7 47 47 47 47 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<b>C</b> .	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248 -1254 -1254 -1268 -1260		Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 1600	Qualifier UD UD UD UD UD UD UD UD UD UD UD UD UD	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 28.8		LOQ / CI 1 1 1 1 1 1 1 1 1 1 1 1	<b>RQL</b> 47 47 47 47 47 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C.	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260		Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 1600	Qualifier UD UD UD UD UD UD UD UD UD UD DP	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 28.8		LOQ / CI 1 1 1 1 1 1 1 1 1 1 1 1	47 47 47 47 47 47 47 47 47 47 47	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
C	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Tetrachl	er -1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260 oro-m-xy	lene	Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 1600 11.1	Qualifier UD UD UD UD UD UD UD UD UD UD UD DP	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 28.5 28.8 40 - 162		LOQ / CI 1 1 1 1 1 1 1 1 1 1 5	<b>RQL</b> 47 47 47 47 47 47 47 47 47 55%	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg
<b>C</b> .	AS Number TARGETS 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 37324-23-5 11100-14-4 11096-82-5 SURROGATES 877-09-8 2051-24-3	Parameter Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor- Aroclor-	er -1016 -1221 -1232 -1242 -1248 -1254 -1262 -1268 -1260 oro-m-xy orobipher	lene nyl	Conc. 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 1600 11.1 7.80	Qualifier UD UD UD UD UD UD UD UD UD DP	MDL 30.9 50.6 39.0 27.0 24.3 32.4 23.5 28.5 28.5 28.8 40 - 162 32 - 176		LOQ / CI 1 1 1 1 1 1 1 1 1 5 3	<b>RQL</b> 47 47 47 47 47 47 47 47 47 47 55% 39%	Units(Dry Weight) ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg

Comments:

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration
was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

O1975

M = MS/MSD acceptance criteria did not meet requirements

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7

C D



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-01	CHAMBER-B-72-WEST	SOIL	РСВ	8082A	03/16/23	03/18/23	03/19/23	03/17/23
01975-01D	CHAMBER-B-72-WEST	SOIL			03/16/23			03/17/23
	DL		PCB	8082A		03/18/23	03/20/23	
01975-02	CHAMBER-B-72-WEST	TCLP		01514	03/16/23	00/10/00	00/00/00	03/17/23
01975-04	CHAMBER-C-72-WEST	SOIL	ICLP Herbicide	8151A 8082A	03/16/23	03/18/23	03/20/23	03/17/23
01975-04D	L CHAMBER-C-72-WEST	SOIL			03/16/23	,,	,,	03/17/23
	DL		PCB	8082A		03/18/23	03/20/23	
01975-05	CHAMBER-C-72-WEST	TCLP		01514	03/16/23	02/10/22	02/20/22	03/17/23
			ICLP Herbicide	8151A		03/18/23	03/20/23	

O1975



Hit Summary Sheet SW-846

Client: H2M Architects + Engine	ers	Project ID:	Siphon			В
Sample ID Client ID Client ID :	Matrix Parameter	Concentration	C MDL	RDL	Units	C D

**Total Concentration:** 

0.000





## <u>SAMPLE</u> <u>DATA</u>



Client:		H2M Arc	hitects + l	Engineers				Date Collected:	03/16/23		
Project:		Siphon						Date Received:	03/17/23		
Client Sample ID:		CHAMB	ER-B-72-	WEST				SDG No.:	O1975		
Lab Sample ID:		01975-02	2					Matrix:	TCLP		
Analytical Method	1:	SW8081						% Solid:	0	Decanted:	
Sample Wt/Vol:		100	Unite:	mI				Final Vol:	10000		
		100	Onits.	T				Tinar voi.	TOUDD	uL	
Soil Aliquot Vol:				uL				Test:	TCLP Pestici	de	
Extraction Type:								Injection Volume :			
GPC Factor :		1.0		PH :							
Prep Method :		SW3541E	3								
File ID/Qc Batch:		Dilution:			Prep Da	ate		Date Analyzed	Prep	Batch ID	
PL081628.D		1			03/22/2	3 11:20		03/23/23 01:29	PB1:	51613	
CAS Number	Paramet	er		Con	ic.	Qualifier	MDL		LOQ / CI	RQL	Units
TARGETS 58-89-9	oamma-	BHC (Li	ndane)	0.06	54	U	0.064		(	) 50	ησ/Γ
76-44-8	Heptach	olor	ilduile)	0.00	73	U	0.073		(	) 50	ug/L
1024-57-3	Heptach	lor epoxi	de	0.10	)	U	0.10		(	).50	ug/L
72-20-8	Endrin			0.04	43	U	0.043		(	).50	ug/L
72-43-5	Methox	ychlor		0.06	56	U	0.066		(	).50	ug/L
8001-35-2	Toxaphe	ene		1.80	)	U	1.80		1	10.0	ug/L
57-74-9	Chlorda	ne		0.97	7	U	0.97		4	5.00	ug/L
SURROGATES											
2051-24-3	Decachl	lorobiphei	nyl	15.4	4		27 - 142		-	17%	SPK: 20
877-09-8	Tetrachl	oro-m-xy	lene	18.9	9		60 - 145		9	94%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

8

C D

O1975



Client:		H2M Arc	H2M Architects + Engineers					Date Collected:	03/16/23		
Project:		Siphon						Date Received:	03/17/23		
Client Sample ID:		CHAMB	ER-C-72-	WEST				SDG No.:	O1975		
Lab Sample ID:		01975-05	5					Matrix:	TCLP		
Analytical Method	l:	SW8081						% Solid:	0	Decanted:	
Sample Wt/Vol:		100	Units:	mL				Final Vol:	10000	uL	
Soil Aliquot Vol				υL				Test:	TCLP Pestic	ide	
Extraction Type:				uL				Injection Volume :	i elli i estie	lue	
Extraction Type.								injection volume.			
GPC Factor :		1.0		PH :							
Prep Method :		SW3541H	3								
File ID/Qc Batch:		Dilution:		Prep Date				Date Analyzed	Prep	Batch ID	
PL081631.D		1			03/22/2	23 11:20		03/23/23 02:11	PB1	51613	
CAS Number	Paramet	er		Con	ıc.	Qualifier	MDL		LOQ / C	RQL	Units
TARCETS											
58-89-9	gamma-	BHC (Lii	ndane)	0.0	64	U	0.064			0.50	ug/L
76-44-8	Heptach	nlor		0.0	73	U	0.073			0.50	ug/L
1024-57-3	Heptach	nlor epoxi	de	0.1	0	U	0.10			0.50	ug/L
72-20-8	Endrin			0.04	43	U	0.043			0.50	ug/L
72-43-5	Methox	ychlor		0.0	66	U	0.066			0.50	ug/L
8001-35-2	Toxaphe	ene		1.8	0	U	1.80			10.0	ug/L
57-74-9	Chlorda	ine		0.9	7	U	0.97			5.00	ug/L
SURROGATES											
2051-24-3	Decach	lorobipher	nyl	17.	8		27 - 142			89%	SPK: 20
877-09-8	Tetrach	loro-m-xy	lene	19.1	7		60 - 145			98%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

8

C D



Client:	H	2M Arcl	nitects + 1	Engineers				Date Collected:			
Project:	Si	phon						Date Received:	03/22/23		
Client Sample ID:	PE	B151496	бТВ					SDG No.:	O1975		
Lab Sample ID:	PH	B151496	бТВ					Matrix:	TCLP		
Analytical Method	: SV	W8081						% Solid:	0	Decante	ed:
Sample Wt/Vol:	10	00	Units:	mL				Final Vol:	10000	uL	
Soil Aliquot Vol:				uL				Test:	TCLP Pest	icide	
Extraction Type:								Injection Volume :			
GPC Factor :	1.	0		PH :							
Prep Method :	SV	W3541B									
File ID/Qc Batch:	Dilution:			Prep Date			Date Analyzed	Pre	ep Batch ID		
PL081640.D	1			03/22/23 11:20				03/23/23 04:17	PB	151613	
CAS Number	Parameter			Con	Conc. Qualifier		MDL		LOQ / CRQL U		Units
TADCETS											
58-89-9	gamma-BH	HC (Lin	dane)	0.06	64	U	0.064			0.50	ug/L
76-44-8	Heptachlor	r		0.07	73	U	0.073			0.50	ug/L
1024-57-3	Heptachlor	r epoxic	le	0.10	)	U	0.10			0.50	ug/L
72-20-8	Endrin			0.04	43	U	0.043			0.50	ug/L
72-43-5	Methoxych	nlor		0.06	66	U	0.066			0.50	ug/L
8001-35-2	Toxaphene	,		1.80	)	U	1.80			10.0	ug/L
57-74-9	Chlordane			0.97	7	U	0.97			5.00	ug/L
SUPPOCATES											
SURROUALES											
2051-24-3	Decachloro	obiphen	ıyl	18.9	)		27 - 142			94%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

C D



D

#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-01	CHAMBER-B-72-WEST	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/19/23	
			TPH GC	8015D		03/18/23	03/20/23	
01975-01D	L CHAMBER-B-72-WEST DL	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/20/23	
01975-02	CHAMBER-B-72-WEST	TCLP			03/16/23			03/17/23
			TCLP Herbicide	8151A	, -, -	03/18/23	03/20/23	
			TCLP Pesticide	8081B		03/22/23	03/23/23	
01975-04	CHAMBER-C-72-WEST	SOIL			03/16/23			03/17/23
			PCB	8082A	, -, -	03/18/23	03/19/23	
			TPH GC	8015D		03/18/23	03/20/23	
01975-04D	L CHAMBER-C-72-WEST	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/20/23	
01975-05	CHAMBER-C-72-WEST	TCLP			03/16/23			03/17/23
			TCLP Herbicide	8151A		03/18/23	03/20/23	
			TCLP Pesticide	8081B		03/22/23	03/23/23	



Hit Summary Sheet SW-846

SDG No.: Client:	O1975 H2M Architects + E	Engineers		Order ID: Project ID:	O1975 Siphon				
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units	C D	

**Total Concentration:** 

0.000

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## <u>SAMPLE</u> <u>DATA</u>



Client:	H2N	I Architects	s + Engineer	S			Date Collected:	03/16/23		
Project:	Siph	on					Date Received:	03/17/23		
Client Sample ID:	CHA	MBER-B-	72-WEST				SDG No.:	O1975		
Lab Sample ID:	019	75-02					Matrix:	TCLP		
Analytical Method:	SW8	8151A					% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Uni	ts: mL				Final Vol:	10000	uL	
Soil Aliquot Vol:			uL				Test:	TCLP Herbic	ide	
Extraction Type:							Injection Volume :			
GPC Factor :	1.0		PH :							
Prep Method :	8151	А								
File ID/Qc Batch:	Dilu	tion:		Prep D	Date	]	Date Analyzed	Prep	Batch ID	
PS022446.D	1			03/18/	23 11:25	(	03/20/23 20:06	PB15	1517	
CAS Number	Parameter		Co	onc.	Qualifier	MDL		LOQ / CF	RQL	Units
TARGETS										
94-75-7	2,4-D		5.	70	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Sil	vex)	5.	40	U	5.40		2	0.0	ug/L
<b>SURROGATES</b> 19719-28-9	2,4-DCAA		56	6		16 - 175		1	13%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

9

A B C D



Client:	H2M Arc	hitects + E	Engineers				Date Collected:	03/16/23		
Project:	Siphon						Date Received:	03/17/23		
Client Sample ID:	CHAMB	ER-C-72-V	WEST				SDG No.:	O1975		
Lab Sample ID:	O1975-03	5					Matrix:	TCLP		
Analytical Method	SW81512	4					% Solid:	0	Decanted:	
Sample Wt/Vol:	100	Units:	mL				Final Vol:	10000	uL	
Soil Aliquot Vol:			uL				Test:	TCLP Herbic	ide	
Extraction Type:							Injection Volume :			
GPC Factor :	1.0		PH :							
Prep Method :	8151A									
File ID/Qc Batch:	Dilution:		F	Prep Date		]	Date Analyzed	Prep Batch ID		
PS022449.D	1		C	03/18/23 11:	25	(	03/20/23 21:44	PB15	51517	
CAS Number	Parameter		Conc.	. Qua	lifier 1	MDL		LOQ / CF	RQL	Units
TARGETS										
94-75-7	2,4-D		5.70	U	4	5.70		2	0.0	ug/L
93-72-1	2,4,5-TP (Silvex)		5.40	U	4	5.40		2	0.0	ug/L
SURROGATES										
19719-28-9	2,4-DCAA		579		-	16 - 175		1	16%	SPK: 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

9

A B C D



Client:		H2M Arch	itects + I	Engineers				Date Collected:			
Project:		Siphon						Date Received:	03/18/23		
Client Sample ID:		PB151496	ТВ					SDG No.:	01975		
Lab Sample ID:		PB151496	ТВ					Matrix:	TCLP		
Analytical Method	:	SW8151A						% Solid:	0	Decanted:	
Sample Wt/Vol:		100	Units:	mL				Final Vol:	10000	uL	
Soil Aliquot Vol:				uL				Test:	TCLP Herbici	de	
Extraction Type:								Injection Volume :			
GPC Factor :		1.0		PH :							
Prep Method :		8151A									
File ID/Qc Batch:		Dilution:			Prep D	ate		Date Analyzed	Prep	Batch ID	
PS022451.D		1			03/18/2	23 11:25		03/20/23 22:33	PB15	1517	
CAS Number	Paramet	er		Con	ic.	Qualifier	MDL		LOQ / CR	QL	Units
TARGETS											
94-75-7	2,4-D			5.70	)	U	5.70		2	0.0	ug/L
93-72-1	2,4,5-TH	(Silvex)		5.40	)	U	5.40		2	0.0	ug/L
SURROGATES	2 4 DC	<b>^ ^</b>		450			16 175		0	00/	SDV . 500
19/17-20-7	2, <b>4-</b> DC/	1/1		430			10 - 175		9	070	51 K. 500

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

A B C D



Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:20 Siphon J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-02	CHAMBER-B-72-WEST	TCLP	TCI D Horbicido	01514	03/16/23	02/19/22	03/20/23	03/17/23
01975-05	CHAMBER-C-72-WEST	TCLP	TCLP Herbicide	8151A	03/16/23	03/18/23	03/20/23	03/17/23

9





# <u>SAMPLE</u> <u>DATA</u>



В

#### **Report of Analysis**

Client:	H2M Architects + E	Engineers			Date Collected:	03/16/23	
Project:	Siphon				Date Received:	03/17/23	
Client Sample ID:	CHAMBER-B-72-V	WEST			SDG No.:	O1975	
Lab Sample ID:	O1975-01				Matrix:	SOIL	
Analytical Method	: 8015D TPH				% Solid:	49.3 De	canted:
Sample Wt/Vol:	30.06 Units:	g			Final Vol:	1	mL
Soil Aliquot Vol:		uL			Test:	TPH GC	
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :	SW3541						
File ID/Oc Batch:	Dilution	Dren	Date	1	Date Analyzed	Pren Bate	h ID
	Dirucion.	11001		1			
FF012308.D	l	03/18	/23 09:15		03/20/23 11:34	PB151514	4
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
<b>TARGETS</b> PHC	Petroleum Hydrocarbons	109000		814		5740	ug/kg
<b>SURROGATES</b> 16416-32-3	TETRACOSANE-d50	15.8		37 - 130		79%	SPK: 20

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	



В

#### **Report of Analysis**

Client:	H2M Architects + E	Ingineers			Date Collected:	03/16/23	
Project:	Siphon				Date Received:	03/17/23	
Client Sample ID:	CHAMBER-C-72-V	WEST			SDG No.:	01975	
Lab Sample ID:	O1975-04				Matrix:	SOIL	
Analytical Method	: 8015D TPH				% Solid:	57.8 D	ecanted:
Sample Wt/Vol:	30.01 Units:	g			Final Vol:	1	mL
Soil Aliquot Vol:		uL			Test:	TPH GC	
Extraction Type:					Injection Volume :		
GPC Factor :		PH :					
Prep Method :	SW3541						
File ID/Qc Batch:	Dilution:	Prep 1	Date		Date Analyzed	Prep Bat	ch ID
FF012317.D	10	03/18	/23 09:15		03/20/23 17:07	PB15151	4
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQI	Units(Dry Weight)
TARGETS PHC	Petroleum Hydrocarbons	456000		6950		4900	00 ug/kg
<b>SURROGATES</b> 16416-32-3	TETRACOSANE-d50	1.63		37 - 130		81%	SPK: 20

Comments:

U = Not Detected J = Estimated Value LOQ = Limit of Quantitation B = Analyte Found in Associated Method Blank MDL = Method Detection Limit N = Presumptive Evidence of a Compound LOD = Limit of Detection * = Values outside of QC limits E = Value Exceeds Calibration Range D = Dilution P = Indicates > 25% difference for detected S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample. concentrations between the two GC columns Q = indicates LCS control criteria did not meet requirements () = Laboratory InHouse Limit M = MS/MSD acceptance criteria did not meet requirements O1975 58 of 80



#### Phone: (908) 789 8900 Fax: (908) 789 8922

#### LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-01	CHAMBER-B-72-WEST	SOIL			03/16/23			03/17/23
			PCB	8082A	, -, -	03/18/23	03/19/23	
			TPH GC	8015D		03/18/23	03/20/23	
01975-01D	L CHAMBER-B-72-WEST DL	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/20/23	
01975-02	CHAMBED-B-72-W/EST				03/16/23			03/17/23
01975-02	CHAPIDER-D-72-WEST	TCEP	TCI P. Harbicida	01514	05/10/25	02/10/22	03/20/22	05/17/25
			TCLP Herbicide	0151A		03/10/23	03/20/23	
01975-04	CHAMBER-C-72-WEST	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/19/23	
			TPH GC	8015D		03/18/23	03/20/23	
01975-04D	L CHAMBER-C-72-WEST DL	SOIL			03/16/23			03/17/23
			PCB	8082A		03/18/23	03/20/23	
01975-05	CHAMBER-C-72-WEST	TCLP			03/16/23			03/17/23
			TCLP Herbicide	8151A		03/18/23	03/20/23	

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:	O1975			Order ID:		O1975		
Client:	H2M Architects + Engineers			Project ID	:	Siphon		
Sample ID Client ID :	Client ID CHAMBER-B-72-WEST	Matrix	Parameter	Concentration	С	MDL	RDL	Units
O1975-02	CHAMBER-B-72-WEST	TCLP	Barium	817		39.2	500	ug/L
O1975-02	CHAMBER-B-72-WEST	TCLP	Iron	57700		185	500	ug/L
O1975-02	CHAMBER-B-72-WEST	TCLP	Nickel	45.3	J	8.50	200	ug/L
O1975-02	CHAMBER-B-72-WEST	TCLP	Zinc	401		17.5	200	ug/L
Client ID :	CHAMBER-C-72-WEST							
O1975-05	CHAMBER-C-72-WEST	TCLP	Barium	452	J	39.2	500	ug/L
O1975-05	CHAMBER-C-72-WEST	TCLP	Chromium	9.79	J	8.00	50.0	ug/L
O1975-05	CHAMBER-C-72-WEST	TCLP	Iron	66100		185	500	ug/L
O1975-05	CHAMBER-C-72-WEST	TCLP	Nickel	88.1	J	8.50	200	ug/L
O1975-05	CHAMBER-C-72-WEST	TCLP	Zinc	882		17.5	200	ug/L

11

A B C D





## <u>SAMPLE</u> <u>DATA</u>


~~~				Α
Client:	H2M Architects + Engineers	Date Collected:	03/16/23	в
Project:	Siphon	Date Received:	03/17/23	
Client Sample ID:	CHAMBER-B-72-WEST	SDG No.:	01975	C
Lab Sample ID:	O1975-02	Matrix:	TCLP	D
Level (low/med):	low	% Solid:	0	J

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	283	U	1	283	500	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-39-3	Barium	817		1	39.2	500	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-43-9	Cadmium	1.00	U	1	1.00	30.0	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-47-3	Chromium	8.00	U	1	8.00	50.0	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-50-8	Copper	70.7	U	1	70.7	100	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7439-89-6	Iron	57700		1	185	500	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7439-97-6	Mercury	0.78	U	1	0.78	2.00	ug/L	03/21/23 09:40	03/21/23 13:59	SW7470A	
7440-02-0	Nickel	45.3	J	1	8.50	200	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-22-4	Silver	6.60	U	1	6.60	50.0	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050
7440-66-6	Zinc	401		1	17.5	200	ug/L	03/19/23 15:30	03/20/23 21:54	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP Mercury			
U = Not Detect LOQ = Limit MDL = Methor LOD = Limit D = Dilution Q = indicates	eted of Quantitation od Detection Limit of Detection	eet requirements		J = Estimated Value B = Analyte Found in Associated Method Blank * = indicates the duplicate analysis is not within control limits. E = Indicates the reported value is estimated because of the presence of interference.
Q - Indicates	Les control enterna did not in	cet requirements		N = Spiked sample recovery not within control limits
O1975			62 c	of 80



				A
Client:	H2M Architects + Engineers	Date Collected:	03/16/23	в
Project:	Siphon	Date Received:	03/17/23	
Client Sample ID:	CHAMBER-C-72-WEST	SDG No.:	01975	С
Lab Sample ID:	O1975-05	Matrix:	TCLP	D
Level (low/med):	low	% Solid:	0	J

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	283	U	1	283	500	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-39-3	Barium	452	J	1	39.2	500	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-43-9	Cadmium	1.00	U	1	1.00	30.0	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-47-3	Chromium	9.79	J	1	8.00	50.0	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-50-8	Copper	70.7	U	1	70.7	100	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7439-89-6	Iron	66100		1	185	500	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7439-97-6	Mercury	0.78	U	1	0.78	2.00	ug/L	03/21/23 09:40	03/21/23 14:02	SW7470A	L
7440-02-0	Nickel	88.1	J	1	8.50	200	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-22-4	Silver	6.60	U	1	6.60	50.0	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050
7440-66-6	Zinc	882		1	17.5	200	ug/L	03/19/23 15:30	03/20/23 21:58	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP Mercury			
U = Not Detect LOQ = Limit MDL = Metho LOD = Limit D = Dilution O = indicates	eted of Quantitation od Detection Limit of Detection	neet requirements		 J = Estimated Value B = Analyte Found in Associated Method Blank * = indicates the duplicate analysis is not within control limits. E = Indicates the reported value is estimated because of the presence of interference. OR = Over Range
Q – indicates i		neet requirements		N = Spiked sample recovery not within control limits
O1975			63 c	of 80



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon Select,J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-02	CHAMBER-B-72-WEST	TCLP			03/16/23			03/17/23
			TCLP Mercury	7470A		03/21/23	03/21/23	
			TCLPMetals Group1	6010D		03/19/23	03/20/23	
01975-05	CHAMBER-C-72-WEST	TCLP			03/16/23			03/17/23
			TCLP Mercury	7470A		03/21/23	03/21/23	
			ICLPMetals Group1	6010D		03/19/23	03/20/23	

11





12

<u>SAMPLE</u> <u>DATA</u>



			02/16/22 10 10	
Client:	H2M Architects + Engineers	Date Collected:	03/16/23 10:10	в
Project:	Siphon	Date Received:	03/17/23	Ľ
Client Sample ID:	CHAMBER-B-72-WEST	SDG No.:	O1975	C
Lab Sample ID:	O1975-01	Matrix:	SOIL	
		% Solid:	49.3	J

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight) Prep Date	Date Ana.	Ana Met.
Oil and Grease	273		1	81.1	253	mg/Kg	03/21/23 09:40	1664A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm	03/21/23 13:15	9095B
pН	6.38	Н	1	0	0	pH	03/17/23 13:35	9045D
TS	46.1		1	1.00	5.00	%	03/17/23 10:00	SM 2540 B-15
TVS	15.6		1	1.00	10.0	%	03/17/23 16:00	160.4

Comments: pH result reported at temperature 22.5 °C

II =	Not	Detected
0-	INOL	Delected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Daramatar	Conc. Oug. DF. MDI	Units Pron Date	Data Ana 🛛 Ana Mat	
		% Solid:	100	
Lab Sample ID:	01975-02	Matrix:	SOIL	
Client Sample ID:	CHAMBER-B-72-WEST	SDG No.:	O1975	
Project:	Siphon	Date Received:	03/17/23	
Client:	H2M Architects + Engineers	Date Collected:	03/16/23 10:10	

i urumeter	cone.	Zum	DI	MBE	LOQ / OKQL	emis	Ttep Date	Dute Thu	ina litea
Corrosivity	6.38	Н	1	0	0	pН		03/17/23 13:35	9045D
Ignitability	NO		1	0	0	oC		03/21/23 15:48	1030
Reactive Cyanide	0.011	U	1	0.011	0.050	mg/Kg	03/21/23 08:45	03/21/23 12:32	9012B
Reactive Sulfide	6.31	J	1	2.98	10.0	mg/Kg	03/20/23 08:45	03/20/23 13:25	9034

Comments: pH result reported at temperature 22.5 °C

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



ASTM COD

ASTM TPH

ASTM Oil and Grease

11.0

0.53

1.65

В

G-11

03/29/23 16:22 SM 5220 D-11

03/21/23 09:20 SW1664A

03/21/23 10:00 SW1664

Report of Analysis

Client:	H2M Architects + Engineers		Γ	Date Collected:	03/16/23 10	03/16/23 10:10	
Project:	Siphon	Siphon					
Client Sample ID:	CHAMBER-B-72-WEST	CHAMBER-B-72-WEST				O1975	
Lab Sample ID:	O1975-03		Ν	Aatrix:	WATER	WATER	
			0/	6 Solid:	0		
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
ASTM Ammonia	0.054 J 1 0.045	0.10	mg/L	03/21/23 14:30	03/22/23 13:57	SM 4500-NH3 B plus NH3	

mg/L

mg/L

mg/L

10.0

5.00

5.00

2.52

0.53

1.65

1

1

1

U

U

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Client:	H2M Architects + Engineers	Date Collected:	03/16/23 12:50
Project:	Siphon	Date Received:	03/17/23
Client Sample ID:	CHAMBER-C-72-WEST	SDG No.:	O1975
Lab Sample ID:	O1975-04	Matrix:	SOIL
		% Solid:	57.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight) Prep Date	Date Ana.	Ana Met.
Oil and Grease	1120		1	69.1	216	mg/Kg	03/21/23 09:40	1664A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm	03/21/23 13:30	9095B
pH	6.82	Н	1	0	0	pH	03/17/23 13:39	9045D
TS	52.5		1	1.00	5.00	%	03/17/23 10:00	SM 2540 B-15
TVS	12.0		1	1.00	10.0	%	03/17/23 16:00	160.4

Comments: pH result reported at temperature 22.7 °C

II -	Mot	Detected
U –	INOL	Deletteu

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



]	Parameter	Conc. Qua. DF MDL	LOO / CROL	Units	Prep Date	Date Ana.	Ana Met.		
					% Solid:	100		J	
	Lab Sample ID:	O1975-05			Matrix:	SOIL			
	Client Sample ID:	CHAMBER-C-72-WEST			SDG No.:	O1975		Ч	
	Project:	Siphon			Date Received:	03/17/23			
	Client:	H2M Architects + Engineers			Date Collected:	03/16/23 12	2:50		B

		-					1		
Corrosivity	6.82	Н	1	0	0	pН		03/17/23 13:39	9045D
Ignitability	NO		1	0	0	oC		03/21/23 15:55	1030
Reactive Cyanide	0.011	U	1	0.011	0.050	mg/Kg	03/21/23 08:45	03/21/23 12:32	9012B
Reactive Sulfide	7.91	J	1	2.98	10.0	mg/Kg	03/20/23 08:45	03/20/23 13:27	9034

Comments: pH result reported at temperature 22.7 °C

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



ASTM COD

ASTM TPH

ASTM Oil and Grease

24.0

0.53

1.65

2.52

0.53

1.65

1

1

1

U

U

G-11

03/29/23 16:24

03/21/23 09:20 SW1664A

03/21/23 10:00 SW1664

SM 5220 D-11

Report of Analysis

Client:	H2M Architects + Engineer	S		Date Collected:	03/16/23 1	2:50	
Project:	Siphon			Date Received:	03/17/23		В
Client Sample ID:	CHAMBER-C-72-WEST			SDG No.:	O1975		С
Lab Sample ID:	O1975-06			Matrix:	WATER		
				% Solid:	0		J
Parameter	Conc. Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
ASTM Ammonia	10.5 OR 1 0.045	0.10	mg/L	03/21/23 14:30	03/22/23 13:57	SM 4500-NH3 B plus NH3	-

mg/L

mg/L

mg/L

10.0

5.00

5.00

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



Client: Project: Client Sample ID:	H2M Siphc	H2M Architects + Engineers Siphon CHAMBER-C-72-WESTDL				Date Collected: Date Received:	03/16/23 1: 03/17/23	03/16/23 12:50 03/17/23 01975	
Lab Sample ID:	0197	O1975-06DL				Matrix: % Solid:	WATER 0		
Parameter	Conc.	Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
ASTM Ammonia	10.2	D	10 0.45	1.00	mg/L	03/21/23 14:30	03/22/23 14:19	SM 4500-NH3 B plus NH3 G-11	

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	O1975 H2M Architects + Engineers Stephen I. Kaplan			OrderDate: Project: Location:	3/17/2023 10:2 Siphon Select,J11	0:41 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
01975-01	CHAMBER-B-72-WEST	SOIL			03/16/23 10:10			03/17/23
			Oil and Grease	1664A			03/21/23 09:40	
			Paint Filter	9095B			03/21/23 13:15	
			рН	9045D			03/17/23 13:35	
			TS	SM2540 B			03/17/23 10:00	
			TVS	160.4			03/17/23 16:00	
01975-02	CHAMBER-B-72-WEST	SOIL			03/16/23 10:10			03/17/23
			Corrosivity	9045D			03/17/23 13:35	
			Ignitability	1030			03/21/23 15:48	
			Reactive Cyanide	9012B		03/21/23	03/21/23 12:32	
			Reactive Sulfide	9034		03/20/23	03/20/23 13:25	
01975-03	CHAMBER-B-72-WEST	WATER			03/16/23 10:10			03/17/23
			ASTM Ammonia	SM4500-NH3		03/21/23	03/22/23 13:57	
			ASTM COD	SM5220 D			03/29/23 16:22	

12



12

A B C

Phone: (908) 789 8900 Fax: (908) 789 8922

			LAB CHRONI	CLE				
			ASTM Oil and Grease	1664A			03/21/23	
				1001			09:20	
			ASTM TPH	1664			03/21/23	
							10.00	
01975-04	CHAMBER-C-72-WEST	SOIL			03/16/23 12:50			03/17/23
			Oil and Grease	1664A			03/21/23 09:40	
			Paint Filter	9095B			03/21/23	
			pH	9045D			03/17/23	
			TS	SM2540 B			03/17/23	
			TVS	160.4			03/17/23	
			103	100.1			16:00	
01975-05	CHAMBER-C-72-WEST	SOIL			03/16/23 12:50			03/17/23
			Corrosivity	9045D			03/17/23 13:39	
			Ignitability	1030			03/21/23	
			Reactive Cyanide	9012B		03/21/23	03/21/23	
						, , -	12:32	
			Reactive Sulfide	9034		03/20/23	03/20/23	
							13:27	
01975-06	CHAMBER-C-72-WEST	WATER			03/16/23 12:50			03/17/23
			ASTM Ammonia	SM4500-NH3		03/21/23	03/22/23	
							13:57	
			ASTM COD	SM5220 D			03/29/23	
			ASTM Oil and Grease	16644			10:24 03/21/23	
				IOOTA			09:20	
			ASTM TPH	1664			03/21/23	
							10:00	





A B C

Phone: (908) 789	8900 Fax:	(908) 789 892	22
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LAB	CHRONICLE
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01975-06DL	CHAMBER-C-72-WEST DL	WATER	03/16/23 12:50				03/17/23
			ASTM Ammonia	SM4500-NH3	03/21/23	03/22/23 14:19	



<u>SHIPPING</u> DOCUMENTS

13

CHAIN OF	284	284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net							HEMT	ECH Pf NO. Imber		1N0 21975 8928		_ <mark>13</mark> 13.1							
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COMPANY:	HOM Arch	HELT + ENDI	neels	PROJE	ECT N	AME	E: NO/Na	vn Blud	Siphu	n cler	nim)		BILL	ro: Hi	2m A	nhite	ch+1	Engina	% _{PO#:}		
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CITY Me	lville	STATE: N	Y ZIP: 11747	PROJE	СТ МА	NAG	ier: S	+ephar	Kaj	lan			CITY	me	will	2		STAT	E NY	71P. 11747	1
ATTENTION:	Stephen	Kaplan		e-mail:	SK	AP	hn @	ham	, lom				ATTE	NTION:	Stept	ien K	aplan	PHC	NE: 631-	756-8000 ×1613	
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FAX (RUSH) HARDCOPY (D/ EDD: TO BE APPRO STANDARD HA	ATA PACKAGE): VED BY CHEMT	ECH AROUND TIME IS 1	DAYS* DAYS* DAYS* 0 BUSINESS DAYS	Leve Leve Leve + Ra	I 1 (Res I 2 (Res I 3 (Res aw Data FORM/	sults (sults + sults + a) AT	Only) QC) QC U	Level 4 (QC NJ Reduce NYS ASP A Other	C + Full F d C U A C NY	Raw Data S EPA CI S ASP B) -P 	AR Pre of	ANTERNAL	5	6	///	8	9		//	
CHEMTECH					SAM	PLE	SAN		LES				PRE	SERVA	TIVES				CC ← Sneci	MMENTS	4
SAMPLE ID	SA	MPLE IDENTIFIC	ATION	MATRIX	- dwo	BRAB	DATE	TIME	OF BOT	1		0		F	-	7			A-HCI B-HN03	D-NaOH E-ICE	
1.	Chamber B	72" West		Sludeo		X	3/16/23	10:1D	12	×	2	3	4	5	0		8	9	C-H2SO4	F-OTHER	
2.	Chamber C	72" West		SIndap		X	3/16/23	12:50	12	\times											
3.				1.90																	
4.																					1
5.																					1
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RELINQUISHED BY 1. Jan Nusta RELINQUISHED BY 2. EEC TIJNQUISHED BY	Y SAMPLER: 5 /H2M Y SAMPLER: Y SAMPLER:	SAMPLE CUSTO DATE/TIME: 3/16/23 DATE/TIME: 3-17-23 0930 DATE/TIME:	DY MUST BE DOCI RECEIVED BY: 1. RECEIVED BY: 2. RECEIVED BY:		DBEL	OWI	Conditie Commer	ME SAMP	LES C	HANGE s at receip freche	POSS	ESSIO		UDING	COURI Taci	POLER TI	ELIVER EMP AI	Y ANO	Ters	°C	
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@1975			WHITE - CHEMTE	CH COPY FO	DR RETI	IRN TO	CLIENT	77/nf		ATECH CO		DINK	SAMPLE	P COPY						GINO	£

Form U Parameters (White Pines)

TCLP Metals

Arsenic Barium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Zinc Iron

TCLP Semi-Volatiles

O-Cresol M-Cresol P-Cresol 1,4 Dichlorobenzene 2,4 Dinitrotoluene Hexachlorobenzene Hexachloroethane Nitrobenzene Nitrobenzene Pentachlorophenol 2,4,6 Trichlorophenol 2,4,6 Trichlorophenol

ASTM Leachate

Ammonia-Nitrogen Chemical Oxygen Demand Oil & Grease Total Petroleum Hydrocarbons

TCLP Volatiles

Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,2 Dichloroethane 1,1 Dichloroethane 2-Butanone (MEK) Pyridine 2-Butanone (MEK) Pyridine Tetrachloroethene Tetrachloroethene Vinyl Chloride Toluene Ethylbenzene Kylene

TCLP Pesticides/Herbicides

Chlordane Endrin Heptachlor Heptachlor Epoxide Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex

Total Analysis

pH Free Liquids Ignitability Oil & Grease Total Petroleum Hydrocarbons PCBs Reactive Cyanide Reactive Sulfide Total Organic Halogens Total Solids Total Volatile Solids

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O1975



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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15



SUB DATA PACKAGE

PROJECT NAME : SIPHON PROJECT # : 01976

H2M ARCHITECTS + ENGINEERS

290 Broad Hollow Road Suite 400E Melville, NY - 11747 Phone No: 631-756-8000

ORDER ID : 01976 ATTENTION : Stephen I. Kaplan







Cover Page

Order ID : 01976

Project ID : Siphon

Client : H2M Architects + Engineers

Lab Sample Number

Client Sample Number

O1976-01 O1976-02 CHAMBER-B-72-WEST CHAMBER-C-72-WEST

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

N. N. Pandya

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



March 23, 2023

PM Chemtech 284 Sheffield Street Mountainside, NJ 07092 TEL: FAX: RE: 01976

Dear PM:

Order No.: 23031468

Summit Environmental Technologies, Inc. received 2 sample(s) on 3/21/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

miter makeal

Jennifer Woolf Project Manager

3310 Win St. Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



Case Narrative

WO#:23031468Date:3/23/2023

CLIENT:	Chemtech
Project:	O1976

WorkOrder Narrative:

23031468: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:

Sample analyzed by SW846: 9023 EOX due to matrix; Results reported on "as received" basis.



Qualifiers and Acronyms

WO#:23031468Date:3/23/2023

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

T	The compound was analyzed for but was not detected above the MDI
U	The composite due is ensured to but was not detected above includes.
J 	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
Н	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
Ε	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
Ν	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
Р	The second column confirmation exceeded 25% difference.
С	The result has been confirmed by GC/MS.
Χ	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.

W Samples were received outside temperature limits ($0^\circ - 6^\circ C$). Not Clean Water Act compliant.

Z Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Workorder Sample Summary

WO#: 23031468 23-Mar-23

CLIENT:	Chemtech				
Project:	O1976				
Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23031468-001	Chamber-B-72-West		3/16/2023 10:10:00 AM	3/21/2023 9:50:00 AM	Solid
23031468-002	Chamber-C-72-West		3/16/2023 12:50:00 PM	3/21/2023 9:50:00 AM	Solid

O1976



DATES REPORT

WO#: 23031468 23-Mar-23

Client: Chemtech 01976 **Project:** Sample ID **Client Sample ID Collection Date** Matrix Test Name Leachate Date Prep Date **Analysis Date** Extractable Organic Halides (EOX) (90 3/22/2023 1:00:00 PM 23031468-001A Chamber-B-72-West 3/16/2023 10:10:00 AM Solid 23031468-002A Chamber-C-72-West 3/16/2023 12:50:00 PM Extractable Organic Halides (EOX) (90 3/22/2023 1:00:00 PM

Original

	NTAL TECHNO Laboratories	ALT LOGIES, INC	Summit Environmental Technolo 331 Cuyahoga Falls, Ok TEL: (330) 253-8211 FAX: (330) 2 Website: <u>http://www.s</u>	ogies, Inc. 0 Win St. nio 44223 253-4489 ettek.com			Date Repo Comp Add	WO#: orted: pany: lress:	23031468 3/23/2023 Chemtech 284 Sheff Mountain	ield Street side NJ 070	092	
							Rece Proj	ived: ect#:	3/21/2023 O1976	5		
Client ID#	Lab ID#	Collected	Analyte	Result Units	Qual	Matrix	Method	DF	MDL	PQL	Run	Analyst
Chamber-B-72-West	001	3/16/2023	Extractable Organic Halides	19.5 mg/Kg	J	Solid	EPA 9023	1	11.7	40.0	3/22/2023	KMW
Client ID#	Lab ID#	Collected	Analyte	Result Units	Qual	Matrix	Method	DF	MDL	PQL	Run	Analyst
Chamber-C-72-West	002	3/16/2023	Extractable Organic Halides	13.0 mg/Kg	J	Solid	EPA 9023	1	11.7	40.0	3/22/2023	KMW



Accreditation Program Analytes Report

WO#: 23031468 23-Mar-23

Client:	Chemtech		State:	NY
Project:	D1976		Program Name:	OW_WW_SCM_NI
Sample II) Matrix	Test Name	Analyte	Status

Sample ID	Matrix	Test Name	Analyte	Status
23031468-001A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	А
23031468-002A	Solid	Extractable Organic Halides (EOX) (9023)	Extractable Organic Halides	А

Key



Chemtech

Client:

Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489 Website: <u>http://www.settek.com</u>

QC SUMMARY REPORT

WO#: 23031468

23-Mar-23

Project:	O1976							1	BatchID: R	R160340		
Sample ID: Client ID:	: MB-R160340 PBS	SampType: MBLK Batch ID: R160340	TestCoc TestN	le: EOX_S(90 lo: SW9023	23) Units: mg/Kg		Prep Date Analysis Date	e: 3/22/2	023	RunNo: 160 SeqNo: 420	0340 61034	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	ND	40.0									U
Sample ID:	LCS-R160340	SampType: LCS	TestCoo	le: EOX_S(90	23) Units: mg/Kg		Prep Date	e:		RunNo: 16	0340	
Client ID:	LCSS	Batch ID: R160340	IestN	IO: SW9023			Analysis Date	e: 3/22/2	023	SeqNo: 420	61035	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	53.8	40.0	50.00	0	108	81	114				
Sample ID:	23031468-002AMS	SampType: MS	TestCoo	le: EOX_S(90	23) Units: mg/Kg		Prep Date	e:		RunNo: 16	0340	
Client ID:	Chamber-C-72-West	Batch ID: R160340	TestN	lo: SW9023			Analysis Date	e: 3/22/2	023	SeqNo: 420	62010	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	550	40.0	500.0	13.00	107	78	116				
Sample ID:	23031468-002AMSD	SampType: MSD	TestCoo	le: EOX_S(90	23) Units: mg/Kg		Prep Date	e:		RunNo: 160	0340	
Client ID:	Chamber-C-72-West	Batch ID: R160340	TestN	lo: SW9023			Analysis Date	e: 3/22/2	023	SeqNo: 42	62011	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable	e Organic Halides	520	40.0	500.0	13.00	101	78	116	550.0	5.61	20	
Qualifiers:	B Analyte detectJ Analyte detectND Not DetectedPL Permit Limit	ed in the associated Method Bla ed below quantitation limits	ank	E Value M Manua OG1 R RPD c	above quantitation ran al Integration used to do putside accepted recove	ge etermine ar ry limits	rea response	H MC P RL	Holding times for Value is below Mi Second column co Reporting Detectio	preparation or a inimum Compor onfirmation exce on Limit	naly und æds	Original

Page 8 of 11 10 of 15



QC SUMMARY REPORT

WO#: 23031468

23-Mar-23

Client: Project:	Chemtech O1976			BatchID: 1	R160340
Sample ID: 2 Client ID: 0	23031468-002AMSD Chamber-C-72-West	SampType: MSD Batch ID: R160340	TestCode: EOX_S(9023) Units: mg/Kg TestNo: SW9023	Prep Date: Analysis Date: 3/22/2023	RunNo: 160340 SeqNo: 4262011
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Sample ID: I	MB-R160340	SampType: MBLK	TestCode: EOX_S(9023) Units: mg/Kg	Prep Date:	RunNo: 160340
Client ID:	PBS	Batch ID: R160340	TestNo: SW9023	Analysis Date: 3/22/2023	SeqNo: 4262014
Analyte		Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Extractable C	Organic Halides	ND	40.0		U

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

ND Not Detected

PL Permit Limit

- E Value above quantitation range
- M Manual Integration used to determine area response OG1
- R RPD outside accepted recovery limits
 - Page 9 of 11 11 of 15

- H Holding times for preparation or analy
- MC Value is below Minimum Compound
- P Second column confirmation exceeds
- RL Reporting Detection Limit

CHEIMTECH	284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922															
CHAIN OF CUSTODY RECORD	www.chemtech.net								COC Number 2038928 0/97/0							
CLIENT INFORMATION	14 18 28		CLIENT P		FORM	ATION			CLIENT BILLING INFORMATION							
COMPANY: HOM Architect + Enjineels	PROJECT	NAM	E: NUMA	in Blud	Siphu	n Clei	nin)		BILL T	o: Ha)m A	nhi'te	ch+1	Engina	% _{PO#:}	
ADDRESS: 290 Brond hollow Rd, Svite 400E	PROJECT N	0.: N	YDP200	LOCA	TION:	Que	enj		ADDRESS: 290 Brund hollow Rd, Suite YOUE					Le YOUE		
CITY Melville STATE: NY ZIP: 11747	PROJECT N	IANA	GER: S	fephan	Kaj	olan			CITY	me	[ville	e		STA	re: NY	ZIP: 11747
ATTENTION: Stephen Kaplan	e-mail: S	KAP	hn @	ham	, lom				ATTEN	ITION:	Steph	ien k	aplan	PHC	NE: 631-	-756-800×1613
PHONE: 631-756-8000 × 1613 FAX:	PHONE: 63	21-7 <u>5</u>	6-8000	×1613 FA	X:								AN	ALYSIS		and the second
	D. Level 1/D	DATA	A DELIVE		FORM			- /	RIL		/	/	/	/ /	//	///
HARDCOPY (DATA PACKAGE): DAYS*	Level 1 (R	esults esults	+ QC)	NJ Reduce	d 🗆 U	S EPA CI	a) LP	Pine of	and the second second	/ /	/ ,	/ ,	/ ,	/ ,	/ /	
	Level 3 (R	esults	+ QC 📮	NYS ASP A	NY DINY	'S ASP B	W	ile .	/ ,	/ ,	/ ,	/	/		/ /	
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS		MAT				1	2	3	3. 4 5 6 7 8 9							
CHEMTECH	SAI	MPLE	SAN	IPLE	LES				PRES	SERVA	TIVES				C(OMMENTS
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	8	GH	DATE	TIVIE	iõ #	1	2	3	4	5	6	7	8	9	C-H2SO4	F-OTHER
1. Chamber B 77" Nest	Sludge	X	3 16 23	10:10	19	\times										
2. Chamber C 73" West	SIndige	X	3/16/23	13:20	12	\times										
3.		_														
4.																
5.																
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10.																
SAMPLE CUSTODY MUST BE DOCI RELINQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY	JMENTED BE	LOW	EACH TIN		LES C	HANGE	POSS	ESSIO	NINCLU	JDING	COURI	ER DE	LIVER	Y	1	
1. Paul Nester /Ham 3/16/23 1.			Commen	nts:		s at receip	dl	NKit	e li	1.COMPLIA	Facil	lity	Pai	LAP	TPIS	°C
2. FEALX DATE/TIME: RECEIVED BY:	$\langle \rangle$															
TUNQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY:						CLIENT	: 0	Hand De	livered	🗆 Ot	her				Shipmer	nt Complete
3/20 01976 WHITE - CHEMTE	CH COPY FOR RF	TURN T	O CLIENT	of	15.HE		ECH:		ed Up		d Sampl	ling			C YES	D NO

Form U Parameters (White Pines)

TCLP Metals

ſ

Arsenic Barium Cadmium Chromium Copper Lead Mercury Nickel Selenium Silver Zinc Aluminum Iron

TCLP Semi-Volatiles

O-Cresol M-Cresol P-Cresol 1,4 Dichlorobenzene 2,4 Dinitrotoluene Hexachlorobenzene Hexachloro 1,3 butadiene Hexachloroethane Nitrobenzene Pentachlorphenol 2,4,5 Trichlorophenol 2,4,6 Trichlorophenol

ASTM Leachate

Ammonia-Nitrogen Chemical Oxygen Demand Oil & Grease Total Petroleum Hydrocarbons

TCLP Volatiles

Benzene Carbon Tetrachloride Chlorobenzene Chloroform 1,2 Dichloroethane 1,1 Dichloroethane 2-Butanone (MEK) Pyridine Tetrachloroethane Trichloroethane Vinyl Chloride Toluane Ethylbenzene Xylane

TCLP Pesticides/Herbicides

Chlordane Endrin Heptachlor Heptachlor Epoxide Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex

Total Analysis

pH Free Liquids Ignitability Oil & Grease Total Petroleum Hydrocarbons PCBs Reactive Cyanide Reactive Sulfide Total Organic Halogens Total Solids Total Volatile Solids

W. Velinger	1
CHEMTECH	
CHAIN OF CUSTODY RECORD	

R.

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 WWW.CHEMTECH.NET

23031468

COMPAN	VY · Summit Enviromental Techno		RDER ID . 01976			BUL TO: CHEMTECH PO# : 01976					
ADDRES	S 2310 Win St		COLECT ID:Sinhon			ADDRESS : 2	84. Sheffield Street				
CITY	ivahoga Stata :Ohio * 71P ·	44223 1 0	COJECT MANAGER Sam	antha		CITY: Mountainside	State : NJ	ZIP : 070)92		
E-mail :	yanoga State .onio 21r .		mail :	ba@chemtech.net		ATTENTION :Sama	nt .				
PHONE :	: 330-2 53-8211	Pł	HQNE : (908) 789 8900	FAX: (908) 789 8922	_	PHONE : (908) 789	8900 FA)	K : (908) 789 89) 22		
EDD : E	XCEL NOCLEAN Report : Lev	vel 1	Comment :	1							
ID-	ID" CLIENT SAM		ANALYSIS	Preservative	Method	SAMPLE	COLLECTION	# OF	TAT		
	SAMPLE IDENTIFICATION	MATRIX			<u>`</u>	DATE	TIME	BOTTLES	DA		
01	CHAMBER-B-72-WEST	Solid	тох	Cool 4 deg C	9023	03/16/2023	10:10:00	· 1	1		
02 -	CHAMBER-C-72-WEST	Solid	TOX	Cool 4 deg C	9023	03/16/2023	12:50:00	. 1 .	1		
,		~~							•		
. 5	1						•				

RELINQUIESHED BY SOMPLER:	DATETIME: 312023	RECEIVED BY:	Conditions of bottles or Coolers at receipt: 3 21 23 0950	Compliant	O,9↑ ■ Non Compliant	Ice or Cooler?
ELINQUIESHED BY:	DATETIME:	RECEIVED BY:	7716 0254 1406		100 100	
BLINQUIESHED BY:	DATETIME:	RECEIVED BY:				Shipment Complete:
J.		3.	Page 1 of 1	1	OVERNIGHT	



Summit Environmental Technologies, Inc. 3310 Win St. Cuyahoga Falls, Ohio 44223 TEL: (330) 253-8211 FAX: (330) 253-4489

Website: http://www.settek.com

Sample Log-In Check List

Client Name: CHE-NJ-07972		CHE-NJ-07972	Work Order Number:	230314	68	RcptNo: 1				
Logg	ged by:		3/21/2023 9:50:00 AM	1						
Com	pleted By:	Anthony W. Britton	3/22/2023 9:10:18 AM	1		anthory to	Butter			
Revi	ewed By:	Jennifer Woolf	3/22/2023 10:06:10 A	М		Jund	pr malues	6		
Cha	in of Cus	stody								
1.	Is Chain of	Custody complete?		Yes	\checkmark	No 🗌	Not Present			
2.	How was th	e sample delivered?		FedE	<u>x</u>					
1.00	In			Tracl	king No.	: 771602541406				
<u>10g</u> 3.	<u>In</u> Coolers are	e present?		Yes	\checkmark	No 🗌				
4.	Shipping co	ontainer/cooler in good co	ondition?	Yes	✓	No 🗌				
	Custody se	als intact on shipping cor	ntainer/cooler?	Yes		No 🗌	Not Present 🗹			
	No.	Seal D	Date:	Signe	ed By:	_	_			
5.	Was an atte	empt made to cool the sa	amples?	Yes	\checkmark	No				
6.	Were all sa	mples received at a temp	perature of >0° C to 6.0°C	Yes	\checkmark	No 🗌				
7.	Sample(s) i	in proper container(s)?		Yes	\checkmark	No 🗌				
8.	Sufficient s	ample volume for indicat	ed test(s)?	Yes	\checkmark	No 🗌				
9.	Are sample	s (except VOA and ONG	b) properly preserved?	Yes	\checkmark	No 🗌				
10.	Was preser	rvative added to bottles?		Yes		No 🗹	NA 🗌			
11.	Is the head	space in the VOA vials le	ess than 1/4 inch or 6 mm?	Yes		No 🗌	No VOA Vials 🗹			
12.	Were any s	ample containers receive	ed broken?	Yes		No 🔽				
13.	Does paper	rwork match bottle labels	? tody)	Yes	\checkmark	No 🗌				
14.	Are matrice	es correctly identified on (Chain of Custody?	Yes	\checkmark	No 🗌				
15.	Is it clear w	hat analyses were reque	sted?	Yes	\checkmark	No 🗌				
16.	Were all ho	lding times able to be me	et?	Yes	✓	No 🗌				
Sne	cial Hand	ling (if applicable)	on.)							
17.	Was client	notified of all discrepanci	es with this order?	Yes		No 🗌	NA 🗹			
	Perso	n Notified:	Date:							
	Bv Wł	nom:	 Via [.]	eMa	il 🗔 F	hone 🗌 Fax 🛾	In Person			
	Regar	dina:	vid.		·					
	Client	Instructions:								
18.	Additional r	emarks:								

Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

APPENDIX D

Sediment Disposal Daily Work Reports and Disposal Tickets



February 10, 2025

Dear Mr. Dejesus:

In response to the email and associated analytics received from National Water Main Cleaning Company (NWMCC) on May 28, 2024, it is our understanding that the material represented by the analytics supplied by H2M architects + engineers (H2M) within their April 14, 2023 letter has been classified as a combination of waste types ID 27 and ID 72 and therefore is acceptable at Lemcor.

Lemcor is permitted to accept NJDEP ID waste types 10,13,13C,23,27, and ID 72, including solids collected from stormwater management systems, provided that the materials could not be classified as liquid or dry sewage sludge (ID 74 and ID 12) or septic tank clean-out waste (ID 73).

Please reach out should you have any questions.

Sincerely

Armand E. Lembo Jr., President

Phone (973) 642-1212

www.lemcortransfer.com
Printed on 100% recycled paper

Fax (973) 642-1331
A 1 2 1 7		170 Frelinghuy	ysen Ave	1 a.	DEC		NO. 132133	a and the second se Second second br>Second second
Bill To:	ſ	Newark, NJ	07114 T P-97	76.3	2 Hauler	20699)097	A state of the
NATI037	930	National Water 1806 HARRIS(KEARNY, NJ (Main Cleaning C ON AVE 07032 -	0	NAT1037930	National WaterM 1806 HARRISO KEARNY, NJ 0	fain Cleaning Co N AVE 7032-	
Date		Entry Time	Operator	Exit Time	Operator	Gross Weight	Tare Weight	Net Weight
9/3/20	24	15:03:10	ASIA	15:33:44	ASIA	96240 LB Scale 1 48 12 Tons	60700 LB Scale 1 30 35 Tons	35540 LB
Vehicle	No.	Туре	Plate			Transaction Type	9 30.55 Iona	17.77 10.13
AW941	K	DUMPER	AW941K	Carrier DEP: 08	246 Truck	DEP: 111976		
Quantity	W.C.		Ď	escription/Origin	•		Units Unit Price	Amount
	HCB REC	New York CITY OF NEWA RECYCLING TA	ARK - HCB FEE AX	77 C	:-22- C-42	-026 6	Fon	
iereby certi RIVER N rint:	fy that th AME	e information provid	ed in this form is true	e to the best of my kr	owledge. Signature:			
	9/3/24:	Manhole M- RO	Cleaning					
		zalen, kunu konstructur (15 juli sa pagaran kana pagaran kana pagaran kana pagaran kana pagaran kana pagaran k	underensides a production of the state of the	angangun sasar anton was subargin miskatistis		en light dan samma und a bout kan na ad the same state statement of	at the state of the second	

an a	NUNN	$\sum_{i=1}^{n} a_{i}$	Jad	REC	EIPT DOCUI 20699	MENT NUMBE 1354	IR
Bill To: NAT1037930	National WaterN 1806 HARRISC KEARNY, NJ C	Ain Cleaning C NAVE 7032-	Co	Hauler: NATI037930	National WaterM 1806 HARRISO KEARNY, NJ 0	1ain Cleaning Co N AVE 7032-	
Date 9/5/2024	Entry Time 16:35:34	Operator ASIA	Exit Time 17:01:48	Operator MURRAY	Gross Weight 93180 LB Scale 1 46.59 Tons	Tare Weight 55580 LB Scale 1. 27.79 Tons	Net Weight 37600-LB 18.80 Tons
AX936X	DUMPER	AX936X	Carrier DEP: 08	3246 Truck	Transaction Type	1	
18.80 27 HCB REC.	DRY INDUSTRI New York CITY OF NEWAI RECYCLING TA	AL WASTE RK - HCB FEE X	TLC = JC MH	22-02 -269 -M		ion ion ion	
Print: 9-5-24: N	Anhole M- R	d in this form is true	to the best of my kn	owledge. lignature:	ala	Latolou	

FACILITY I.D. NO. 132133 Lemcor, Inc 170 Frelinghuysen Ave RECEIPT DOCUMENT NUMBER Newark, NJ 07114 1. 20699527 Hauler: Bill To: -: 1. National WaterMain Cleaning Co NATI037930 National WaterMain Cleaning Co. NATI037930 1806 HARRISON AVE 1806 HARRISON AVE **KEARNY, NJ 07032-**KEARNY, NJ 07032-Net Weight Tare Weight Gross Weight Exit Time Operator Entry Time Operator Date 55840 LB Scale 1 92460 LB Scale 1 36620 LB ASIA ASIA 16:06:20 15:44:08 9/6/2024 27.92 Tons 18.31 Tons-46.23 Tons Transaction Type Plate Туре Vehicle No. Truck DEP: 103969 Carrier DEP: 08246 AX936X AX936X DUMPER Amount Unit Price Units Description/Origin Quantity W.C. 100% Ton \sim . 12 DRY INDUSTRIAL WASTE 18.31 27 122-026 New York Ton CITY OF NEWARK - HCB FEE HCB Ton 50-269 REC RECYCLING TAX MH-M 2 2 3 Thereby certify that the information provided in this form is true to the best of my knowledge. DRIVER NAME U. C. I Signature: Print: دور به د تنهو نه و زنرار يحدث النفو 9/6/24: Manhole M- ROD Cleaning

Environmental Protection Day	of Week: SMTW	T F S	S Work Start	heet No.: <u>1</u> ed:	of <u>2</u>	lear Form
			Work Com	plete:		
Contract No./Reg: TLC	-22 / 20248805636		Work Activit	y Time: (Start	End)	
Project Description:	Sewer Investigation		Inspecto	or Time:(Start	_ End)	
Borough:	Queens					
Contractor:	NWMCC		Daily Temp.	Low GM	PF High	°F
nspector's Name:	Amanda		General Weather	7.001		
			Conditions			
Location: Northern Blvd	and Honeywell St - MTA	Midday Storage Yar	d			
General Activity:	Cleaning Only	If Oth	er:			
Subcontractor Used:						
ACTIVITY	FROM	то		DETAILS		PAC
Sewer Investigation			Linear Feet:	Size: 113x81	Shape:	COU
CCTV: □ Sonar: □ Sewer Cleaned: ■ Rev.: □	Manhole M	Chamber C	Material: Upstream Depth:	Type: <u>Combined</u> Brea Downstream De	ksheet Required: □ epth:	
Sewer Investigation			Linear Feet:	Size: 48"	Shape:	+
CCTV: C Sonar: C	Manhole M	Manhole L	Material:	Type: Combined Brea	ksheet Required: □	
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			Upstream Depth:	Downstream De	epth:	
Sewer Investigation			Linear Feet:	Size: Type: Brea	Shape: Iksheet Required: □	
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Sewer Investigation			Linear Feet	Size	Shape:	
CCTV: C Sonar: C			Material:	Type: Brea	ksheet Required:	
Sewer Cleaned: Rev.:			Upstream Depth:	Downstream De	epth:	<u> </u>
Manhole Inspection	MH No:		Material:	Depth:	BS Required:	
Manhole Inspection	MH No:		Material:	Depth:	BS Required:	
			Material:	Depth:		_
Manhole Inspection	MH No:		Material:	Depth:		
	MH No:		Material:	Depth:		+
Manhole Inspection	MH No [.]		Material	Depth:		+
Manhole Inspection	MH No:		Material:	Depth:	BS Required:	+
Bypass Pumping			Pipe Size Bypassed	: Hoi	Irs:	+
Tanker Truck			Hours on Site:			+
Outfall Protection	Outfall No:		Description of Prote	ction:		+
Highway Protection			Hours on Site:			+
Protruding Connections Cut	Total No.:		Mechanically:	Manually:		+
Encrust Deposits Removed	Total CF:		Mechanically:	Manually:		1
Chemical Grouting - Mainline			Linear Feet: Joints Tested:	Size: Joints Sealed:		
Chemical Grouting - Laterals			Host Pipe Size:	Laterals Sealed		
Manhole Grouting	MH No:		Material:	Depth:		+
Manhole Grouting	MH No:		Material:	Depth:		+
Map Change Required □			No. of Extra Manhol Sewer D.N.E.: U	es: No. of Missin mapped Sewer: □ Wro to Other (see Comme	g Manholes: ong Sewer Size: □ nts): □	1
	I	Comr	nents			
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Inspector's Report - CCTV Rev. 2023-09-21

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			Work Com	plete:		incut i offiti
Contract No./Reg:	C-22 / 20248805636		Work Activit	y Time: (Start	End)	
Project Description:	Sewer Investigation		Inspecto	or Time: (Start	End)	
Borough:	Queens					
Contractor:	NWMCC		Daily Temp.	Low	°F High	°F
nspector's Name:	Amanda		General Weather	,		
			Conditions			
Location: Northern Blvc	and Honeywell St - MTA	Midday Storage Ya	d			
General Activity:	Cleaning Only	If Oth	ier:			
Subcontractor Used:						
	FROM	70		557411.0		PAC
ACTIVITY	FROM	10		DETAILS		Code
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Sewer Investigation			Linear Feet:	Size: 113x8	1 Shape:	1
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Manhole Inspection	MH No:		Material:	Depth:	BS Required:	
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Tanker Truck	+		Hours on Site	-		+
Outfall Protection	Outfall No:		Description of Prote	ction:		+
Highway Protection			Hours on Site:			+
Protruding Connections Cut	Total No.:		Mechanically:	Manu	ally:	+
Encrust Deposits Removed	 Total CF:		Mechanically:	Manu	ally:	+
Chemical Grouting - Mainline			Linear Feet: Joints Tested:	Size: Joints Sealed:		1
Chemical Grouting - Laterals			Host Pipe Size: Laterals Tested:	Laterals Sea	led:	
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Manhole Grouting	MH No:		Material:	Depth:		1
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			mapeen		(
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Contractor:	NWMCC		Daily Temp. General	Low AM	°F High PM	°F
nspector's Name:	Amanda		Weather Conditions			
Location: Northern Blvd	and Honeywell St - MTA	Midday Storage Yar	d		I	
General Activity:	Cleaning Only	lf Oth	er.			
Subcontractor Used:		" 01				
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Tanker Truck			Hours on Site:			1
Outfall Protection	Outfall No:		Description of Prote	ection:		1
Highway Protection			Hours on Site:			1
Protruding Connections Cut	Total No.:		Mechanically:	Manua	lly:	1
Encrust Deposits Removed	Total CF:		Mechanically:	Manua	lly:	1
Chemical Grouting - Mainline			Linear Feet: Joints Tested:	Size: Joints Sealed: _		
Chemical Grouting - Laterals			Host Pipe Size: Laterals Tested:	Laterals Seale	ed:	
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APPENDIX E

Weir Replacement Daily Work Reports and As-Built Drawing







Rohit Aggarwala Commissioner

Anastasios Georgelis, P.E. Deputy Commissioner Bureau of Water & Sewer Operations TasosG@dep.nyc.gov

59-17 Junction Boulevard Flushing, NY 11373 MTA/LIRR Sunnyside Yard Queens, New York 11101

Attention: Mr. Tenzin Lhundup - Construction & Development - ESA

Re: Project: Permanent Weir Wall At Manhole M

Contract No.: EC-SEC24 - JLJ - Subcontractor: KNR Management Location: 38-38 43rd Street, Long Island City, NY 11101

Mr. Tenzin Lhundup,

Please see the attached pages. DEP respectfully submits the attached field reports from the above mentioned project. If you have any questions please feel free to reach out to me.

Very truly yours,

VA-

Brian Koch, P.E. Deputy Chief Emergency Contruction

October 9, 2024





PARSONS TRANSPORTATION GROUP OF NEW YORK INC.

STRUCTURAL NOTES:

- 1. CAST-IN-PLACE CONCRETE
- F'C = 4,000 PSI
- 2. EPOXY COATED REINFORCING STEEL (ASTM A775 GRADE 60) FY = 60,000 PSI 3"
- 3. MINIMUM COVER FOR REINFORCEMENT
- 4. ALL EXPOSED CAST-IN-PLACE CONCRETE EDGES SHALL BE CHAMFERED 3/4" X 3/4" UNLESS NOTED OTHERWISE

CONCRETE

- A. USE PREMIX HIGH STRENGTH CONCRETE MIX BY SAKRETE OR APPROVED EQUAL
- THE WATER USED FOR MIXING CONCRETE SHALL BE POTABLE FRESH WATER. Β.
- C. ALLOWED SLUMP SHALL BE 4 INCHES +/- 1 IN. D. SUBMIT PRODUCT FOR ENGINEER'S APPROVAL

EPOXY GROUTING OF REINFORCING

A. NONSHRINK EPOXY GROUT SHALL BE A 100% SOLIDS, VERY HIGH STRENGTH, HIGH PERFORMANCE, PRE-PACKAGED SYSTEM CONTAINING THERMOSETTING EPOXY RESINS, EXPANSIVE ADDITIVES AND INERT FILLERS. THE MANUFACTURER SHALL BE ISO 9001 CERTIFIED AND HAVE AT LEAST 10 YEARS EXPERIENCE IN THE MANUFACTURE OF NONSHRINK EPOXY GROUTS. THE MANUFACTURER SHALL OFFER TECHNICAL SERVICES AND PROVIDE A REPRESENTATIVE AT THE JOBSITE FOR PRODUCT TRAINING PRIOR TO PRODUCT INSTALLATION UPON FIVE DAYS ADVANCE NOTICE.

B. THE MATERIAL SHALL MEET ALL THE FOLLOWING TYPICAL PERFORMANCE CRITERIA WHEN POST CURED AT 70°F

1. COMPRESSIVE STRENGTH, ASTM C 579 B* UNIT TYPE STANDARD GRADE STRENGTH COMP. STRENGTH 1 DAY 16,500 PSI, 7 DAY 17,500 PSI, 28 DAYS 20,000 PSI

- 2. HEIGHT CHANGE, ASTM C 827 70 F POSITIVE EXPANSION POSITIVE EXPANSION
- 3. EFFECTIVE BEARING AREA 95%
- 4. TENSILE STRENGTH, ASTM C 307 70 F (2,000 PSI)
- 5. CREEP, ASTM C 1181 1 YEAR, 400 PSI, 140F 0.5 X 10-3 IN/IN 1.0 X 10-3 IN/IN
- 6. FLEXURAL STRENGTH, ASTM C 580 5,000 PSI
- 7. BOND TO CONCRETE, ASTM C 882 CONCRETE FAILURE CONCRETE FAILURE
- 8. COEFFICIENT OF EXPANSION, ASTM C 531 16 X 10-6 IN/IN/OF 17 X 10-6 IN/IN/OF
- C. CONCRETE SURFACES

SHALL BE DIMENSIONALLY STABLE, FREE OF OIL, GREASE, LAITANCE AND OTHER CONTAMINANTS. MECHANICALLY ROUGHEN SURFACES TO OBTAIN CLEAN, SOUND CONCRETE BY ACCEPTABLE MECHANICAL MEANS, EXPOSING COARSE AGGREGATE. USE TOOLS SUCH AS PNEUMATIC CHIPPING GUNS FOR MECHANICAL SURFACE PREPARATION. DO NOT USE JACK HAMMERS TO PREPARE CONCRETE SURFACES.

D. PRIOR TO PLACEMENT, CONCRETE SURFACES SHALL BE VISIBLY DRY AND BLOWN FREE OF DUST AND DEBRIS USING OIL-FREE COMPRESSED AIR

E. SUBMIT EPOXY PRODUCT FOR ENGINEER'S APPROVAL.

EXECUTION

DEWATER THE WORK AREA BY BLOCKING THE FLOW IN THE CULVERT UP STREAM PUMPING THE FLOW AROUND THE WORK AREA.

REMOVE ALL ACCUMULATED DEBRIS INCLUDING ANY REMAINING SANDBAGS FROM THE WORK AREA. THOROUGHLY CLEAN ALL SURFACES OF THE EXISTING CONCRETE THAT WILL ABOUT THE NEW CONCRETE.

DRILL AND EPOXY GROUT REBAR AS SHOWN ON THE PLANS.

FORM THE WEIR AS SHOWN ON THE PLANS.

CAST IN PLACE CONCRETE.

FORMS CAN BE STRIPPED AFTER 48 HOURS AND INSPECTION BY THE ENGINEER. ANY VOIDS OR HONEYCOMBING SHALL BE REPAIRED.

DEWATERING CAN BE REMOVED WITH THE ENGINEERS ACCEPTANCE OF THE CONCRETE WORKMANSHIP.

ATA Construction & Development

DESIGN OF PERMANENT WEIR AT MANHOLE M STRUCTURAL NOTES DWG. CT-103





WSP USA STV INCORPORATED PARSONS TRANSPORTATION GROUP OF NEW YORK INC.

"FOR INFORMATION ONLY" "FOR INFORMATION CONSTRUCTION





September 30, 2024 (Day 1)



September 30th (Day 1): Contractor (KNR Management) attempted to sandbag the sewer but due to unknown flow issues at the siphon the contractor was unsuccessful.





October 2, 2024 (Day 2)



October 2nd (Day 2): Two (2) six (6) inch hydraulic pumps were sent to the site and set up in hopes of solving the flow issue at the siphon.





October 3, 2024 (Day 3)



October 3rd (Day 3): Utilization of the pumps on day two was successful and the contractor (KNR Management) doweled in rebar and installed form work in the sewer as per the design documents.



Concrete was mixed and slump test performed. Three (3) inch slump was observed.



October 3, 2024 (Day 3 Continued)



Contractor (KNR) poured the concrete weir wall.



Anti-Hydro concrete admixture was used to boost workability and stability in the wet environment.

Sheet: 4 off NEW YORK CITY DEP Site # INSPECTOR'S DAILY REPORT Record# Location: LIRR Yord Borough: Queen Date/Day: 18/4/25 343 Subcontrator KNR Time: 7:00am - 3:30pm Contractor: Project # Weather: Mild den Resident Engineer: Yannis IC Vopwel Contract # FC-SC-24 PAY ITEMS / MATERIAL LOCAL EQUIPMENT LABOR/NAME TOTY TITLE Labor/Fore dry absorbs for sand 731 IJ Øit Laborer Cat M318D 2) 731 3) Narino Nai Doo 731 Laborer 4) Dump Truck 731 iLaborer 1556 Timberman **Utility Truck** 5) Exca Oper. 15 Flat Bed 6) 282 Teamster Boom Truck Compressor eperator Kumer Replegan 19. Pump (3"trash)/ w.hose Jumping Jack Tamper 2/2 Corrector Sohn Lanzo Plate Tamper Roller William Lema 1010 Formater Steel Plates W.O# Barricades Lewis Re Laser Circular / Chain Saw down straw then Description of Work: Wooden concrete forms + remotice Kemoved discharge hoses with Suction Heads + Hydrautic to regular flowing Canditions 6445. Removed upstream sand Returned scwer 0 hack line 6 H.I. Hose conned ottle were ren 111 equement a molenals weinwall ho cfm + 7Æ Utilities Interference: AS-BUILT DRAWING: [Follow As-built Legends; include stationing, North arrow, size and type of sewer, flow, etc.] Date 10/4/24 Weirwall 7N 9'4" 3-0+ r-31 9.5 x 6 ts concrete Borscwer 10 foot Invest Entomo Nonhole M fo LER Yard M401 Gewar Plows 8613 105 164 36 Bottom Bex Bottomof Conter of Box Server ERodel opertime Wallis 24 indian High at this point f server after LIRR TRain Fracks Walls Location:



October 4, 2024 (Day 4)



October 4 (Day 4): Contractor stripped the form work, removed sandbags, pumps, and cleaned up the site before leaving.

PLATES

Site Plan Sewer System Base Map



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MH-	-2 LOCATION AND DESIGNATION OF SEWER MANHOLE WITH GRATE COVER	MH-60	MANHOLE REMEI

